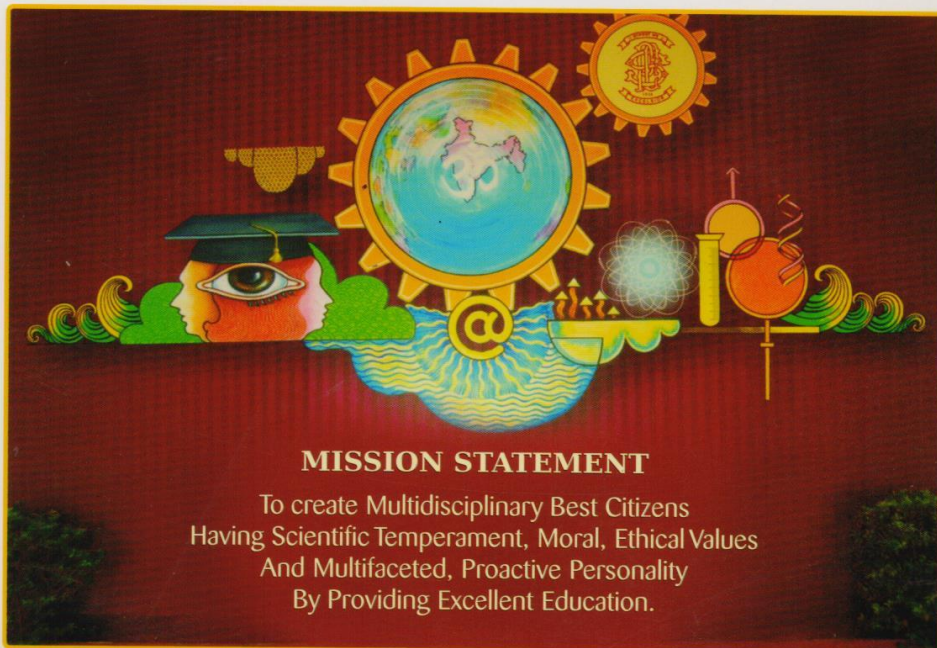




# MODERN

## 2013-2014





**International Conference on Environment Conservation by Adopting New Technologies  
ICECANT -2014  
28<sup>th</sup> -29<sup>th</sup> January 2014**



Dr. Gajanan Ekbote, Chairman, P.E.S.,- Inaugural address.



Introductory remarks by-Principal Dr. R.S. Zunjarrao.



Release of Conference proceedings-'Environment Observer'.



Plenary lecture by Mr. Keith Zendler.



Esteemed scholars -Panel Discussion.



Valedictory - Dr Vijay Khare, Director, ISC, University of Pune.



॥ ज्ञानमयो भव ॥



**Office Bearers**

**Dr. Rajendra Zunjarrao**  
Principal

**Prof. Shamkant Deshmukh**  
Secretary, P.E.S., Pune 5.  
Vice-Principal

**Dr. Yashwant Waghmare**  
Vice-Principal

**Dr. Nayana Kulkarni**  
Vice-Principal

**Prof. Sharad Chaudhari**  
Vice-Principal

**Prof. Anant Gosavi**  
Incharge B.B.A., B.C.A., M.Com. (Non grant)

**Prof. Milind Waghmare**  
Vice-Principal

**Prof. Leena Patankar**  
Vice-Principal, Junior College

**Prof. Vilas Alhat**  
Supervisor, Junior College

**Mr. Ravindra Kale**  
Registrar

Progressive Education Society's

**Modern College**  
of  
**Arts, Science and Commerce**

Shivajinagar, Pune - 411 005

NAAC Re-accredited with 'A' Grade

College with Potential for Excellence

Star College Scheme

BEST PRINCIPAL AWARD - UoP

BEST NSS UNIT & BEST NSS P.O. UoP Award

BEST NSS UNIT & BEST NSS P.O. State Govt. Award

**MODERN**  
**2013 - 14**

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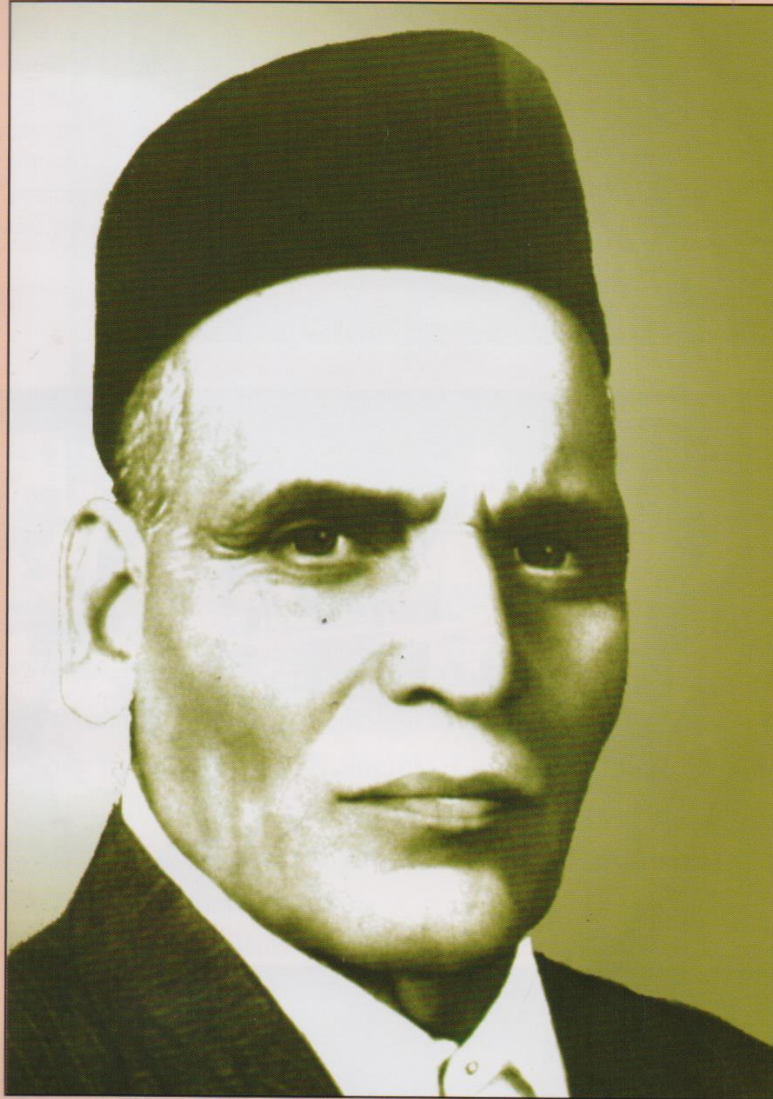
**Progressive Education Society, Pune - 5.**  
**INSTITUTIONS**

**(Estd.)**

- (1934) Modern High School, Pune - 5.
- (1936) Prathamik Vidya Mandir, Pune - 5.
- (1940) Sir Sassoon David Hostel, (for boys)
- (1946) P. E. S. Girls' High School, Pune - 5.
- (1967) Modern High School & Jr. College & MCVC Pune - 53.
- (1968) Shishu Vidya Mandir, Pune - 5.
- (1968) Girls' Hostel, Pune - 5.
- (1970) Modern College of Arts, Science and Commerce, Pune - 5.
- (1976) Kindergarten and Primary English Med. School, (N.C.L. Campus), Pune - 8.
- (1981) N. C. L. Secondary & Higher Secondary School, Pune - 8.
- (1982) W. I. E. Badminton Complex, Pune - 5.
- (1985) Pre-Primary and Primary English Medium School, Pune - 5.
- (1986) Shishu Vidya Mandir, Nigadi, Pune - 44.
- (1986) Prathamik Vidya Mandir, Nigadi, Pune - 44.
- (1989) Modern Centre For Career Guidance, Pune - 5.
- (1990) Shishu and Prathamik Vidya Mandir, Pune - 53.
- (1991) Modern High School, Bhose (Tal. Khed), Pune.
- (1991) Institute of Management and Career Development, Nigadi, Pune - 411 044.
- (1991) Montessorie Teachers' Training Course, Pune - 5.
- (1991) Pre-Primary and Primary English Medium School, Nigadi, Pune - 44.
- (1992) Modern High School, Nigadi, Pune - 44.
- (1992) Modern College of Arts, Science & Commerce, Pune - 53.
- (1993) Modern English Medium High School, Pune - 5.
- (1994) P. Nehru Shishu and Prathamik Vidya Mandir, Warje, Pune - 58.
- (1997) Modern Centre for Information Technology and Research, Pune - 5.
- (1998) Modern College of Pharmacy, Nigadi, Pune - 44.
- (1998) Modern High School, Warje, Pune 58.
- (1999) Modern College of Engineering and Information Technology, Pune - 5.
- (2000) Modern High school, English Medium, Nigdi, Pune - 44.
- (2002) Pre-Primary English Medium School, Warje, Pune 58.
- (2002) Modern Primary English Medium School, Warje, Pune 58.
- (2003) Modern Law College, Pune - 53.
- (2003) Modern Junior College (Science) Pune - 44.
- (2004) Modern College of Special Education Pune - 5.
- (2004) Modern College of Pharmacy, Moshi, Dist. Pune (for women)
- (2006) Modern College of Education for Women, Shivajinagar, Pune 5.
- (2006) Modern College of Nursing, Shivajinagar, Pune - 5.
- (2007) Modern College of Physiotherapy, Shivajinagar, Pune - 5.
- (2007) Modern College of Computer and Business Study
- (2008) Modern College of Agricultural Biotechnology, Kule-Dakhane, Paud, Tal. Mulshi, Pune.
- (2009) Modern College of Commerce and Computer Studies, Yamunanagar, Nigdi, Pune - 44.
- (2010) Modern Institute of Business Management, Pune 5.
- (2010) Modern High School (Eng. Med.) Pune 58.



## **The Pioneer**



**Late Shri. Shankarrao Kanitkar**

**Founder  
Progressive Education Society  
Pune 5.**



## Our Moments of Pride



Principal Dr. R. S. Zunjarrao receives the **'Best Principal Award'** of University of Pune, at the hands of Hon'ble Vice Chancellor Dr. W.N. Gade, in presence of BCUD Director Dr. V. B. Gaikwad, Registrar Mr. Kadu, Chairman PES, Dr. G. R. Ekbote, Secretary PES, Prof. S. S. Deshmukh and Joint Secretary PES, Mrs. J. G. Ekbote.

Prof. P. S. Varade receives the **'Best NSS Unit Award'** and the **'Best Programme Officer Award'** of University of Pune, at the hands of Senior P. I. Mr. Suryavanshi in presence of BCUD Director Dr. V. B. Gaikwad, Dr. Nitin Ghorpade, our Principal Dr. R. S. Zunjarrao and P.O. Prof. Nisha Bhandare.



Prof. P. M. Sambare felicitated by Dr. Sanjay Dhande, (Ex. Director I.I.T., Kanpur) for receiving the **'Best NSS Unit Award'** and the **'Best Programme Officer Award'** of Govt. of Maharashtra in presence of Chairman PES, Dr. G. R. Ekbote and Joint Secretary PES, Mrs. J. G. Ekbote.



## Our Inspiration



## Message

Modern College of Arts, Science and Commerce, Shivajinagar, Pune-5 was established in 1970 as the first senior college of Progressive Education Society. As per the vision of founder members of P.E.Society Late Shankarraoji Kanitkar and Late V.T. Tatke, we live up to the two keywords 'Progressive' and 'Modern'. This college has progressed right from its beginning to a glorious destination today and I am sure it will cross greater milestones in future.

Modern College, after achieving 'Best college award' by University of Pune in 2008, has improved its status by achieving 'A' grade from NAAC in 2010, CPE status of UGC in 2011, FIST (Funds for Improvement of Science & Technology Infrastructure) grants from DST and STAR college scheme from DBT in 2013. The number of students enrolled during this academic year is more than 9500, and it is prestigious that a few International students too have sought admission. It is appreciable that an International Student Cell is also established in the college for the benefit of foreign students. I am proud to mention that the college has established 'Digital Record Room' and 'Digital Library' this year, along with renovation of library to 'Modern Library'.

This college had organized environment and e-waste related International and National conferences this year and many State level, District level seminars are



regularly organized. Along with Academic, Research and Extra-curricular achievements, college has crossed landmarks in Social work. The senior college is awarded as 'Best College in University of Pune in NSS', and NSS officer Prof. P. S. Varade as 'Best NSS program officer', NSS of Junior wing is also awarded as 'Best NSS Unit' and Program officer Prof. P.M. Sambare as 'Best NSS officer', by Government of Maharashtra. This year, Kiran Pethe (Judo) and Sangram Chougule (Best Physique) won the prestigious 'Shiv Chhatrapati Award' in sports from Government of Maharashtra. Along with these a feather in the cap of "Team Modern" was added when Principal Dr. Rajendra Zunjarrao, was conferred the 'Best Principal Award' by University of Pune, on University Foundation Day. I hope the college will progress further by this momentum.

I give full credit for all these commendable achievements to the Best Principal Dr. Rajendra Zunjarrao and local managing committee of this college, which consists of senior educationists like Prof. P.S. Chirputkar, Prof. A.K. Pande and Prof. Mrs. J. G. Ekbote. The Vice Principals along with office bearers have been assisting the Principal with positive attitude. I am glad to mention that all teaching and non-teaching staff members have contributed to the success and achievements of Modern College of Arts, Science and Commerce, Shivajinagar, Pune-5.

The college has already started Research Centers in Marathi and Economics in addition to earlier six Research Centers and in next academic year it is going to start 'Bachelor of Fashion Design', 'B.Sc.Nanoscience and Nanotechnology' along with 'M.Sc. Mathematics'.

Modern College, Pune-5 is going for third cycle of NAAC accreditation in January 2015. I am sure that with the spirit of team work, "Team Modern" will be successful in achieving their target score of CGPA, required for becoming 'College with Excellence' and also the grade "A" in re-accreditation by NAAC.

I always say, Modern College is an "ASSET" to P.E. Society as well as to the University of Pune. I express my best wishes to the Principal, all LMC Members, the teaching and non-teaching staff members and students of this college.

With personal regards,

**Prof. Dr. Gajanan Ekbote**

M.S., M.N.A.M.S.

**Chairman,**

Business Council,

P.E.Society, Shivajinagar, Pune-5.



## From the Principal's Desk



I am very happy to share my feelings at the conclusion of the academic year 2013-14. This academic year was full of academic and co-curricular activities. At the beginning of the academic year, the Foundation Day of our college was celebrated with the guidance lecture of eminent heart surgeon, Dr. Jagadish Hiremath.

A milestone in the development of our college was inauguration of the 'Digital Record Room' and 'Digital Library' at the hands of Honourable Padmashree Dr.D.Y. Patil, Governor of Bihar, on 31<sup>st</sup> July 2013. Due to these facilities, the college is able to provide services to stakeholders promptly and accurately. The library infrastructure is renovated completely and ambience of library is enhanced by modern facilities like surfing of internet, accessing e-books, staff studies section, library website, library e-bulletin, photocopy, printout facility and the CCTV surveillance.

In this academic year, we have enhanced use of ICT facilities in teaching, learning and administration. Online admission procedure is adopted for some of the courses in this academic year and we have planned to apply it to all the courses in next academic year. It is a matter of pride for us that in this academic year, 45 International students were admitted to various courses in our college. Hence the International Student Cell is also formed for better services to international students.

The college has maintained the tradition of successful organization of International Conference, two National Conferences and two State level conferences this year also.



Number of seminars, lecture series, exhibitions were also organised by various departments for enhancing quality of teaching, research and skill development among the students. This year we have conducted two meetings of Industry Academia Collaboration Committee, in order to get placement opportunities and guidance from industrial sector. Our students also have shown their excellence in Purushottam Karandak, Firodia Karandak and number of cultural competitions and have bagged several prizes. Our Physical Education Dept. had organised "Sports Week" for the employees of Progressive Education Society. I am glad that two of our students were awarded with prestigious 'Shivachhatrapati Award' this year. The activities of NSS and NCC were also at their best. Two students participated in Republic Day Parade at Delhi.

It was a very happy moment for us when our senior college NSS unit was awarded the "NSS Best College Award" and Prof. P. S. Varade was declared as the "Best NSS Program Officer", by the University of Pune. This was followed by Junior College NSS Unit, which was also awarded as "NSS Best College Unit" and "Best NSS Program Officer" to Prof. P.M. Sambare by Government of Maharashtra. We congratulate the NSS units for the unique achievements. Our parent body, "Progressive Education Society" received MACCIA award for excellence in Entrepreneurship in category "Corporate Social Responsibility" by IBM Lokmat group in August 2013.

Members of the teaching staff have been striving hard to reach higher academic standards without compromising with their teaching assignments and routine college activities.

During last few years, college has been taking progressive strides and has reached a height, which resulted in getting 'Best Principal Award' of University of Pune. I feel it is due to the efforts of every stake holder of our college.

In the next academic year, 2014-15, our college is going to be in the third cycle of re-accreditation by NAAC. I hope, once again by our strong team work, we will go through the process efficiently and emerge out with good results.

I would like to thank authorities of Progressive Education Society, particularly Honourable Prof.Dr.G.R.Ekbote, Chairman, Business Council, P.E.Society, for the valuable guidance and continuous encouragement. We are grateful to Local Managing Committee Chairpersons, Prof. P.S. Chirputkar, Dr. A.K. Pande and Prof. Mrs. J.G. Ekbote and Prof.S.S.Deshmukh, Secretary of P.E.Society, for their active support, guidance and encouragement.

I am indeed very happy to see that the Magazine Committee has taken painstaking efforts and ensured that further improved quality magazine is ready in the given time limit. I congratulate all the members and Chairperson of Annual 'Modern' Magazine Committee for their efforts and quality work.

**Dr. Rajendra S. Zunjarrao**

Principal



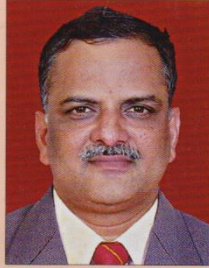
## प्रशासनातील आधारस्तंभ



मा. प्रा. डॉ. गजानन एकबोटे  
कार्याध्यक्ष,  
प्रोग्रेसिव्ह एज्युकेशन सोसायटी



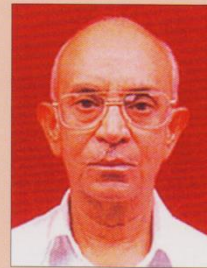
मा.प्रा.शामकांत देशमुख  
कार्यवाह, प्रो.ए.सो.  
उपप्राचार्य



मा.प्रा.डॉ.राजेंद्र झुंजारराव  
प्राचार्य



मा.प्रा.प.स. चिरपुटकर  
अध्यक्ष, वरिष्ठ महाविद्यालय  
स्थानिक व्यवस्थापन समिती



मा.प्रा.डॉ.अ.के.पांडे  
अध्यक्ष, वरिष्ठ महाविद्यालय  
स्थानिक व्यवस्थापन समिती



मा.प्रा.ज्योत्स्ना एकबोटे  
सहकार्यवाह, प्रो.ए.सो.  
अध्यक्षा, कनिष्ठ महाविद्यालय  
स्थानिक व्यवस्थापन समिती



मा.प्रा.अनंत गोसावी  
इन्चार्ज,  
बी.बी.ए., बी.सी.ए., एम.सी.ए. कॉमर्स



मा.प्रा.डॉ.यशवंत वाघमारे  
उपप्राचार्य



मा.प्रा.डॉ.नयना कुलकर्णी  
उपप्राचार्य



मा.प्रा.शरद चौधरी  
उपप्राचार्य



मा.प्रा.मिलिंद वाघमारे  
उपप्राचार्य



मा.प्रा.मानसिंग साळुंके  
समन्वयक  
कनिष्ठ महाविद्यालय



मा.प्रा.भालचंद्र भोमे  
उपप्राचार्य, कनिष्ठ महाविद्यालय  
(१ जून ते ३० सप्टें. २०१३)



मा.प्रा.लिना पाटणकर  
उपप्राचार्य  
कनिष्ठ महाविद्यालय



मा.प्रा. विलास आल्हाट  
पर्यवेक्षक  
कनिष्ठ महाविद्यालय



मा.रवींद्र काले  
रजिस्ट्रार



## Special Moments



State level First Prize  
to P. E. Society in  
**Corporate Social Responsibility Category**  
by IBN Lokmat and Maharashtra  
Chamber of Commerce.  
Dr. Gajanan Ekbote (Chairman, P.E.S.)  
receives the award  
at the hands of  
Honourable Sharad Pawar  
in presence of Mr. Nikhil Wagle.

"Grantha-Tula"  
on the occasion of  
60th Birthday of  
Chairman P.E.S. Dr. G. R. Ekbote.



Inauguration of Digital Library, Modern College,  
Pune - 5 at the hands of  
Honourable Dr. D. Y. Patil, Governor of Bihar.  
Chairman PES - Dr. G. R. Ekbote  
and Vice-Chancellor Dr. W. N. Gade present.

Felicitations of  
Dr. Raghunath Mashelkar  
by Dr. G. R. Ekbote  
in presence of  
Mrs. Chanchala Kodre,  
Mayor of Pune  
during 'Conversations 2014',  
organised by  
Modern College, Pune - 5.





## ***Just a Few Words...***

*Dear Readers,*

*Our Annual College Magazine Committee is pleased to present 'MODERN 2013-14' to you all.*

*The entire process of shaping this magazine, though tedious, time consuming and patience testing was very rewarding. We have taken care to see that reports of various associations, committees and departments have not been distorted while editing.*

*As you read through the reports you will realise, just as we had, that every association and department has its own unique special features. Yet, the collage of these reports expresses the spirit of our college, in its entirety.*

*Students and staff have enthusiastically contributed to the literary section of the magazine. The dormant potential of our students has emerged in the form of articles, essays, travelogues, personal experiences and poems. You will find this section interesting and quite informative too.*

*Our college takes up activities from micro to mega scale. Photographs of certain events included in this magazine will remind us of those cherishable moments.*

*The cover design was conceived by our Principal Dr. R. S. Zunjarrao and Vice Principal Prof. S. R. Chaudhari. Mr. Chintan Dewalia efficiently brought out the virtual concept into reality on the cover page. Our college has always been outstanding. Glorious awards of this year, therefore, occupy the Main cover.*

*Similarly, our students have excelled on all fronts. Arts circle and Gymkhana department have coveted many prizes. As a token of appreciation of our students, we have dedicated the Back cover to the students. Their trophies make all of us feel proud.*

*The Editorial Board expresses gratitude towards all the Office Bearers of the Business Council of the Progressive Education Society, our Principal Dr.R.S.Zunjarrao and all the Vice-Principals for their initiative, guidance and encouragement. We thank our colleagues, the office staff, non-teaching staff and students for their support. Special thanks to Dr. N. J. Kulkarni, Incharge and Prof.S.R.Chaudhari, the Advisor of our Committee for guiding and helping us at all times in all possible ways.*

*We also thank our former editor and retired staff member Prof. R. V. Kulkarni for sparing his time and expertise to check our raw reports and articles.*

*We express our heartfelt appreciation to Shri. Madhav Nagpurkar and Shri. Avinash Kakade of Shree Mudran Mandir for their tireless work. Thanks are also due to photographer Shri. Hemant Date.*

*We have tried our best to avoid mistakes. However, please bear with us if you find any lapses.*

*We look forward to your feedback for enhancing the quality of our Annual College Magazine.*

**Narendra M. Naidu**  
*Editor*



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## प्रोग्रेसिव्ह व मॉडर्न !

‘प्राचार्य डॉ. राजेंद्र झुंजारराव यांच्याशी संवाद’

मुलाखतकार - प्रा. शरद चौधरी (उपप्राचार्य)



मॉडर्न कला, विज्ञान व वाणिज्य महाविद्यालय शिवाजीनगर, पुणे ५ हे जून १९७० रोजी सुरू झाले. सुरुवातीपासून गुणवत्तेचा ध्यास घेतलेल्या गुरुवर्य शंकररावजी कानिटकर, ताटके सर यांनी सर्वोत्तम सुविधा व प्राध्यापक या महाविद्यालयात उपलब्ध करून दिले. यातूनच त्याकाळातील अनेक सुप्रसिद्ध प्राध्यापक व नामवंत प्राचार्य यांच्या प्रयत्नांमधून महाविद्यालयाचा सुरुवातीपासूनच प्रगतीचा चढता आलेख आहे. १९७६ साली या महाविद्यालयात ज्युनियर कॉलेज सुरू होऊन पहिला विस्तार झाला. त्यानंतर १९८६ मध्ये बी.सी.एस., ११वी, १२वी बायोफोकल कार्सेस सुरू झाले. याबरोबरच १९७९ पासून बॉटनी व झूलॉजी या विषयातील संशोधन केंद्रे स्थापन झाली. यानंतर सन १९९५ ते २००३ या काळात महाविद्यालयात पदव्युत्तर वर्ग सुरू झाले व शैक्षणिक वातावरणाची एक उंची गाठण्याचे काम सुरू झाले. २००३ नंतरच्या काळात प्रोग्रेसिव्ह व मॉडर्न या नावांना अनुसरून बी.बी.ए., बी.सी.ए., पदव्युत्तर डिप्लोमा कोर्सेस सुरू करण्यात आले.

अशा या भक्कम पाया रचलेल्या व प्रगतीपथावर असणाऱ्या महाविद्यालयाने २००३ मध्ये नॅक मूल्यांकन सर्वात प्रथम (पुण्यातील महाविद्यालयांपैकी) करून घेतले. त्यावेळी महाविद्यालयास ब+ हा दर्जा मिळाला. या अनुभवातून व ऊर्जेतून सन २०१० मध्ये अत्यंत शिस्तबद्ध व सांघिक प्रयत्नाने आपल्याला नॅकच्या पुनर्मूल्यांकनात ‘अ’ दर्जा मिळाला. त्याआधी सन २००८ मध्ये पुणे विद्यापीठाचा उत्कृष्ट महाविद्यालय हा पुरस्कार आपणास मिळाला होताच. सन २०१० नंतर यूजीसीचा CPE दर्जा, DBT चा Star College सन्मान, DST चा FIST, ह्या सर्व योजना आपणास प्राप्त झाल्या, हे सर्वश्रुत आहेच. या प्रगतीबद्दल व प्राचार्यपदाची यशस्वी पाच वर्षे पूर्ण करून पुढच्या महत्वाच्या टप्प्यावर असतांना आपण प्रत्यक्ष प्राचार्यांशीच हितगुज करू या.

**प्रा. चौधरी :** सर, आपण या महाविद्यालयातूनच आपले ११वी ते पीएच.डी. पर्यंतचे शिक्षण घेऊन प्राचार्यपदापर्यंत प्रगती केली याबद्दल आपले सर्वातफेे अभिनंदन ! प्रथमतः आपणास महाविद्यालयाबद्दल आपले विचार थोडक्यात मांडण्याची विनंती करतो.

**प्राचार्य :** माझे दहावीपर्यंतच शिक्षण ठाणे जिल्ह्यातल्या मुरबाड तालुक्यामध्ये सरळगाव या ठिकाणी झाले. शिक्षणाची एवढी प्रगती मुरबाड तालुक्यामध्ये नव्हती. अशा वातावरणामध्ये दहावीपर्यंतच शिक्षण घेऊन मी पुण्यास शिक्षणासाठी आलो. पुण्यातल्या मॉडर्न महाविद्यालयामध्ये १९७९ मध्ये मी ११वीला विज्ञान शाखेमध्ये प्रवेश घेतला. १०वी पर्यंतच शिक्षण मराठी माध्यमातून झाले होते. ११वीला मराठी माध्यमातून येणाऱ्या विद्यार्थ्यांना मदत व्हावी म्हणून पहिले ३-४ महिने इंग्लिशबरोबर मराठीतून सुद्धा शिकवणारे शिक्षक त्यावेळी मला लाभले. त्यामुळे मराठी माध्यमामधून इंग्लिश माध्यमामध्ये येताना जी मदत मला शिक्षकांची हवी होती ती चांगल्या प्रकारे मिळाली. या गोष्टीमुळे महाविद्यालयात एक अकरावीचा विद्यार्थी म्हणून स्थिरस्थावर होण्यास मला निश्चित मदत झाली.

अकरावी, बारावीनंतर बी.एस्सी. करण्याचा निर्णय मी घेतलेला होता. बी.एस्सी. सुद्धा मी येथेच केले. सन १९८४ मध्ये मी बी.एस्सी. वनस्पतीशास्त्र पूर्ण केले. त्यावेळेचे डॉ. अरविंद पांडे, प्रा. बनसोडे यांच्यासारखे अगदी तळमळीने शिकविणारे आणि विद्यार्थी घडविण्याचे वसा घेतलेले हे शिक्षक त्यावेळेस मला मिळाले. अशा शिक्षकांचा आदर्श ठेवूनच, अशा शिक्षकांच्या मार्गदर्शनामुळे मी. डिस्टिंक्शनसह पास होऊन वनस्पतीशास्त्र या विषयात बी.एस्सी. पूर्ण केले. तेव्हापासून जाणवते की गरीबातल्या गरीब विद्यार्थ्याला मदत करणारे हे महाविद्यालय आहे. विद्यार्थी घडविणे हेच आपले जीवनकार्य आहे असे मानणारे शिक्षक येथे आहेत आणि अशा शिक्षकांमुळे माझ्यासारखे हजारो विद्यार्थी इथे घडलेले आहेत. त्यावेळेस महाविद्यालयामध्ये विद्यार्थी संख्या कमी होती. साधारण दीड ते दोन हजारच विद्यार्थी मॉडर्न महाविद्यालयात १९८४ मध्ये असावेत. आज ९००० विद्यार्थी आहेत. शिक्षक, शिक्षकेतर मिळून ३२५ व्यक्ती येथे कार्यरत आहेत. महाविद्यालयाची प्रगती होत असतांना पूर्वीपासून जी काही मूल्य आहेत, ती आजही महाविद्यालय पाळत असल्याचे लक्षात येते. गरीबातल्या गरीब विद्यार्थ्याला उत्तम शिक्षण



देण्याची धडपड या महाविद्यालयातील सगळेजण करत आहेत असे मला जाणवते.

**प्रा. चौधरी :** या महाविद्यालयाच्या आत्तापर्यंतच्या वाटचालीमधील टप्प्यांचे वर्णन आपण कसे कराल ?

**प्राचार्य :** पहिला टप्पा १९७० पासून ते ज्युनिअर कॉलेज सुरू होईपर्यंत मी मानतो. कनिष्ठ महाविद्यालय ७६-७७ च्या दरम्यान सुरू झाले. पहिल्या सात वर्षांच्या टप्प्यामध्ये फक्त सिनिअर कॉलेज आणि बी.ए., बी.कॉम, बी.एस्सी. हेच वर्ग सुरू असलेला पहिला टप्पा होता. १९७७ पासून १९९४ पर्यंत बी.ए., बी.कॉम, बी.एस्सी.बरोबर ज्युनिअर कॉलेज हे सुरू असण्याचा जो टप्पा आहे त्याला दुसरा टप्पा म्हणता येईल. सन १९९४ ला संस्थेने घेतलेल्या निर्णयानुसार मोठ्या प्रमाणात पदव्युत्तर विभाग सुरू करण्यात आले. १९९८ पासूनचा पुढचा टप्पा हा २००३ पर्यंतचा, हा पदव्युत्तर विभाग, पदवीविभाग व कनिष्ठ महाविद्यालय असे तीन विभाग सुरू असलेल्या १९९४ ते २००३ या काळातील तिसरा टप्पा. सन २००३ ला आपले महाविद्यालय पहिल्यांदाच नॅक मूल्यांकनाच्या प्रक्रियेला सामोरे गेले. नॅक मूल्यांकित असलेला हा टप्पा २००३ ते २०१० या कालावधीत होता. या टप्प्यात महाविद्यालय निश्चितच प्रगतीपथावर होतं. २००३ ते २०१० या टप्प्यात २००८ मध्ये आपल्या पुणे विद्यापीठाने सर्वोत्कृष्ट महाविद्यालय पारितोषिक दिले, तो एक महत्वाचा टर्निंग पॉइंट होता. पुढची प्रगती म्हणजे आपल्याला 'अ' दर्जा नॅककडून प्राप्त झाला. २०१० पासून २०१४ हा 'अ' दर्जा प्राप्त केलेल्या महाविद्यालयाचा टप्पा आहे. तो अधिकच जास्त प्रगतीशील असा टप्पा मला वाटतो याचे कारण बेस्ट कॉलेज अवॉर्ड २००९ मधलं, त्यानंतर २०१० मध्ये सगळ्यांनी एकत्र येऊन काम केलं आणि 'अ' दर्जा प्राप्त केला. तिथून दरवर्षी आपल्याला कुठले न कुठले गौरव महाविद्यालयास प्राप्त होत आहेत. २०१० ते २०१४ या काळात वेगवेगळे अवॉर्डस आपल्याला मिळालेले आहेत. त्यामध्ये कॉलेज विथ् पोर्टॅशियल एक्सलन्स (CPE) हा दर्जा UGC-BSR, DST-FIST, DBT-STAR COLLEGE, इत्यादी महत्वाचे टप्पे आहेत.

**प्रा. चौधरी :** आपण विद्यार्थी असतांना व आज महाविद्यालय ज्या प्रगतिपथावर आहे याबाबत आपले विचार काय ?

**प्राचार्य :** महाविद्यालयाच्या प्रगतीचा आनंद मला वेगवेगळ्या भूमिकेतून घेता आलेला आहे. या दृष्टीने मी सुदैवी आहे. आता प्राचार्यांच्या नजरेतून मला त्याचा आनंद आणि समाधान आहे की महाविद्यालयाची प्रगती होते आहे. त्या आधी विभागप्रमुख, आधी शिक्षक-प्राध्यापक म्हणून, त्याआधी जैवतंत्रज्ञान विभाग आणि सूक्ष्मविभाग शास्त्राचा समन्वयक या भूमिकेतून महाविद्यालयाच्या प्रगतीचा मोठा आनंद आहे. या महाविद्यालयाची प्रगती होणार आहे

आणि भविष्यातही होत राहील. याचं एक कारण म्हणजे सर्व शिक्षक व शिक्षकेतर कर्मचारी सरळमार्गी व कायद्यांच्या चौकटीत राहून काम करणारे आहे. तसेच हे काम करताना त्याची सेवाभावी भूमिका आहे. येथे आपण समाजाची शैक्षणिक सेवा करण्यासाठी आहोत याचे त्याला भान आहे. त्यामुळे या महाविद्यालयाच्या प्रगतीची धौडदौड भविष्यात इतक्या दूरवर जाईल की इतर महाविद्यालये आपल्यापासून खूप मोठ्या अंतरावर असतील असे मला स्पष्ट दिसत आहे. निश्चितच समाजामध्ये गरीबातल्या गरीब विद्यार्थ्याला मदत करणारं महाविद्यालय म्हणून आपल्याबद्दल गौरवोद्गार काढले जातात याचा फार आनंद वाटतो.

**प्रा. चौधरी :** महाविद्यालयाचे नॅक मूल्यांकन सुरू झाल्यापासून आमूलाग्र असे अनेक बदल व सुधारणा शैक्षणिक व सेवासुविधा यामध्ये घडल्याचे दिसून येते, याबाबत आपले विचार मांडावे.

**प्राचार्य :** नॅकद्वारा मूल्यांकन करण्याचा जो निर्णय UGC ने घेतला ते फार उपयुक्त व महत्वाचा निर्णय ठरलेला आहे. त्याचे फायदे जरी वेगवेगळ्या महाविद्यालयाला मिळत असले तरी खरंच विद्यार्थ्याला त्याचा फायदा झाला आहे. नॅकच्या मूल्यांकनापूर्वी महाविद्यालयाचे शैक्षणिक व्यवस्थितीच्या पार पडलं की झालो आपण यशस्वी असं मानलं जायचं. प्रशासनाच्या दृष्टीने प्रवेश व्यवस्थित झाले, शिक्षण देण्याची प्रक्रिया व्यवस्थित झाली, परीक्षा व्यवस्थित झाल्या, निकाल वेळेवर, चांगले लागले यातच समाधान मानण्याची प्रवृत्ती नकळत निर्माण झाली होती. नॅकद्वारे मूल्यांकन सुरू केल्यानंतर मानसिकता आता पूर्णपणे बदललेली आहे. सतत प्रगती झाली पाहिजे याचा आग्रह, प्रत्येकाने आपापल्या स्तरावर घेतलेला अड्डाहास, किंवा हे करावं असं वाटण्याची मनोभूमिका दिसून येते. आपल्या बाबतीत 'प्रोग्रेसिव्ह' व 'मॉडर्न' हे दोन मर्मवत शब्द आहेत, त्यामुळे आपण सतत प्रगतीपथावर आहोत. परंतु पाच वर्षांनंतर परत एकदा ही एक चांगली संधी आहे की नॅकद्वारा पुन्हा एकदा मूल्यांकन होणार आहे. त्यामुळे अनेक जी काम मनात आहेत त्या कामांचा वेग वाढतो आहे. विद्यार्थ्यांसाठी अधिक चांगल्या सुविधा, अधिक चांगलं इन्फ्रास्ट्रक्चर, पिण्याच्या पाण्याची सोय, बिल्डिंगची रंगरंगोटी, डॉक्युमेंटेशन हे सगळं पाच वर्षांतून एकदा पुन्हा एकदा चांगल्या प्रयत्नांनी होतं. याबरोबरच सांघिक भावना पाच वर्षांनंतर पुन्हा एकदा आधिक चांगल्या प्रकारे निर्माण होते, आणि क्रिएटिव्हिटीचा आनंद त्यामधून मिळतो. तर ही एक उत्तम प्रक्रिया आहे.

**प्रा. चौधरी :** महाविद्यालयीन विद्यार्थी संख्या सुमारे ९५०० व तीन शिफ्टसमध्ये असणारे विभाग हे सर्व तुम्ही प्राचार्य म्हणून कसे सांभाळतात ?

**प्राचार्य :** मी सुदैवी आहे. कायदानुसार सुमारे ९५०० हजार विद्यार्थ्यांची जबाबदारी प्राचार्यावर आहे. परंतु या जबाबदारीचे संस्थेच्या



मदतीने उत्तम विभाग केलेले आहे. मला मदतीला प्रत्येक शाखेचे उपप्राचार्य आहेत आणि मी इनफॉर्मल / औपचारिकपणे म्हणत असतो की उपप्राचार्य त्या शाखेचे प्राचार्यच आहेत. कायद्याने जरी हे खरं नसलं तरी सुद्धा माझ्या म्हणण्याचा अर्थ असा की त्यांच्या शाखेच्या विद्यार्थ्यांना अध्यापनाचे काम प्राचार्यांच्यावतीने हे सहकारी उपप्राचार्य करीत आहेत. त्यामुळे कनिष्ठ महाविद्यालयाचे उपप्राचार्य, विज्ञानशाखेचे उपप्राचार्य, कॉमर्सचे उपप्राचार्य, कलाशाखेचे उपप्राचार्य व त्याबरोबर विनाअनुदानित विभागाचे उपप्राचार्य हे सगळे मला मदत करणारे सहकारी आहेत. संस्थेच्या मान्यतेने ही पदे निर्माण झाल्यामुळे उत्तमरीत्या हे काम मी पार पाडत आहे. कोणीही एक ही जबाबदारी पार पाडू शकत नाही. आमचा एक प्रयत्न आहे माझी वैयक्तिक मत आहे की आपण विभागप्रमुखांच्या पातळीवर जशा अधिक जबाबदाऱ्या देऊ तशा बदलत्या काळानुसार इथे प्रशिक्षणाची गरज आहे. प्राचार्यपदावर असणाऱ्या व्यक्तीला सुद्धा

बदलत्या जबाबदाऱ्यांनुसार प्रशिक्षणाची गरज आहे. उपप्राचार्यांना तसेच विभागप्रमुखांनाही आहे. महाविद्यालयाची यापुढची संख्यात्मक प्रगती होण्यासाठी ही एक गोष्ट महत्त्वाची आहे. जबाबदाऱ्यांचे विकेंद्रिकरण करणे, जबाबदाऱ्यांची जाणीव व त्याबद्दल प्रशिक्षण, अशी विभागप्रमुखांच्या पातळीवर अधिक यथार्थता जर आणली तर १००० वरून १०,०००, १२,०००, २०,००० पर्यंतच्या विद्यार्थ्यांना आम्ही उत्तम शिक्षण देऊ शकतो. प्रशासकीय विभागामध्ये सुद्धा विकेंद्रिकरण करण्याची गरज आहे. माझी जबाबदारी पार पाडताना खूपसे याचे श्रेय सकाळी ७.१५ पासून रात्री ८-८.३० पर्यंत उपस्थित असणाऱ्या उपप्राचार्यांना व विभागप्रमुखांना देईन.

**प्रा. चौधरी :** सन २००८ पासून महाविद्यालयाने उत्कृष्ट महाविद्यालय ते आजपर्यंत अनेक पुरस्कार मिळविले याबाबत आपले विचार थोडक्यात मांडावेत.

**प्राचार्य :** संस्थेचे आदरणीय कार्याध्यक्ष प्रा. डॉ. गजानन एकबोटे सर यांनी बेस्ट कॉलेज अवॉर्डसाठी मार्गदर्शन केले. त्यावेळेस काही सहकाऱ्यांना वाटायचं की विद्यापीठ दरवर्षीच बेस्ट कॉलेज अवॉर्ड कोणत्या ना कोणत्या कॉलेजला देत असतं, त्याचं काय एवढं महत्त्व आहे. परंतु काहीना त्याचे खूप महत्त्व होते. सन २००८ मध्ये बेस्ट कॉलेज अवॉर्ड मिळाल्यानंतर २०१० मध्ये जी नॅक पिअर टीम आली त्यांना बंगलोरला नॅक ऑफिसतर्फे सांगण्यात आलं होतं की 'You are going to visit one of the Best Colleges in Pune city.' त्यामुळे मला असं वाटतं, छोटासा

वाटणारा हा बेस्ट कॉलेज अवॉर्ड हा फार मोठा ठरला. कारण नॅकची पिअर टीम एक मनोभूमिका तयार करून आलेली होती की आपण एका चांगल्या महाविद्यालयात जातो आहोत. कदाचित या भावनेतून त्यांनी आपल्या शैक्षणिक व प्रशासकीय गोष्टींकडे पाहिलं आणि निश्चितच त्या भावनेचा उपयोग आपल्याला 'अ' दर्जा मिळण्यात झाला. मला वाटते हे सर्व एकमेकांशी पूरक आहे. बेस्ट कॉलेज अवॉर्ड मिळालं, त्याचा उपयोग नॅकचा 'अ' दर्जा मिळण्यास झाला, नॅकचा 'अ' दर्जा मिळाला. त्यामुळे Potential for excellence CPE हा यू.जी.सी. चा दर्जा मिळाला. त्यानंतर या दर्जामुळे डीबीटीच्या स्टार कॉलेज स्कीमध्ये आपल्या महाविद्यालयाची निवड झाली. असे यश वाढत गेले. या यशाचं बीजारोपण पुणे विद्यापीठाच्या बेस्ट अवॉर्ड सोबत झाले. तसे पाहिले तर १९७० पासून गुणवत्तेचे बीजारोपण करून आपली प्रगती सुरू आहे.



**प्रा. चौधरी :** हे सर्व पुरस्कार मिळाल्यावर आपणाला प्राचार्य म्हणून काय वाटतं ?

**प्राचार्य :** एक प्रोत्साहन मिळतं प्राचार्य म्हणून काम करताना. आपल्याला चिंता वाटणाऱ्याच गोष्टी जास्त घडत असतात. परावृत्त करणाऱ्या गोष्टी घडत असतात. अनेकवेळा आपण बॅकफूटवर जात असतो आणि काही वेळा थोडीशी निराशासुद्धा येत असते. परंतु हे सगळं करत असताना आता निश्चितच आपल्या हातून चांगली गोष्ट घडली, विद्यार्थ्यांची अडचण दूर झाली, शिक्षक, शिक्षकेतरांची अडचण दूर झाली. काहीतरी चांगल्या सुखसोयी निर्माण झाल्या किंवा रिझल्ट वाढला, अवॉर्डस मिळाली. खेळामध्ये विद्यार्थी जिंकले तर त्याच्यातूनच प्राचार्यपदावरच्या व्यक्तीला ऊर्जा मिळत असते. त्यामुळे हे जे पुरस्कार मिळाले त्यामुळे 'Nothing succeed like success' असे म्हणता येईल. त्यातून आत्मविश्वास



वाढला, सांघिक भावना वाढली. जवळ जवळ दरवर्षी कुठले ना कुठले चांगले अॅवॉर्ड महाविद्यालयाला मिळाले, त्याच्यातून मनाला एक आनंद मिळतो, आत्मविश्वास वाढतो. आपल्या कारकिर्दीमध्ये व अर्थातच सगळ्यांच्या मदतीने हे अॅवॉर्ड मिळत असले, तरी प्राचार्यपदावर काम करणारी व्यक्ती सकारात्मक रहावी, त्यांचा आत्मविश्वास टिकून रहावा, त्यांचा आशावाद टिकून रहावा, भविष्यात आपण आणखी चांगले काम करू हे मनात त्यांच्या येण्यासाठी मला वाटतं अशा अॅवॉर्डचा फार मोठा उपयोग होतो. आणि माझ्याबाबतीत सुद्धा माझ्या ऊर्जेचा तो स्रोत आहे.

**प्रा. चौधरी : एकांदरीत शैक्षणिक वातावरण व महाविद्यालयाच्या प्रगतीबाबत थोडक्यात सांगा.**

**प्राचार्य :** महाविद्यालयातील शैक्षणिक वातावरण चांगलं आहे. परंतु समाजामध्ये सध्या जे बदल जाणवत आहेत, कौटुंबिक पातळीवर विद्यार्थ्यांना ते काही जाणवत असतील, तंत्रज्ञानाच्या अतीवापरामुळे काही बदल जाणवत असतील, सामाजिक स्थिती, दहशतवाद, महागाई, अडीअडचणी, ट्रॅफिक, प्रदूषण हे तणाव आपल्या तरुण पिढीवर आहेत. निश्चितच, अशा तणावात असलेली तरुण पिढी महाविद्यालयात हजारोंच्या संख्येने आहे. कुठेतरी असं जाणवतं की हा सुप्त तणाव असलेल्या तरुण वर्गाला शिक्षण देण्याची जी प्रक्रिया आहे ती दिवसेंदिवस आव्हानात्मक होत चालली आहे. शैक्षणिक वातावरण टिकवणे हे आव्हान विद्यार्थीसंख्या वाढल्यामुळेपण वाढत आहे. त्याचबरोबर सामाजिक स्थिती बंदलते आहे. त्यामुळे तणाव वाढत चालले आहेत. ज्यांना या विद्यार्थ्यांना घडवायचे आहे त्या शिक्षक सहकाऱ्यांमध्ये ही जाण आहेच, परंतु पुन्हा पुन्हा त्याची आठवण करून द्यावी लागेल की काय ? ही आपल्यावर फार मोठी जबाबदारी हजारो विद्यार्थी घडविण्याची आहे. शैक्षणिक सेवा देण्याची आहे, समाजाला शैक्षणिकदृष्ट्या घडविण्याची आहे. परंतु आम्ही यात बऱ्यापैकी यशस्वी आहोत आणि शैक्षणिक वातावरण आपण चांगल्याप्रकारे टिकवत आहोत.

**प्रा. चौधरी : महाविद्यालयातील विद्यार्थ्यांची संशोधक प्रवृत्ती वाढविण्यासाठी आपण विशेष व यशस्वी प्रयत्न केलेत त्याबद्दल थोडक्यात सांगा.**

**प्राचार्य :** संशोधनाच्या बाबती मी अशा दृष्टीने सुदैवी आहे की महाविद्यालयात संशोधन करून पीएच.डी. प्राप्त करणारा मी पहिला विद्यार्थी ठरलो, याचा मला आनंद व थोडा अभिमानपण आहे. आमच्या वनस्पतीशास्त्र विभागाला १९८५ मध्ये संशोधन केंद्र म्हणून पुणे विद्यापीठाने मान्यता दिली, पण १९८५ पासून ८६, ८७, ८८ पर्यंत कोणी इथे संशोधन करण्यास धजावत नव्हते, कारण कॉलेजमध्ये कुठे संशोधन होऊ शकतं का अशा नकारात्मक विचारसरणीचे प्राध्यापक होते. परंतु मी ठरविले, मी जर या महाविद्यालयाचा विद्यार्थी आहे, तर मी पीएच.डी. पण येथेच करीन.

ज्या अडचणी येतील त्या मी सोडवून दाखवीन आणि मला त्रास जरी झाला तरी संशोधनाचे एक वातावरण या आमच्या विभागामध्ये तयार करीन. मग निश्चितच याचा नंतर दुसऱ्या विभागांना फायदा होईल. त्यात मी यशस्वी झालो. मी ठरवलं असतं तर विद्यापीठात पीएच.डी. करू शकलो असतो, तिथे अधिक सुविधा होत्या. पण मी विचार केला की आपल्या महाविद्यालयात संशोधनाचं वातावरण आपण निर्माण करू, जो काय त्रास होईल तो आपण सहन करू आणि त्या प्रयोगामध्ये मी यशस्वी झालो. माझी पीएच.डी. खरंतर तीन ते साडेतीन वर्षातच मी मिळविली. त्यानंतर आमच्या विभागाने संशोधनाच्या दिशेने झेप घेतली. कुठेतरी मनात आनंद होतो की सुरुवातीचा त्रास आपण सहन केला, परंतु त्यानंतर यश आपल्याला दिसत आहे. सुमारे १५ ते २० मेजर रीसर्च प्रोजेक्ट महाविद्यालयात झाले. सुमारे १५ ते २० लोक पीएच.डी. झाले, पोस्टडॉक्टरल फेलो झाले. संशोधनाचं हे वारं इतर विभागात पसरत आता आठ संशोधन केंद्रे कार्यरत आहेत. विद्यार्थ्यांमध्ये संशोधनाची वृत्ती वाढावी म्हणून नेहमी माझा असा कटाक्ष आहे की विद्यार्थ्यांना आर्थिक कुचंबणेमुळे संशोधन करता येत नाही असे होऊ नये यासाठी आणि विद्यार्थ्यांमधला संशोधक शोधून टॅलेंट सर्च, टॅलेंट नर्चर साठी धडपड आहे. महाविद्यालयाच्या बजेटमध्ये मागच्या वर्षीपासून आपण आर्थिक तरतूद स्टुडंट रीसर्च साठी केली आहे. एकाही प्राध्यापकाला कॉन्फरन्सला जाऊ नका असे आम्ही कधीच म्हणत नाही व म्हणणारही नाही. महाविद्यालय त्यांच्या पाठीशी आहे आणि आम्ही त्यांना प्रोत्साहन देतो. मला वाटतं संशोधनाचं चांगलं वातावरण आहेच आहे, यापुढे ते कन्सल्टन्सी व पेटंट यांच्याकडे नेण्याचा माझा प्रयत्न आहे.

**प्रा. चौधरी : आपल्या महाविद्यालयात आधुनिक तंत्रज्ञानाचा वापर वाढला आहे, त्याबद्दल थोडक्यात सांगा.**

**प्राचार्य :** तंत्रज्ञानाचा अधिक वापर केल्यास कमी कालावधीमध्ये अधिक माहिती विद्यार्थ्यांना मनोरंजनात्मक पद्धतीने देता येईल अशी माझी भावना आहे. उदाहरणार्थ आपलं पारंपरिक क्लासरूम आणि डिजिटल क्लासरूम. माझ्या लक्षात आलं की डिजिटल क्लासरूममध्ये मनोरंजनात्मक पद्धतीने शिकताना एखादी व्हीडिओ क्लिप अथवा ऑडिओ क्लिप मनोरंजनात्मक पद्धतीने वापरली तर शिक्षण घेतांना आमचा विद्यार्थी ४५-५० मिनिटांत कंटाळणार नाही. या तरुण वर्गाला मनोरंजनात्मक पद्धतीने शिकवावे म्हणून आम्ही डिजिटल क्लासरूम, व्हर्च्युअल क्लासरूम, व्हर्च्युअल लॅबोरेटरी तयार केल्या. ICT चा वापर १५-२० प्रयोगशाळांमध्ये १५-२० क्लासरूममध्ये असून याचा एक आनंद आहे. परंतु भविष्यकाळात तंत्रज्ञान आणि पारंपरिक पद्धतीची शिकविण्याची कला याचा मेळ घालूनच पुढे जावे लागेल असं मला वाटतं.



**प्रा. चौधरी :** विद्यार्थ्यांनी खेळ, कला, विज्ञान क्षेत्रात स्पर्धेच्या मागाने यश मिळवावे यासाठी आपण विशेष प्रयत्न केल्याचे ऐकतो व यशही मिळालं याचं रहस्य काय ?

**प्राचार्य :** मला नेहमी असं वाटतं की एखाद्या व्यक्तीचा सर्वांगीण विकास व्हावा असे आपण म्हणतो म्हणजे विद्यार्थ्यांचा सर्वांगीण विकास, व्यक्तीचा सर्वांगीण विकास याचा अर्थ काय घ्यावा तर त्याचा फिजिकल फिटनेस चांगला पाहिजे, मॅटल फिटनेस चांगला पाहिजे, त्याच्याकडे एखादी कला पाहिजे, त्याला एखादा छंद पाहिजे, तो स्वतः आर्थिकदृष्ट्या कमावणारी व्यक्ती असला पाहिजे वगैरे वगैरे. तो चांगली व्यक्ती असला पाहिजे, चांगला पती असला पाहिजे किंवा चांगला भाऊ असला पाहिजे. याला म्हणतात सर्वांगीण विकास. माझ्या मनात आलं, ज्यावेळी ह्या हजारो विद्यार्थ्यांचा विकास आपल्याला करायचा आहे त्याबरोबरच महाविद्यालयाचा पण सर्वांगीण विकास झाला पाहिजे. तो जर नाही झाला तर विद्यार्थ्यांचा सर्वांगीण विकास कसा होईल ? म्हणजे समजा आम्ही अभ्यासामध्ये विद्यार्थ्यांची खूप तयारी करून घेतली आणि विद्यापीठाच्या गुणवत्ता यादीत मॉडर्नचे खूप विद्यार्थी आले, परंतु खेळामध्ये मॉडर्न मागे पडले, किंवा खेळामध्ये तयारी करून घेतली मग कला क्षेत्रात मागे पडले, तर ते एक चांगलं महाविद्यालय समजलं जाणार नाही. असं माझं मत आहे. एक उत्तम महाविद्यालय म्हणजे जे खेळाडूपण उत्तम घडविते, कलाकार उत्तम घडविते, शास्त्रज्ञही घडविते आणि गुणवत्ता यादीतही विद्यार्थी येतात. मला वाटलं त्यासाठी काही तरी केलं पाहिजे. यात मला लक्षात आलं की कलाक्षेत्र आणि खेळ यांच्यामध्ये कुठे तरी फ्रिडम कमी पडते की काय, शिक्षकांना मोटिव्हेशन कमी पडते का, आर्थिक पाठबळ कमी पडतय का, आणि विशेष प्रशिक्षण कमी पडते का ? हे माझं वैयक्तिक विश्लेषण झाल्यावर मी आमच्या सहकाऱ्यांशी बोललो तर त्यांनाही तो मुद्दा पटला. म्हणून तशी बजेत प्रोव्हिजन वाढवून दिली, फ्रिडम दिला, भरपूर मोटिव्हेशन दिलं. आपल्या सहकाऱ्यांना प्रशिक्षणाला पाठविलं. त्यामुळे कला आणि खेळ या क्षेत्रात आपल्याला यश लाभले.

**प्रा. चौधरी :** कार्यालयीन कामकाज व त्यामध्ये सुसूत्रता आणण्यासाठी आपण केलेल्या प्रयत्नांबद्दल सांगा.

**प्राचार्य :** कार्यालयीन कामकाजाबद्दल साधारणपणे असं सांगता येईल की मला असं जाणवलं कि कार्यालयीन कर्मचाऱ्यांचं जे काम चालू आहे ते आणि महाविद्यालयाचे प्राचार्य व इतर प्रशासन यांच्यामध्ये कुठे तरी अशी एक भिंत आहे की काय. जे कार्यालयात चाललं आहे, आणि प्राचार्य, उपप्राचार्य यांना जे अपेक्षित आहे, याच्यात कुठे तरी संवाद वाढायला पाहिजे. यामध्ये पारदर्शकता असावी म्हणून मी पहिल्यापासून थोडा low profile राहण्याचे ठरविले. आपण प्राचार्यपदाची जबाबदारी घेतली, आपल्याला प्रशासकीय अनुभव कमी आहे आणि त्यावेळी कमीच होता. त्यावेळेस विभागप्रमुख

म्हणून जेमतेम सहा महिने ते एक वर्षाची कारकीर्द, बायोटेकचा समन्वयक म्हणून एक वर्ष कारकीर्द आणि एकदम एवढी मोठी जबाबदारी. आधी मी उपप्राचार्यपण नव्हतो. त्यामुळे मी ठरविलं हे महाविद्यालय नीट चालवायचं असेल तर आपल्याला आधी समजून घेतले पाहिजे. त्यामुळे मी ऑफिसमध्ये ज्युनियर मधला ज्युनियर म्हणजे क्लार्क असला किंवा शिपाई असला किंवा कोणीही असला तर त्याच्याशी संवाद साधण्याचे धोरण मी ठेवले. त्यातून एक पारदर्शकता निर्माण झाली. मग लक्षात आलं की त्यांच्या काही अडचणी आहेत. कोणाकडे स्टेपलर नाही, तर कोणाचा किबोर्ड बिघडला आहे, कोणाकडे रबर बँड्स नाहीत, तर कोणाकडे कागद नाहीत. मी म्हणालो एवढ्या मोठ्या महाविद्यालयात हे बरोबर नाही, ही संधी आहे. त्यांना आपण एक बॉक्स देऊ या की त्यांना आपण एक पर्ण संच देऊ या इथून सुरुवात केली. मला वाटतं कुठे तरी प्राचार्य म्हणून त्यांच्या हृदयात स्थान मिळविले. त्यांच्यापैकी काही सहकाऱ्यांना प्रशिक्षणासाठी पाठविले. त्यातून त्यांच्या हृदयापर्यंत पोहचणे शक्य झाले. मला वाटले आठवड्यातून एकदा ऑफिसनी सगळ्या स्टाफबरोबर बसावं. असा प्रयत्न केला यात बऱ्यापैकी यशस्वी झालो, मीटिंग्ज घेतल्या या पारदर्शकतेचा फायदा आज मी फार मानतो की ऑफिस हा एक कणा असतो. महाविद्यालयाचा, विशेषतः प्राचार्याचा सुद्धा. व्यक्तिशः ऑफिस प्राचार्याबरोबर असेल तर महाविद्यालय चांगलं चालतं आणि मी यशस्वी झालोय ते कार्यालयाशी सुसंवाद असल्याने. मला कुठली अडचण येत नाही.

**प्रा. चौधरी :** शैक्षणिक कार्याबरोबरच, काळाच्या ओघात विद्यार्थ्यांना देण्यात येणाऱ्या सेवासुविधा व त्यांची महाविद्यालयीन जबाबदारी याबद्दल आपले विचार मांडावेत.

**प्राचार्य :** ही फार मोठी गोष्ट आहे. कारण आर्थिक स्तर उंचावत आहे. ज्या गोष्टी पूर्वी घरामध्ये नव्हत्या त्या उदा. पाण्यासाठी फिल्टर, एअर कंडिशनर इतर सुविधा असतील असा विद्यार्थीवर्ग येतोय. ज्यांच्या पालकांची आर्थिक परिस्थिती उंचावत चालली आहे अशा विद्यार्थ्यांच्या अपेक्षाही वाढत आहेत. आज पिण्याचं पाणी जर फिल्टर नसेल, तर चालणार नाही. आम्ही विद्यार्थी असतांना घरात फिल्टर नसल्यामुळे आमची प्रतिकारशक्ती चांगली होती. महाविद्यालयातले साधे नळाचे पाणी पिऊन सुद्धा आरोग्य टिकायचं. आज घरोघरी फिल्टरचं पाणी पिणारा विद्यार्थी महाविद्यालयात जर साध्या नळाचे पाणी प्यायला तर त्याच्या आरोग्याची समस्या उद्भवू शकते. कारण या विद्यार्थ्यांची प्रतिकारशक्ती कमी आहे. त्यामुळे अतिशय आग्रहपूर्वक महाविद्यालयाने फिल्टर असलेल्या कुलरचंच पाणी पिण्यासाठी पुरविले आहे. दुसरे उदाहरण टॉयलेट ब्लॉकची सुविधा. पूर्वी अनेक चाळीत राहणारे, वाड्यात राहणारे, विद्यार्थी यायचे, की यांच्याकडे जी काय सुविधा घरात उपलब्ध होती, त्याच प्रतीची सुविधा महाविद्यालयात अपेक्षित होती. आज



बंगल्यात राहणारा विद्यार्थी किंवा चांगल्या फ्लॅटमध्ये राहणारा विद्यार्थी किंवा स्वच्छ चांगल्या टॉयलेटचा वापर करणारा विद्यार्थी महाविद्यालयातसुद्धा तशाच टॉयलेट ब्लॉकची अपेक्षा करतो. म्हणून आम्ही भरपूर व आवश्यक तेवढा खर्च करून ही सुविधा चांगल्या प्रकारे ठेवली आहे. मला वाटतं की, या सुविधा, कॅम्पस सिव्युरिटी असू द्या, सीसीटीव्हीची योजना असू द्या, दहशतवादाच्या पार्श्वभूमीवर कॅम्पस सेफ्टी हा इश्यू आहे. लायब्ररीच्या काउंटरवरची व्यक्ती, ऑफिसमधील व्यक्ती यांना अनेकवेळा मी समुपदेशन करतो की आपले क्लायंट आहेत, विद्यार्थी हे ग्राहक आहेत हे लक्षात घ्या. चांगली सर्व्हिस दिली तर चांगले क्लायंट आहेत, सर्व्हिस नीट दिली नाही तर ते येणार नाहीत. We are service providers ही एक भावना सगळ्यांमध्ये मी रुजविण्यात यशस्वी झालो.

याचबरोबर विद्यार्थी व महाविद्यालयीन कर्मचारीवर्ग यासाठी Antiragging committee, Disaster Management Committee, Grievance Redressal Cell या समित्या कार्यरत आहेत.

**प्रा. चौधरी :** प्राध्यापकांचा विविध समित्यांद्वारे अॅडमिनीस्ट्रेशनमध्ये असणारा सहभाग व त्यामध्ये आपल्या अपेक्षा काय आहेत?

**प्राचार्य :** मला वाटतं प्रशासकीय समिती ही संकल्पना खूप चांगली आहे. दरवर्षी काही कमिट्या आपण वाढवत चाललो आहोत. काही वेळा आपल्याला वाटते की 'इंडस्ट्री अॅकेडॅमिया कोलॅबोरेशन कमिटी' पाहिजे, तशा कमिट्या निर्माण केल्या. तसेच रिसर्च मॉनिटरिंग कमिटी निर्माण केली. आता हि एक चांगली यंत्रणा आहे. कारण ऑफिस स्टाफ हा ऑफिसच्या कामात असतो. त्यांच्यामार्फत आपल्याला खूप काही करण्याची योजना यशस्वी होत नाही. शिक्षकसुद्धा खरे तर शैक्षणिक कामात व्यग्र असतो. परंतु मला असं वाटतं यू.जी.सी. ने अपेक्षा केल्यामुळे, किंवा प्राध्यापकांच्या ए.पी.आय. स्कोअरमध्ये या गोष्टी येणार आहेत म्हणूनच ही एक चांगली यंत्रणा आहे. परंतु त्याचं मॉनिटरिंग चांगल्यारीतीने केलं तर अधिक कार्यक्षमपणे या कमिटीची कामं होतील. पुढील वर्षी याबाबत मॉनिटरिंगच्या दृष्टीने अनेक सभा घेऊन त्या कमिट्यांच्या कामाचे नियोजन केले जाणार आहे.

**प्रा. चौधरी :** आपल्या महाविद्यालयाच्या प्रगतीनुसार यावर्षी आपल्या महाविद्यालयास पाच पुरस्कार मिळाले. एन.एस.एस.चे सिनिअरचे दोन व ज्युनिअरचे दोन. आपणास पुणे विद्यापीठाचा 'उत्कृष्ट प्राचार्य पुरस्कार' प्राप्त झाला. याचा पुढचा टप्पा म्हणजे महाविद्यालयीन स्वायत्तता, याबाबत आपले मत काय आहे ?

**प्राचार्य :** स्वायत्ततेबद्दल मी अधिकाधिक माहिती मिळविण्याच्या प्रयत्नात आहे. आता असं दिसतंय संस्थांच्या पातळीवर स्वायत्तता

ध्यावी असे धोरण दिसून येत आहे. आता संस्था हा एक घटक झाला महाविद्यालयाचा, दुसरे घटक शिक्षक, तिसरे घटक शिक्षकेतर. शिक्षक व शिक्षकेतर सहकाऱ्यांमध्ये स्वायत्तता घेण्याचा उत्साह असल्याचे दिसत नाही. त्याचा मी अभ्यास करतो कि काय कारण असावं साधारणपणे ऐकीव माहितीप्रमाणे "आपली वेतनाची अनुदाने बंद होतील की काय, भविष्यात शिक्षक नेमणुका होणार का, निवृत्त झालेल्या जागा भरणार का, मोठं आव्हान स्वीकारावं लागेल की काय, आपले काम वाढेल की काय, विद्यार्थी संख्या कमी होईल, कार्यभार कमी होईल का वाढेल, शिकविणे अवघड होईल का", अशा प्रकारची भीती व्यक्त केली जात आहे. त्याचा अभ्यास सुरू आहे. स्वायत्तता सरसकट घेण्याची जी प्रक्रिया आहे ती थोडीशी काळजीची वाटते. उदा. एखादा विभाग ४४ वर्षे कार्यरत आहे. तो स्वायत्त झाला आणि एखादा विभाग मागच्या वर्षी सुरू झाला आहे, तो स्वायत्त झाला. तर या दोघांची हे आव्हान स्वीकरण्याची क्षमता वेगवेगळी असणार आहे असे माझे वैयक्तिक मत आहे. सरसकट स्वायत्तता अडचण निर्माण करेल की काय. परंतु काळाच्या ओघामध्ये ब्रँड निर्माण करण्याला पर्याय नाही, गुणवत्ता वाढविण्यास पर्याय नाही, आणि जर गुणवत्ता वाढवली असेल, उत्तमरीत्या आपण शैक्षणिक सेवा देत असू तर मला वाटतं स्वायत्ततेला धाबरण्याचं काही कारण नाही.

**प्रा. चौधरी :** आता आपले महाविद्यालय पुढच्या वर्षी नॅकच्या तिसऱ्या मूल्यांकनास सामोरे जाणार आहे. त्यानिमित्ताने आपल्या भविष्यकालीन योजना काय आहेत ?

**प्राचार्य :** निश्चितच तिसऱ्या मूल्यांकनाची (Third cycle of accreditation) ही एक उपयुक्तता आहे. आपण दोन वेळा याला सामोरे गेलो असून, तिसऱ्यांदा सामोरे जात आहोत. म्हणजे आमच्या महाविद्यालयास आहे याचा आनंद आहे, समाधान आहे. पुन्हा एकदा सांघिक भावनेने काम करण्याची, अधिक चांगल्यारीतीने काम करण्याची संधी आहे असा माझा सकारात्मक विचार आहे. कारण कुठलेही आव्हानात्मक काम समोर आलं की आपल्या ज्या क्षमता असतात त्या अधिक विकसित होत असतात. आपल्या नेहमीच्या रुटीन कामामध्ये या क्षमता सुप्तावस्थेत जातात व पुन्हा एकदा आव्हान आहे व त्या आव्हानासमोर आपल्या सहकाऱ्यांमधील या क्षमता जागृत करण्यासाठी संघटनात्मक भावना वाढविण्याची ही संधी आहे. निश्चितच दोन वेळेचे अनुभव पाठीशी असल्यामुळे यावेळेचा आमचा नॅकचा अहवाल अधिक चांगला असेल. मागच्या वेळेस मॉक व्हिजिटला वेळ कमी पडला होता, इतर ठिकाणांवरून माहिती मिळविण्यास वेळ कमी पडला. यावेळेस मी ठरवलेय आता अधिकांत अधिक वेळ देऊन इतर विशेष महाविद्यालयांना जसे मुंबई येथील रुईया कॉलेज येथे जाऊन माहिती घेऊन येणे, काही संस्थांचे मार्गदर्शन घेणे, ज्येष्ठ सहकाऱ्यांचे मार्गदर्शन घेणे



असे ठरविले आहे. याबरोबरच सर्व रीसर्च पेपर्स एकत्र करणे व त्याचे प्रकाशन करणे योजले आहे. भविष्यकालीन योजना म्हाणाल तर आपल्याला २०१५ मध्ये 'मिशन ३.५+' असंच नॅकद्वारा मूल्यांकन CGPA स्कोअर 'अ' दर्जाचं मिळवायचं आहे. तर त्यापुढे २०१६ मध्ये आपणास यूजीसीच्या college with excellence CE या अतिशय महत्वाच्या दर्जास पात्र ठरायचे आहे. तसेच सन २०२० मध्ये आपले महाविद्यालय स्थापन होऊन ५० वर्षे पूर्ण होत आहेत. त्यामुळे जून २०१४ ते २०२० पर्यंतचा भविष्यकालीन अहवाल vision document तयार करण्याचे काम आयोजिले आहे. यानंतर नॅकचा 'अ' दर्जा व यूजीसीचा हा CE दर्जा या भविष्यकालीन मुख्य योजनांबरोबरच globalization चा अधिक विचार करून international collaboration व international accreditation करावे असे वाटते.

**प्रा. चौधरी : सर, यानिमित्ताने विद्यार्थी, पालक व प्राध्यापक या सर्वांसाठी एखादा संदेश देण्याची विनंती करतो.**

**प्राचार्य :** माझा एक संदेश असा राहील, तो म्हणजे महाविद्यालय अनेक घटकांमुळे चालत असते. त्यामध्ये २०% विद्यार्थीवर्गाचा, शिक्षकांचा २० टक्के, शिक्षकेतरांचा २० टक्के, विद्यार्थ्यांचा-पालकांचा २० टक्के व माजी विद्यार्थ्यांचा २० टक्के वाटा आहे. या पाच घटकांच्या एकत्रितपणामुळे महाविद्यालय चालते. माझं एकच आवाहन आहे की महाविद्यालयातील शैक्षणिक वातावरण टिकविणे यासाठी या पाचही घटकांनी सहकार्य करणे खूप गरजेचे आहे. विशेषतः शिक्षक सहकाऱ्यांना मला सांगता येईल की आपल्यासमोरील आव्हाने वाढत चालली आहेत. आपण फक्त शिकविणे, परीक्षा घेणे, रिझल्ट तयार करणे एवढेच काम अपेक्षित नसून, आपला विद्यार्थी तंत्रज्ञानाच्या अतिरिक्त वापरास कसा सामोरा जातो, कौटुंबिक पातळीवरच्या तणावांना कसा सामोरा जातो याचा विचार करावा. शिक्षकांनी समुपदेशक (counsellor) म्हणून भूमिका पार पाडणे अतिशय आवश्यक आहे. विद्यार्थ्यांसाठी माझे आवाहन राहील की या बदलत्या काळात आपली जी पारंपरिक मूल्ये आहेत त्याचा पुन्हा आढावा घ्या, आईवडील यांचा आदर का करावा, गुरुंचा आदर का करावा, विद्यार्थ्यांनी नम्र का असावे, वगैरे वगैरे. ह्या तंत्रज्ञानाच्या युगात विद्यार्थ्यांनी जीवनमूल्यांची कास धरली तरच ते चांगल्याप्रकारे घडतील असे मला वाटते. शिक्षक व शिक्षकेतर सहकारी यांना मी असे सुचवू इच्छितो की बदलत्या काळात आपल्याला प्रशिक्षणाची गरज आहे, आपले कौशल्य वाढविण्याची गरज आहे. आपण स्वतः पुढे येऊन महाविद्यालयाला सूचना करून, महाविद्यालयाकडून उपक्रम आयोजित करून आपले कौशल्य वाढवून घ्यावे. यात कार्यालयीन कर्मचारी, शिक्षक व शिक्षकेतर कर्मचारी यांनी आपल्यातल्या क्षमता व कौशल्य विकसित केले तर विद्यार्थ्यांसाठी या बाबी सहज योजता येतील. दुसरा एक दोषारोप केला जातो की

पारंपरिक महाविद्यालये म्हणजे ग्रॅज्युएट तयार करण्याचे कारखाने झालेत आणि ते असे ग्रॅज्युएट तयार करतात की ज्यांना नोकरी मिळत नाही, बेरोजगार आहेत ही एक प्रकारची टोचणी आहे. यात आपण काही करू शकतो का ? निश्चित करू शकतो. माझं विश्लेषण असं आहे या विद्यार्थ्यांची तीन कौशल्ये आपण वाढवू या. त्यांना चांगल्या इंग्रजीतून संभाषण (communication skill) करता येणे, संगणक साक्षरता आणि तिसरा म्हणजे त्यांचा व्यक्तिमत्त्व विकास. बदलत्या काळातले जे शिष्टाचार (etiquette) आहेत ते विद्यार्थ्यांनी शिकले पाहिजे. या तीन गोष्टी जर आपण पदवी घेणाऱ्या विद्यार्थ्यांना आत्मसात करायला लावल्या तर त्यांना नक्कीच नोकरी, व्यवसाय करण्यास भरपूर वाव मिळेल.

पुन्हा एकदा आपली प्राचार्यपदाची यशस्वी पाच वर्षे पूर्ण केल्याबद्दल अभिनंदन आणि मला नक्कीच खाली वाटते की आपला यापुढील प्राचार्यपदाचा काळ यशस्वी होणार आहे, दैदिप्यमान होणार आहे, आपल्या सर्व भविष्यकालीन योजना सफल होवोत, त्यासाठी हार्दिक शुभेच्छा धन्यवाद !

## Heartiest Congratulations !

The Business Council, Board of Life Workers and Board of Life Members, of Progressive Education Society, are elected un-opposed, for the third time, under the able Guidance and Leadership of Honourable Prof. Dr. G. R. Ekbote.

Hearty Congratulations and Best Wishes to Honourable Prof Dr. G. R. Ekbote and all the members of Business Council, Board of Life Members and Board of Life Workers, of Progressive Education Society.



# **International Conference on Environment Conservation by Adopting New Technologies ICECANT - 2014 A Report - 28th - 29th January 2014**



Progressive Education Society's Modern College of Arts, Science and Commerce, Shivajinagar organized a two-day 'International Conference on Environment Conservation by Adopting New Technologies' in its auditorium on 28th - 29th January 2014, under the guidance and encouragement of Dr. Gajanan Ekbote, chairman, Progressive Education Society.

Modern College of Arts, Science and Commerce, Shivajinagar took this herculean task of creating awareness among the youth and appealing to them formally to take initiative in conservation of our depleting environment. This conference has been a platform to introduce the students and faculties to scientists and entrepreneurs who have dedicated their work for preserving our ecosystems.

The inaugural function commenced in the presence of honorable Dr. Gajanan Ekbote, President of inaugural function, Dr. Rajendra Zunjarrao, Convener of the conference and principal of Modern College of Arts, Science and Commerce, Shivajinagar, Pune- 5. Mrs. Jyotsana Ekbote, Chairperson, Local Managing Committee (Junior College), Dr. A.K. Pande, Chairman, Local Managing Committee (Senior College), Professor Shamkant Deshmukh, Secretary of Progressive Education Society, Dr. A.D. Karve, Director ARTI, Pune, Mr. Scott Wrighton, City Manager, Lavasa Corporation, Mr. Keith Zendler, Founder and CEO, Cspace Inc, General Manager, NABARD and Dr. Neeta Patil, Organizing Secretary. The programme began with Saraswati Vandana.

At the inaugural function Dr. R.S. Zunjarrao expressed his views about the conference. He emphasized the need for conservation of our degenerating environment as a primary objective. He also mentioned that nurturing our environment should be considered as our civic duty.

## **Felicitation program**

Following the speech, Dr. R.S. Zunjarrao felicitated Dr. Gajanan Ekbote. Dr. Neeta Patil, organizing secretary felicitated Professor Jyotsana Ekbote, chairperson, local managing committee (Junior College). Dr. Gajanan Ekbote welcomed Professor A. D. Karve, Mr. Scott Wrighton and Mr. Keith Zendler with a token of appreciation. Dr. Rajendra Zunjarrao extended a warm welcome to, General Manager, NABARD.

Dr. Neeta Patil felicitated Professor Shamkant Deshmukh, Secretary of Progressive Education Society and Vice - Principal of Modern College of Arts, Science and Commerce, Shivajinagar, Pune - 5.

## **Inaugural Function**

The unveiling of the conference proceedings in form of a journal called 'Environment Observer' was done at the hands of Dr. Gajanan Ekbote. The function was then presided over by Dr. Gajanan Ekbote.



Dr. Gajanan Ekbote declared the conference to be inaugurated and the journal to be released. He congratulated Dr. Zunjarrao for being awarded the Best Principal by University of Pune. As a surgeon he stressed on the abuse of microenvironment in human bodies by extensive use of antibiotics and how this disturbs the natural micro flora present in the human body. Reestablishment of this microenvironment is essential for good health and curbing of rising incidences of diseases.

He advised on conservation of environment for improving quality and longevity of human life. He addressed the audience on a serious note to take efforts to preserve the sanctity of environment. At the end of inaugural function, organizing secretary Dr. Neeta Patil delivered the vote of thanks. The anchoring of inauguration function was done by Asst. Prof. Rupali Sawant from department of Microbiology.

**Keynote Speaker: Dr. A. D. Karve on 'Manage agriculture sustainably'**

When people talk of environment, they generally talk of what government agencies, such as the Ministry of Forests and Environment, or the municipality of their city should do. The need today is for everyone to practice his own profession and business in an environment-friendly and sustainable manner. Being an expert in agriculture, Dr. A. D. Karve gave examples of how one can practice agriculture in an environment-friendly and sustainable manner.

The chemical fertilizer industry consumes more energy than any other industry, using fossil fuels as the source energy. There are enough minerals in the soil to allow agriculture without chemical fertilizers, but these minerals are not available to plants. It has now been discovered, how to make soil minerals available to plants, so that one can practice agriculture without chemical fertilizers. It is quite possible to control insect pests by using herbal pesticides, which are highly biodegradable. Knowledge of insect physiology has also resulted in the development of eco-friendly insect control. We now know much more about the effect of light on plants, and how light can be used more efficiently. Plants produce carbon dioxide in the night, which dissipates into the atmosphere, adding to the carbon load of the atmosphere. But, with very simple means, this carbon dioxide can be trapped and re-used for photosynthesis. Water is an essential input of agriculture. Methods of in situ water conservation and its rational use are also available.

By using these methods judiciously, it is quite possible to practice agriculture in an environment-friendly and sustainable manner. They would also save the farmer a lot of money.

Keynote address was followed by lecture by Mr Scott Wrighton, CEO Lavasa city. He discussed the solutions to rapid urbanization in developing India. He suggested different strategies for this issue. Mr Wrighton spoke about green cities for sustainability. He described Lavasa city structure.

The Plenary lecture was given by Mr Keith Zendler. He talked about transformation through technology. He informed about Cspace -a website for connecting organizations.

At the end, vote of thanks was proposed by Dr Neeta Patil, Organizing Secretary.

**Session I: 28/01/2014**

Dr. Ram Chandra, Dean and Head, Environmental Microbiology, School for Environmental Sciences, Babasaheb Bhimrao Ambedkar University, Lucknow was the first speaker in the post-lunch session.

His area of research is bioremediation and he has performed exemplary work in this field with many international publications to his credit.

He delivered a talk on detoxification of melanoidins from Post Methanated Distillery effluent using bacterial enzyme. This novel work was embarked upon realizing that



chemical treatment of distillery effluent did not completely dispensed toxic compounds which were further discharged into water bodies.

Dr. Chandra expressed grave concern as to the use of such polluted water for farm irrigation which adversely affected soil fertility and crop yield of Indian mustard and wheat. To address this issue he employed bacteria which could produce Manganese peroxidase which was essentially responsible for detoxification.

In his talk, he presented results which confirm the active participation of enzyme producing bacteria in the bioremediation process using advanced technologies like LC/ESI/MS/ and HPLC for his study.

The innovative technology is meritorious as it involves biological methods, complete detoxification and is ecofriendly. He also emphasized use of wet land plants as enhancers for distillery effluent decolorisation and biotransformation.

He concluded his talk by acknowledging CSIR, DBT, and Ministry of Environment and Forest. In a nutshell, Dr. Ram Chandra evoked a sense of responsibility among students for conservation of environment.

The second invited talk was by Mrs. Suchismita Pai, Protoprint Solutions, Pune. She has experience in communications and journalism. The founder of Protoprint Solutions is Mr. Siddhant Pai on whose behalf she delivered the lecture.

Mrs. Pai, a vibrant personality passionately talked about how their company has adopted a new technology for conservation of environment. Their work encompasses making usable products from plastic waste which has been known to be a menace in urban cities. Plastics are recalcitrant in nature and are not biodegradable making them a surging pollutant.

Protoprint Solutions are all about low cost 3D printing using discarded plastics. They have collaborated with local organizations like SWACH for collection of plastics (HDPE or type 2). These are then recycled and converted to low cost 3D filaments.

These recycled plastics can be employed for various purposes like making scientific or engineering models, making toys and household décor.

#### **Session II- Poster Session**

The session was followed by a **Poster session**. In all 32 posters were displayed and there were six exhibition stalls. The posters were judged by subject experts.

#### **Session III**

The session began with a talk by Mr. Manish Kharwade, General Manager, Praj Industries, Pune, on the topic "Zero Liquid Discharge". The speaker introduced the topic with a very audience-friendly compilation. Mr. Manish Kharwade explained various steps involved in waste water management from pre - treatment to tertiary producer to get reusable water. Praj industries has contributed to innovate process of evaporation technology to remove soluble ingredients.

He concluded his presentation with emphasis on the process of color removal of effluents.

The next talk was by Mr. Anuj Nigam, Director Startling Solar Pvt. Ltd. Mumbai.

He explained the importance of solar energy as a non - conventional energy source and the use of this type of energy to obtain electricity. This strategy is of great benefit to a tropical country like India. He explained various applications of solar energy for household, industrial and other utilities like ATM etc. Startling Solar Pvt. Ltd. has successfully demonstrated the use of solar energy for generation of electricity for household, agricultural and industrial purposes.

Professor S.S. Deshmukh felicitated the speakers. Dr. Mrs. Neeta Patil coordinated this session.



#### Session IV

In this session, Mr. Harshal Gunjal spoke on Environmental Conservation by adopting new technology with reference to decentralized waste treatment in urban sector and discussed innovative technologies on reutilization of treated water.

Dr. Nutan Khalap spoke on technology dissemination for environment conservation. She spoke on (Nisargarun) biogas technology developed at BARC. The technology is based on treatment of segregated waste in aerobic and anaerobic process to yield biogas and weed free manure.

Dr. Nilima Rajurkar, Professor, Department of Chemistry, University of Pune, Pune, India spoke on 'Novel adsorbents for removal and recovery of metal ions from waste water samples'

This presentation gave an overview of various methods used for waste water treatment. An effective method for removal of chromium, nickel and copper ions from industrial waste water samples using various adsorbents, developed in our laboratory, was discussed at length. The adsorption mechanism and kinetics for process of adsorption as well as recovery of metal ions after adsorption was also discussed in brief.

#### Session V

In the session, Dr. Anand Karve, Director Samuchit Emission Technology, explained the technique to convert wet garbage into biogas.

The second talk by Dr. Ramesh Bhonde, Dean, Manipal Institute of Medicine, Bangalore, India was on 'Save Animals by Preserving Environment by employing in vitro model for biomedical research where he talked about effective use of stem cells. Several validated in vitro models are now available for screening compounds and assessment of their toxicity which have been found to be suitable as an alternative to animal studies. In vitro models based on embryonic stem cells (ESC) are highly promising for improvement of predictive toxicology screening in humans. The isolated Islets of Langerhans from rodent pancreas or generated from human stem cells can form a wonderful model for screening hypoglycemic agents. Such approach will help in following 3 'R' principle of Reduction, Replacement and Refinement of animal experimentation thus conserving animal life

**Session VI -Success stories :** Three guest speakers were called and requested to share their success stories.

Mr. Kaustubh Yadre past student of Botany department of Modern College, Proprietor, Myco - Compost, Pune on using knowledge of basic science to entrepreneurship.

He shared his valuable thinking in establishing new entrepreneurship. He strongly recommended the students to go for the basic science studies. He emphasized on various things one should develop to become a good entrepreneur like having good observation skill, furnishing basic skill, decision making skill, focusing on specialization, etc. One can achieve all these things simply by doing industrial training. Along with these things other aspects like personal will, scope of the subject, basic study of market, infrastructure and finance are also important which one cannot overlook. Finally he concluded his talk by sharing the main reasons contribute for his success.

Mr. Prabodh Hamelton, Director Germ - Busters Ltd. Mumbai spoke on useful topic of non - toxic approach to clean environment. Mr. Prabodh Hamilton briefly explained what his company is all about. He showed the different microorganisms which are commonly found in our atmosphere and the sites where they are likely to be found out. He explained the three methods by which they minimize the load these organisms. These methods are I] Vacuuming, II] UV sterilization and III] Steam vaporization.



Dr. Akshaya Apate - Manerikar of Poornam Ecovision explained the use of old fabrics into different products. Dr. Manarikar shared her valuable experience while working in Poornam Ecovision. It is a holistic solution to the environmental problem. It brings a positive impact in the field of environment conservation for sustainable development. She showed various images of products which were produced from old clothes, glass, E - Waste, papers, plastic, metals. These objects were kept in Planet - R. She told students about the way to achieve dreams.

### **Panel Discussion**

The Panel Discussion was the last session of ICECANT 2014 before the Valedictory Function. The session was co - ordinated by Dr. Mrs. Shubhangi Puranik.

On the dias esteemed scholars, Dr. R.S. Zunjarrao, Dr. Anand Karve, Dr. Kharat, Mr. Keith Zendler, Mr. P. Hamilton and Dr. Sandeep Joshi were present.

Dr. Puranik placed the questions from the audience, mainly consisting of students, before the experts and they answered them patiently and in detail. Dr. Zunjarrao, Dr. Karve, Dr. Joshi and Mr. Hamilton shared excellent information and provided real functional examples. Relevant to the topic of the conference, Dr. Zunjarrao, stated that small efforts must be taken by us and they are being taken at MCASC. Dr. Zunjarrao also mentionjed that a lot of research is still required in developing and implementing new technologies.

Dr. A. D. Karve stated the need of implementation of new laws that will help in environment conservation.

Dr. Sandeep Joshi stressed on the need for the society to take responsibility for the environment and its conservation. He also made known to the audience the various methods available and affordable, to the common man to preserve and protect the environment.

Dr. Kharat and Mr. P. Hamilton provided deep insight into the actual functioning of any organization working for environment restoration.

Mr. Zendler emphasized the need to connect with people and create awareness. He stressed the fact that a wide connection will bring better results. He ended with wise adage - It's not 'what' you know, it's 'who' you know.

The session concluded with Dr. Zunjarrao and Dr. Kharat narrating inspiring success stories of students of MCASC in conserving and restoring the environment.

Dr. A.K. Pande, Chairman, Local Managing Committee (LMC Senior College) and Dr. S.Y. Paranjape, Emeritus Scientist. were also present.

In conclusion 'International Conference on Environment Conservation by Adopting New Technologies' was a very successful conference because of overwhelming participation of students and delegates

An overview of the two-day event was presented by Dr Neeta Patil, Organizing Secretary .

### **Valedictory Function**

The two-day 'International Conference on Environment Conservation by Adopting New Technologies' concluded with valedictory function in presence of Guest Dr AD Karve and Dr Vijay Khare, Director, International Student Center (ISC), University of Pune-7, Dr A K Pande, Dr. R. S. Zunjarrao, Dr. S. S. Kharat.

**Dr. Neeta Patil**  
Organizing Secretary

**Dr. R. S. Zunjarrao**  
Convener



## WE THE STAFF



Office Bearers



Administrative  
Staff



Arts Faculty



Science  
Faculty



## WE THE STAFF



Science  
Faculty



Science  
Faculty



Commerce  
Faculty



Commerce  
Faculty



## WE THE STAFF



Junior College



Junior College



Library &  
Gymkhana



Teaching  
and  
Non  
Teaching Staff



## WE THE STAFF



**Non Teaching  
Staff**

**Parents-  
Teachers'  
Association  
Junior College**



**Modern College  
Pune-5  
Staff (Women)  
Winner team  
Dodgeball and  
Throwball  
at PES Kanitkar  
Sports Festival.**

**Modern College  
Pune-5  
Staff (Men)  
Winner team  
Cricket  
at PES Kanitkar  
Sports Festival.**





## We are Proud of You Glorious Moments of Kanitkar Day

Felicitatation of Prof.Sanjeevani Rahane  
on 'Kanitkar Day'  
**BEST Teacher Award** (Senior College)  
at the hands of Dr. H. V. Sardesai  
in presence of Shri Prataprao Pawar  
and dignitaries of P.E.Society.



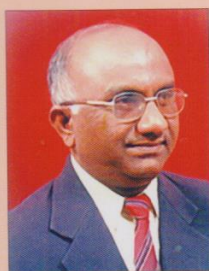
Felicitatation of Prof.Leena Patankar  
on 'Kanitkar Day'  
**BEST Teacher Award** (Junior College)  
at the hands of Dr. H. V. Sardesai  
in presence of Shri Prataprao Pawar  
and dignitaries of P.E.Society.

Felicitatation of Mr.Tanaji Jadhav  
on 'Kanitkar Day'  
**BEST Non-Teaching Staff Award**  
at the hand s of Shri. Prataprao Pawar  
in presence of Dr. H. V. Sardesai  
and dignitaries of P.E.Society.





## Congratulations



**Dr. A. V. Kamble**  
Re-appointed as  
Member - Audit Committee  
University of Pune



**Prof. Vijay Gaikwad**  
Awarded Ph.D.  
PGRC - Commerce



**Mr. Virendra Tatake**  
Awarded Ph.D.  
PGRC - Commerce



**Mr. Y. R. Thorat**  
Awarded Ph.D.  
PGRC - Commerce



**Deepali Gaikwad**  
ICSR



**Akash Zambare**  
ICSR



**Samruddhi Zende**  
UR



**Shesha Joshi**  
Std. XII  
**Best Student**  
Junior College



**Mrunalini Chaturvedi**  
S.Y.B.Com.  
**Best Student**  
Senior College



**PO. CDT. Rahul Kengare**  
T.Y. Agri-Biotech  
Best Cadet Navel Wing



**CDT. Priyanka Hiwle**  
Silver Medal in Firing  
and Health and Hygiene



**L. CDT. Pallavi Bhosale**  
T.Y. Agri-Biotech  
Silver Medal in Boat Pulling  
Bronze Medal in Drill



**CDT. Vaishnavi Pandkar**  
Silver Medal in  
Ship Modelling



**SUO Sanskruti Khairnar**  
S.Y.B.A.  
Gold Medal in  
Health and Hygiene  
Silver Medal in Volleyball  
Gold Medal of MAH. NCC



**SUO Sonal Pawar**  
S.Y.B.Sc. Silver Medal in JD and FS  
Gold Medal of MAH. NCC



**SUO Bela Deshpande**  
S.Y.B.A.  
Participated in RDC, New Delhi



**SUO Keshav Turkunde**  
F.Y.B.A.  
Gold Medal of MAH. NCC



## NCC



Lt. Col. Prashant Waghmare (inset) - Motivational Talk for students to join NCC.



'Tree Plantation' activity at Modern College of Agriculture Biotechnology, Kule-Dakhane, Paud.



Principal visits NCC Exhibition.



An experience on the ship - INS Virat



Anti Drug Rally



ANO Lt. A. V. Kamble and cadets felicitated by Hon'ble MP. Mrs. Supriyata Sule for 'Shasan aplya daari'.



## NSS – Senior and Junior



Awareness rally about e-waste



Women empowerment



Awareness about Voting



Drishti – Sparsha Jnana Abhiyan



Hands at work (Junior)



Rice plantation (Junior)



## National Conference on Environment and Biodiversity of India



National Conference on 'Environment and Biodiversity of India' (EBI-2013) was organized by North East Centre for Environmental Education and Research (NECEER), Imphal in association with P.E.Society's Modern College of Arts, Science and Commerce, Shivajinagar, Pune, Maharashtra and Manipur Students' Association Pune on 6<sup>th</sup> October 2013.

A day before the conference 'Save Loktak Lake Campaign' was conducted in the college Assembly Hall.

260 participants from all over the country participated and 151 Research papers were presented in this conference. The research papers were presented orally and by Poster presentation. The FOCAL THEMES of the conference were Floristic and faunal studies, Biodiversity Hotspots, Wetlands & Sacred Groves, Ethnobiology and Traditional Knowledge, Wildlife Protected Areas Forest management, Modern trends in Plant & Animal taxonomy, Freshwater & marine ecosystem, Climate Change, Environmental Pollution, E-waste and Solid waste management and also Environmental laws & policies.

Dr. Khuraijam Jibankumar Singh, Founder and Managing Trustee, North East Centre for Environmental Education and Research, Imphal, Manipur and Dr. H.N. Singh, Indian Institute of Tropical Meteorology, Pune took the responsibility to conduct this National Conference in Modern College, Pune under the guidance of Prof. Dr. G.R. Ekbote, Chairman, Progressive Education Society, Pune. Prof. Mrs. J.G. Ekbote, Chairperson LMC, Principal Dr. R.S. Zunjarrao, NSS officers Prof. P. S. Varade, Prof. Nisha Bhandare, Dr. S.K. Ujalambkar, Dr. Neeta Patil and Dr. Rebecca S. Thombre were the members of organizing committee from our college. Prof. Sangeeta Sarma, Dept. of English took efforts to coordinate the organization of the conference.

Dr. Bharat Bhushan, Professor, Environmental Planning, Dean (Academic) and Secretary, YASHADA was the chief guest for the National Conference. Dr. A.K. Pande, Chairman LMC, Modern College, Prof. S.R. Chaudhari Vice Principal, Dr. Khuraijam Jibankumar Singh, Dr. H.N. Singh were present at the inaugural function.

Dr. Khuraijam Jibankumar Singh expressed his views about the conference and regarding 'Save Loktak Lake Campaign' for conservation of the lake. The campaign is to create awareness about the conservation of Loktak Lake, the largest fresh water lake in Northeast India. The lake was recognized as Ramsar site in 1990. Kelbul Lamijao, the only floating national park in the world is situated at the south west part of the lake. It is home to the endangered Manipur brow antlered deer 'Sangal' - *Cervus eldi eldi* and many endangered species. The lake is a Bird Area identified by BNHS, Mumbai and Birdlife International. He appealed to the audience to help this campaign. Dr. H.N. Singh elaborated theme of the conference and regarding sessions of the conference. The



ABTRACT book of the conference was released at the hands of Dr. Bharat Bhushan , chief gust of the function. Dr. A.K. Pande welcomed all the guest and delegates to the conference . He expressed his thoughts on Biodiversity . He elaborated importance of environmental conservation and its necessity in our day to day life. He also told about the social work carried out by Progressive Education Society and Modern College of Agribiotech at Paud. Prof. S.R.Chaudhari also welcomed the delegates and spoke about college infrastructure and progress of the college. The college has been organizing State level , National level and International level conferences every year. Hence it supported this National Conference on Environment and Biodiversity of India (EBI-2013) by providing campus amenities under guidance of Prof. Dr. G.R. Ekbote and Principal Dr. R.S. Zunjarrao.

Dr. Bharat Bhushan, Chief Guest , emphasized on Biodiversity and environmental conservation with certain data from all over India. He congratulated organizers for organization of such type of important National Conference . He made an appeal to the delegates to involve actively in research work regarding various aspects of Biodiversity and Environmental Conservation.

After inaugural function , lead lecture on 'Physiographic Rainfall Variation across India and its imp[act on Environmental Process' was delivered by Dr.H.K.Sing, followed by another lead lecture on ' Late Pleistocene vegetation and climate changes inferred from a pollen record of Eastern Himalayan foothills: A part of Indo-Burma ranges' by Swati Tripathi , and lecture on ' Projected Changes in the Water Balance Components over Major River Basins of India' by Dr. N.R. Deshpande , Indian Institute of Tropical Meteorology , Pune.

After lunch break the conference continued with Oral presentation at three places and Poster Presentation in the Assembly Hall. Best paper as well as best poster presentation awards were judged during this presentation. First EBI Online Nature Photography Contest 2013 was also conducted during registration period of the conference. Winners were awarded prizes at the concluding session of the conference.

Dr. Neeta M. Patil, Dr. Shubhangi Puranik, Dr. Rebecca Thombre, Prof. Anjali Sardesai managed the concluding session. Prof. Umesh Kothawade and Shri Yogesh Kothawade along with M.Sc. Computer Science student volunteers provided technical support successfully. North East Centre for Environmental Education and Research (NECEER), Imphal Maharashtra and Manipur Students' Association Pune (MSAP) expressed their gratitude for conducting this conference in Modern College, Shivajinagar Campus.

**Prof. S. R. Chaudhari**  
VicePrincipal



# National Conference on Hazardous e-waste Management

23<sup>rd</sup> and 24<sup>th</sup> December 2013



National conference on Hazardous E-waste Management was held on 23<sup>rd</sup> and 24<sup>th</sup> December 2013. This conference was organised by Modern College of Arts, Science and Commerce, Shivajinagar, Pune-411005(Maharashtra) in association with Department of Electronic Science, University of Pune, Ganeshkhind road, Pune-411007. Department of Electronic Science, Physics, Computer Science took up the responsibility to conduct this national level conference.

## Introduction

Electronic waste, e-waste comprises electrical and electronic equipment discarded due to being out of order, end of life or due to projection of advanced versions of electrical or electronic devices. To manage these discarded devices, e-waste, various policies are adopted in the world. Basically recycle, reuse and reduce is the '3R principle' to handle e-waste materials. Informal processing of electronic waste may cause serious health and pollution problems. Spares of the e-waste devices like packaging materials, plastics, batteries, covers, chemicals, etc. also bring hazardous effects in environment. The better way is to repair, reuse and reduce generation of e-waste. Disposal of it through a recognized and authorized industry is very much necessary. It becomes necessary to create awareness among society regarding e-waste and reducing it. The procedures for collection of all e-waste materials, sorting and its resale, reuse, repair instead of discarding it, useful spares can be taken out which otherwise may not be available in market, and also some of the gadgets can be used as educational models for schools and researchers.

Taking into account these issues, it was decided to organize a national conference on hazardous e-waste management. Aim and objective of the conference was to create awareness, bring all sensitising experts together related to this area and promoting possible entrepreneurship development in e-waste management. As a pre-conference activity a survey of e-waste awareness in rural community was carried out in the village Phulgaon near Pune by NSS students of Modern College. A rally was organised for e-waste management campaign in that village. Data related to awareness and disposal of e-waste was collected and analysed. It was observed that, there is a need to promote awareness regarding e-waste management in society. During the conference, various experts, researchers, entrepreneurs, students and faculties came together to discuss this issue with many aspects. The speakers invited for the conference were from e-waste processing units, NGOs, research institutes etc. Practical demonstrations and film show regarding theme of the conference were also organised. The call for research papers for the conference had good response from researchers, scientists, academic faculties and students.

It is the first time in the conduct of a national conference, that research papers were published in journal 'Environment Observer' with ISBN number. This was published and distributed at the inauguration ceremony of the conference.

The output of the conference has been the creation of awareness about e-waste management as well as it has given direction to youngsters for social entrepreneurship. This activity will be continued by the host institutes in the future and a systematic approach, procedure will be developed for collection and disposal of e-waste materials within Pune Municipal area.

The conference was organised under the visionary guidance of Prof. Dr. G. R. Ekbote, Chairman, P.E.Society, Prof.S.S.Deshmukh, Secretary, P.E. Society, Dr. P. B. Buchade



Chairman Board of studies Electronic Science, University of Pune, Prof. P.S.Chirputkar, Dr.A.K.Pande and Prof.J.G. Ekbote Chairpersons Local Managing Committee of our college. Dr. R.S. Zunjarrao, Dr.A.D. Shaligram and Prof. S.R. Chaudhari were Convenor and Secretary respectively in organizing the conference. Prof. A.V. Deshpande, Prof. S.S.Thengadi, Prof. P.S.Varade and Prof. Anjali Sardesai worked as coordinators for this national conference.

#### **Day One: 23rd December 2013**

Principal, Dr. R. S. Zunjarrao, Dr. A. D. Shaligram, Prof. S.S. Deshmukh, and Prof. S. R. Chaudhari addressed the audience at the inaugural function.

All research papers presented in this national conference were published in journal 'Environment Observer' with ISBN number. This was released by Dr. Arvind Joshi.

Dr. Arvind Joshi, Chairman, Canadian International, Canada graced the occasion as Chief Guest for inaugural programme. He delivered a keynote talk on 'e-waste is Gold unsold' and also discussed the statistics of e-waste growth in India and its hazardous effects on human health. Dr. A.D. Shaligram, Head, Dept. of Electronic Science, University of Pune spoke about e-product and its main components. He discussed the ill effects on all living organisms and subsequently on the ecosystem.

Dr. Mangesh Kashyap, President, Seeram,Pune stressed on need and role of individuals in eradicating e-waste. He focused on the fact of using products for ones needs rather than luxuries in life. Mr. Rajesh Manerikar of Jan-Adhar organization focused on creating awareness ,collection, treatment and disposal of e-waste amongst general public.

First day the conference concluded with oral presentation session chaired by Dr. Shubhangi Puranik. In this session, participants from various organizations presented their research work and case studies. The technical session was conducted by Prof. Ms. Sheetal Pardeshi from Microbiology department.

#### **Day Two: 24th December 2013**

On the second day of the conference, Mr. Kshaumesh Antani of ILFSENV elaborated on benefits of recycling and emphasized on the requirement of e-waste recycler plants and also briefed the participants on recycler strategies adopted at ILFS, Vadodara.

Mr. Nilkanth Poman, Computer officer, PCMC discussed his view about IEC-Information, Education and Communication of e-waste management.

Mr. Sharad Pustake, Advisor,Science and Technology Park,Pune shared his ideas and views about this secondary market for upcoming Entrepreneurs and young graduates. He briefed the audience about flea market in California and its possible implementation in India.

Ms. Pratibha Sharma of SWACH group highlighted the ill effects of e-waste and the need of awareness amongst general public and also the stakeholders.

Prof. Poonam Lambhate demonstrated the details of hard disk free space of LAN. Mr. Vinay Mundada stressed on sustainable design of production of e-products. A panel discussion with experts was held before the valedictory function.

Around 45 participants registered and presented their research work and about 75 post graduate students were benefited with knowledge acquired through the sessions and demonstrations. Paper and poster presentation competition was organised for the participants in this conference.

The valedictory programme was presided over by Honourable Dr. G.R. Ekbote, Chairman, Progressive Education Society .He concluded the two day conference with his views and dynamic vision on the theme of the conference.

Modern College of Arts, Science and Commerce, Shivajinagar, Pune -5 and Department of Electronic Science , University of Pune, wish to thank authorities of Progressive Education Society in general and Honourable Prof. Dr. G.R. Ekbote in particular for giving opportunity to jointly organise this conference on socially relevant issue.

**- Prof. S.R. Chaudhari, Organizing Secretary**



## राज्यस्तरीय परिषद माझी जडणघडण

- डॉ. स्नेहल तावरे,

अध्यक्ष, मराठी अभ्यास मंडळ, पुणे विद्यापीठ आणि पदव्युत्तर मराठी विभाग प्रमुख, मॉडर्न महाविद्यालय.



माणसाच्या व्यक्तिमत्त्वावर जडणघडणीचा मोठा परिणाम होतो. या जडणघडणीमध्ये अनेक घटकांचा समावेश असतो. किंबहुना अशा घटकांशिवाय मानवी जडणघडण अशक्य असते. माणूस हा समाजप्रिय आहे. माणसाला समाजामध्ये रहावयास आवडते. समाजामध्ये विविध उद्योग-व्यवसाय करणारी, भिन्न-भिन्न प्रवृत्तींची आणि विचारांची माणसे असतात. त्यांचे जीवन म्हणजे विविधतेत एकता असे असते. या विविधतेचा मानवी जीवनावर मोठा परिणाम होत असतो. माणूस या विविधतेतूनच काही गोष्टी शिकत असतो आणि आचरणात आणत असतो. चांगले गुण, उपक्रम आपण अंगिकारले पाहिजेत ही विचाराधार मानवाच्या आदिम काळापासून चालत आलेली आहे. एकविसाव्या शतकातील आजचा माणूसही याला अपवाद नाही. आजही तो अनेकांकडून अनेक गोष्टी आत्मसात करून आपले जीवन यशस्वी करित असतो.

यशस्वितेच्या प्रत्येकाच्या कल्पना ज्याच्यात्याच्या मतानुसार असतात. तरीही आपण यशस्वी कसे होऊ, जीवनात स्थिरता, सौख्य, समाधान कसे मिळेल यांकडे लक्ष देणे हा मानवी जीवनाचा एक गुणधर्म आहे. या धर्माला अनुसरून तो समाजातील व्यक्तींचे निरीक्षण करित असतो. या निरीक्षणशक्तीतूनच अनुकरण करण्याची वृत्ती तो जोपासतो आणि आपला आदर्श शोधण्याचा प्रयत्न करित असतो. अशा बहुउद्देशाने प्रेरित होऊन मराठी संशोधन केंद्र आणि पदव्युत्तर मराठी विभाग व पुणे विद्यापीठ यांच्या संयुक्त विद्यमाने 'माझी जडणघडण' याविषयावर बुधवार दि. २६ फेब्रुवारी २०१४ रोजी राज्यस्तरीय परिषदेचे आयोजन करण्यात आले होते. या परिषदेचे उद्घाटन मा. प्रा. फ. मु. शिंदे, अध्यक्ष, अखिल भारतीय मराठी साहित्य संमेलन सासवड यांच्या शुभहस्ते झाले. प्रमुख पाहुणे म्हणून डॉ. नागनाथ कोतापल्ले, माजी कुलगुरू, औरंगाबाद विद्यापीठ, स्वागताध्यक्ष मा. प्रा. डॉ. गजानन एकबोटे, प्रमुख उपस्थिती मा. प्रा. सौ. ज्योत्स्ना एकबोटे, सचिव प्रो. ए. सो. प्रा. श्यामकांत देशमुख, प्राचार्य डॉ. राजेंद्र झुंजारराव आणि मराठी विभाग प्रमुख डॉ. स्नेहल तावरे व्यासपीठावर उपस्थित होते. या प्रसंगी डॉ. स्नेहल तावरे यांनी संपादित केलेले 'माझी आई' या पुस्तकाचे प्रकाशन माननीयांच्या हस्ते झाले. या प्रसंगी प्रा. फ. मु. शिंदे म्हणाले, "माणूस मोठा झाल्यावर जे वागतो, ते त्याच्या जडणघडणीवर अवलंबून असते. परंतु जेव्हा आपण आत्मकथन करत जडणघडण सांगतो. त्यात सगळं सत्य सांगणे अपेक्षित असते. मात्र सगळ्यांनाच सत्य सांगणे जमत नाही आणि ते आत्मकथन अपूर्ण ठरते. माझ्या जडणघडणीचे अधिष्ठान आई आहे. सध्या सगळेच सानेगुरुजी होण्यापेक्षा 'नाणेगुरुजी' झाले आहे. कोचिंग क्लासेसमुळे विद्यार्थ्यांच्या खिशातून किती शुल्क घ्यायचे याकडे नाणेगुरुजीचे लक्ष असते. मग शिक्षणातून संस्कार रुजणार तरी कसे? 'आई' ही कौटुंबिक शिक्षक असते, तर शिक्षक महान सामाजिक आई असतो. त्यामुळे विद्यार्थ्यांच्या जडणघडणीकडे शिक्षकाने गांभीर्याने लक्ष दिले पाहिजे. थोड्याशा अत्तराची कुपी जेव्हा स्वतःच्या जडणघडणीचा विचार करते तेव्हा अनेक फुलांच्या सहकार्यातून अत्तराची जडणघडण होत असते हे तिच्याही लक्षात येते."

डॉ. नागनाथ कोतापल्ले म्हणाले "शोषित वर्ग जसा जागा झाला तसे आत्मकथन साहित्यात येऊ लागले. प्रथम दलित जागे झाले मग स्त्रिया. आत्मचरित्रात लेखक स्वतःचे शुद्धीकरण करत असतो. त्यामुळे ज्याला सगळे सत्य समोर मांडायचे आहे, शुद्धीकरण करण्याची इच्छा आहे, त्याने आत्मचरित्र लिहावे. त्यावेळी आपल्याला कळते की हे किती कठीण आहे". या प्रसंगी प्रा. डॉ. गजानन एकबोटे म्हणाले 'घडणघडणीचा विचार करताना मला डॉ. कांतिलाल संचेती यांची आठवण येते. ते घरचा व्यवसाय सांभाळत असताना सकाळी लवकर उठून दुकान चालवयाचे, नंतर दुपारी सायकलवर मेडिकल



कॉलेजला जायचे असा दिनक्रम त्यांचा होता. हे करीत असताना सामाजिक बांधिलकीची त्यांची जाण तीव्र होत गेली आणि अविरत परिश्रमातून त्यांनी संचेती हॉस्पिटल उभारले हा त्यांचा आदर्श अनेकांना प्रेरणादायी ठरलेला आहे.”

या उद्घाटन सोहळ्यामध्ये प्रा. सौ. ज्योत्स्ना एकबोटे यांनी ‘माझी आई’ हे पुस्तक त्यांना अर्पण केल्याबद्दल कृतज्ञता व्यक्त केली, प्राचार्य डॉ. झुंजारराव, सचिव प्रा. श्यामकांत देशमुख यांचीही भाषणे प्रेरणादायी ठरली.

दुपारच्या सत्रात प्रा. डॉ. द. ता. भोसले, अध्यक्षस्थानी होते आणि प्रमुख पाहुणे म्हणून डॉ. प्र. ल. गावडे, प्राचार्य डॉ. भास्कर शेळके उपस्थित होते. अनेक प्राचार्यांनी आपल्या जडणघडणीबद्दल थोडक्यात विचार मांडले.

या परिषदेच्या समारोप प्रसंगी श्री. उत्तम कांबळे (पूर्वाध्यक्ष अं. भा. मराठी साहित्य संमेलन) अध्यक्ष म्हणून आणि प्रमुख पाहुणे म्हणून अधिष्ठाता डॉ. अशोक चासकर अधिष्ठान डॉ. गौतम भोंग उपस्थित होते. परिषदेचा समारोप करताना उत्तम कांबळे म्हणाले, “शून्यातून वर येणाऱ्या व्यक्तीची जडणघडण भावी पिढीसाठी ऊर्जा केंद्र ठरत असते. अशा जडणघडणीबद्दल लिहिणे सर्वात अवघड असून त्याकडे साहित्यिकांनी गांभीर्याने पाहण्याची गरज आहे. आपलेच दुःख सगळ्यात मोठे असे प्रत्येकाला वाटते. परंतु दुःख हे दुःखच असते. या दुःखाला जात, धर्म नसतो. जडणघडणीचा परिणाम भविष्यातील कलाकृतीवरील होत असतो. लिहिण्याची ताकदही याच जडणघडणीतून येते. त्यामुळे उद्याच्या माणसाला जगण्याचा धीर देणारे लिखाण घडणघडणीतून झाले पाहिजे.

या राज्यस्तरीय परिषदेच्या समारोप प्रसंगी आभारप्रदर्शन करताना डॉ. स्नेहल तावरे यांनी मराठी विभागातर्फे तिसरी आंतरराष्ट्रीय परिषद, पुढील वर्षी घेण्यात येणार आहे आणि विषय ‘भारतीय संत आणि विदेशी संत यांचे योगदान’ हा असल्याचे घोषित केले.

## State Level Conference on Emerging Trends in Service Sector



The State level Seminar on “Emerging Trends in Service Sector” was organized under Quality Improvement Program of University of Pune. It was held on 4<sup>th</sup> and 5<sup>th</sup> February 2014.

The basic objective of this seminar, was to provide present growing position of Service Sector of India. Accordingly we had invited various Resource persons from various service sectors for interaction and enhancement in knowledge of our students.

The topics covered were pertaining to the field Hospitality, Medical Tourism, Media management, Advertisement and Banking Industry.

Total 77 students and various faculties participated in this two- days Seminar.

This seminar was organized by the Wing of Computer and Business studies.

- Prof. Milind Waghmare  
Vice-Principal



# डिजिटल रेकॉर्ड रूम

- रविंद्र काळे, रजिस्ट्रार



यंदाचे वर्षी महाविद्यालयाच्या डिजिटल रेकॉर्ड रूमचे उद्घाटन बिहारचे राज्यपाल मा. डॉ. डी. वाय. पाटील यांचे शुभहस्ते व पुणे विद्यापीठाचे कुलगुरु मा. डॉ. वासुदेव गाडे यांच्या उपस्थितीत करण्यात आले.

त्या प्रसंगी या योजनेपाठीमागचा उद्देश काय आहे व रेकॉर्डचे स्कॅनिंग अथवा डिजिटायझेशन झाल्यानंतर त्याचा प्रत्यक्ष वापर कसा केला जाणार आहे याचे प्रात्यक्षिक मा. डॉ. डी. वाय. पाटील व प्रमुख पाहुणे विद्यापीठाचे कुलगुरु मा. डॉ. वासुदेव गाडे यांना देण्यात आले.

महाविद्यालयाच्या विविध उपक्रमांपैकी डिजिटल रेकॉर्डरूम ही संकल्पना मूर्त स्वरूपात येताना महाविद्यालयातील सर्वानाच त्याचा खूप आनंद होत आहे आणि अभिमानही वाटत आहे.

१९७० साली सुरु झालेल्या या महाविद्यालयाची सुरवातीची विद्यार्थीसंख्या, अभ्यासक्रम आणि नव्याने सुरु केलेले विविध अभ्यासक्रम व त्यामुळे वाढलेली आजची विद्यार्थी संख्या, वर्षागणिक वाढत चाललेल्या या विद्यार्थी आणि शिक्षक-शिक्षकेतर कर्मचाऱ्यांचे संबंधाने वाढत चाललेल्या विविध प्रकारच्या रेकॉर्डचा वाढता आवाका लक्षात घेता आणि ते ठेवण्यासाठी लागणारी जागा, त्याची सुरक्षा असे अनेक प्रश्न नेहमीच प्राचार्य व अन्य पदाधिकाऱ्यांशी नेहमी येणाऱ्या चर्चेत समोर येत होते. असे रेकॉर्ड व्यावस्थित ठेवण्यासाठीचा एका मोठ्या जागेचा अभाव चर्चेतून नेहमी समोर येत असे. त्यामुळे रेकॉर्ड उपलब्ध जागेनुसार वेगवेगळ्या जागी ठेवावे लागे. अशा परिस्थितीत ज्यावेळी महाविद्यालयातून गेल्या चाळीस वर्षात विविध शाखांतून उत्तीर्ण होऊन बाहेर पडलेल्या अनेक विद्यार्थ्यांना, सेवा निवृत्त झालेल्या शिक्षक-शिक्षकेतर सहकाऱ्यांना, नोकरी-व्यवसायाच्या निमित्ताने, पासपोर्ट अथवा सेवानिवृत्ती नंतर अनेक कारणांनी त्यांच्या

महाविद्यालयात असतानाचे विविध पुरावे लागत असतात. त्यासाठी ते मागणी करत असतात. आणि सध्या येत्या काही वर्षात हे प्रमाण खूपच वाढल्याचे जाणवत आहे. अशाप्रकारच्या मागण्यांमध्ये प्रामुख्याने, डुप्लिकेट स्कूल लीव्हिंग सर्टिफिकेट, डुप्लिकेट मार्कलिस्ट व तत्सम कागदपत्रे तसेच शिक्षक-शिक्षकेतर कर्मचाऱ्यांचे बाबतीत महाविद्यालयात सेवा केल्या संदर्भातील सेवा प्रमाणपत्रे, सर्व्हिस बुक्सच्या प्रती, शासन, विद्यापीठ वा शिक्षण क्षेत्राशी निगडित विविध खात्यांकडून वारंवार मागवली जाणारी विविध माहिती, माहिती आधिकाराचा वापर करून समाजातील विविध घटकांकडून मागवली जाणारी माहिती. अशा अनेक गोष्टींचा विचार करता अशा स्वरूपाची माहिती कमीत कमी वेळात ती कोठे ठेवली आहे हे शोधण्याकरिता व्यक्तिशः दोघा-तिघांना निरनिराळ्या जागी जाऊन ती शोधण्याचा प्रयत्न करावा लागतो. त्यात कमीत कमी चार ते आठ दिवसांचा कालावधी किंवा त्याहीपेक्षा जास्त कालावधी लागतो. अशा प्रकारच्या शोधकामात जर एखाद्या विद्यार्थ्याच्या नोकरी संबंधात जर एखाद्या एजन्सीने रेकॉर्ड व्हेरीफिकेशनची मागणी केली असेल तर कदाचित त्या विद्यार्थ्याला मिळणारी नोकरी अडचणीत येऊ शकते. अशा परिस्थितीत शोधकाम करणाऱ्या कर्मचाऱ्यांचे नियमित काम मागे पडते व त्याच्यावर दोन्ही कामांचा ताण पडल्याने त्याची मानसिक व शारीरिक अवस्था बिघडू शकते. असे आमच्या लक्षात आल्याने यावर काही तरी ठोस उपाय शोधण्याची कल्पना सातत्याने चर्चेत येत होती. या उपायाने आम्ही निश्चितच पारंपरिक रेकॉर्ड शोधकार्याला फाटा देऊन खात्रीने 'स्मार्ट वर्किंग' करू शकू याची आम्हाला निश्चित खात्री असल्याने त्यातूनच या रेकॉर्ड डिजिटायझेशनची कल्पना पुढे आली. या कल्पनेला मूर्त स्वरूप देण्याचे लक्षात घेऊन खालील मुद्दे मांडले.

१) पारंपरिक पद्धतीने रेकॉर्ड ठेवणे व त्याचा शोध घेणे आणि डिजिटल पद्धतीने रेकॉर्ड ठेवणे यातील फरकाची आम्ही ही योजना आखण्यापूर्वी नोंद घेतली :

पारंपरिक पद्धती	डिजिटायझेशन पद्धती
१) जागा प्रत्यक्ष रेकॉर्ड ठेवण्यासाठी रेकॉर्डच्या आकारमानानुसार व त्याची योग्य मांडणी करण्यासाठी मोठ्या जागेची आवश्यकता असते की ज्याचा आज अभाव जाणवतो.	रेकॉर्ड स्कॅन केल्याने व अशा रेकॉर्डची साठवण ई-माध्यमात केल्याने (सीडी, डीव्हीडी, हार्ड डिस्क वगैरे) अशा माध्यामातून डेटा ठेवण्याच्या जागेच्या प्रश्नाचा फार विचार करावा लागत नाही.



पारंपरिक पद्धती	डिजिटायझेशन पद्धती
<p><b>२) सुरक्षा</b> अनेक वर्षांच्या रेकॉर्डची अनेक वर्षे साठवण करून ठेवावी लागत असल्याने कालांतराने त्यावर वातावरणाचा परिणाम होऊन त्याला वाळवी सारखा प्रकार लागून रेकॉर्ड खराब होण्याची शक्यता असते.</p>	<p>रेकॉर्डची साठवण ही ई-माध्यामातून होत असल्याने अनेक वर्षेच्या ते छोट्या जागेत व अनेक प्रिंटमध्ये ठेवल्याने तो खराब होण्याची शक्यता नसते.</p>
<p><b>३) सुरक्षा</b> काही अघटित घटना घडली तर त्या ठिकाणचे रेकॉर्ड नष्ट होऊ शकते व मूळ स्वरूपात ते परत उपलब्ध होणे अशक्यप्राय असते. किंवा नव्याने तयार करणे केवळ अशक्य गोष्ट आहे.</p>	<p>ई-माध्यमात साठवलेला डेटा अनेक पद्धतींमध्ये तयार करून वेगवेगळ्या ठिकाणी अथवा वेगवेगळ्या इमारतींमध्ये सुरक्षित ठेवता येतो त्यामुळे एका ठिकाणचा डेटा नसेल तर दुसऱ्या ठिकाणचा डेटा हवा तेव्हा मिळू शकतो.</p>
<p><b>४) वेळेची बचत</b> पारंपरिक शोध पद्धतीमुळे एखादे जुने रेकॉर्ड शोधण्यास दोन ते चार दिवसांचा कालावधी लागू शकतो. जर तो वेळेत उपलब्ध होऊ शकला नाही तर संबंधितांना अडचणीचे ठरू शकते.</p>	<p>ई-माध्यमात साठवलेला डेटा योग्य वर्गीकरण करून असल्याने अद्यावत संगणक प्रणालीच्या सहाय्याने अचूक डेटा काही क्षणात आपल्याला उपलब्ध होऊ शकतो व त्या व्यक्तीचे काम अपेक्षित वेळेच्या आधी होऊ शकते.</p>
<p><b>५) मनुष्य बळ</b> शोधकार्यात किमान दोन ते तीन व्यक्तींची रेकॉर्ड काढण्यासाठी व परत ठेवण्यासाठी तसेच काढलेल्या रेकॉर्ड मधून अपेक्षित माहिती शोधण्यासाठी मदत लागते.</p>	<p>एक व्यक्ती संगणक प्रणालीच्या मदतीने काही क्षणात अपेक्षित रेकॉर्ड शोधून ई-माध्यामातून योग्य व्यक्तीकडे पाठवू शकते. व या कामात दोघेही आपापल्या जागीच बसून ते काम करू शकतात.</p>
<p><b>६) स्मार्ट वर्किंग</b> पारंपरिक पद्धतीने शोधलेला डेटा हा त्या रेकॉर्डरूम मधून कार्यालयाकडे वाहून नेला जातो व त्या आधारे जे काम करावयाचे आहे ते काम विविध पद्धतीने केले जाते.</p>	<p>इथे आजकाल 'स्मार्ट वर्किंग'च्या अपेक्षेप्रमाणे काम केले जाते. काही क्षणात डेटा शोधून ई-माध्यमातून संबंधितांकडे पाठवला जातो व संगणकीय प्रणालींचा वापर करून पुढचे काम पूर्ण केले जाते.</p>
<p><b>७) शोध कामातील गती व अचूकता</b> शोध कार्यात शारीरिक व मानसिक ताण पडत असल्याने कामाशी संबंधित व्यक्तीच्या कामाच्या गतीवर व अचूकतेवर परिणाम होऊ शकतो.</p>	<p>एकाच जागी बसून संगणकाच्या मदतीने काम करावयाचे असल्याने कंटाळा येण्याची व कामाची गती मंदावण्याची शक्यता कमी असते.</p>
<p><b>८) एकाच वेळी अनेकांना उपलब्धता</b> इच्छा असली तरी एकाच वेळी अनेकांना अशा स्वरूपातला डेटा हवा तेव्हा तेथे उपलब्ध करून देता येणे शक्य नसते.</p>	<p>अंतर्गत नेटवर्कचा वापर करून अथवा कोणत्या प्रकारचा डेटा कोणाला कशा स्वरूपात उपलब्ध करून द्यावयाचा आहे हे ठरवून असा डेटा एकाच वेळी अनेकांना हवा तेव्हा उपलब्ध करून देता येऊ शकतो.</p>
<p><b>९) माहिती अधिकार</b> माहिती अधिकाराचा वापर करून जेव्हा माहिती मागितलेली असते अशा वेळी बरेचदा ही माहिती लगेचच द्यावी लागते. अशी माहिती शोधताना वेळ लागून दंडात्मक कारवाईला सामोरे जावे लागण्याची शक्यता असते.</p>	<p>या प्रकारात डिजिटलाईज्ड डेटा उपलब्ध असल्याने माहिती अधिकाराचा वापर करून जेव्हा माहिती मागितलेली असते अशा वेळी हवी ती माहिती संगणक प्रणालीच्या मदतीने आपणास लगेच मिळू शकते व दंडासारख्या गोष्टी टाळता येऊ शकतात.</p>
<p><b>१०) शारीरिक मानसिक त्रासावर उपाय</b> या प्रकारच्या शोधकार्यात माहितीचा शोध घेणाऱ्या व्यक्तींना हातातले काम सोडून या माहितीचा जिथे असेल तेथे जाऊन शोध घ्यावा लागल्याने मानसिक तसेच शारीरिक त्रास होऊ शकतो.</p>	<p>संगणक व संगणक प्रणालीची मदत घेऊन माहिती शोधली जात असल्याने डेटा शोधण्यासाठी अन्यत्र कोठे जाण्याची आवश्यकता नसते त्यामुळे असा कोणता त्रास होण्याचा संभव नसतो.</p>



**आवश्यक त्या सर्व रेकॉर्डचे स्कॅनिंग करून डिजिटायझेशन करण्याला महत्व देण्यात आले. :**

- १) महाविद्यालयातील विद्यार्थ्यांशी संबंधित आवश्यक त्या सर्व रेकॉर्डचे डिजिटायझेशन करून घेणे.
- २) महाविद्यालयातील सध्या सेवेत असणाऱ्या व सेवानिवृत्त झालेल्या सर्वच कर्मचाऱ्यांशी निगडित सर्व महत्वाच्या कागदपत्रांचे रेकॉर्ड डिजिटायझेशन करणे.
- ३) शासकीय व लेखा विभागाशी निगडित महत्वाच्या कागदपत्रांचे व पुस्तकांचे रेकॉर्ड डिजिटायझेशन करणे.
- ४) महाविद्यालयाला सुरवातीपासून मिळालेल्या अनुदानाविषयी व त्याच्याशी निगडित सर्व महत्वाच्या कागदपत्रांचे रेकॉर्ड डिजिटायझेशन करणे.
- ५) महाविद्यालयाचे विविध स्तरावर आयोजित केलेले सेमिनार, कॉन्फरन्सेस, वर्कशॉप्स, महत्वाच्या इव्हेंट्सचे रेकॉर्ड ठेवणे.
- ६) प्रचलित पद्धतीत फरक करून, अशी पद्धत सुरू करणे की नव्याने येणारे आणि महत्वाचे वाटणारे असे सर्वच रेकॉर्ड वाचले जाऊन, त्याचे डिजिटायझेशन होईल व त्यावर डिजिटायझेशनचा शिक्का पडून, मगच ते कागद योग्य त्या विभागात फाईल केले जातील.

**अशा प्रकारे डिजिटायझेशन झालेले रेकॉर्ड योग्य संगणक प्रणालीचा वापर करून हवे ते रेकॉर्ड संगणकाच्या द्वारे एका क्लिकने उपलब्ध होईल असे पाहाणे.**

- १) या कामासाठी म्हणून सुरवातीला आम्ही मॉड्युलर इन्फोटेक लि. या कंपनीचे सहाय्य घेण्याचे ठरविण्यात आले.
- २) त्यांच्या मदतीने रेकॉर्डच्या स्कॅनिंगच्या कामाला सुरुवात केली. त्यांनी अद्ययावत यंत्रणेचा वापर करून हे काम जलद व उत्तम प्रकारे करण्यास सुरुवात केली.
- ३) या कामाची माहिती महाविद्यालयातील व्यक्तीलाही व्हावी व कालांतराने हे काम महाविद्यालयाच्या कर्मचाऱ्यांना स्वतंत्रपणे करता यावे यासाठी या कामाचे को-ऑर्डिनेटर म्हणून एका कर्मचाऱ्याची नेमणूक करण्यात आली.
- ४) महाविद्यालयाचे शासन व कोऑर्डिनेटर व सर्व्हिस प्रोव्हायडर यांचे साहाय्याने सध्याचे काम चालू असून त्यात सुसूत्रता आणली जात आहे.
- ३) **भविष्यातील योजना व नियोजन**
- १) या योजनेअंतर्गत वर उल्लेख केल्या प्रमाणे सर्व महाविद्यालयातील सर्वांशीच संबंधित महत्वाचे रेकॉर्ड डिजिटायझेशन व्हावे यासाठी प्रयत्न करणे.
- २) स्कॅनिंग/डिजिटायझेशन करण्यासाठी लागणारी स्वतःची अद्ययावत यंत्रणा उभी करणे
- ३) शासकीय विभाग, महाविद्यालयातील विविध विषयांचे विभाग

किंवा महाविद्यालयाबाहेरील कार्यालयांकडून विचारणा झालेली माहिती. ई-मेलद्वारा डिजिटल रेकॉर्डरूम कडे मागवली जाईल व डिजिटल रेकॉर्डरूमद्वारा ही माहिती त्याच प्रकारे ई-माध्यमातून संबंधित विभागाला अथवा शासनाच्या संबंधित विभागाकडे पाठवली जाईल.

- ४) या प्रकारात आणखी अद्ययावत आणण्यासाठी टप्प्याटप्प्याने सर्व शाखांच्या सर्व वर्गातील विद्यार्थ्यांना ऑनलाईन प्रवेश पद्धतीची संगणक प्रणाली अंमलात आणली जाईल की जेणे करून विद्यार्थ्यांशी निगडित सर्वच माहिती वर्षवार पद्धतीने संगणकावरच साठवली जाईल.

या सर्व योजनेमुळे सर्व संबंधित कर्मचाऱ्यांचा वाया जाणारा वेळ, त्यासाठी पडणारे कष्ट वाचविण्यात तसेच, त्यांचा शारीरिक व मानसिक ताण कमी करण्यात येऊन तोच वेळ त्यांना शांतपणाने अन्य कामासाठी वापरता यावा व सर्वांनाच आरोग्य व मनःशांती मिळावी अशी अपेक्षा आहे.

**Form IV**

Statement about ownership and other particulars about

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I, Dr. R.S. Zunjarrao, hereby declare that the particulars given above are true to the best of my knowledge and belief.

**Principal Dr. Rajendra Zunjarrao**



## REPORTS

### OFFICE

The academic year 2013-14 started with the celebration of 43rd '**College Foundation Day**' on 15th June, 2013. An informative lecture on health care by renowned cardiologist Dr. Jagdish Hiremath, was arranged for the benefit of all the staff members of the college. It was very informative, interesting and useful for all.

#### **Infrastructural growth and Development in various Departments:**

In the recent past our college has taken spectacular strides on the path of progress. We have received 'Best College award' from the University of Pune; 'A' Grade awarded by NAAC, Bangalore; the status of 'College with Potential for Excellence' (CPE); 'Star College' Scheme of Department of Biotechnology, New Delhi (DBT) and the sanction of special Grant for the development of Life Science Departments.

In addition to these grants college is also in receipt of funds from different sources: BSR, QIP and BCUD. It also includes grants received to the individual proposals of Major/Minor Projects/Schemes of the UGC. Many teachers from the different departments of the college are in receipt of such grants.

Due to these funds our college has been able to improve the existing infrastructure of the college in general and laboratories in particular. We are also able to provide additional facilities to the students and staff of the college and adopt innovative practices.

#### **Facilities to students**

We have installed adequate **Water Coolers** of branded companies on each floor of the building and also installed **Water Purifiers** for both the drinking water tanks at the ground floor to provide clean and cool water to the students.

The facility of ramp and two lifts is made available for the benefit of the physically handicapped students, staff and also senior citizens.

We are using SMS facility for informing students short notices and dates of filling of examination forms etc.

Many decisions taken in the Parents-Teachers Association have been useful for both the students and staff to provide necessary facilities to the students.

Well equipped gymnasium is made available for the physical fitness of the students.

International students Cell has been formed for international students admitted for different courses in our college. Necessary guidance is provided to them for carrying out academic and other activities smoothly during their stay in the college.

#### **Social activities**

In the month of September 2013, a cycle rally was arranged in collaboration with Prajapita Brahmakumari Vishwavidyalaya from Modern College, Pune to Satara for Yuva Jagruti-Awareness amongst youth.

Activities related to development in the rural area were held by the students of NSS of both the Units (Senior and Junior) of our college in the month of December, 2013. during their residential camp organized at Phulgaon, Pune. The villagers appreciated the efforts of the students.

Large number of NSS volunteers participated in the Rice Plantation activity in the rural area along with the farmers. The farmers were surprised at the enthusiasm and outright help rendered by the students.

The National Voters Day was celebrated on 25th January, 2014. Principal Dr. Zunjarrao led the oath to be taken by the citizens, students and staff of the college. He also distributed the Voters ID cards to the newly registered voters of the local area.

The Campaign of **I Will Vote** was also arranged in the college with the help of Sakal Newspaper Company. All the students and staff were present for this function. This special drive was for creating awareness among the youth and citizens of Pune about the duty to vote.

#### **General events during the year**

The administrative staff participated in various functions organized during this year. These include: College Foundation day, International Conference organized by department of Life Sciences, National level Seminar by the department of Electronics, State level Seminars by the department of Marathi and Commerce, District level Seminars and Lecture series organized by various departments.

The staff also participated in functions organized by Arts Circle and all different Associations. These include: Annual Social Gathering, Academic Prize



Distribution Function, and Modern Harmony - organized by Gymkhana Department, Gymkhana Prize Distribution Function, Arts Circle Week and Arts Circle Prize Distribution Function.

The staff also attended to visits of the Local Inquiry Committees regarding affiliation and continuation etc.

#### **Information for freshers**

This year also guidance sessions (information lectures) were scheduled at the beginning of the academic year for the fresh students (freshers) seeking admission in our college ( i.e.Std XI and First Year classes of all the streams).

Heads of all Departments and Chairpersons of various Committees gave basic information about the facilities, prospects, skill development programmes and various activities in the college. General information regarding Office administration was also given to them.

During this academic year also Identity Cards were made available on the very day of admission to students of all classes. This helped the students and staff to maintain discipline in the college premises.

#### **Proposed use of advance technology**

In many of the fields we are using Advance Technology/ICT. In near future, we plan to introduce activities like Online admissions, Computerized attendance of students, Alerts to parents regarding attendance and performance of their wards and Online communication of teachers with parents and students.

University of Pune has already started sending online question papers of some classes on trial basis. We have successfully adapted ourselves to this system. We have purchased high speed Reso Digital Copiers especially for this purpose.

#### **Digital record room:**

Separate space and a dedicated staff to coordinate digitization were provided. Old records were scanned and data retrieval software system was installed and implemented during this year. Important documents, reports and records of students and staff can now be easily accessed and retrieved.

Secondly this facility has helped us to save time, storage space, and manpower.

The formal Inauguration of the Digital Record Room and Digital Library was arranged in July, 2013 at the auspicious hands of Dr. D.Y. Patil, Governor of Bihar.

#### **General administration and examinations:**

Routine administrative work was carried out smoothly due to the excellent co-operation of all the members of the staff including the newly appointed staff. All University theory examinations, H.S.C. Board theory examinations and the total responsibility of the First Year University examinations including printing of Admit Cards of students, preparation and declaration of results, were efficiently managed by the office staff.

All the online transactions related to the University as well as H.S.C. Board examinations and uploading the data were carried out successfully.

This year the University of Pune has introduced Credit System for the Post Graduate Courses. This is being flawlessly implemented for all the 16 post graduate courses in the college.

The Office administration has reorganized the activities of the office so as to render more effective service to the students and staff especially by the effective use of Students' Database Management by "VRIDDHI" software.

Office staff is taking maximum efforts to support the newly introduced system of **Online Question Papers and Barcode System** for the answer books. Training sessions were arranged for the information, for college staff involved in the examinations. A **Special Guest lecture** was also arranged for giving the detailed information regarding use and purpose of the barcodes and hollow craft stickers.

Office staff is also ready and willing to carry out the administrative work of newly proposed courses like B.Sc. Animation, Fashion Designing.

Medical examination of all first year students was conducted on behalf of the University of Pune, by the committee constituted by the college. Chairman Dr. Mrs. S.L. Taware and Superintendent Shri. V.L. Avhad carried out this activity with the help of teaching and non-teaching staff. Adequate team of doctors for the medical examination carried out this work smoothly.

The college is developing its own new website. Information of newly introduced courses, different events and activities conducted by the college would be made available on the website.

This year efforts are being taken to develop CMS based college website in which each and every department will have its own website, linked with the main website of the college. Data sharing between the administrative section and the departments will become easier.



This will also enable the students to be updated independently regarding various aspects related to their academics and all other college activities.

The idea of online admissions and online payment of fees is also under consideration for the benefit of parents and students seeking admissions in our college.

The Accounts and Administrative section of the college has taken efforts to see that, all the work related to Provident Fund will be completed in time. The PF Slips are under process for distribution to the staff. The Service Books of all teaching & non-teaching staff of Senior and Junior College are also being updated and scanned. Various claims and disbursement of all pending arrears of the staff is completed. Quick submission of pension cases of retiring members of the staff and its follow-up, speedy settlement of Pension & P.F. cases, reimbursement of medical bills has been done.

The Accounts Section is taking utmost care to complete all accounting work accurately and within time schedule. Care is being taken to disburse all the amounts in time, received from the Government & other authorities. The internal audit of all the Units of the college, as well as Statutory Audit for the year 2012-13 has already been completed. The Audit of the current year i.e. 2013-14 will be initiated immediately.

Under the able guidance of Principal, Dr. R.S. Zunjarrao, Vice-Principal and Secretary PES Prof. S.S. Deshmukh, the Statement of Expenditures and Utilization Certificates and Audit regarding different schemes and projects sanctioned by the different funding agencies have been completed in time.

We thank Dr. Y.R. Waghmare, Prof. S.S. Thengadi, Prof S.R. Chaudhari and Mr. Deepak Shah for their contribution in this regard.

From last few years we are implementing the 'Earn & Learn Scheme' introduced by University of Pune. Maximum number of needy students from different classes were given chance to work either in the library, office or in different departments. Assistance from the students is helpful for the respective departments and the students also gather administrative experience. This scheme is strictly implemented as per rules and regulations and guidelines given by the University of Pune.

#### **Workshops:**

- Organized by the Deputy Director of Education, Pune Regional Office on adopting new technology for online admissions to class XI from the year

2014-15, were attended by Vice Principal, Supervisor of Junior College, some of the faculty coordinators and non-teaching staff.

- Organized by Education Officer, Z.P. Pune regarding online Pay was attended by Mrs. Kulkarni S.S. and Shri Nawale Nilesh.
- For Salary Budget by the Joint Director's office and such other workshops related to salary and Non-Salary Grants; for Teaching and Non-Teaching Staff Placements and Promotion, Pay Fixation etc., were also attended by Superintendent Shri. Renuse P.D., Head Clerk Shri. Parde Indrajeet, Senior Clerk Shri. Sagar Chavan and other staff from Administration Section.
- Organized by the Social Welfare Office regarding online Scholarship and Free ships and approval of fees of various grant and non-grant courses were also attended by Head Clerk Shri. Parde Indrajeet and Smt. Sasane Sunita.
- Organized by University of Pune for approval of Teaching Staff and on Eligibility of Students, on CAS for Senior College Staff, were also attended by the administrative staff.

The duties assigned to teaching and non-teaching Staff of the college by Election Commission were also carried out successfully by staff members concerned.

The staff provided an able support in smooth conduct of Senior College Interviews arranged for selection of teaching and non-teaching Staff, written examination organized for recruitment of non-teaching staff, SET/NET exams and other exams of private organizations.

We welcome Shri. Raju Jadhav and Shri Nivangune Vijay, non-teaching staff members transferred from Modern College, Ganeshkhind, Pune-53.

#### **Congratulations- for special achievements**

Congratulations to our Principal Dr. R.S. Zunjarrao for getting **Best Principal Award** of University of Pune.

Congratulations to Prof. Varade P.S. and Prof. Mrs. Bhandare Nisha and all the teachers and students of the NSS Unit, Senior College for getting **Best NSS Unit Award** of University of Pune and Special Congratulations to Prof. Varade P.S. for getting **Best Programme Officer Award** of University of Pune.

Congratulations to Prof. P.M. Sambare and all the teachers and students of the NSS Unit, Junior



College for getting the State level award for **Best NSS Unit** for the year 2012-13. We also congratulate Prof. P.M. Sambare for getting State level **Best Programme Officer** award for the year 2012-13.

Congratulations to our Librarian Mrs. Datre M.S. for getting **Adarsh Granthpal Puraskar** of Pune Nagar Wachan Mandir during this year.

Congratulations to the students of our college for getting Chhatrapati Awards of State Government of Maharashtra. Congratulations to all the students who have participated in various sports activities either individually or as a team and won the prizes for the college, to the students selected for participating in R.D. Parade New Delhi, to students participating in various cultural activities and for their achievements in various fields.

Congratulations to all those teaching Staff who have succeeded in getting financial assistance/grants for various projects, research work and schemes from various funding agencies such as BCUD, UGC, DBT, DST etc.

Congratulations to Dr. Mrs. S.K. Rahane, Associate Professor, Commerce and Mrs. L.R. Patankar, Vice Principal junior College for getting Meritorious Best Teaching Award and Shri .T.B. Jadhav, Library Attendant for getting Best Non-Teaching Staff Award from the P.E Society Pune5.

We welcome the following newly joined staff.

#### Teaching -

1. Dr. Patil S.S. - Physics
2. Prof. Gogate S.R. - Physics
3. Prof. Jadhav R.D. - Commerce
4. Prof. Kudnar P.S. - Zoology
5. Prof. Shinde Y.S - Zoology
6. Prof. Ms. Waman V. - Physics

#### Non teaching -

1. Shri. Gaikwad Mahesh - Office
2. Shri. Shendkar Sambhaji - Office
3. Shri. Salunke Amit - Office
4. Shri Mali Kiran - Lab Asstt (Chem)
5. Shri Khunte Gaurav - Lab Asstt (Geog)
6. Shri Mule Sanket - Lib. Attn. (Library)
7. Shri Gore Ganesh - Lab. Attn. (Botany)
8. Shri Sonawane Yogesh - Lab Attn (Electronics)
9. Shri Doundkar Vikas - Lab. Attn. (Chemistry)
10. Shri Kondhalkar R. - Peon (office)

11. Shri Ingale Shivaji - Peon (office)
12. Shri Ghane Amol - Peon (office)
13. Shri Jadhav Pandurang - Peon (office)
14. Shri Gogawale Vijay - Peon (office)
15. Shri Kadam M.D. - Peon (office)
16. Shri Mohol Atul - Peon (office)
17. Mrs. Kadam Tanwi - Peon (office)

We congratulate Mr. Bhargude Vivekanand promoted as Library Attendant and Mr. Panvelkar Datta promoted as Laboratory Attendant.

Best wishes to all those teaching and non-teaching staff pursuing their higher education, for those non-teaching appearing for various Board and University examinations and also congratulations to those who have obtained success in MS-CIT, HSC and University level examinations during this year.

#### Heartfelt wishes for the retiring staff -

Following members of the staff retired from the services after a long and fruitful service to the college.

1. Mr. Sherikar V.M. 31st May 2013
2. Mr. Rane M.M. 31st May 2013
3. Mr. Khandagale A.A. 30th Jun 2013
4. Mr. Bhome B.W. 30th Sep 2013
5. Mr. Sanas S.V. 30th Jun 2013
6. Mr. Tandale T.B. 31st May 2013
7. Mr. Gutte B.D. 31st Jul 2013

We wish our retired colleagues a happy, peaceful and healthy retired life.

The Chairman Local Managing Committee & Junior College Committee, The Principal, Prof. In-charge BBA/BCA & Vice Principals constantly guided & inspired the Office staff in their day-to-day work. Particularly the guidance provided by Prof. P.S. Chirputkar, Dr. A.K. Pande, Prof S.S. Deshmukh and Prof S.R. Chaudhari. Prof Dr. Mrs. N.J. Kulkarni, Prof S, S, Thengadi, Prof. S.K. Ujlambkar regarding financial and UGC matters, particularly for getting Grants for the college from different sources and utilization of these grants. Guidance provided by Prof. A.G. Gosavi & Dr. Y. R. Waghmare regarding accounting work was beneficial to the accounting staff. The office staff expresses their gratitude towards them.

- **Shri. R. P. Kale**  
Registrar



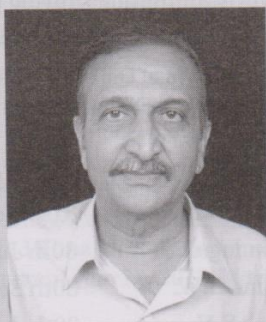
## OBITUARY



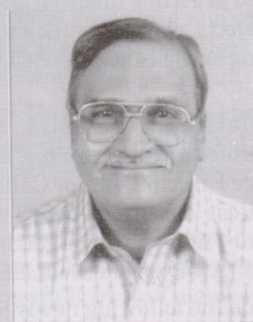
Prof. M. J. Faras  
Retd. Prof. in Chemistry



Smt. V. V. Kale  
Junior Clerk, Office



Dr. K. S. Kale  
Retd. Prof. in Chemistry



Mr. A. P. Kulkarni  
Ex- Office Staff

Mr. H. V. Dhongade  
Retd. Laboratory Attendant

Mr R. J. Gawade  
Retd. Laboratory Attendant

*We sadly condole  
the death of our dear beloved  
who left for their heavenly abode.  
They have left their indelible mark  
on students and staff members alike.  
We will always cherish their fond memories.  
May their souls rest in peace.*

Staff and students of  
Modern College of Arts, Science and Commerce,  
Shivajinagar, Pune-411 005.



## Department of Economics

The members of the department of Economics organized and participated in the following events :

- Visit to RBI, Pune, College of Agriculture Banking, for the students of FYBA, SYBA and SY BCom of our college. The students could see the Currency Museum and the Exhibition on Cooperative Banking organized by RBI on 6<sup>th</sup> and 7<sup>th</sup> Aug. 2013.
- 'Financial Literacy Campaign' for the students, staff, neighboring community and school children , on Friday 17<sup>th</sup> January 2014. The aim of the campaign was to create awareness about Banking functions, services and techniques. About 130 students participated and shared their knowledge with the parents, neighbouring society, women and young school children on the subjects like functions of banks, types of accounts, types of cheques, various currencies of the world, RBI policy, insurance policies, Mahila Bank, NABARD, Stock Exchange, etc. and importance of financial inclusion for Development.

One of our students has got admission in Gokhale Institute, Pune for MA Economics, the only student selected from Pune – Indrajit Kendre.

One of our Alumni of Banking and Finance, Miss Shruti Nair has passed the SET exam.

### Achievements of the staff members

#### Dr. M.M. Satam

- Presented a paper at International Conference on "Global Economic outlook on Recession and Recovery", (titled 'Euro zone Crisis') at VMV College of Commerce, Nagpur, on 10<sup>th</sup> to 11<sup>th</sup> Jan 2014. Paper is published in ISBN 978-81-928735-0-3.
- Presented a paper at a National Conference on "Emerging trends in Banking and Finance in India", titled- Financial Inclusion: A Case Study - in Poona College, on 21<sup>st</sup> Feb. 2014. Paper is published in ISBN 978-93-89965-49-0.
- Presented a paper on "Organized Vs Unorganized Retail sector- Survival of the Fittest" at National conference on "FDI in Retail and Multi-Brand: Challenges & Opportunities", organized by Poona College of Arts, Science & Commerce, held on 7<sup>th</sup> April 2013. Paper is published in ISBN 978-93-89965-46-9
- Presented a paper at a National Seminar on "Financial Inclusion: A Gateway of Inclusive Development, in Shivaji University, on 6<sup>th</sup> and 7<sup>th</sup> Dec. 2013.

- Invited as a subject expert for Restructure of New Syllabus for MA Economics Part II Credit System 2013, Board of studies for Economics, at University of Pune.
- Appointed as a Chairperson by University of Pune for MA Part II, Sem. III & IV for the year 2013-14 for CAP and paper setting.
- Invited for delivering a guest lecture by T.J. College, Khadki, Pune, on Current RBI policy and working of RBI, on 4/2/2014 for the students of SYBCom.
- Appointed as a subject expert in Economics as a member of the Screening cum Evaluation committee by University of Pune, for CAS of teaching staff at stage I and II on 18/2/2014.

#### Dr. A.H. Shende

- Received a grant of Rs. 800,000 for Major Research Project, ICSSR, 2014-15, for the Topic – 'A Study of Competition, Co-operation and Conflict of India and China with special reference to Trade & Commerce'. (Ongoing)

#### Prof. Mrs. S.A. Vartak

- Attended one-day workshop on syllabus restructuring workshop for SYBA in Economics organized by Abeda Inamdar Senior College, Pune on 15<sup>th</sup> March, 2014.

#### Prof. Ms. P.B. Mujumdar

- Invited as a Guest Lecturer under the student welfare Lecture Series to speak on 'Population Dividend' on 6<sup>th</sup> September 2013 for FYBBA students at Sinhgad College of Science, Pune.
- Attended State level workshop on 'Personal Financial Planning and Online Share Trading' organized by Kaveri College of Science and Commerce on 9<sup>th</sup> and 10<sup>th</sup> October, 2013.
- Attended oneday workshop on syllabus restructuring workshop for SYBA in Economics organized by Abeda Inamdar Senior College, Pune on 15<sup>th</sup> March, 2014.

#### Mrs. J.P. Nambiar

- Presented a paper on "Organized Vs Unorganized Retail sector- Survival of the Fittest" at National conference on "FDI in Retail and Multi-Brand: Challenges & Opportunities", organized by Poona College of Arts, Science & Commerce, held on 7<sup>th</sup> April 2013.
- Attended one day workshop on syllabus restructuring workshop for SYBA in Economics organized by Abeda Inamdar Senior College, Pune on 15<sup>th</sup> March, 2014.

- Dr. M.M. Satam

Head



## Department of English

Department of English organised the following events in the academic year 2013-2014

- 1) Collage Exhibition by F.Y. B.A. students in August 2013. They displayed their views and data collected on current events and presented those. It was coordinated by Ms.Sangita Sharma.
- 2) Ms.Sayani Biswas, Ms. Lavon Dosseng, Omkar Jadhav, Ketaki Dighe, Simran Mehata and Aditi Moghe from F.Y.B.A. class participated in 'Play reading competition' on 'Shakespeare', organised by Symbiosis College, Pune. They won Consolation Prize and were acclaimed as youngest participants. Ms.Dipali Lodh and Ms.Sangita Sharma guided them.
- 3) Anshuman Mitra and Sayani Biswas from F.Y.B.A. participated in debate competition organised by Symbiosis College, Pune. They were guided by Ms. Dipali Lodh.
- 4) Ms. Sucharita Dutta Asane was invited to conduct a workshop on 'Review Writing' on 6<sup>th</sup> February 2014.
- 5) Literary Fest : Debate competition, Literary Quiz, Spelling Bee, and Mad Ads were organised to celebrate the literary festival.

### Winners

Competition	Name of the Students	Class
• Debate Competition	Shreya Acharya and Himani Khadilkar	11 <sup>th</sup> AE
• Literary Quiz	Sonakshi Upadhyay, Shreya Acharya, Nikhil Ghanekar	MA-I (Eng) 11 <sup>th</sup> AE MA-I (Eng.)
• Spelling Bee	Tazeen Shaikh, Sonakshi Upadhyay, Nikhil Ghanekar	TYBA MA-I (Eng) MA-I (Eng)
• Mad Ads	Siddhi Khade, Priya Hinduja, Aditi Bhatiya, Shreya Acharya	11 <sup>th</sup> AE
• Poster Exhibition	Anuja Thube, Omkar Jadhav and Ganesh Kamble, Abdullah Manhal I, Salih Abdul Qader F.S	TYBA FYBCom (Eng) MA-I

- 6) Literary Exhibition was organised to create awareness in non- literary students. 45 posters and word games were displayed . It was coordinated by Mrs. Pallavi Math.

## Personal achievements of the Department staff

### Mrs. Alka Kamble

- Was invited to chair a session at national conference organised by Symbiosis ELTIS, Pune. 'Developing Reading Skills' on 8<sup>th</sup> and 9<sup>th</sup> February.
- Was invited as a guest lecturer at Shardabai Pawar College, Baramati on 'Developing Vocabulary Skills and Syntax Studies' on 7<sup>th</sup> February.
- Coordinated literary fest in the college.

### Ms. Dipali Lodh

- Guided students for 'Play reading and debate competition' organised by Symbiosis College, Pune.

### Mrs. Pallavi Math

- Worked as a coordinator to organise Literary Exhibition and literary quiz.
- Worked as a member of publication committee for the international conference on Biodiversity by Modern College, Pune 5.

### Ms. Sangita Sharma

- Working as a coordinator 'International Student Cell' of the college.
- Guided students for Play reading competition organised by Symbiosis College, Pune.
- Invited as a guest lecture 'Recovery Measures of Bank' at TYBcom in the college.
- Mrs. Alka Kamble, Mrs. Pallavi Math and Ms. Sangita Sharma attended international conference on "Post Modernism Theory" organised by Yashwantrao Chavan College, Bharati Vidyapeeth Pune.
- **Prof. P. M. Sambare** was awarded with 'Best NSS Programme Officer' trophy by Government of Maharashtra.

- Alka A.Kamble, Head

## Department Of Geography

Department of Geography conducted academic and other activities smoothly in the year 2013-2014. In addition to classroom teaching, various other activities were conducted by the department at various levels.

### Excursion Tours and Village Survey

1. Village survey of Sangamner (Tahsil-Bhor) was conducted by the department in October 2013 and village survey report was prepared by students. All the members of the staff and post graduate students also participated in the village survey.



2. On 21<sup>st</sup> Sept. 2013 a study tour was arranged for S.Y.B.A. Geography at Kihim (Dist. Raighar), accompanied by Dr. V.B. Kamble, Prof. Wayal N.L. and Prof. Thakur Prajkt.
3. On 11<sup>th</sup> Dec. 2013 a study tour was arranged for Junior wing students at Panshet (Dist. Pune) accompanied by Prof. Mrs. Ketati Nazirkar and Prof. Wayal N.L.
4. On 11<sup>th</sup> Jan. 2014 an excursion tour was arranged for S.Y.B.Sc. Geography at Nagaon (Dist. Raighar) accompanied by Dr. Sonawane Amit, Prof. Gadekar Rajashree and Shri. D.M.Raut.
5. Geography day was celebrated on 14<sup>th</sup> Jan. 2014. Quiz competition was arranged for students. It had good response.
6. On 01<sup>st</sup> Feb. 2014 an excursion tour was arranged for T.Y.B.A. students at Akshi (Dist. Raighar) accompanied by Prof. Wayal N.L. and Prof. Thakur Prajkt and Shri. D.M.Raut.
7. "Vasundhara Photograph competition" was held in Feb. 2014 for the students of geography.

#### Achievements by Teachers -

1. Dr. Amit Eknath Sonawane presented and published a paper in the national conference at Akole entitled "Water resource for sustainable development in the Shirur tahsil of Pune district Maharashtra"
2. Attended the syllabus reconstruct- workshop for the student of S.Y.B.A./S.Y.B.Sc. M.A./M.Sc. at Bhartiya Jain Sanghatan a Wagholi, Pune.

#### Guest lectures

1. A lecture on, "Cloudburst and Landslide – A natural hazard" was delivered by Prof. Anil Dandekar on 3<sup>rd</sup> Oct. 2013.
2. A lecture by Dr. Gaikwad S.W. on 'Applications of GIS' was arranged for post graduate students on 15<sup>th</sup> Oct. 2013.
3. A lecture on, "Job opportunities in Travel and Tourism" was delivered by Mr. Ravindra Jaybhe on 12<sup>th</sup> Feb. 2014.

- Dr. N. J. Kulkarni

Head

### Department of German

German, having a long tradition, legacy of literature, philosophy, science, technology, art and music, will not only help the students for their emotional, cognitive and social development, but it will help the students develop an understanding of a foreign culture, the good points of which can be adopted and inculcated in one's own life and one's

approach to problems. Realizing this need of the hour the Department of German organizes and participates in various activities for the promotion of German.

- On 29<sup>th</sup> January 2014 Kerstin, an intern from Bonn University, Germany had an interaction with our students on Germany and its culture.
- On 13<sup>th</sup> March 2014 an industrial visit to Volkswagen, Chakan was organized by the department for students of German. It gave the students insight of the Volkswagen plant. The interaction of our students with the General Manager Mr. Halbe was informative regarding their career opportunities.
- Steffanie Hausschild, a professor from Augsburg University had an interaction with students about German culture.
- Many of our students attended German Film Festival organized by PASCH in October 2013.
- Our student **Vedant Natu** (XI Com) was selected for the German Youth Camp organized by **PASCH in Sri Lanka in December 2013**. He successfully completed German Language Course A2.
- For three years with the support of PASCH, our team of German students has been doing every year Environmental Projects which were presented in Bangalore Conference. This year our students **Manoj Joshi** (XII Com) and **Manasi Patil** (XII Science) under the guidance of Narendra Naidu & Dr. Nita Patil completed the environmental Project on Hotel Food Waste Management. They got a unique opportunity to represent it in the **International Youth Conference in Bremen, Germany**.
- We conducted A1 and A2 certificate courses in German successfully under Add on Courses. These courses were open to all faculties. The result was 100%. 33 students were benefitted by these courses and passed internationally recognized exams of **Goethe Institute**. The faculties for the above-mentioned courses were Shilpa Rege, Alka Kulkarni & Anuradha Patil.
- In July our German students visited 'Mathematics That You Can Touch' exhibition and participated actively in the Maths workshop. It was organized by PASCH in Fergusson College.
- In August 2013 our visiting faculty Shilpa Rege participated in the seminar on 'Orthography' organized by PASCH.



- On 26th February 2014 our visiting faculty Shruti Narayan presented her research paper on 'Philosophieren im Germanistikstudium. Zum Einsatz literarischer Texte als ein Mittel zum Verständnis im B.A.Studium in Pune' in the International Conference on Genre organized by German Department of Pune University & Goethe Society of India.

#### Sanjeevani Kuvalekar

- Was appointed as a member Board of Studies of Maharashtra State Board of Secondary & Higher Secondary Education.
- Was invited by SCERT to frame the syllabus of VIII German.
- Worked as coordinator of Std X German textbook "Deutsch kreativ international" as well as the CD coordinator.
- As a resource person conducted for the school teachers an orientation workshop on the new textbook of Std X in July.
- Worked as a core committee member throughout the year for the celebration of 'Hundred Years of German Teaching in India & Pune.' It is a matter of pride that the teaching of German language is completing 100 magnificent years in India. To commemorate the 'Centenary of German teaching', the German Section of the Department of Foreign Languages, University of Pune initiated different academic and cultural activities and events. One of these various events was competitions for the students learning German in the University departments, junior & senior colleges, schools, Max Mueller Bhavan, and other institutions in Maharashtra. This mega event was organized in collaboration with Modern College, Pune 411005, and SIFIL & MMCC in November-December 2013. Sanjeevani Kuvalekar worked as a coordinator for these competitions. We had overwhelming response for these various 11 state level competitions in which 682 students participated. Along with Pune University, MMCC, Modern College & SIFIL, we also had the sponsorship for the prizes from PASCH, German consulate and Max Mueller Bhavan Pune.

Students of our college bagged following prizes

#### Quiz Competition :

- 3<sup>rd</sup> Rank : Atharva Paralikar (XI), Vedika Sukhatme (XII), Devika Sakhdeo (XII)

#### Sing a Song Competition :

- 3<sup>rd</sup> Rank Aditi Moghe, Akanksha Kharse, Aditi Parkhe, Simran Mehta, F. Y. B. A.

#### Calendar Making :

- 1st Rank Level 1 - Tanaya Dindore, F.Y. B.Com.  
3rd Rank Level 1 - Shreyas Kulkarni, Shweta Sathe (XII)  
1<sup>st</sup> Rank - Level 2 - Aditi Parkhe, Simran Mehta F.Y.B.A.

- Sanjeevani Kuvalekar, Head

### हिंदी विभाग

विभागद्वारा हर साल निबंध लेखन तथा विज्ञापनलेखन की प्रतियोगिताओं का आयोजन किया जाता है। इस वर्ष भी हिंदी दिन के उपलक्ष्य में प्रथम वर्ष कला के लिए निबंध तथा प्रथम वर्ष वाणिज्य और द्वितीय वर्ष कला के लिए विज्ञापन लेखन प्रतियोगिताओं का आयोजन सितंबर महिने में किया गया।

आबासाहेब गरवारे महाविद्यालय की हिंदी विभागाध्यक्ष डॉ. नीला बोर्वणकरजी ने निर्णायक का काम बखूबी निभाया तथा निम्नलिखित छात्रों को हिंदी दिन समारोह के अवसरपर उनके करकमलोंद्वारा सम्मानित किया गया।

#### निबंधलेखन - विजेता स्पर्धक

- 1) जाह्नवी प्रमोद राक्षे - प्रथम वर्ष कला - प्रथम क्रमांक
- 2) दीक्षा विजय जाधव - प्रथम वर्ष कला - द्वितीय क्रमांक
- 3) ब्रह्मदेव शुक्ला - प्रथम वर्ष कला - तृतीय क्रमांक

#### विज्ञापन लेखन - विजेता स्पर्धक

- 1) दिव्या कामजी - प्रथम वर्ष वाणिज्य - प्रथम क्रमांक
- 2) सीमा उपलेंचवार - प्रथम वर्ष वाणिज्य - द्वितीय क्रमांक
- 3) रूना कुमारी - द्वितीय वर्ष कला - तृतीय क्रमांक
- 4) सुनयना डावखरे - द्वितीय वर्ष कला - प्रोत्साहन

- 2) **हिंदी दिन समारोह** - दि. १९ सितंबर २०१३ के दिन हिंदी दिन समारोह का आयोजन किया गया। कार्यक्रम का शुभारंभ ११वीं विज्ञान शाखा के छात्रों ने हास्य व्यंग्य से भरे नाट्यवाचन किया। इसका लेखन भी चंद्रगुप्त जुलवाणी नामक छात्र ने किया था।

कार्यक्रम के प्रमुख अतिथि के आसनपर विराजमान थी आबासाहेब गरवारे महाविद्यालय की विभागाध्यक्ष डॉ. नीला बोर्वणकरजी। उनके करकमलोंद्वारा छात्रोंद्वारा लिखित युवा चेतना नामक हस्तलिखित पत्रिका का विमोचन किया गया।



डॉ. बोर्वणकर जी ने हिंदी भाषा का महत्व बताते हुए हिंदी में उपलब्ध रोजगारों की चर्चा की। कार्यक्रम की अध्यक्षता उपप्राचार्य डॉ. नयना कुलकर्णी जी ने की।

- ३) २४ दिसंबर २०१३ - विभाग की तरफ से एकदिवसीय शुद्धलेखन कार्यशाला का आयोजन किया गया। कनिष्ठ तथा वरिष्ठ महाविद्यालय के लगभग ३२ छात्र इसमें लाभान्वित हुए। विशेष मार्गदर्शक के रूप में महाराष्ट्र राष्ट्रभाषा सभा के प्राचार्य सु. मो. शाह उपस्थित थे। डॉ. नीला बोर्वणकरजीने हिंदी की वर्तनी के संदर्भ में मार्गदर्शन किया। कार्यशाला के अंतिम सत्र में छात्रों की लिखित परीक्षा हुई और प्रमाणपत्र प्रदान किए गए। प्रमाणपत्र वितरण के कार्यक्रम के लिए महाविद्यालय के प्राचार्य डॉ. राजेंद्र झुंजारराव उपस्थित रहे और उन्होंने छात्रों का मार्गदर्शन किया।
- ४) २८ जनवरी २०१४ - महाराष्ट्र राष्ट्रभाषा सभा पुणे द्वारा आंतरमहाविद्यालयीन एकांकी और बहुपात्रीय अभिनय प्रतियोगिता का आयोजन किया गया था। महाविद्यालय के हिंदी विभाग के छात्रों ने इसमें सहभाग लिया तथा तृतीय वर्ष कला की छात्रा प्रीति सरपोतदार ने अभिनय के लिए द्वितीय पुरस्कार पाया। प्रा. सुनीता पुरोहितजी को एकांकी लेखन के लिए प्रथम पुरस्कार प्राप्त हुआ।
- ५) जनवरी २०१४ - मॉडर्न महाविद्यालय, गणेशखिंड द्वारा निबंध लेखन स्पर्धा का आयोजन किया गया। प्रथमवर्ष के छात्र ब्रह्मदेव शुक्ल को प्रोत्साहन पुरस्कार प्राप्त हुआ।

#### व्यक्तिगत गतिविधियाँ

##### प्रा. सौ. सुनीता पुरोहित

- १) १४ सितंबर २०१३ - हिंदी दिवस के उपलक्ष्य में हिंदी की स्थिति तथा गति पर दैनिक केसरी (हिंदी पत्रिका) के कार्यालय में सामूहिक चर्चा का आयोजन किया गया था। इसमें सहभागी थे प्राचार्य सु. मो शाह, प्रा. नीला महाडिक, प्रा. इंदु पांडे और प्रा. सुनीता पुरोहित।
- २) ७ अक्तूबर २०१३ - महाराष्ट्र राष्ट्रभाषा सभा, पुणे की तरफ से आयोजित कविसम्मेलन में सक्रिय सहभाग लिया।
- ३) नवंबर २०१३ - दीपावली मासिक पत्रिका 'उत्तम अनुवाद' के लिए गरम कोट इस राजेंद्रसिंह बेदी की कहानी का मराठी अनुवाद किया।
- ४) ११ नवंबर २०१३ - पुणे आकाशवाणीपर प्रसारित होनेवाले हिंदी कार्यक्रम कलश के लिए कवि प्रीतांबरदास सराफ रंक की 'अकेला सत्य' और 'सीपियों के मोती' इन दो पुस्तकों की समीक्षा की।

५) २८ दिसंबर २०१३ - शेवगांव के न्यू आर्ट्स महाविद्यालयद्वारा हिंदी सिनेमा और साहित्य इस विषयपर आयोजित आंतरराष्ट्रीय संगोष्ठी में निम्नलिखित विषयपर आलेख प्रस्तुत किया। तीसरी कसम सिनेमा के नृत्यों में अभिजित नृत्य की झलकियाँ फणीश्वरनाथ रेणु की कहानी के परिप्रेक्ष्य में।

- ६) २५ जनवरी २०१४ - आबासाहेब गरवारे महाविद्यालयद्वारा आयोजित कवि हरिनारायण व्यास राष्ट्रीय संगोष्ठी में 'यक्ष का संदेश में पर्यावरणीय चेतना' विषयपर आलेख प्रस्तुत किया।
- ७) २८ जनवरी २०१४ - मॉडर्न महाविद्यालय, शिवाजीनगर, पुणे ५ की ओर से पर्यावरण विषयपर आयोजित आंतरराष्ट्रीय संगोष्ठी में हिंदी काव्य में पर्यावरणीय चेतना विषयपर पोस्टर प्रस्तुत किया।

इसके अलावा ३ अगस्त २०१३ - पी. ई. सोसायटी के ऑडिटोरियम के उद्घाटन समारोह के लिए सांस्कृतिक कार्यक्रम का आयोजन तथा सूत्रसंचालन किया।

- ८) ८ मार्च २०१४ - महिला दिन के अवसरपर कैंसर सपोर्ट ग्रुप द्वारा आयोजित श्रीमती अरूणा केलकर तथा सहयोगियों के 'अष्टनायिका' इस नृत्यसंरचना के कार्यक्रम का सूत्रसंचालन किया।

हिंदी विभाग के लिए माननीय प्राचार्य डॉ. झुंजाररावजी तथा उपप्राचार्य डॉ. नयना कुलकर्णीजी की ओर से मिलनेवाले सहयोग के लिए उनके प्रति विशेष धन्यवाद व्यक्त करते हैं।

- प्रा. सुनीता पुरोहित (हिंदी विभागाध्यक्ष)

#### Department of History

Dr. Manda K. Admane

- 1) Attended the NSS camp 9th to 12th Dec. 2013, and wrote an article "History of Phulgaon" for N.S.S.
- 2) Attended International two days seminar in Pune University from 13th to 15th December 2013, on "Intersections Routs and Marts in the Pre-Modern Asian World."
- 3) 25th Dec. 2013 - Tulapur Historical trip with F.Y.B.A. students.
- 4) Harihareshwar - Historical trip with S.Y., T.Y.B.A. students on 19th Jan. 2014.
- 5) On 15th Feb. 2014 Historical trip with F.Y.B.A. to Sinhgargarh.
- 6) 31st Jan. 2014 - In memory of mother, S.Y.B.A. student Satish Chanurkar was felicitated with books.

- Dr. Rajesh Kulkarni  
Head



## मराठी विभाग

मराठी भाषेची आवड विद्यार्थ्यांमध्ये अधिकाधिक निर्माण व्हावी, मराठी भाषेमध्ये विद्यार्थ्यांना लेखन करता यावे आणि मराठी भाषेच्या अभ्यासातून नोकरी व्यवसायाच्या अधिकाधिक संधी निर्माण व्हाव्यात यासाठी मराठी विभाग सतत प्रयत्नशील असतो. स्पर्धा, व्याख्याने, विविध उपक्रम आणि चर्चासत्र याद्वारे विद्यार्थ्यांमध्ये प्रबोधन करण्याचे काम विभागातील सर्वच प्राध्यापक करीत असतात. मराठी विभागाचे संशोधन केंद्र सुरू झालेले असून महाविद्यालयीन पातळीवरील पुणे शहरातील हे पहिलेच मराठीचे संशोधन केंद्र आहे. ग्रंथालयांमध्ये अनेक उत्तमोत्तम संशोधनपर ग्रंथ आहेत. प्राध्यापक आणि विद्यार्थी या ग्रंथालयाचा चांगला उपयोग करून घेत आहेत.

मराठी पदव्युत्तर वर्गांमध्ये दोन्ही वर्गांची विद्यार्थीसंख्या ६१ इतकी आहे. श्रेयांका पद्धतीची अंमलबजावणी प्रथमतःच होत असून विद्यार्थ्यांच्या नियमित परीक्षा होत आहेत. मराठी विभागाने दरवर्षीप्रमाणे या वर्षीही व्याख्यान परिषद, हस्ताक्षर स्पर्धा, निबंधलेखन स्पर्धा, वक्तृत्व स्पर्धा आयोजित केलेल्या होत्या. इंग्लिश-मराठी अनुवाद वर्गाचे हे तिसरे वर्ष असून हा एक वर्षाचा पदविका वर्ग यशस्वीरित्या घेण्यात आला.

‘मराठी विनोदी कथा’ या विषयावर डॉ. द. ता. भोसले यांचे व्याख्यान १२ सप्टेंबर २०१३ रोजी आयोजित करण्यात आले. मराठी विनोदी कथेचा इतिहास आणि परंपरा विशद करीत त्यांनी विनोदाचे वेगवेगळे प्रकार सांगून विद्यार्थ्यांना मार्गदर्शन केले. डॉ. भोसले याप्रसंगी म्हणाले, “हास्यामुळे मानवी जीवनात आनंद फुलता, त्यातून व्यक्तिमत्त्वाचा विकास होतो आणि मानवी जीवनातील ताणतणाव कमी होण्यास मदत होते.” या कार्यक्रमाचे प्रास्ताविक डॉ. स्नेहल तावरे यांनी केले आणि आभार डॉ. मधुरा कोराबे यांनी मानले.

‘माझी जडणघडण’ या अनोख्या विषयावर एकदिवसीय राज्य परिषद पुणे विद्यापीठ आणि मॉडर्न महाविद्यालयाच्या मराठी विभागाने बुधवार दि. २६ फेब्रुवारी २०१४ रोजी आयोजित केली. या परिषदेला महाराष्ट्रातील विविध महाविद्यालयातून १४० प्राध्यापक आणि १६० विद्यार्थी उपस्थित होते. इतर महाविद्यालयातील विद्यार्थ्यांचा प्रतिसादही चांगला होता. या परिषदेचे उद्घाटन प्रा. फ. मु. शिंदे, अध्यक्ष अखिल भारतीय मराठी साहित्य संमेलन यांच्या हस्ते झाले. मा. प्रा. डॉ. गजानन एकबोटे परिषदेचे अध्यक्ष म्हणून आणि प्रमुख पाहुणे म्हणून डॉ. नागनाथ कोतापल्ले, माजी कुलगुरु औरंगाबाद विद्यापीठ, प्रा. सौ. ज्योत्स्ना एकबोटे, सदस्य नियामक मंडळ प्रो. ए. सोसायटी, सचिव प्रा. श्यामकांत देशमुख, प्राचार्य डॉ. राजेंद्र झुंजारराव आणि मराठी विभाग प्रमुख डॉ. स्नेहल तावरे उद्घाटन समारंभात व्यासपीठावर उपस्थित होते. महाराष्ट्रातून आलेल्या

अनेक प्राध्यापकांनी आपली जडणघडण दुपारच्या सत्रात थोडक्यात मांडली. या सत्राचे अध्यक्ष डॉ. द. जा. भोसले आणि प्रमुख पाहुणे म्हणून डॉ. प्र. स. गावडे उपस्थित होते. समोरापाच्या सत्राचे अध्यक्ष श्री. उत्तम कांबळे आणि प्रमुख उपस्थित अधिष्ठाता डॉ. अशोक चासकर व अधिष्ठाता डॉ. गौतम भोंग यांची होती. या परिषदेचे प्रास्ताविक आणि आभार डॉ. स्नेहल तावरे यांनी केले. तयार सूत्रसंचालन डॉ. मधुरा कोराबे, डॉ. वैजयंतीमाला जाधव आणि प्रा. वैशाली आहिर यांनी केले. पदव्युत्तर मराठीच्या विद्यार्थ्यांनी मोलाची मदत केली. विशेषतः सोनाली अंभरे हिने परिषदेसाठी मराठी विभागाने ही परिषद आयोजित केली. विभागाच्या नेहमीच्या प्रथेनुसार कोणाकडूनही नोंदणी शुल्क घेतले नाही. तसेच परिषदेच्या उद्घाटनप्रसंगी पुस्तक प्रकाशित करण्याची मराठी विभागाची परंपरा यावर्षीही पाळण्यात आली. ‘माझी आई’ या विषयावर विद्यार्थी आणि प्राध्यापक यांनी लिहिलेल्या पुस्तकाचे संपादन डॉ. स्नेहल तावरे यांनी केले. ‘माझी जडणघडण’ या परिषदेमध्ये ‘माझी आई’ चे प्रकाशन प्रा. डॉ. गजानन एकबोटेसर, प्रा. फ. मु. शिंदे, प्रा. सौ. ज्योत्स्ना एकबोटे आणि मान्यवरांच्या हस्ते करण्यात आले. हे पुस्तक मा. प्रा. सौ. ज्योत्स्ना एकबोटे यांना विद्यार्थ्यांच्या वतीने अर्पण करण्यात आले. अनेकांना या पुस्तकामुळे आपल्या आईवर लिहिल्याचे समाधान मिळाले.

मराठी भाषा दिन आणि कुसुमाग्रज यांच्या जन्मदिनाचे औचित्य साधून आयोजित केलेल्या हस्ताक्षर स्पर्धेत खालील विद्यार्थ्यांची निवड करण्यात आली -

- १) श्री. श्रीकांत कुलकर्णी
- २) श्री. रोशन ठाकूर
- ३) डॉ. संयोगिता नाईक
- ४) श्रीमती नयना पाचारे
- ५) श्रीमती उर्मि निवर्गी

मराठी विभाग आयोजित वक्तृत्व स्पर्धेमध्ये ‘आपली उत्सवप्रियता, ध्वनिप्रदूषण, एक पेठ एक गणपती उद्योग-व्यवसाय आणि उत्सवप्रियता’ या विषयांवर विद्यार्थ्यांनी भाग घेतला. खालील विद्यार्थ्यांना डॉ. स्नेहल तावरे यांच्यातर्फे पारितोषिक म्हणून पुस्तके देण्यात आली -

- १) तेजश्री जाने
- २) नीता पेंढारी
- ३) रामेश्वर ढोकपाटील
- ४) दीपक निरुखे
- ५) कविता करवंदे



## मराठी विभागाच्या प्राध्यापकांची कामगिरी -

### डॉ. स्नेहल तावरे -

- १) मणिरत्न आदर्श शिक्षक गौरव पुरस्कार - २ ऑगस्ट २०१३.
- २) 'आदिवासी साहित्य : स्वरूप आणि व्याप्ती' या विषयावरील घोडेगाव महाविद्यालयाच्या राष्ट्रीय चर्चासत्राच्या प्रमुख पाहुणे ३१ जानेवारी २०१४.
- ३) 'शोध निबंध लेख आणि प्रकल्प लेखन' या विषयावर सी. के. गोयल महाविद्यालय, दापोडी येथे दि. ८ फेब्रुवारी २०१४ रोजी व्याख्यान.
- ४) देसाई महाविद्यालयाने आयोजित केलेल्या भाषिक महोत्सवाचे उद्घाटन दि. १३ फेब्रुवारी २०१४.
- ५) 'हलचल' या ह. स. निपुणगे यांच्या आत्मचरित्रपर पुस्तकाबद्दल त्यांची मुलाखत दि. २३ फेब्रुवारी २०१४ रोजी घेतली.
- ६) 'मराठी भाषा दिन' स्वराज महाविद्यालय, पुणे यांनी आयोजित केला, तेथे २५ फेब्रुवारी २०१४ रोजी 'मराठी भाषेचे महत्त्व' या विषयावर व्याख्यान दिले.
- ७) पदव्युत्तर मराठी अभ्यासक्रमाच्या चर्चासत्रामध्ये भेंडे येथील महाविद्यालयात ८ मार्च २०१४ रोजी उद्घाटनपर भाषण.
- ८) शारदाबाई पवार महाविद्यालयात पदवीपूर्व मराठी अभ्यासक्रमाच्या चर्चासत्राचे उद्घाटन आणि भाष दि. १२ मार्च २०१४.
- ९) मॉडर्न महाविद्यालयात 'माझी आई' या संपादित पुस्तकाचे प्रकाशन दि. २६ फेब्रुवारी २०१४.
- १०) बालवडकर कनिष्ठ महाविद्यालय, बालेवाडी येथे 'ग्रंथ महोत्सवाच्या' निमित्ताने दि. २६ मार्च २०१४ रोजी मुलाखत घेण्यात आली.
- ११) शाहू महाविद्यालय येथे ११ ऑक्टोबर २०१३ रोजी नेटसेटबद्दल व्याख्यान.
- १२) मंचर महाविद्यालयाच्या चर्चासत्राच्या समोराप सत्राचे अध्यक्ष म्हणून १९ ऑक्टोबर २०१३ रोजी व्याख्यान.

### - डॉ. मधुरा कोरात्रे

- १) नाट्यगंध - नाट्यविषयक लेखसंग्रहाचे पुस्तक प्रकाशित (यशवंत पब्लिशिंग हाऊस, नाशिक, २०१३)
- २) 'याच दिवशी याचवेळी' या दोन अंकी नाटकाचे नाट्यवाचन (विद्यावाणी, पुणे विद्यापीठ)
- ३) 'नीहार', 'चैत्राली' या दिवाळी अंकामधून नाट्यसमीक्षमात्मक लेखन.
- ४) 'आई' या पुस्तकात 'माझी आई' विषयक लेख प्रसिद्ध.

## डॉ. वैजयंतीमाला जाधव

- १) 'अरुण कोल्टकरांची भिजकी वही' ॥ लेख शौर्यभूमी या आंतरराष्ट्रीय मासिकात प्रसिद्ध.
- २) 'महाराष्ट्रातील स्त्री सुधारणा चळवळी' या विषयावर मिरज महाविद्यालय, मिरज येथील 'Cotemporary Movements in Modern Maharashtra' या राष्ट्रीय चर्चासत्रात निबंधवाचन.
- ३) मॉडर्न महाविद्यालय व स्नेहवर्धन प्रकाशन यांच्या संयुक्त विद्यमाने प्रकाशित पुस्तक 'माझी आई' यामध्ये 'माझी शिस्तप्रिय आई' हा लेख प्रसिद्ध. मार्च २०१४.
- ४) 'मराठी कवितेतील मन' या विषयावर 'प्रतिबिंब' या मासिकात लेख प्रसिद्ध.
- ५) 'आदिवासी मराठी कविता' हा निबंध घोडेगाव येथील काळे महाविद्यालयातील आदिवासी साहित्यावरील राष्ट्रीय चर्चासत्रात सादर.
- ६) 'संत कविता आणि जीवनमूल्ये' हा लेख नाशिक महाविद्यालयच्या राष्ट्रीय चर्चासत्रात सादर.

- डॉ. स्नेहल तावरे,

मराठी संशोधन केंद्र व मराठी पदव्युत्तर विभाग प्रमुख

## राज्यशास्त्र विभाग

शैक्षणिक वर्ष २०१३-१४ मध्ये इयत्ता १२वीच्या नवीन अभ्यासक्रम; प्रथम वर्ष कला नवीन अभ्यासक्रम सुरू झाले आहेत. त्यानिमित्त इयत्ता १२वी राज्यशास्त्र विषयाच्या नवीन अभ्यासक्रमाच्या प्रशिक्षणासाठी प्रा. गीताराम गायकवाड २७-२८ जुलै २०१३ रोजी कासार अंबोली, ता. मुळशी, जि. पुणे येथे गेले होते.

पुणे विद्यापीठ, राज्यशास्त्र विभागाने आयोजित केलेल्या प्रा. राजीव भार्गव, दिल्ली विद्यापीठ यांच्या व्याख्यानास प्रा. विष्णूश्री मंगले हे उपस्थित होते. त्यांचे व्याख्यान "Two Concepts of Secularism" या विषयावर होते. 'विचारशलाका' या त्रैमासिकात प्रा. विष्णू श्रीमंगले यांनी 'भारतातील कचरा समस्या - स्थिती आणि उपाय' या विषयावर लेख लिहिला. Foundation for Labour and Employment Promotion 'Bangkok, Thailand' २२-२३ मार्च २०१४ मध्ये Asian Regional Consultation Workshop आयोजित होणार आहे. त्या कार्यशाळेला प्रा. विष्णू श्रीमंगले उपस्थित राहणार आहेत.

- प्रा. खोकले डी. एल.

विभाग प्रमुख



## Department of Psychology

During the academic year 2013-14, the department of Psychology organized various co-curricular activities. These activities were beneficial for developing skills among the students.

- ❖ **Teacher's Day Celebration**- Cultural program arranged by students dedicated for teachers.
- ❖ **Film Show**- screening of films like "Devrai" and "Shutter Island", followed with discussions with experts.
- ❖ **Presentations by under-graduate students**- organized and supervised by Smt. Vijaya Jagtap and Sumedha Kshirsagar.
- ❖ **Quiz competition** for post graduate students on Statistical Methods & Psychological Testing organized and supervised by Dr. Vaishali Mardhekar and Mr. Sairaj Patki on occasion of **Mental Health Day**.
- ❖ **Guest lecture** by Dr. Bhuvanesh Awasthi on Neurocognitive Science.
- ❖ **Certificate course on HIV/AIDS** - Counseling by Dr. Ujjwal Nene.
- ❖ **Study tour**- 23 students of PG section visited Delhi and Agra and attended the National Seminar on "Hypnotherapy- Master of Mind", organized by Society of Hypnotherapy at JNU: New Delhi.
- ❖ **Study Visit**- for PG students- a visit to Kripa Foundation De-addiction Centre.
- ❖ **Study Visit**- for UG students- a visit to Sampark Balgram Orphanage, Bhaje organized by Apeksha Gawade and Sumedha Chandekar.
- ❖ **Parents' Meeting** was arranged to inform the parents about the newly introduced Credit System & Study Tour of Delhi.
- ❖ **Regular Interaction** with the **Past Students** of the Department - sharing work experience and guidance to the juniors.
- ❖ **Excellent placements** of the post graduate students at various posts like lecturers, researchers, counselors, special educators, rehabilitation officers, HR managers in various organizations.
- ❖ **Result Analysis**: In the academic year 2012-13, all T.Y.B.A. students successfully cleared the exams and for M.A. students success rate was 91%.
- ❖ Organized a **Syllabus Revision Workshop** for S.Y.B.A. and S.Y.B.Sc., which was funded by BCUD, Pune University. The members of BOS

psychology and psychology teachers from Pune, Ahmednagar and Nasik participated and provided their valuable suggestions.

- ❖ **Series of workshops** organized by the department as a pre activity for Counseling Camp as follows:

No.	Speakers	Topic
1	Mr. Tonmoy Haldar	Dance Therapy
2	Dr. Ujjwal Nene	Rorschach Administration
3	Mrs. Vanita Jadhav	Geriatric Counseling
4	Mr. Pawan Gaikwad	School Counseling
5	Smita Dongare & Anuja Kolhatkar	Soft Skills
6	Dr. Shreeram Geet	Career Counseling
7	Mr. Shankar Khedkar	Yoga Therapy
8	Mr. Indrajeet Deshmukh	Drug Addiction & Rehabilitation

### ❖ Achievements of Teachers:

#### **Dr. Amruta Oke-**

- 1) Was awarded Ph.D. degree. The topic for the Ph.D. Thesis was-"Impact of Personality, Parenting and Interests on Effective Career Decision Making."
- 2) Co- authored a book titled "Psychology: The Science of Behavior" which was published by Pearson Education.
- 3) Delivered a lecture on Career Counseling at State Level Conference at New Arts Commerce and Science College, Ahmednagar.
- 4) Presented the Ph.D. research for the Staff Academy, Modern College, Pune-05.
- 5) Invited as a Member of MA Syllabus Revision Sub Committee.
- 6) Successfully organized Workshop for teachers on S.Y.B.A. and S.Y.B.Sc. Syllabus Revision.

#### **Smt. Vijaya Jagtap-**

- 1) Completed a Certificate course - Career Mitra.
- 2) Published Paper in the proceedings of State level conference held at Barshi, titled "Creativity in Adolescents".

#### **Smt. Smita Vaidya-**

- 1) Organized study tour for post graduate students at New Delhi.
- 2) Attended National Seminar on "Hypnotherapy- Master of Mind", organized by Society of Hypnotherapy at JNU: New Delhi.
- 3) Participated and was a member of the Winner Team in the Inter-Institute Dodge Ball & Throw Ball competitions organized as a celebration of Kanitkar Day.



- 4) Participated in Workshop on "Choice based Credit System" organized by New Arts Commerce and Science College, Ahmednagar.

#### **Mrs. Shradha Sakatkar-**

- 1) Paper published in National Seminar on "Emotional Intelligence and Youth". Title of the paper- "A study of Parenting Styles, Academic Performance and Emotional Intelligence of Students".
- 2) Participated in State level seminar 'Counseling and Psychotherapy' organized by New Arts Commerce and Science College, Ahmednagar.
- 3) Delivered a talk to F.Y.B.Sc. students on "Counseling Awareness".
- 4) Interviewed on Radio Nagar 90.4 FM channel regarding Counseling and its Importance.
- 5) Conducted a "Study Skills Workshop" for Science teachers on the Science Day.
- 6) Participated as a Captain and the team won the Inter-Institute Dodge Ball & Throw Ball competitions organized as a celebration of Kanitkar Day.

#### **Mr. Sairaj Patki-**

- 1) Organized study tour for post graduate students at New Delhi.
- 2) Attended National Seminar on "Hypnotherapy-Master of Mind", organized by Society of Hypnotherapy at JNU: New Delhi.
- 3) Invited as Judge for Inter collegiate debate competition "Waxing Eloquent" at Symbiosis college of Arts and Science.

#### **Smt. Sumedha Chandekar-**

- 1) Qualified the NET examination in Psychology held in June 2013.
- 2) Was invited as a Resource person for the Soft Skills Development Program for Commerce students of Modern college, Pune-5.
- 3) Was invited as a Judge for the Audio-Visual Competition organized by Department of Commerce of our college.
- 4) Was invited as a Judge Mad-Ad Competition organized by Department of English of our college.
- 5) Was invited as a Guest Speaker for Stress Management by the Department of Electronics.

#### **Smt. Apeksha Gawade-**

- 1) Invited as a Resource person for the Soft Skills Development Program for Commerce students.
- 2) Invited as a Guest Speaker for Stress Management by the Department of Electronics.

#### **❖ Students Achievements:**

- 1) Sangeeta Pujari- T.Y.B.A. bagged a consolation prize in State level Competition on General Knowledge in Psychology, organized by KBP College, Islampur.
- 2) T.Y. and S.Y. B.A. students attended the State level Competition on General Knowledge in Psychology, organized by KBP College, Islampur.
- 3) Harpreet Gala (M.A.II), Anish Gokhale (M.A.I), Preeti Sarpotdar (T.Y.B.A.) and Ankit More (S.Y.B.A.) participated in the Intercollegiate Quiz Competition organized by Wadia College, Pune.
- 4) Preeti Sarpotdar- TYBA bagged the second prize for acting in Intercollegiate Hindi Drama Competition organized by Rashtrabhasha Sabha.
- 5) Post graduate students participated in State level seminar organized by New Arts Commerce and Science College, Ahmednagar.
- 6) Vedangi Kulkarni- T.Y.B.A. student bagged the consolation prizes for the "Natya-Vachan" competition organized by Kala Mandal, Modern College, Pune.
- 7) Prasad Chaubal- T.Y.B.A. student bagged the prize for Mono- Act, organized by Kala Mandal, Modern College, Pune.
- 8) Pradip Shinde, Kiran Mahske, Sachin Khole, Vilas Mahadik, Satish Kshirsagar, Shankar Khedkar and Shambhuraje Shinde attended the National Conference on "Behavior of the Aged" organized by S.G.M. College, Karad.

❖ Smt. Neeta Pachange- lab assistant; Mr. Suresh Jadhav and Mr. Arun Shindekar- lab attendants; and Vijay Bhadakawad- student from the Earn and Learn Scheme have always cooperated in the smooth functioning of our department.

- **Dr. Amruta Oke**, Head

### **Department of Biotechnology**

In the year 2013-14 the department of Biotechnology organized various activities viz Biotech Fest, lecture series, workshop on PCR techniques, etc. The department also organized various field visits and study tours to give industrial exposure to students as a mandatory part of their syllabus :

No.	Class	Visit	Date
1	S.Y.B.Sc.	Serum Institute and KF Bioplants.	14 <sup>th</sup> Feb 2014
2	T.Y.B.Sc.	Lavasa city	Oct 2014
3	T.Y.B.Sc.	Wine industry	Jan 2014
4	M.Sc. II	BAIF	Sept 2014



On-going research projects in the department are as follows:

**Dr. Rebecca Thombre** - Halophilic bacterial diversity of west coast of India - 2 years 2013-2015 ISRO-UOP 16,04,000/-

**Dr. P. P. Kanekar (CSIR Emeritus scientist)**  
Exploring halophiles from west coast of India for production of bacteriorhodospin, a novel protein capable of converting light energy into electrical energy. 3 years 2013-2016 CSIR 7,62,000/-.

#### **Achievements of Teachers:**

##### **Dr. Sangeeta Bhagat**

- Poster presentation in the national symposium on Biomedicine: Unfolding the secrets of nature 'Study of antibacterial, antioxidant & tyrosinase inhibitory activity of Aloe Vera', on 10<sup>th</sup> and 11<sup>th</sup> Jan 2014, at IBB University of Pune, Pune.
- Organized Lecture series on 'Advanced Techniques in Genomics and Proteomics' on 7<sup>th</sup> March. 2014 at Department of Biotechnology for P.G. students and other staff members Dr. Gitangali Litke, Dr. Sangeeta Sathaye were also involved in the activity.
- Worked as organizing secretary for 'Biotech Fest' on 15-16<sup>th</sup> Jan. 2014 at Dept. of Biotechnology.

##### **Dr. Rebecca Thombre**

- **Reviewer India Journal of Biotechnology (IJBT), Springer. (2014)**
- Project on "Halophilic biodiversity of West Coast of India" worth Rs. 16,04,000/- sanctioned by Indian Space Research Institute, ISRO-University of Pune. (2013-2015).
- **Is invited Speaker** for international conference on Biomarkers at **St. Hilda's College, Oxfordshire, Oxford University, UK** on 'Plant peptide lectin coated silver nanoparticles for targeted delivery of drugs against carbohydrate antigen expressing cancer cells' (April 2014).
- Attended workshop organized by **American Society of Microbiology** and Association of Microbiologist of India at Modern College, Shivajinagar, Pune-5.
- Was invited Speaker at Vasundhara Festival organized by Fergusson College, Pune. (Feb 2014).
- **Joint organizing secretary for International conference** on Conservation of Environment by using new technologies (ICECANT-2014) organized by Modern College, Pune-5. (January 2014).

- **Best oral paper award** at national conference on e-Waste Management, PES, Modern College, Pune-5 (23-24 December 2013).

- **Biotech Research Society of India-Best Poster Award** at international conference on Bioinformatics and Biotechnology organized by Biotech Research Society of India, at Le Meridian, Pune. (25-27 November 2013).

##### **Dr. (Mrs.) Shubhangi S. Puranik**

- Attended a meeting at 'Maratha chamber of Commerce' Bhosari, Pune on 11<sup>th</sup> March 2013.
- Organized & chairperson of '**Industry-Academia Meet**' in our college on 14<sup>th</sup> March 2014.
- Co-coordinator for Biorangoli for P.G. sectional at **Biotech Fest** on 15-16<sup>th</sup> Jan. 2014 at Dept. of Biotechnology.

##### **Mrs. Rama Phadke**

- Organized skill development workshop in PCR techniques for T.Y.B.Sc. life science students funded by DBT STAR college, on 27-28<sup>th</sup> March 2014 at Department of Biotechnology.
- **Co-coordinator for poster session for U.G. at Biotech Fest** on 15-16<sup>th</sup> Jan. 2014 at Dept. of Biotechnology.
- Attended the international workshop and national seminar on Crystallography organised by JNU Delhi in Nov 2013.
- Organized visit for S.Y.B.Sc students at Serum Institute and K.F. Bioplant.

##### **Mr. Ravi L. Dabhade.**

- Submitted BCUD minor research project entitled 'Green synthesis of metal nanoparticles using bacteria and studies on nitrate reductase.'
- Registered for Ph.D. at Division of Biochemistry, Department of Chemistry, University of Pune.
- **Coordinator for quiz competition at Biotech Fest** on 15-16<sup>th</sup> Jan. 2014 at Dept. of Biotechnology.
- Organized M.Sc. visit at BIAF

##### **Dr. Litake G.M.**

- A review article published: Joshi SG, **Litake GM.** (2013) *Acinetobacter baumannii*: An emerging pathogenic threat to public health. *World J Clin Infect Dis* 3(3):25-36.
- Organized skill development workshop in PCR techniques for T.Y.B.Sc. life science students funded by DBT STAR College, on 27-28<sup>th</sup> March 2014 at Department of Biotechnology.
- One of the Coordinators for '**Biotech Fest**' on 15-16<sup>th</sup> Jan. 2014 at Dept. of Biotechnology.



- AMI-ASM Workshop on 'Art of Science Communication' on 22<sup>nd</sup> Jan. 2014 at Modern College.
- Attended NSS camp at Phulgaon.
- Organized M.Sc. visit at BIAF

#### **Dr. Sangeeta Sathaye**

- **Coordinator for poster session for P.G. at Biotech Fest** on 15-16<sup>th</sup> Jan. 2014 at Dept. of Biotechnology.
- Organized lecture on 'Credit system implementation' by Dr. Saroj Ghaskadbi on 7<sup>th</sup> Sept. 2013 for faculty and PG students at Department of Biotechnology.

#### **Dr. Sharad Goswami**

- Coordinator for Biorangoli session for **Biotech fest** on **Feb 2014** in Dept. of Biotechnology.

#### **Achievements of F.Y.B.Sc students:**

1. Shubham Magdum & Nishi Roy – 1<sup>st</sup> Gold Medal in Botanica Wadia College.
2. Shubham Magdum & Nishi Roy – 1<sup>st</sup> Gold Medal in Biofest Wadia College.
3. Pratik Dudhal & Christeena Shaji – 3<sup>rd</sup> Bronze trophy in Biofest at Rajmata Jijau College, Bhosari.

#### **Achievements of S.Y.B.Sc**

S.Y.B.Sc students participated in different competitions:

4. Athith Chitnis, Yash Bogavat, Vedant Kadam – Biotech Fest 2014- 1<sup>st</sup> Prize in Quiz.
5. Preetam Patil, Raheen Shaikh, Neha , Revati Fulmandikar – 1<sup>st</sup> prize in poster – Topic: Vitamin B12.
6. Yash Bogavat , Atith Chitnis, Vedant Kadam, Abhijeet Kale – International conference on Advances in Biotech & Bioinformatics organized by BRSI.
7. Atith Chitnis & Yash Bogavat selected for best project category in Avishkar (2013-14)
8. Vedant Kadam, Yash Bogavat – Best NSS volunteers
9. Samruddhi Zende – Selected as UR of Modern College

#### **Achievements of M.Sc students:**

1. Rituja Pandhre & Aparajita Kulkarni – 1<sup>st</sup> prize in Biorangoli, Biofest.
2. Vinaya Shinde & Ankita Deokar – 2<sup>nd</sup> prize in poster presentation Biofest.
3. Meenu Kuman & Balkrishna Talwar – 1<sup>st</sup> prize in poster presentation in Biotechfest.
4. All M.Sc. I participated in conference ICECANT- January 2014.

5. Vrushali Papule & Nikita Vaidya – Poster presentation, University BBM, University of Pune.
6. Elvina Joseph & Meenu Kuman received Leela Poonawalla Scholarship.
7. Rituja Pandhre & Priyanka Shirke – Poster presentation, Botany Fest, Nowrosjee Wadia College.
8. Renuka Joshi, Prajkta Tambe and Sakyla Chavan qualified for GATE 2014.

- **Dr. Sangeeta Bhagat**, Head

### **Department of Botany**

The department of Botany has always tried to impart quality education at junior, senior, post-graduate, doctoral research and Post Doctoral Research levels. The LCD projectors are installed in undergraduate and postgraduate laboratories. It was possible to show various presentations, animations and specimens to make the teaching interesting to the students. This year the number of students enrolled for the Botany is XI: 246; XII: 236; F. Y. B. Sc: 150; S. Y. B. Sc: 96; T.Y. B. Sc: 31 and M.Sc I, II – 50.

#### **Departmental Activities**

- i) Many field trips were organized for T.Y.B.Sc and M.Sc students to develop and increase their interest in Taxonomy of plants.
- ii) A six months remedial course was conducted by the Botany department for S. Y. B. Sc. Students in 'Plant Tissue Culture'. 12 students participated in the course. The duration of the course was from July 2013- December 2013.
- iii) Under the guidance of Dr. R.S.Zunjarrao in the month of January 2014, the department of Botany had organized an intercollegiate photography competition based on the theme 'Landscapes'. Dr. Rajkumar Barmukh coordinated this event. About sixty participants, students as well as teachers, from various colleges participated in this competition and about 125 photographs were displayed in the exhibition.
- iv) The department organized Flower arrangement competition and model competition on 6<sup>th</sup> and 7<sup>th</sup> February 2014. Around 160 students participated in both the events.

#### **Different Courses conducted by Department**

- i) Certificate course in Seed Technology was conducted by Prof. Arti P. Goggi.



**List of professors invited as guest lecturers for M. Sc. course.**

- i) Dr V.D.Ranade, Retd. Head, Botany Department, Garware College, Pune.
- ii) Dr. Bonde, Agharkar Research Institute, Pune.

**Study Tours and Excursion**

- i) A local Botanical excursion tour was organized by the department in September 2013 for F.Y. B. Sc. Botany students to Tamhini ghat for studying plant diversity and also for collection of plants.
- ii) A Botanical excursion tour was organized at Mahabaleshwar for the students of S. Y. B. Sc. in the month of February 2014 for observation of Angiospermic and other plants.
- iii) A Three day excursion tour was arranged at Amboli and Malvan for the students of T.Y.B.Sc. for the collection and study of marine algae in the month of January 2014.
- iv) A short visit to the Plant Tissue Culture Laboratory of the department of Biotechnology of our college was organized for the students of S. Y. B. Sc. in the month of February 2014.
- v) A visit was arranged for T. Y. B. Sc students to Haribhau Parshuram Aushadhalaya Sadashiv Peth -Pune, Plant Breeding Station of ARI, Seed Testing Lab, Seed processing unit.
- vi) A visit was arranged to Dive-Agar, Harihareshwar for M.Sc. I students in the month of September 2013 to observe the algal diversity.
- vii) A one day visit to Mahabaleshwar was arranged for M.Sc. II students in the month of March 2014.
- viii) Visit to Hyderabad to visit ICRISAT and CCMB in the month of February 2014 of MSc II.

**Staff Achievements**

**Undergraduate Wing**

**Dr. R. S. Zunjarrao, Head**

- a. Completed research project entitled "*Bio-ecological and Bio-chemical approach to assess Bryophytes - Pigmy Locust Association*". **SR/SO/S-42/2008** funded by Department of Science and Technology, New Delhi. Total fund received for this project was Rs. 39,52,500/-.
- b. Working as principal investigator of a major research project entitled 'Developing a Digital Herbarium of Angiospermic Plants of The Western Ghat Regions of Maharashtra.', sanctioned funds of Rs. 9,86,750/-
- c. Convener 'International Conference on Environment Conservation by adopting New Technologies' organized by Modern College,

Shivajinagar, Pune 411005 on 28<sup>th</sup> and 29<sup>th</sup> January 2014.

**Research paper published:**

1. **Zunjarrao R. S. and Gopale K. D.** (2013) "Evaluation of Genetic Diversity of *Jatropha Curcas* L. Using RAPD Marker in Maharashtra" *Int. J. Pure Appl. Sci. Technol.*, 14(2), pp. 142-154. (**Impact factor 0.36**).
2. **Zunjarrao R. S., Pande A. K., Gopale K. D., Phalke Mayuri, Joshi Onkar, Kindre Anita, and Paranjpe S. Y.** (2013) Studies on the Survey and Natural History of Tetrigids (Family-Tetrigidae, Sub order- *Caelifera*, Order- *Orthoptera*) (Accepted).

**e. Book published:**

"**Diversity and propagation studies of *Jatropha curcas* L.:A Biodiesel plant,**" has been published by LAP LAMBERT Academic Publishing is a trademark of: AV Akademikerverlag GmbH & Co. KG Heinrich-Böcking-Str. 6-8,6121, Saarbrücken, Germany. ISBN 978-3-659-28960-6.

**Dr. N. M. Patil**

Organizing Secretary of 'International Conference on Environment Conservation by adopting New Technologies' organized by Modern College, Shivajinagar, Pune 411005 on 28<sup>th</sup> and 29<sup>th</sup> January 2014.

**Dr. R.B. Barmukh**

- a. Worked as a member of a sub-committee formed by the Board of Studies in Botany, for framing of the S. Y. B. Sc. Botany syllabus to be implemented from the academic year 2013-2014.
- b. Attended a one-day workshop at Anatrao Pawar Mahavidyalaya, Pirangut, Pune, on the proposed syllabus of Botany at F. Y. B. Sc., which is to be implemented from the academic year 2013-2014.
- c. Attended a one-day workshop at Radhabai Kale Mahila Mahavidyalaya, Ahmednagar, on the proposed syllabus of Botany at F. Y. B. Sc., which is to be implemented from the academic year 2013-2014.
- d. Attended a one-day workshop at New Arts, Science and Commerce College, Ahmednagar on the proposed syllabus of M.Sc. Botany (Credit System) which is to be implemented from the academic year 2013-2014.
- e. Co-investigator of a research project entitled 'Developing a Digital Herbarium of Angiospermic Plants of The Western Ghat Regions of Maharashtra'.



- f. Coordinated intercollegiate photography competition.

#### **Prof. U. R. Wayase**

- a. Attended a one-day workshop at Radhabai Kale Mahila Mahavidyalaya, Ahmednagar, on the proposed syllabus of Botany at F.Y.B.Sc., which is to be implemented from the academic year 2013-2014.
- b. Completed a refresher course in life sciences at the department of Botany, University of Pune, Pune, with 'O' Grade and stood first in the batch of 34 participants.
- c. Coordinated and conducted a certificate course in plant tissue culture course for the students of S.Y.B.Sc. Botany.
- d. Awarded Ph.D. Degree (Biotechnology) thesis entitled 'Metabolic Engineering for salt tolerance in tomato (*Lycopersicon esculentum* Mill.)' to the University of Pune.

#### **Prof. Arti Goggi**

- a. Conducted and co-ordinated seed technology course for T. Y. B.Sc. and M. Sc. Students.
- b. Guided S.Y. B. Sc. students for BCUD sponsored project competition named "Avishkar".
- c. Participated in national conference entitled, "Exploring Strategies for Enhancement of Secondary Metabolites in Medicinal Plants" conducted at Dept. of Botany, University of Pune.
- d. Presented a poster at the national conference held at IBB, University of Pune, and Yashwantrao Mohite College, Pune

#### **Prof. Aditi Kulkarni**

- a. Participated in National conference entitled, "Exploring Strategies For Enhancement Of Secondary Metabolites In Medicinal Plants" conducted at Dept. of Botany, University of Pune
- b. Conducted Seed technology course for T. Y. B.Sc. and M. Sc. students.
- c. Guided S.Y.B.Sc students for BCUD sponsored project competition named "Avishkar".
- d. Presented a poster at the national conference held at IBB, University of Pune, and Yashwantrao Mohite College, Pune.

#### **Post Graduate Wing**

##### **Dr. K. D. Gopale**

- a. Completed research project entitled "Bio-ecological and Bio-chemical approach to assess Bryophytes - Pigmy Locust Association". **SR/SO/S-42/2008** funded by Department of science and technology New Delhi. Total fund received for this Rs. 39,52,500/-.

- b. Working as principle investigator of a major research project entitled "Fatty Acid Profiling and Molecular Characterisation of Potential Biodiesel Producing microalgae from South India. **SB/FT/LS-403/2012**, funded by department of science and technology New Delhi. Funds received 24,00,000/-.

#### **Research paper published**

1. **Gopale K. D.** and Zunjarrao R. S. (2013) *In Vitro* Culture of *Jatropha curcas* L.: A Biofuel Plant *Int. J. Pure Appl. Sci. Technol.*, 14(2), pp. 46-54. (**Impact factor 0.36**)
2. Zunjarrao R. S., Pande A. K., **Gopale K. D.**, Phalke Mayuri, Joshi Onkar, Kindre Anita, and Paranjpe S. Y. (2013) Studies on the Survey and Natural History of Tetrigids (Family-Tetrigidae, Sub order- Caelifera, Order- Orthoptera) (Accepted)

#### **d. Invited as Guest lecturer:**

1. Modern College, Ganeshkhind Pune- 53 topic "Role of Plant tissue culture in Biotechnology" for M. Sc. Microbiology students on 12/09/2013.
2. Abeda Inamdar College of Arts, Science and Commerce, Pune, topic "Role of Plant tissue culture in conservation" for the T. Y. B.Sc. Vocational Biotechnology on 15/8/2013.

"Diversity and propagation studies of *Jatropha curcas* L.: A Biodiesel plant," has been published by LAP LAMBERT Academic Publishing is a trademark of: AV Akademikerverlag GmbH & Co. KG Heinrich-Böcking-Str. 6-8, 6121, Saarbrücken, Germany. ISBN 978-3-659-28960-6

#### **Prof. Rasika Kulkarni**

- a. Guided M.Sc students for intercollegiate model competition held at Wadia College, Pune on 17<sup>th</sup> and 18<sup>th</sup> January 2014.
- b. Guided M.Sc. students for project competition held at Department of Botany of our college.

#### **Junior wing**

##### **Prof. R. N. Ingole**

1. Worked as convener for Jim Corbette Environment Examination (All India level written examination for Junior college students) held in October 2013.
2. Worked as convener for Brain Bee quiz. It was organized by Neuroscience experts for Junior college students and was held in January 2014.

#### **Prof. Manisha Mandhare**

- a. Worked as a co-ordinator of various competitions & competitive examinations for junior college students. National Science Olympiad, IAPT's



National standard examination in Physics, Chemistry, Biology, Astronomy, and Junior science olympiad.

- b. Attended Biology teachers orientation camp of 4 days at **TIFR** Mumbai Questions set in one of the sessions were selected for first round of National Biology Olympiad Exam.
- c. Worked as a judge for flower arrangement competition organized in Botany department.
- d. Confidential work of **TET** and **MH-CET** exams.
- e. Organised P.E Society's Highschool Science teachers one-day workshop in the department. Highschool student's visit to Biology laboratories and presentations on all science topics in the curriculum of respective classes.
- f. Delivered a lecture in career guidance workshop in P.E Society's Modern boys High school Shivajinagar Pune -5.
- g. Delivered a lecture on career opportunities In Life Sciences to parents of class VIII, IX and X, provided information of different national institutes and colleges, gave guidelines of different entrance examinations and their preparations for seeking admission in those institutes.

#### Students' Achievements

- a. Two students of S.Y. B. Sc. Botany, Mr. Aniket Phadtare and Mr. Makrand Toradmal presented a poster at Avishkar zonal level project competition on December 10<sup>th</sup> 2013 held at Modern College, Ganeshkhind, Pune-53.
- b. Four students of S.Y. B. Sc. Botany, Ms. Ashwini Kamble, Ms. Bhavana Shirke, Ms. Sheetal Kalgaonkar, Ms. Sonali Shedge presented a poster at national level conference on February 11<sup>th</sup> 2014 at Dept. of Botany, University of Pune.
- c. Following students obtained prizes in the Flower arrangement completion and model competition.

#### Flower arrangement competition:

1<sup>st</sup> prize: Mangesh Shinde, Rupesh Shinde, Rupesh Dhumal, Vijay Sangle  
 2<sup>nd</sup> prize: Sonali Shedge, Sheetal Kalgaonkar, Ashwini Kamble, Bhavana Shirke  
 3<sup>rd</sup> prize: Prachi Argade, Neeta Dongre, Shamal Tapkir  
 Consolation prize: Manisha Nirphal, Gayatri Tingre

#### Model competition:

1<sup>st</sup> prize: Pranjal Shinde, Aditi Bhujbal, Pratiksha Pharande, Krutika Tupe  
 2<sup>nd</sup> prize: Soma Shaikh, Mayuri Dagale, Ashwini Gaikwad

3<sup>rd</sup> prize: Prachi Argade, Neeta Dongre, Shamal Tapkir, Neha Mulay, Tejaswini Awad

Consolation prize: Sarita Khetawat, Komal Pawar, Rani Khalade, Shamal Thombre

#### Post graduate section

1<sup>st</sup> prize: Apurva Patodekar

2<sup>nd</sup> prize: Vrushali Telang, Yogita Gangurde

3<sup>rd</sup> prize: Harshada Marathe, Sushma Parhad, Mayura Budhkar

M.Sc. students obtained following prizes at **Intercollegiate competition held at Wadia College** on 17<sup>th</sup> and January 2014.

- a. Ulka Manerikar and Chaitali Salunke got Gold Medal in Flower arrangement Competition.
- b. Deepali Wadverao and Laxmi Bhandari got bronze medal in Flower arrangement Competition.
- c. Apurva Patodekar got silver medal in model Competition.
- d. Pranav Shivangikar got silver medal in Oral presentation.
- e. Sarang Bikol got bronze medal in Oral presentation.
- f. Rucha Bannalikar got silver medal in photography Competition.

- Dr. R. S. Zunjarrao, Head

## Department of Chemistry

#### Departmental activities

1. Ms. Apurva Bhagat achieved 1<sup>st</sup> rank in University in M.Sc. Analytical Chemistry.
2. Guest lecture series for T. Y. B. Sc and M. Sc. students on spectroscopy by Prof. D. D. Dhavale, Head-Department of Chemistry, University of Pune; Prof. N. S. Wadia, Ex Head-Department of Chemistry, University of Pune; and Prof (Mrs.). R.S.Kusurkar, Ex Head-Department of Chemistry, University of Pune.
3. Campus interviews arranged for M. Sc. students of following companies, Lupin Pharma Ltd.- a pharma multinational company, Esolve – online teaching company and Evolvus-online data analysis company.
4. Four M. Sc. students have completed their research project form NCL, CMATE and Department of Chemistry, University of Pune.
5. Get together of past students of Modern College (1987 batch).
6. M.Sc. Analytical chemistry granted second division and total 50 students have been admitted for M. Sc. - I in the year 2013-2014.



7. **Prof. S. S. Sakate** has been granted 'Faculty improvement program' leave to carry out the Ph. D. research at NCL, Pune.
8. **Prof. A. S. Warangule** has been appointed as an assistant professor.

#### Personal Achievements:

##### • **Prof. S. R. Pokharkar, Head**

- Worked as a resource person for oneday workshop for revision of S.Y.B.Sc. Chemistry courses organized by Modern College, Ganeshkhind, Pune.
- Is appointed as a chairman for M.Sc.- II Analytical Chemistry theory and practical examinations by University of Pune.
- Chairman of Library committee, Modern College, Pune 5.
- In charge of students' store (journals), Modern College, Pune 5.
- Attended oneday workshop on Laboratory, health and safety organized by IISER, Pune.
- Attended syllabus restructuring workshop for M.Sc. Chemistry organized by BCUD, University of Pune and Department of Chemistry, University of Pune.

#### Co-author of four books according to revised syllabus (2013)

- 1) S. Y. B. Sc. Inorganic Chemistry
- 2) S. Y. B. Sc. Analytical Chemistry
- 3) S. Y. B. Sc. Practical Chemistry
- 4) M. Sc. (I) Practical Chemistry

##### **Dr. Sushama Joag**

- Worked as a judge at the Interschool Exploring Science Project Competition organized by BVB's Muktangan Exploratory Science Centre, Pune on 27<sup>th</sup> Feb. 2014.
- Was invited to participate in 'Exciting Experiments in Chemistry' demonstration programme organized at IISER, Pune on Science day. She took fifteen students from undergraduate classes for this programme.
- Participated in the workshop on 'Laboratory Health and Safety' at IISER, Pune on 2<sup>nd</sup> April 2014, organized jointly by Royal Society of Chemistry, NCL and IISER Pune.

##### **Prof. R. M. Jagtap**

- Attended one-day Symposium on 'Recent trends in Analytical Chemistry' at H.V.Desai College, Pune on 27<sup>th</sup> August 2013.
- Worked as an Examiner at 'State Level Science Exhibition' at Balbhim College, Beed, organized by Dr. Babasaheb Ambedkar Marathwada University, Aurangabad on 3<sup>rd</sup> September 2013.

- Completed a refresher course in Chemistry with 'A' grade from UGC-Academic Staff College, Pune from 11<sup>th</sup> November to 1<sup>st</sup> December 2013.
- Coordinated a state level 'Science Talent Search' Examination for UG students conducted by Balbhim College, Beed on 14<sup>th</sup> January 2014.
- Registered for Ph. D. programme at Department of Chemistry, University of Pune in November 2013.
- BCUD, University of Pune has sanctioned a minor research project of Rs. 2,30,000 in February 2014.
- Attended a workshop on 'Laboratory Health and Safety' on 2<sup>nd</sup> April 2014 at IISER Pune, jointly organized by IISER, NCL Pune and Royal Society of Chemistry, UK.

##### **Prof (Mrs.). P. B. Suryavanshi.**

- Completed a refresher course in Chemistry with 'A' grade from UGC-Academic Staff College, Pune from 11<sup>th</sup> November to 1<sup>st</sup> December 2013.
- Coordinated a state level 'Science Talent Search' Examination for UG students conducted by Balbhim College, Beed on 14<sup>th</sup> January 2014.

##### **Dr. Kirti D. Badave**

1. Published paper entitled, "Cu(II) conjugation along the transformation of a Vitamin K<sub>3</sub> derivative to a dinaphthoquinone methide radical," Kirti D. Badave, Shalaka S. Patil, Ayesha A. Khan, Darbha Srinivas, Raymond J. Butcher, Rajesh G. Gonnade, Vedavati G. Puranik, Rahul V. Pinjari, Shridhar P. Gejji and Sandhya Y. Rane, *New J. Chem.*, **2014**, 38, 277-284 (**Impact factor 3**)
2. Participated in Workshop on "**Laboratory Health and Safety**" organized by IISER, Pune in association with Royal Society of Chemistry, CSIR- NCL and Chemical Research Society of India and on 2<sup>nd</sup> April 2014.
3. Presented a research paper in **2<sup>nd</sup> International Conference on Herbal and Synthetic Drugs (HSDS-2014)** organized Abeda Inamdar Senior College (Department of Chemistry and Post Graduate research Center), Allana College of Pharmacy and MMERC's ZVM Unani Medical College, of Azam Campus, Pune-411001 on February 10<sup>th</sup>-12<sup>th</sup>, 2014.
4. Attended National Conference on "**Sustainable Energy Development and Environment Systems (NCSEDES)**" organized by H. V. Desai College in association with BCUD, University of Pune on January 10<sup>th</sup>-11<sup>th</sup>, 2014.



5. Presented a research paper in Mini symposium "*The wonderlands of Molecular structures through Looking-Glass of X-ray Crystallography*" organized by CSIR-National Chemical Laboratory on September 23<sup>rd</sup>, 2013.
6. Attended state level seminar on *Recent Trends in Analytical Chemistry (RTAC)* organized by Department of Chemistry, H. V. Desai College in association with BCUD, University of Pune on August 27<sup>th</sup>, 2013.

#### Dr. S. K. Ujlambkar

- 1) Appointed as Secretary, Life Member Board, P.E.S. Society for next 3 academic years.
- 2) Appointed as co-ordinator for Modern College of Physiotherapy, Shivajinagar, Pune 5.
- 3) Appointed as School-Committee member, for Modern English Medium, Pre-Primary High School.
- 4) As an expert in Chemistry, gave lectures to the Std. X teachers, as well as for students, in various schools.
- 5) On the occasion of Science day, 28th Feb. inaugurated Science exhibition in various school and gave a talk on various topics, related with scientist and their research.
- 6) Carried out Entrepreneurship development programme, for the school teachers, at Nigdi. More than 80 teachers participated in the programme. One day workshop on preparation of soap, detergents, perfumes, sprays, and other useful products. Actual preparation was shown to all teachers.
- 7) At the time of 'Ganesh Festival' - Exhibition of posters, was organised in different schools.

- Prof. S. R. Pokharkar  
Head

### Department of Computer Science

#### Activities conducted during the year:

- Kartikeya Rindani Intercollegiate Programming and Quiz Contest (Saturday, 15th February 2014)  
- Four needy students of Computer Science have received Rs.10,000/- Scholarship to pursue their further education. This is a Joint endeavor of Rindani Family and Alumni of Computer Science Dept. Department
- **Poster Competition** - Poster Competition was conducted on 15th February 2014 on the topics Encryption, Computer Graphics, Ethical Hacking, Operating System, Satellite Communication, Big Data, Distributed

Computing, Robotics, Gaming, Image Processing and Artificial Intelligence. Prof. Mrs. Manisha Suryawanshi worked as a co-ordinator for this activity.

- **Intercollegiate Quiz Contest** was conducted on Saturday, 15th from various colleges have participated in the contest. Prof. Mrs. Vaishali Bhoite, Prof. Sanjay Daf, Prof. Sheetal Patil and other staff members of the department have made the event a grand success.

Prof. Abhijit Sathe worked as the co-ordinator for Kartikeya Rindani Programming and Quiz competition Feb 2014 around 80 students.

- **R.M Marathe Programming Contest** - The contest was held on 18th Jan 2014. The competition was conducted in two rounds. The first round was an objective test. The shortlisted students appeared for On-line programming competition. Forty five students participated for the Objective test and nine students were shortlisted. The prize winner was Mr. Swapnil Darwatkar (T.Y. B.Sc (Computer Science)) Prof. Madhuri Ghanekar worked as the co-ordinator for this programming contest.

- "Zaroka" - The Desktop - article column

Intercollegiate Quiz Contest was conducted on Saturday, 15th Feb 2014. Around 80 students from various colleges have participated in the contest. Prof. Mrs. Vaishali Bhoite, Prof. Sanjay Daf, Prof. Sheetal Patil and other staff members of the department have made the event a grand success.

#### • SEMINARS

This year the Department had organized a Seminar Series by inviting eminent personalities from the field of IT. Prof. Mrs. Manisha Suryawanshi worked as co-ordinator for the activity. This activity proved beneficial to the students as well as to the staff members and helped in establishing college and industry relationship. All teaching and non-teaching staff members took active part in the smooth conduct of the seminar series.

#### Activities and support from the Alumni:

- Past students have supported in placement of current batch students in the reputed IT Industries and in offering training programmes.
- Project guidance is made available from Alumni to the students in the form of lectures, project guidance and by conducting counseling sessions.
- Group discussion sessions of the present students were arranged and seminar sessions of past



students were arranged on every Saturday on different topics.

- Active participation in organizing "Kartikya Rindani Intercollegiate Programming Contest-2014".
- Mock Interviews were conducted by the past students who are working in reputed IT industries for the current batch students to face the challenges of present competitive world and to make them mentally prepared for the competition.
- Pride Alumni of Computer Science Department: The brilliant students of our department are working at higher position in various fields like Science and Technology, Research, Business, Banking, Industries, Education, Engineering, Medicine and Administrative Services etc. often visit our college and encourage present batch students.

#### **Staff achievements**

- Prof. Mrs. Manisha Suryawanshi worked as a Resource person at the BCUD sponsored Workshop for MCA(Sc) syllabus Restructuring and Implementation held at Garware College in April' 14.
- Prof. Mrs. Madhuri Ghanekar presented a Research paper entitled "The deassembler and obfuscator for decimal assembly" at the National Conference on Emerging Trends in Computer Science and Computer Application, held at Fergusson College in Dec'13.
- Prof. Mrs. Madhuri Ghanekar presented a Research paper entitled "Management of e-Waste: A case study of Pune" at the National Conference on Hazardous e-Waste management at Modern college in Dec'13 and also received "2nd Best Paper Award".
- Prof. Mrs. Kalyani Salla, Research Paper entitled "Fuzzy Indexing technique for classification of sites" accepted in International Journal of Technology (Impact Factor 1.5) in August' 2013.
- Prof. Mrs. Kalyani Salla, Research Paper entitled "Ranking of Hazardous Industrial Installation: A thought beyond EIA" accepted in International Journal of Applied softcomputing, Elsevier (Impact Factor 2.526) in Oct' 2013.
- Prof. Mrs. Kalyani Salla, presented paper entitled "Optimization in EIA" in the National Conference on Energy and Environment at the University of Pune in Jan' 2014.

#### **Achievements and awards of student :**

Students took lead in organizing Project Exhibition, Poster Competition, Quiz Contest and Programming Contest and participated in various intercollegiate events. Students secured prizes in the various intercollegiate events and competitions.

#### **Placement Service provided to the students:**

- Department of Computer Science has a Placement Cell and runs placement activity through a Placement Cell for post-graduate students and under-graduate students. Prof. Manisha Suryawanshi has been working as a Placement Co-ordinator and Chairperson of the Placement Committee for the placement activity. Under her able guidance 95% of students from the post-graduate Wing (M.Sc. Computer Science, MCA) are placed in reputed organizations.
- All teaching and non-teaching staff members of the Department provided necessary support in smooth conduct of this activity. Under Graduate students are also placed in reputed software companies.
- Staff members had taken active participation in the on line admission process of F.Y.B.Sc. (Computer Science), MCA and M.Sc. (Computer Science) courses.
- A committee was constituted for conducting M.Sc. (Computer Science) and MCA Entrance Examinations 2014. Dr. G.R. Ekbote (Chairman, P.E. Society) Prof. P. S. Chirputkar (Chairman, LMC), Dr. A. K. Pande (Chairman, LMC), Prof. Mrs. Jyostna Ekbote (Chairperson, LMC) Principal Dr. R. S. Zunjarrao (Chairman of the Entrance Examinations Committee) provided necessary guidance and administrative support in organizing the entrance examinations smoothly.

**- Prof. Deshmukh Shamkant**  
Vice Principal and Head

### **Department of Electronic Science**

Department of Electronic Science of the college was actively engaged in various academic, curricular and extracurricular activities during the year. The student strength of the department is about 580 during academic year 2013-14, which includes Junior, Senior and P.G. students. Recognized Post Graduate Research Centre by University of Pune in Electronic Science was established from July 2011.



#### **A] Activities conducted during the year**

1. Prof. G.M.Tarate collected more than 500 e books in the form of .pdf format related to Electronic Science downloaded more than 400 video lectures from NPTEL website for Electronic Science students.
2. Prof. G.M.Tarate prepared a note book for the subject of "Control system & application" for M.Sc. II Electronic Science Students.
3. Remedial coaching lectures and practical for F.Y.B.Sc. students were conducted in the month of November 2013
4. Electronics Excellence Examination (EEE) organized by Society for Promotion of Excellence in Electronic Discipline (SPEED) was conducted on 12 February 2014. Ten students appeared for the examination and all qualified in it.

#### **B] Workshops / Event / Competition Organized:**

1. Prof. S.R.Chaudhari successfully organized National Conference on "Hazardous e-waste management" on 23, 24 December 2013 with collaboration of Department of Electronic Science, University of Pune.
2. Prof. R. V. Vidap organized guest lecture for S.Y. B.Sc. (Comp. Sci.) students as a part of curriculum on 14<sup>th</sup> December 2013. The speaker was Prof. J.V. Khedkar.
3. Prof. R. V. Vidap arranged & organized group discussion for M.C.A. (Science faculty) Part-I in the month August 2013.
4. Prof. P.S. Varade worked as a organizing member in national conference on "Environment & biodiversity of India" organized by Modern college in collaboration with North East states research group.
5. Prof. P.S. Varade Worked as an organizing member in national conference on "Hazardous e-waste management" organized by Modern college in collaboration with Dept. of Electronic Science, University of Pune on 23<sup>rd</sup> & 24<sup>th</sup> December 2013.
6. Prof. P.S. Varade worked as committee member in International conference on "Environment conservation by adopting new technologies" organized by Modern college, Shivajinagar, Pune-05 on 28<sup>th</sup> & 29<sup>th</sup> January 2014.
7. Prof. T.R. Kumbhar Conducted the SPEED examination for F.Y. B.Sc. students on 12<sup>th</sup> February 2014.

#### **C] Educational Trips**

Prof. T.B. Sonawane and Prof. M.R. Bodke organized study tour at Shankar Sahakari

Sakhar Karkhana Ltd. Sadashivnagar, Dist. Solapur of S. Y. B.Sc. Electronic Science students on 31<sup>st</sup> January 2014.

#### **D] Research, Paper Presentation by Staff Members**

1. Prof. P.S. Varade was sanctioned a research scheme by BCUD Pune University, of Rs.1,90,000/-. The topic is 'Design & development of surface acoustic wave based gas sensors', for 2014-2016.
2. Prof. S.R. Chaudhari presented a research paper 'e-waste management campaign: Case study in rural community' in the form of poster in national conference on "Hazardous e-waste management" organized by Modern College on 23<sup>rd</sup> & 24<sup>th</sup> December 2013, published in Environment Observer, Vol. 17, December 2013, Page 33.
3. Prof. Sonawane T.B. research paper published entitled 'SMS Controlled smart e-notice board' in International Journal of Engineering research and Technology, Vol. 2, issue 11, November-2013, pp 2778-2781.
4. Prof. Sonawane T.B. research paper published entitled "Zigbee based data acquisition system to monitor Heater temperature using LabVIEW" in International Journal of Engineering and Technology, Vol. 3, issue 2 February 2014. PP 1745-1749.
5. Prof. A.V.Kamble presented research paper in National Conference entitled 'Recent advances in computer science and electronics', at Vidyan Mahavidyalaya, Sangola held on 3<sup>rd</sup> & 4<sup>th</sup> January 2014.
6. Prof. R. V. Vidap research paper published entitled "Structural, optical and gas sensing properties of spin coated nanocrystalline zinc oxide thin films" in Journal of Materials Science: Materials in Electronics September 2013, Volume 24, Issue 9, pp 3170-3174.
7. Prof. P.S. Varade presented a research paper "e-waste management campaign: Case study in rural community" in the form of poster in national conference on "Hazardous e-waste management" organized by Modern college on 23<sup>rd</sup> & 24<sup>th</sup> December 2013, published in Environment Observer, Vol. 17, December 2013, Page 33.

#### **E] Workshop, National, Seminar Participation by the staff members**

1. Prof. D.B.Gaikwad participated in one-day workshop on Preparation and implementation of M.Sc. II – Electronic Science Syllabus organized by Fergusson College, on 8<sup>th</sup> February 2014.



2. Prof. D.B.Gaikwad participated in two day faculty training program on nuvoTon (Nu-Micro ARM Cortex-M0) and its applications organized by Department of Electronic Science in association with SPEED on 15-16 January 2014.
  3. Prof. D.B.Gaikwad participated in VLSI Design Seminar, organized by Cadence Design Systems (India) Pvt. Limited on 23 August 2013.
  4. Prof. D.B.Gaikwad participated in two-day , Professor's Summit-2013 , organized by Atmel India University Program and MIT ( College of Engineering ) Pune on 25th-26th July-2013.
  5. Prof. B.B. Yenage, participated in M Sc Part II syllabus framing workshop held at Fergusson College.
  6. Prof. T.B. Sonawane successfully completed N.S.S. Orientation course organized by Ahmednagar College, Ahmednagar in March 2014.
  7. Prof. M.R.Bodke successfully completed a short term course on "Preparation of research Project" at Academic Staff College, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, Oct. 2013.
  8. Prof. K.K.Hole attended one-day workshop on "Credit course system based syllabus design for M.Sc. Part II Students in Fergusson College.
  9. Prof. A.V. Kamble participated in workshop: 'S.Y. B.Sc.(comp. sci.) syllabus framing at Malpani college, Sangamner as a member of BOS electronic science held on 2<sup>nd</sup> January 2014.
  10. Prof. A.V. Kamble participated in two-day workshop organized by Dept. of Electronic Science Pune University & SPEED on 15<sup>th</sup> & 16<sup>th</sup> January 2014 under faculty training program in microcontroller.
  11. Prof. R. V. Vidap attended & actively participated in restructuring of S.Y. B.Sc.(Comp. Sci.) syllabus at Malpani college, Sangamner on 2<sup>nd</sup> January 2014.
  12. Prof. G.M.Tarate participated in two-week ISTE workshop on "Analog Electronics" conducted by IIT Kharagpur, under the National Mission on Education Through ICT(MHRD) at COEP Pune-5, from 4<sup>th</sup> to 14<sup>th</sup> June 2013.
  13. Prof. G.M.Tarate participated in a one-day Workshop on "Effective Implementation of credit system in M.Sc. Electronic Science Curriculum" Organized by Department of Electronic Science, Poona College of Arts Science and commerce, on 31<sup>st</sup> August 2013.
  14. Prof. G.M.Tarate participated in two week ISTE workshop on "Signals and system" jointly organized by IIT Khargpur and IIT Bombay, under the National Mission on Education Through ICT(MHRD) at VIT College, Inderanagar, Pune, from 2<sup>nd</sup> January 2014 to 12 January 2014.
  15. Prof. G.M.Tarate participated in Digital signal processing Application with mentor DSP under Faculty Training program organized by Department of Electronic Science, University of Pune in association with Fergusson College Pune, Abasaheb Garware College Pune and Speed, on 17<sup>th</sup> and 18<sup>th</sup> January 2014.
  16. Prof. G.M.Tarate participated in one-day workshop on Implementation of choice based credit system for M.Sc-II Electronic Science organized by Fergusson College Pune-04 on 8<sup>th</sup> February 2014.
  17. Prof. Umesh Kothavade participated in two day faculty training program on nuvoTon (Nu-Micro ARM Cortex-M0 and its applications organized by Department of Electronic Science in association with SPEED on 15-16 January 2014.
  18. Prof. Umesh Kothavade participated in two-day , Professor's Summit-2013 , organized by Atmel India University Program and MIT ( College of Engineering ) Pune on 25th-26th July-2013.
  19. Prof. Y.S.Thipse, awarded M.Ed. degree of Yashavantrao Chavan Maharashtra Open University, Nasik.
- F] Guest lecturers -**
1. 'PLC & Automation' on 12<sup>th</sup> February 2014 by Rajendra Joshi of ADROIT Auto Tech , Pune.
  2. 16 September 2013-by Girish Kulkarni , Sr. Engineer, R&D Section, NASAN Medical Electronics Pvt. Kothrud, on "Use of Analog Electronics and microcontroller in Medical Instrument".
  3. "Electronics in Computer and applications" by Prof. J.V.Khedkar , Head Dept Electronic Science Fergusson College, Pune.
- G] Activities & Support from Alumni.**
- Our undergraduate and post-graduate past student visited our department on various occasions . Particularly students from Vocational course contribute in practical training to students and Post graduate students guide the students regarding placements and technology revolutions in various fields of electronics.



#### **H] Achievements by students**

1. Pankaj Kadu, M.Sc. II participated in "Line Tracer Competition" at MIT on 21<sup>st</sup> February 2014.
2. Neeta Patil & Manali Dalal, M.Sc. I year students participated in "8051 Assemble Language Programming Contest" at MIT on 21<sup>st</sup> February 2014.

#### **I] Achievements by staff members**

1. Prof. G.M.Tarate Qualified **UGC NET Examination In Electronic Science** held in June 2013.
2. Prof. S.R.Chaudhari Invited as expert in Board of studies of Vocational course , University of Pune in designing the second year Vocational course syllabus.
3. Prof. A.V. Kamble University of Pune, co-opted as a member of BOS electronic science as a subject expert.
4. Prof. A.V. Kamble participated in the Govt. of Maharashtra program "Govt. at your door step" on behalf of NCC naval unit & for the same felicitated by Honorable MLA Supriyatai Sule.

#### **J] Participation in different activities as Resource person, Organizing member, Examiner**

##### **Prof. D.B. Gaikwad**

1. Worked as Judge in BE Project Exhibition in Modern College of Engineering , Pune-5 on Friday, 4<sup>th</sup> April 2014.
2. Worked as resource person in Refresher Course in IT Applications on 8-9 December 2013, at Academic Staff College of Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur.(Topic-Digital System Design using VHDL).
3. Delivered a guest lecture on AVR -8bit Microcontroller Architecture, and its features for M.Sc. Students at Department of Electronic Science, T.C. College Baramati , 20 October 2013.

##### **Prof. B.B. Yenage**

1. Outstanding performance award of NCC activities, by the hands of Brig. Naresh Kumar, Group Commander, NCC Group, Pune. On NCC day function NOV 2013 at NCC GP HQ.
2. Worked as Member of M Sc Electronic Science Examination committee for Practical examination and Paper setter.
3. Participated Rice plantation activity jointly organized by Modern college and Vanarai, Pune on 20<sup>th</sup> Jul 2013.

4. Tree plantation activity organized by NSS and NCC units of Modern college at Modern college of Agri Biotechnology on 8<sup>th</sup> Aug 2013.
5. Blood donation activity jointly organized by NCC and NSS units of our college with KEM hospital blood bank on 24<sup>th</sup> Sep 2013.
6. Worked as member of organizing committee in the National conference on Hazardous e-waste management held at Modern College.
6. Worked as member of organizing committee in the International conference on Environmental conservation by adapting new technology at Modern College, Pune-5.

##### **Prof. P.S. Varade**

1. Worked as resource person in one-day workshop for implementation of revised syllabus of F.Y.B.Sc.(Comp. sci.) organized by M.I.T. college of science, Kothrud, Pune on 21<sup>st</sup> sep 2013.
2. Awarded as the 'Best NSS officer' by Pune University for the academic year 2012-13.
3. Worked as examiner in "Vignaharta Nyas" for the Ganesh mandals in Ganesh festival under sangavi police station.
4. Participated in the Marathon "Run for safer Pune" organized by Pune police station on 5<sup>th</sup> January 2014.
- Prof. R. V. Vidap worked as resource person in one-day workshop for implementation of revised syllabus of F.Y. B.Sc. (C. S.) held at M.I.T. college of science on 21<sup>st</sup> sep 2013.
- Prof. G.M.Tarate work as resource person in three-day Workshop for SE Electrical students from 30<sup>th</sup> August to 1<sup>st</sup> Sept 2013 on "Analog and Digital Electronics" in the Electrical Engineering Department of AISSMS COE, Pune.
- Mr. Yogesh Kisan Sonwane was newly appointed, as Laboratory Attendant in. at our department. Ms. Minal Phalke worked as teacher at B.Sc. Computer Science wing and Mr. Mangesh Dayaphule , Mr. Deepak Kumbhar worked as visiting lecturer for Vocational course. Prof. A.G. Gosavi conducted lectures on 'Entrepreneurship' for T.Y.B.Sc. Vocational course. Dr. M.S. Zambre and Dr. Umesh Hiverkar is research guide at our research centre and conducts lectures for post graduate course.

**S.R. Chaudhari**  
Head,



## Department of Mathematics

The Department of Mathematics has always tried to impart quality education at Junior and Senior levels. In the academic year 2013-14, 480 students enrolled for XI Science and 180 students enrolled for XI Commerce. The strength of XII Science and XII commerce were 480 and 180 respectively. The strength of F.Y.B.Sc, S.Y.B.Sc. and T.Y.B.Sc. was 150, 94 and 79 respectively. The strength of F.Y.B.Sc (Comp) and S.Y.B.Sc. (Comp) 150 and 150 respectively. The strength of F.Y.B.Com. 550.

**Senior Wing:** In S.Y.B.Sc. (Semester I) near about 30 % students and in T.Y.B.Sc. (Principal) (Semester – I) near about 23 % students secured distinction. The average passing of each paper was near about 75 %. The result of one paper viz. Lattice Theory was 100 %.

### Activities of Staff Members :

#### Dr. N. H. Mahajan :

- Delivered a lecture to Std. XII students of Rani Laxmibai Military School, Kasar Amboli, Pune as a guidance to XII<sup>th</sup> Std. Board examinations.
- Took charge as Head of Mathematics Department in the leave of Prof. D.S. Mane from 12<sup>th</sup> March 2014.

#### Prof. Ashok Nivrutti Bhavale :

- Submitted the Ph. D. Thesis entitled "Enumeration of certain algebraic systems and related results" to University of Pune.
- Delivered an Invited talk on *Enumeration of Lattices* in 79<sup>th</sup> Annual Conference of Indian Mathematical Society held at Rajagiri School of Engineering and Technology, Cochin, Kerala, India during 28<sup>th</sup> to 31<sup>st</sup> December, 2013.
- Participated and presented the paper entitled "Counting Basic Blocks" in the 3<sup>rd</sup> International Conference on Discrete Mathematics (ICDM-2013) sponsored by DST and VTU held at Karnataka University, Pawate Nagar, Dharwad, during 10<sup>th</sup> to 14<sup>th</sup> June, 2013.
- Participated and presented the paper entitled "An ear decomposition of a graph" in the National Conference on Pure and Applied Mathematics organized by and held at Department of Mathematics, College of Engineering (COEP), Pune during 17<sup>th</sup> to 19<sup>th</sup> December, 2013.
- Participated in the Workshop on *Mathematica* organized by Department of Mathematics, University of Pune, Pune on 25<sup>th</sup> November, 2013.
- Participated in the Workshop on *Restructuring of S.Y.B.Sc. / B.A. / S.Y.B.Sc. (Computer*

*Science) Mathematics Syllabi* organized in association with the BOS(Mathematics), sponsored by BCUD, University of Pune and held at Department of Mathematics, K.T.H.M. College, Nashik on 24<sup>th</sup> January, 2014.

#### Prof. Mrs. Pooja M. Paratane :

- Participated in a 7 day workshop "Teachers Enrichment Programme" sponsored by DST in Bhaskaracharya Pratishthana from 1<sup>st</sup> November, 2013 to 2<sup>nd</sup> November, 2013.
- Delivered Guest Lecture in T.J. College, Khadki on the topics (i) Quantitative Aptitude and preparation of Banking Exam for T.Y.B.Com. students in February 2014 (ii) Plane curves and applications for S.Y.B.Sc. (Computer Science) students in March 2014.

#### Prof. Pratul V. Gadagkar :

- Participated in a 7 day workshop "Teachers Enrichment Programme" sponsored by DST in Bhaskaracharya Pratishthana from 18<sup>th</sup> November, 2013 to 23<sup>rd</sup> November, 2013.
- Worked as a Judge for Seminar Competition conducted by Department of Mathematics, University of Pune in March 2014.
- Delivered lectures on preparation for NET-SET examinations in (i) Shivaji University, Kolhapur on Complex Analysis (ii) Panchavati College, Nashik on Complex Analysis.

### Activities of Students :

- 19 Students of T.Y.B.Sc. participated in Madhava Mathematics competition held in January 2014. Out of the total 686 participants all over Pune district, **Ganesh Jangid** of T.Y.B.Sc. (Mathematics) stood 8<sup>th</sup> in this competition.
- 3 students of T.Y.B.Sc. (Mathematics) viz. **Ganesh Jangid** participated in Seminar competition, **Firoz Shaikh** and **Pearly Kartha** participated in project competition conducted by Department of Mathematics, University of Pune sponsored by DST.

Department of Mathematics  
Head

## Department of Microbiology

### Departmental activities

- MOU has been signed between Department of Microbiology and Modern College of Pharmacy, Nigdi, Pune.
- Department had organized "**Alumina Meet**" for **PG students** on 2<sup>nd</sup> February 2013. Chairman for this meet was Dr. S. S. Mujumdar and this meet was co-ordinated by Ms. Shraddha Bashetti.



- A Model and poster competition named "**Microcosm**" for UG as well as PG students was organized by the department on 3<sup>rd</sup> January 2014. Dr. S. S. Mujumdar was chairman for this activity and it was coordinated by Mr. Vivek Bobade.
- Lecture series on "**Applications of Mathematics and Statistics in Biology**" was organized by the department for UG as well as PG students on 12<sup>th</sup> February 2013. Chairman for this activity was Dr. S. S. Mujumdar and this activity was co-ordinated by Mrs. Rupali Sawant.
- **Quiz competition** was organized by the department specially, for UG and PG students on 7<sup>th</sup> January 2014. Chairman for this activity was Dr. S.S. Mujumdar and Mrs. Anushka Devole was the coordinator of this activity.
- A **Social Activity** was also conducted by our department with T.Y.B.Sc students. All teaching staff members of the department and students visited "**Survesha Seva Sangh**" at Wadgoan Budruk. Students and staff members interacted with all children and taught those children different crafts and drawings, played different games and also prepared delicious food for them. Staff and students donated clothes, grocery and stationery for them.
- **Documentary presentation and Microtoons competition** was organized by the department specially, for UG and PG students on 17<sup>th</sup> January 2014. Chairman for this activity was Dr. S.S. Mujumdar and Ms. Kshitija Pawar and Ms. Nikita Bhonde were the coordinators of the activities.

#### Activities of Teachers

##### Dr. Shilpa Mujumdar :

- A Minor Research Project of Rs. 2,00,000 was sanctioned by UGC.
- A National level project in collaboration with NCCS was started in September 2012.
- Worked as session in-charge for International conference on Environmental Conservation by Adopting new technologies held on 28<sup>th</sup> to 29<sup>th</sup> January 2014.
- Worked as Chairman for Microcosm, Lecture series, Quiz competition, Documentary, Microtoon competition and Social Activity
- Worked as member of organizing committee for one day workshop on scientific communication titled as "Art of Science Communication" by AMI - ASM

- Attended two day conference organized by IBB, University of Pune, Pune
- Attended two day conference organized by Fergusson College, Pune

##### Mr. Vivek Bobade :

- Invited Speaker, on the subject entitled 'Avenues in Microbiology' at the Arvind Telang College on 4<sup>th</sup> February 2014.
- Invited Speaker, in the workshop on NET – SET Preparation for Life Sciences, held at B. R. Gholap College, Pune, on 06<sup>th</sup> February 2014.
- Attended workshop on detailing of M. Sc. Microbiology part I (Credit system) syllabus, held at K. T. H. M. College, Nashik held on 22 Oct. 2014
- Signed MOU related to 'Certificate Course on Pharmaceutical Techniques' between Department of Microbiology, MCASC, Pune and Modern college of Pharmacy, Nigdi, Pune
- Worked as member of Accommodation and Traveling committee, International conference on Environmental Conservation by Adopting new technologies held on 28<sup>th</sup> to 29<sup>th</sup> January 2014.
- Worked as a coordinator of the Interdepartmental 'Microcosm' Model and Poster Presentation Competition 2013, held on 3<sup>rd</sup> January 2014, at Department of Microbiology, MCASC, and Pune 5.
- Worked as member of organizing committee for one day workshop on scientific communication titled as "Art of Science Communication" by AMI-ASM

##### Ms. Sheetal Paradeshi :

- A Minor Research Project of Rs. 2, 00,000 was sanctioned by UGC.
- Worked as a member of the Organizing Committee of Microcosm, Quiz competition Lecture Series, Documentary, Microtoon competition and Social Activity.
- Worked as member of organizing committee for one day workshop on scientific communication titled as "Art of Science Communication" by AMI-ASM
- Worked as member of Hospitality and certificate committee for International conference on Environmental Conservation by Adopting new technologies held on 28<sup>th</sup> to 29<sup>th</sup> January 2014.
- Attended two day conference organized by IBB, University of Pune, Pune
- Attended two day conference organized by Fergusson College, Pune



- Worked as compare for National Conference on Hazardous E-waste Management, organized by our college.

#### **Mrs. Anushka Devale**

- Worked as a coordinator of 'Quiz competition in Microbiology', held on 7th January 2014, at Department of Microbiology, MCASC, and Pune 5.
- Worked as member of Hospitality and certificate committee for International conference on Environmental Conservation by Adopting new technologies held on 28<sup>th</sup> to 29<sup>th</sup> January 2014.
- Worked as a member of the Departmental 'Microbiology Quiz Competition, Lecture Series, Documentary, Microtoon competition and Social activity
- Worked as member of organizing committee for one day workshop on scientific communication titled as "Art of Science Communication" by AMI-ASM.

#### **5) Mrs Rupali Naik- Sawant:**

- Worked as a coordinator of Lecture series on "Applications of Mathematics and Statistics in Biology" held on 12<sup>th</sup> February 2013, at Department of Microbiology, MCASC, and Pune 5.
- Worked as member of Hospitality committee for International conference on Environmental Conservation by Adopting new technologies held on 28<sup>th</sup> to 29<sup>th</sup> January 2014
- Worked as a member of the Departmental 'Microbiology Quiz Competition, Lecture Series, Documentary, Microtoon competition and Social activity.
- Worked as member of organizing committee for one day workshop on scientific communication titled as "Art of Science Communication" by AMI-ASM.

#### **Mrs. Madhuri Amrutkar- Kothawade**

- Worked as a coordinator of 'Social Activity', at Sarvesha seva sangh, Vadgoan (bk), Pune - 411 041.
- Worked as co-ordinator of felicitation committee for International conference on Environmental Conservation by Adopting new technologies held on 28<sup>th</sup> to 29<sup>th</sup> January 2014
- Worked as a member of the Organizing Committee of Alumina Meet, Quality Enhancement Workshop, Microcosm, Quiz competition and Lecture series
- Worked as a member of the Departmental 'Microbiology Quiz Competition, Lecture Series,

Documentary, Microtoon competition and Social activity.

- Worked as member of organizing committee for one day workshop on scientific communication titled as "Art of Science Communication" by AMI-ASM.

#### **Ms. Shradha Bashetti :**

- Worked as a member of the Departmental Microbiology Quiz Competition, Lecture Series, Documentary, Microtoon competition and Social activity.
- Worked as member of organizing committee for one day workshop on scientific communication titled as "Art of Science Communication" by AMI-ASM
- Attended two day conference organized by IBB, University of Pune, Pune

#### **Miss. Nikita Vasudeo Bonde**

- Worked as a member of the Departmental 'Microbiology Quiz Competition, Lecture Series, Documentary, Microtoon competition and Social activity

#### **Miss. Kshitija Pawar**

- Worked as a member of the Departmental 'Microbiology Quiz Competition, Lecture Series, Documentary, Microtoon competition and Social activity.
- Worked as member of organizing committee for one day workshop on scientific communication titled as "Art of Science Communication" by AMI-ASM.
- Worked as Coordinator of **Documentary presentation and Microtoons competition** was organized by the department specially, for UG and PG students on 17<sup>th</sup> January 2014
- Worked as member of felicitation committee for International conference on Environmental Conservation by Adopting new technologies held on 28<sup>th</sup> to 29<sup>th</sup> January 2014.
- Dr. Shilpa Mujumdar, Mr. Vivek Bobade, Ms. Sheetal Paradeshi, Mrs. Anushka Devale, Mrs. Rupali Naik- Sawant, Mrs. Madhuri Amrutkar-Kothawade and Ms. Shradha Bashetti attended one- day workshop on "How to score more" at Abasaheb Garware college, Pune organized by AMI, Pune unit.

#### **Students Activities:**

- T. Y. B. Sc. students visited K. E. M Hospital and National Aids Research Institute under partial fulfillment of their syllabus
- M.Sc. Microbiology (Part II) students visited National Toxicology center.



- Mr. Sumit Shelar, Mr. Ehatesham Ansari, Mr. Sourabh Lokhande and Palana Chouhan are doing National project with NCCS.
- T. Y. B. Sc. students visited Sarvesha Seva Sangh, Pune.
- Mr. Amber Kachale, Mr. Avinash Mali, Mr. Pranav Sarnobat got second prize in State Level Model Competition at Rajaram College, Kolhapur.
- Ms. Surabhi Rode and Ms. Sayali Kirtiwar received third prize in State Level Poster Competition at Rajaram College, Kolhapur.

**Dr. Shilpa Mujumdar**  
Head

### Department of Physics

All teaching and non teaching staff members extended their whole-hearted support and cooperation in smooth functioning of the department

Student Strength:

**F. Y. B. Sc. - 214**

**S. Y. B. Sc. - 98**

**T. Y. B. Sc. - 26**

#### Activities For Students:

1. **Study tours :** As a part of the curriculum, the department had arranged different study visits for F. Y., S. Y. and T. Y. B. Sc. classes.
  - a) T. Y. B. Sc. students visited Geomagnetic Laboratory, Alibag, Dist Raigad, on 21<sup>st</sup> January 2014. Prof. S. R. Gogte, Dr. Sandeep Patil, and Dr. Vaishali Waman took efforts in organizing this activity.
  - b) F. Y. B.Sc. and S. Y. B. Sc. students visited KISAN and MahaTech (an exhibition of Automation in Industrial products). Prof. S. S. Thengadi and Prof. Nileshkumar Pardeshi took efforts in organization and smooth functioning of these study visits.
2. **Guest Lecture :** A guest lecture of Shri Uday Tade (Electronics Engineer (Retd) , Avionics Group, Dr. Vikram Sarabhai Space Centre, Thiruvananthapuram) was arranged on 30 August 2013 for the students of S.Y.BSc. The topic of the lecture was SLV-3 Rocket, Space-Shuttle and Dr. A.P.J. Abdul Kalam.
3. **Visit of students of Std X from Jnanprabodhini:**  
Students of Std. X from Jnanprabodhini School visited the Department of Physics under the guidance of Prof. J.B. Dashaputre on 16 and 17

December 2013. These students had an opportunity to interact with the students of TYBSc (Physics).

4. **Poster competition:** A poster competition and exhibition was conducted for the F. Y. B. Sc. Class on 18 January 2014. The Poster exhibition was inaugurated by Dr. C.V. Dharmadhikari, Visiting Faculty member, IISER and formerly Professor in Physics, Department of Physics, University of Pune, Prof. R. S. Zunjarrao, Principal chaired the function. Dr. Sandeep Patil, Dr. Vaishali Waman, Prof Sanket Gogte and Prof Gopinath Kate evaluated the posters. The prizes were distributed on the same day. Prof. Nileshkumar Pardeshi took efforts in organization of Poster Competition.
5. **Project competition:** Students of T. Y. B. Sc. (Physics) carry out a project work as a part of their curriculum. Exhibition (I<sup>3</sup>) and Competition of these projects was arranged on 24 February 2014. Dr. R. S. Zunjarrao, Principal inaugurated the exhibition. Prof. S.R. Wagh and Prof. V. T. Shelke examined the projects. The prizes were distributed at the hands Prof. S.R. Chaudhari, Vice-Principal. Dr. Sandeep Patil co-ordinated the event.

#### 6. Achievements of Students :

Results of the Department : For the academic year 2012-13

Class	Percentage (%)
F. Y. B. Sc	30
S. Y. B. Sc.	91.5
T. Y. B. Sc.	68.42

1. Jithin P. (F.Y.B.Sc.- Div A) attended Frontiers In Physics - V, a national seminar on astronomy and astrophysics in Fergusson College.
2. Shriram Ramane (T. Y. B. Sc.) attended a workshop on "Experimental Physics" organized by IISER, Pune. He received "Excellent Performer" award in the workshop.
7. **Contribution by the teachers:**
  1. Prof. S. S. Thengadi actively participated in preparing the proposals for CPE, FIST and STAR College for the UGC, DST and DBT respectively. He also helped the college administration in preparation of proposals for various schemes/ funding agencies and following up the agencies.
  2. Dr. Vaishali Waman published four research papers in international journals and one in national conference on Energy and Environment. She also worked as editor of the abstract volume



published with ISBN number in the National Conference of Energy and Environment at University of Pune, Pune.

3. Dr. Sandeep Patil published three research papers in international journals.
4. Prof. Sanket Gogte and Dr. Vaishali Waman attended a Teachers' Workshop on "Teaching Astronomy and Astrophysics at UG level on 3<sup>rd</sup> and 4<sup>th</sup> July, 2013 at Fergusson College, Pune.

#### 8. Publications:

##### Dr. Vaishali S Waman:

- 1) Title: Evolution of microstructure and opto-electrical properties in boron doped nc-Si:H films deposited by HW-CVD method.  
Journal: Journal of Alloys and Compounds (2013)
- 2) Title: Evolution of structural and optical properties of rutile TiO<sub>2</sub> thin films synthesized at room temperature by chemical bath deposition method.  
Journal: Journal of Physics and Chemistry of Solids (2013)
- 3) Title: High growth rate of a-Si:H films using ethane carbon source by HW-CVD method.  
Journal: Bulletin of Material Science (2014)
- 4) Title: Hydrogenated silicon carbide thin films prepared with high deposition rate by hot-wire chemical vapor deposition  
Journal: Journal of Coatings
- 5) Editor of Abstract Volume of National Conference on Energy and Environment (NC2E-2014) Conference, University of Pune, ISBN: 978-93-83993-10-9

##### Dr. Sandeep S. Patil

- 1) Title: Template free Electrochemical synthesis of highly crystalline Polyaniline Nanopetals, Nanocrystals and their Field Emission Investigations.  
Journal: Journal of Electrochemical Society 160,(11) D543-D552 (2013)
- 2) Title: Noise Measurement and Analysis of Field Emission Current from Boron Doped Diamond.  
Journal: IEEE Transactions in Nano Technology, TNANO – 0019-2013
- 3) Vapor-liquid-solid growth of one dimensional Tin Sulfide (SnS) nanostructures with promising field emission behavior  
Journal: Journal of Applied Materials and Interfaces, 6 (3), pp. 2018-2025, (2014)

- Prof. A. V. Deshpande, Head

## Department of Statistics

Department of Statistics organized the following academic activities during the year 2013-14.

### 1. Academic Activities and Achievements of Students:

**A) Quiz:** F.Y. B.Sc., F.Y. B.Sc. (Computer Science) and S. Y. B.Sc. Quiz Round I was organized on 11<sup>th</sup> January 2014. Second round of S.Y. B.Sc. Quiz was conducted at Abasaheb Garware College Pune. Result of the Quiz was as follows:

Class	Names of the Students	Result
F.Y. B.Sc.	Mr. Jithin P. B.	1st Rank
F.Y.B.Sc.	Ms. Pasalkar Sayali	1st Rank
(Comp. Science)		
S.Y. B.Sc.	Ms. Khatmode Sarika A.	Selected for
	Ms. Gadekar Sayali	the second
	Ms. Korade Swati A.	round.

### B) Glorious Achievements of Past students:

1. Ms. Kirti Gaikwad our past student was appointed in the Central Government in Indian Statistical Services (ISS) as Statistical officer.
2. Mr. Chandrashekhar Potnis our past student was awarded "Exemplary Industrialist" by K.B. alias Anna Talwalkar Memorial Trust in February 2014.

### C) Internship and Training:

1. Miss Jyoti Akhade and Miss. Manju Choudhary completed two months' training at the National Sample Survey Organization (NSSO), Akurdi, Pune.
2. Miss. Pooja Pawar and Miss. Shital Aswale of M.Sc. II were selected for five days training program at National Academy of Statistical Administration (NASA), Delhi; from 30<sup>th</sup> Dec 2013 to 3<sup>rd</sup> January 2014.
3. Six students of T.Y. B.Sc. from our department attended state level symposium on 'Exploring statistical Applications in diverse fields' on 7<sup>th</sup> December 2013 and also state level workshop on 'Preparing Statistics students for employment in Industries' on 8<sup>th</sup> December 2013 at Hislop College, Nagpur.
4. Four students of S.Y. B.Sc. from our department attended workshop on 'Career and opportunities in Statistics' at Kisanveer Mahavidyalaya Wai, Dist. Satara.
5. Five M. Sc. students attended a workshop at University of Pune, on 'Design and analysis of clinical trials' at University of Pune, on 3<sup>rd</sup> January 2014.



#### **D) Participation of Students :**

1. Two teams of students a) Ms. Manju Choudhary and Ms. Nikita Tengshey , b) Ms. Pooja Pawar and Ms. Jyoti Akhade participated in "Avishkar" in essay competition on 10th December 2013.
2. Fifteen students attended workshop on "Information about ISS Exam" at NSSO office, Akurdi, Pune on 20th December 2013.

#### **2. Workshops Organized:**

**Statistics Fest:** On the occasion of International Statistics Year 2013, 'Statistical Fest' for S.Y., T.Y. B.Sc., M.Sc. (I and II) students on 18<sup>th</sup> January 2014, was organized by our department. Case studies, statistical crossword, puzzle solving and guest lectures were the events of this fest.

Dr. A. P. Gore, Prof. A. G. Gosavi and Principal Dr. R.S. Zunjarrao were the speakers for this fest. Prof. P. S. Chirputkar presided over the function.

#### **3. Guest Lectures Organized:**

- 1) Date - 01/05/2013  
Guest - Dr. M. N. Deshpande and Mr. Gokhale  
Topic - Release of a book 'Wonderland of Right angled Triangles and Pythagorean Triplets'
- 2) Date - 29/06/2013  
Guest - Dr. Onkareshwara Prasad  
Topic - Use of Statistics in Government.
- 3) Date - 27/07/2013  
Guest - Mr. H.N. Patil  
Topic - Understanding the basic concepts of Statistics and its scope, and certain applications in State Transport Corporation.
- 4) Date - 24/08/2013  
Guest - Mr. Potnis, Ms. Kirti Gaikwad.  
Topic - Lecture on how to prepare for ISS examination and UPSC examinations.
- 5) Date - 17/01/2014  
Guest - Mr. Akash Rughani Ms. Hemal Thakkar, Ms. Deepti Pujari, Mr. Laves Pillai  
Topic - Scope of Actuarial statistics to assess financial risk
- 6) Date - 18/01/2014  
Guest - Dr. A. P. Gore  
Topic - Statistical Numeracy  
Name of the Guest - Prof. A. G. Gosavi  
Topic - Preparations for competitive examinations UPSC and MPSC

#### **4. Campus Interviews:**

Campus interviews were conducted by

- i) Tech-knit e- solution company on 24<sup>th</sup> October 2013 at the Department of Statistics.

ii) E- solve e- tutoring company on 22<sup>nd</sup> January 2014 at the Department of Statistics.

iii) CYTEL Software Services organized interviews on 11<sup>th</sup> March 2014.

iv) Premier Biosoft, Indore organized interviews on 21<sup>st</sup> April 2014.

#### **Notable activities/achievements of Staff:**

##### **Prof. P. G. Dixit**

- Organized book release ceremony of the book 'Wonderland of Right Angled Triangles and Pythagorean Triples' by Dr. M. N. Deshpande and Gokhale on 1<sup>st</sup> May 2013.
- Attended lecture series at University of Pune on 'Bootstrap methods and Jackknife estimations' on 2<sup>nd</sup> July 2013, as training program on syllabus revision of M. Sc.
- Nominated as a member of Board of Studies in Statistics of Dr. B. R. Ambedkar University, Aurangabad.

##### **Lectures/Talks delivered:**

- At NSSO on 29<sup>th</sup> June 2013, on the topic 'Labour and employment'.
- At D.A.V. College, Solapur, on 'Application of Statistics' on 3<sup>rd</sup> September 2013.
- At a Conference at Raipur on 15<sup>th</sup>, 16<sup>th</sup> and 17<sup>th</sup> November 2013.

##### **Workshops/Conferences attended:**

- Syllabi revision, at Nanded on 24<sup>th</sup> September 2013.
- Biomedical Statistics at Chest research foundation, Vadgaonsheri, Pune.
- Workshop for Trustees organized by Lex- Eye services on 26<sup>th</sup> October, 2013.
- Workshop on Census data at Gokhale Institute Pune on 7<sup>th</sup> February 2014.
- As a resource person at North Maharashtra University Jalgaon on 10<sup>th</sup> and 11<sup>th</sup> January 2014.
- National workshop to present a paper on sample size estimation at Nasik on 27<sup>th</sup>, 28<sup>th</sup> and 29<sup>th</sup> January 2014.
- Attended National conference at Institute of Science Nagpur on 3<sup>rd</sup> and 4<sup>th</sup> January 2014.

##### **Meetings attended:**

- At Somayya College for Syllabi Revision of S. Y. B.Sc. on 5<sup>th</sup> October 2013.
- Board of Studies in Statistics at Belgaum at 19<sup>th</sup> January 2014.
- Board of Studies at Dr. B.R. Ambedkar University, Aurangabad on 21<sup>st</sup> February 2014.



- S.R.T.M. University, Nanded, on 22<sup>nd</sup> February 2014.
- Elected as a member of Advisory committee and a member of Board of Trustees of Students' Welfare Association, Pune for 2014-2017.
- Worked as the Chairman of Gymkhana Committee.
- Worked as a Member of Unfair means committee.

#### **Prof. P. S. Kapre**

- Participated in symposium on 'Exploring statistics applications in diverse fields' on 7<sup>th</sup> December 2013 at Hislop College, Nagpur.
- Attended state level workshop for preparing statistics students for employment in Statistics on 8<sup>th</sup> December 2013 at Hislop College, Nagpur.
- Was appointed as Nodal officer of Modern college for all India survey on higher education by M.H.R.D. Govt. of India. He submitted DCF II form of Modern College, Shivajinagar, Pune -05 for the years 2011-12 and 2012-13 on AISHE portal.
- Worked as Chairman of Time Table committee.
- Worked as member of examination and students' welfare committees.

#### **Dr. M. M. Sane:**

- Attended national workshop on "Hazardous e-waste management at Modern College, Pune 5 on 23-24 December 2013.
- Attended workshop on 'Design and analysis of clinical trials' at University of Pune on 3<sup>rd</sup> January 2014.
- Worked as, coordinator for Annual Prize Distribution Committee (Academic).
- Worked as Advisor, Science Association committee.
- Worked as Chairperson of Result Analysis Committee.

#### **E) Prof. A.T. Kamble**

- Attended International workshop 'Reliability and survival analysis' at Cochin University during 31<sup>st</sup> December 2013 to 2<sup>nd</sup> January 2014.
- Worked as, member of Science Association.

#### **F) Prof. Chinchani Kar A.S. :**

Attended workshop on 'Career and opportunities in statistics' at Kisan Veer Mahavidyalaya, Wai, Satra. On 11<sup>th</sup> and 12<sup>th</sup> January 2014,

#### **H) Prof. Anjali Kulkarni**

- Attended workshop on "Information about ISS Exam" at NSSO Office, Akurdi, Pune on 20<sup>th</sup> December 2013.
- Attended workshop on 'Role of Mathematics and Statistics' at Modern College Pune-05 on 5<sup>th</sup> February 2014.
- **Prof P. G. Dixit, Prof. P. S. Kapre, Dr. M. M. Sane and Prof. Rajashree M. Umarani** participated in workshop on revision of syllabi of S.Y. B.Sc. Statistics / Statistical techniques and S.Y. B.A. Statistics on 18<sup>th</sup> February 2014 at H.V. Desai College, Pune
- **Dr. M. M. Sane and Prof. A.T. Kamble** attended international conference 'Role of Statistics in advancement of science and technology' University of Pune, 16- 18 December 2013.
- **Prof. Rajashree M. Umarani, Prof. A.T. Kamble and Prof. Waldhe P. S.** attended lecture series at University of Pune on 'Bootstrap methods and Jackknife estimations' on 2<sup>nd</sup> and 3<sup>rd</sup> July 2013, as a training program on revised syllabi of M. Sc.

#### **Achievements and Publications.**

1. Prof. P.G. Dixit has published 18 books in the academic year 2013-14.
2. Prof. P. S. Kapre has published 03 books in the academic year 2013-14.

#### **Industrial Academia and Student's Training :**

CYTEL, Software Company, Pvt. Ltd, Pune conducted 60 hours training program on SAS software for 18 students in the department of Statistics to enhance the employability of Statistics students.

#### **Prizes:**

##### **A. V.R.Dhongade prize**

Mr. Prasad Ambule (F. Y. B.Sc.)

##### **B. V.R. Prayag prize:**

Ms. Farad Bhakti (T.Y. B.Sc.)

##### **C. Late sau Indirabai Chirputkar prize:**

Ms. Farad Bhakti (S.Y.B.sc.)

##### **D. Late Nirmala Potnis Prize:**

i) Ms Priyanka Muluk (T.Y.B.sc)

ii) Ms. Shruti Rao (S.Y.B.com.)

##### **E. Mahendra Takalkar (Past Student) :**

Ms. Divyashree Jain (M.Sc.)

**Department of Statistics**

Head



## Department of Zoology

Our departmental staff completed their assignments of curriculum and also the duties of examination work. They actively contributed to the smooth functioning of various committees and associations of the college.

### Educational visits/ Excursion tours:

- F.Y.B.Sc. 'B' had a one-day educational trip to Shirgaon and areas nearby the backwaters of Pawana Dam with the intention of studying biodiversity of water bodies. Dr. Y.S.Shinde, Prof.Rahul Gaikwad and Prof .B.T.Kalbage took initiative in organising this trip. Mr.Umesh Gore (Lab.Asst.) and Mr.Yogesh Jare (Lab. Attendant) accompanied the group.
- An educational visit of the S.Y.B.Sc.students was arranged to College of Agriculture, Pune and Central Bee Research and Training Institute, Pune. Another visit was arranged to Fish-Seed Farm at Hadapsar. Prof.B.T.Kalbage took lead in organizing these visits. Four staff members accompanied the students.
- An excursion tour of the T.Y.B.Sc. students was organised in February 2014, by Mr.Narendra Naidu and Dr.P.S.Kudnar. Sea coast animals at Malvan, Ratnagiri, Harne and Harihareshwar were observed and studied. Institutional visits included National Institute of Oceanography-Goa, Konkan Krishi Vidyapeeth, Dapoli and Marine Biology Research Centre, Ratnagiri. It was an enriching experience for the students.
- In addition to this, at Ratnagiri, the students visited the birthplace of Lokmanya Tilak and the historical Patit Pawan Mandir of Veer Savarkar. This aroused a patriotic feeling in their minds.
- All our teaching staff and our laboratory assistant visited Bio- Era at Tathavade, Chinchwad. This unique visit was arranged by the department at the beginning of this year to have a know-how of many new equipment purchased by our college in the recent past and also to get familiar with sophisticated instruments and techniques in advanced biology.

### Workshops/Seminars/ Conferences

- Mr.Narendra Naidu and Dr, P.S.Kudnar completed a Hands-on-Training programme in 'Advanced practicals in Molecular Biology', in September 2013 at Bio-Era, Tathavade.
- Prof.B.T.Kalbage and Dr.Kudnar attended the workshop on 'Framing of F.Y.B.Sc. syllabus, at H.V.Desai College, Pune.

- Prof.B.T.Kalbage attended another workshop on 'Framing of S.Y.B.Sc. syllabus, at Hutatma Rajguru College, Rajgurunagar.

- Dr.Shinde was invited to deliver a talk on 'Taxonomy of Freshwater Invertebrates' on 8th March 2014 in a workshop at B.P.H.E. Society's Ahmednagar College, Ahmednagar. He was also invited to speak in a workshop on Environmental education for school children at Vishva Nirmala Vidya Mandir, Jejuri, on 1st -2nd February 2014. Dr.Shinde participated in the following Conferences:

- i. State level conference "Recent Trends in wildlife and its conservation" at KANAMS Arts, Commerce and Science College, Satana, 20<sup>th</sup> -21<sup>st</sup> Sept 2013.
  - ii. "Taxonomy and ecology of freshwater zooplanktons: Theory and practice with emphasis on scientific manuscript preparation", Department of Zoology and Botany, University of Pune, India, 25-28 November 2013.
- Mrs. Vaishali Chabukswar participated in syllabus revision workshop and was a Resource person for 'Teachers' Training Programme'.
  - All members of the staff actively worked during the International Conference on "Environmental Conservation by Adopting new Technologies" (ICECANT 2014) organized by our college on 28th & 29th January 2014.

Mrs. R. S. Bhalerao was a member of the Felicitation Committee, Dr. P. S. Kudnar was member of the Stage Committee, Prof. B. T. Kalbage was member of the Organising Committee, Dr. Y. S. Shinde was a Committee member and Session rapporteur, Mr.N.M.Naidu was Chairman of Poster Committee and Coordinator for one session and Dr.Bhalerao was the Chairman of Poster Committee. Mr.Umesh Gore and the entire non-teaching staff of the department tirelessly worked for this event.

### Activities carried out under UGC-CPE Scheme:

- For effective teaching during practicals, e-learning material was prepared. Departmental staff members and under-graduate students dissected different animals viz. Earthworm, Starfish, *Scoliodon*, *Pila*, and Grasshopper and also prepared whole mount of chick embryo. Video recording of the dissection steps was done.
- Guest lecturers of following eminent personalities from industries and research institutes were arranged -



Resource Person	Topic
Mrs. Manju Tadwalkar	Waste to wealth
Dr. Donald Paise	Importance of Apiculture
Dr. R. L. Palimkar	Business opportunities in Poultry Science
Dr. Nitinkumar Ranshur	Importance of Physico-chemical testing of soil.
Dr. H. V. Ghatge	Important aspects of evolution Microtechnique-Dos and Dents
Dr. Manisha Modak	Recent trends in Molecular Biology
Dr. S. J. Thatte	A few interesting facts in Mammalian physiology

- Environmental awareness programs were also arranged under extension activity. Guest lecture and film show arranged on Vasundhara day. Prof. B. T. Kalbage, Dr. P. S. Kudnar and Dr. Y. S. Shinde visited large water bodies and rivers present in Pune along with under graduate students for water and soil analysis to understand their pollution status.
- Guest lectures of Mr. Vinayak Kelkar, PRAJ foundation, Mr. Abhijit Deshmukh of Sai Samarth Seva and Dr. Mrs. Manju Tadwalkar, INORA, were also arranged on urban waste management training for the benefit of UG students.
- Our Junior and Senior departmental staff, Lab. Assistant and Lab. Attendants visited four different schools of slum area for guiding students about public health and hygiene. Mrs. Renu Bhalerao and Mrs. Ashwini Deshkar took active part in this program. Lab. Assistant Mr. Umesh Gore; Lab. Attendants Mr. Yogesh Jare and Mr. Atul Kanhere helped them in the arrangement of the effective informative activity of Poster – exhibition.

#### Activities carried out under DBT-STAR College Scheme:

##### Lecture Series

Resource Person	Topic
Dr. Abhijeet A. Safai	Clinical Endocrinology
Dr. A. A. Babrekar	Cytogenetics
Mr. Sachin Ranade	Vulture conservation
Ms. Sohini Vanjari	Conservation genetics of butterflies
Ms. A. Pradhan	Career opportunities in Hospital Management

Dr. S. M. Ghaskadbi	Developmental mechanism underlying evolution of body plan in animals
Dr. R. R. Bhonde	Magic of Stem Cells
Dr. Kamallesh Chavan	Snakes and Tips for Jungle Trail
Dr. Bhuvanesh Awasthi	Neurobiology and Epigenetics

#### □ ZOOVISION – A unique exhibition

- More than 160 students in 28 groups worked under the guidance of Mrs. V. Chabukswar, Mrs. A. S. Deshkar, Mrs. R. S. Bhalerao, Dr. A. A. Babrekar, Prof. R. R. Gaikwad, Dr. Y. S. Shinde, Dr. P. S. Kudnar, Prof. B. T. Kalbage, Mr. N. M. Naidu and Dr. Bhalerao for the unique exhibition 'ZOOVISION' organized by our department.

Posters, static models and working models were enthusiastically prepared by the students. Topics had a wide range covering Animal diversity, Anatomy, Physiology, Evolution, Fossils, Apiculture, Insect Pests, Sericulture, Vermiculture and several other areas of Life-Sciences.

Vice-Principal Prof. S. R. Chaudhari inaugurated the exhibition. Principal Dr. R. S. Zunjarrao, other staff members and many students visited the exhibition. School children from P. E. Society's Modern High School (English medium, Marathi medium and the Girls' School) also paid a visit. The young children were very thrilled and had very nice interaction with the student volunteers. Prof. B. T. Kalbage worked as Coordinator for ZOOVISION. Our laboratory assistant Mr. Umesh Gore; Laboratory attendants Mr. Gopal Daundkar, Mr. Laxman Adagale, Mr. Atul Kanhere and Mr. Yogesh Jare wholeheartedly helped in this activity.

#### □ Special Visits/Trips

- A one-day trip of the T. Y. B. Sc. students was organized to Phulgaon the village adopted by NSS of our college. The sole purpose of this visit was to study the **Biodiversity** of this village. Prof. B. T. Kalbage, Dr. Kudnar, Dr. Shinde and Mr. Narendra Naidu accompanied the students.
- Our F. Y. B. Sc. students and staff visited the school students of a school near Pawanagar in a small village named Yelse. Our students explained to the children importance of proper food habits and exercise, communicable diseases, environmental pollution issues and related information with the help of banners.



#### ❑ Quiz Contests

- In the month of December 2013 a quiz named **ZooQuiz**, based on undergraduate Zoology syllabus was conducted. A written quiz was held for elimination and then the Team event was conducted. Four teams consisting of four members each entered the Final Round. The results were as follows:

##### **Winner Team - Darwin**

1. Apoorva Shetty
2. Aniket Phadtare
3. Purnima Gupta
4. Bhakti Singh

##### **Runners up Team - Mendel**

1. Rucha Kelkar
2. Pallavi Dorge
3. Vaishnavi Wagh
4. Rutja Ghorpade

##### **Third Position - Linnaeus**

1. Sarangi Gokhale
  2. Pranav Kolangade
  3. Manisha Hande
  4. Priya Kumari
- Nishan Mijar and Gayatri Tingre from F.Y.B.Sc. were the Quiz Masters. Parth Vitekar and Rupesh Shinde from S.Y.B.Sc. took efforts in preparing the powerpoint presentation.
  - Later in February 2014, upon initiative of a few Life-Science students a special inter-disciplinary **Inter-Departmental General Quiz** was organized by the Zoology Association of our department. Twenty one teams (three members each team) participated. Two elimination rounds were held and three teams qualified for Finals.

The results of this quiz were as follows:

##### Winner Team:

1. Anish Thorat (S.Y.B.Com.)
2. Vikram Mahapatra (S.Y.B.Com.)
3. Sagar Patil (S.Y.B.Sc.)

##### Runner up Team:

1. Anurag Nambiar (S.Y.B.A.)
2. Mihir Tokekar (S.Y.B.A.)
3. Shailendra Gaikwad (S.Y.B.A.)

##### Third Position:

1. Nishan Mijar (F.Y.B.Sc.)
2. Gaurab Dey (F.Y.B.Sc.)
3. Abin Abraham (F.Y.B.Sc.)

Student volunteers who worked hard for this activity were: Supriya Belhekar, Monica Belhekar and Nishan Mijar. Sarangi Gokhale and Utkarsha Sonawane were Score Keepers, Rucha Kelkar was the Evaluator, Sumeet Pandit was the Technical operator and Parth Vitekar was the Quiz Master. The entire event was very exciting.

Mr.Narendra Naidu was the Coordinator of both these events, assisted by Dr.Y.S.Shinde, Mrs.Renu Bhalerao and other staff members under the guidance of Dr.Bhalerao.

#### ❑ Projects for Students :

- Each staff member of the department has taken responsibility of a group of interested students and simple projects in Life-Sciences have been assigned to them.

Two students had Hands on-training in Pathology and three students in Dietetics.

- ❑ **Extra- practicals** (out of syllabus) were conducted for F.Y.B.Sc. students and also for T.Y.B.Sc. students. Staff members from Department of Biotechnology and Department of Microbiology extended their full cooperation in this activity.

- Our staff members too, conducted a couple of lectures and practicals for the students of Biotechnology and also Agro-Biotechnology.

#### ❑ Special Workshop on Microscopy

A two-day workshop on Microscopy was organized by our department in collaboration with the Department of Zoology, University of Pune, on 22nd and 23rd Feb 2014, exclusively for the F.Y.B.Sc. students.

Dr.B.B.Nath, Professor and Head of the Department of Zoology, University of Pune conducted this workshop very effectively. He exhaustively brought home all technical details of all sorts of 'Microscopy' in a very lucid and simple manner. The participants were overwhelmed by the information and the hands-on-training they received in these two days. His research students Mr.Rahul Gaikwad and Ms.Pallavi Gaikwad also conducted few practical sessions during the workshop.

Principal Dr.R.S.Zunjarrao and Vice-Principal S.R.Chaudhari met the participants and interacted with them informally during the workshop.

**The sessions of the second day were conducted at the Department of Zoology, University of Pune.**

**It is for the first time that such a type of Workshop was conducted for undergraduate students of any college by the University department and that too in their premises.**

Mr.Narendra Naidu was the Coordinator of this special workshop and was assisted by Dr. P. S. Kudnar. All the non-teaching staff was very cooperative.



- Mr.N.M.Naidu was deputed by the college authorities to accompany Vice-Principal Prof.Chaudhari for the presentation of DBT-Star College Scheme, at New Delhi.

#### **Current activities of the Post-Graduate Research Centre (PGRC) :**

- Dr.H.V. Ghate continued to work on his research projects at Zoology Department, after retirement on 31<sup>st</sup> March 2013.
- He is working currently on insect taxonomy, especially bugs (a bug was reported for the first time from India), cassidine beetles and cerambycid beetles (a beetle was reported for the first time for India). He also studied freshwater sponges (a paper was published) and aquatic bugs and beetles (the work produced 2 abstracts).
- He successfully guided (as a co-guide) Dr. Sameer Padhye in his Ph.D. work which was done in Department of Zoology, University of Pune.
- Nine papers were published this year by Dr. H.V. Ghate, singly or in collaboration with international and national co-workers. Six more papers are being finalized for submission. Three abstracts were published in the proceedings the Conference in Shivaji University, Kolhapur, in December 2013.
- Prof. Rahul Gaikwad participated in "Avishkar" competition, University of Pune. He was selected for the Final round at Jalgaon.
- Dr. P. S. Kudnar presented a research paper entitled "Study of nutritional potential of zooplankton *Moina macracopa*" at the State level seminar held on 27<sup>th</sup> -28<sup>th</sup> Dec.2013 at New Arts, Commerce and Science College, Shevgaon.
- Dr. Y. S. Shinde presented a paper at "International Conference on Biosciences with Special Reference to Environmental Issues" (ICBEI-2013) Department of Zoology, Shivaji University, Kolhapur (MS) India (December, 19-21, 2013)
- Ph.D. research students enrolled in our P.G.R.C. submitted their half yearly progress report.
- Dr. H. V. Ghate and Mr. N.M. Naidu published their research paper in an International Journal.
- Mr.N.M.Naidu went for survey work to places in and around Kolhapur and Beed.He also made a Study visit to ZSI, Kolkata.
- Dr. Y. S. Shinde has submitted Minor Research Project to BCUD, University of Pune.
- Prof. B.T. Kalbage has registered for Ph.D. under University of Pune.

#### **Integrated Vermitechnology Training Course:**

Our department in collaboration with Institute of Natural Organic Agriculture (INORA) and PRAJ Foundation conducted this Skill Development Certificate Course, this year too.

Two batches successfully completed the training course. The course for the first batch started in August 2013 and for the second batch in January 2014.

The course included Field Visit for both the batches. The INORA experiment station at Daravali was the main destination. In addition, this included visits to individual bungalows, Vermicompost units in large residential complexes, INORA office at Bavdhan, Vermicompost unit at IISER,Pashan, Biogas Plant at Bavdhan and another new Biogas Plant at Kolwan,Taluka Mulshi.

Mr.Vinayak Kelkar, Chief Programme Officer of PRAJ Foundation, Ms.Manjushree Tadvalkar, Managing Trustee of INORA and other members of INORA Know-How Foundation contributed to this course. All teaching and non-teaching staff members of the department were actively involved in this activity.

Students working under the Earn and Learn Scheme helped maintenance of the Vermicompost Unit of our college. Mr.Narendra Naidu was the Coordinator of this course assisted by Prof. B. T. Kalbage.

- Mr. R. J. Gawade, retired laboratory attendant of our department passed away. He had served in our college for more than 25 years.

#### **Co-curricular :**

- Mr. Narendra Naidu was a Resource person for two sessions in the 'Ornithology' course conducted by ELA. Foundation and Abasaheb Garware College,Pune. He was also a resource person in the 'Biodiversity' course conducted by an NGO named Jividha.

#### **Extra-curricular :**

- Our laboratory assistant Mr. Umesh Gore was awarded the "Yuva Gaonthan Shaishanik Paritoshik" by Jeshth Nagarik Sangh, Shivajinagar, Pune.
- Mr. Umesh Gore was felicitated on Ambedkar Jayanti in our college for participating in the 14 hour Abhyas Abhiyan.
- Mrs. Renu Bhalerao passed the 'Sangeet – Visharad' examination in Classical vocal music with a First class.



- Mr.Narendra Naidu was invited by YASHADA,Pune to address Government officials on 'Communication Skills'. He was invited as a Chief Guest for the Inauguration of NSS Junior wing of Modern High School, NCL,Pashan Jnana Prabodhini Gurukul,Chikhali for Prize Distribution Ceremony and to address RSS volunteers at Talegaon. At Sevasadan school he spoke on 'Symbolism of Ganesh' and on ' Baba Amte and Anandwan' in a Senior citizens' club,Gultekdi,Pune.
- On account of Swami Vivekananda's 150<sup>th</sup> Birth Anniversary Narendra Naidu was invited in various schools, colleges and Rotary clubs to deliver talks on 'Swami Vivekananda- Life and Teachings'. The most note-worthy programmes were his participation as one of the Invited speakers at the Youth Symposium, organized by Ramakrishna Math, Khar and as an Invited Speaker to deliver a 3-day Lecture series at Ramakrishna Math, Pune.

#### Alumni activities

- Past students visited our department for delivering lectures and often for informal interaction with the present batches. These were Dr.Ananda Babrekar, Dr.Bhuvanesh Awasthi, Mr.Sachin Ranade, Dr.Manisha Modak, Dr.Mandar Kulkarni,Dr.Meghana Kanitkar, Mr.Sachin Borse, Mrs.Manuja Mundhe and Miss Apeksha Rao.
  - Four students viz. Ashutosh Alekar, Pallavi Shewale,Prashant Gundal and Sneha Kamat, from the previous batch, under the guidance of Dr.Shinde designed and prepared a display chart on Career Opportunities in Zoology.
  - Pallavi Shewale was the topper in the T.Y.BSc. Zoology batch of the year 2012-13.
- The entire year was full of activities which kept the students , non-teaching staff and teaching staff busy and active throughout the academic calendar.

- Dr. A. M. Bhalerao  
Head

### Department of Commerce

#### Academic Results

The result of B. Com. Examination held in April 2013 was 85%.

The result of M. Com. Examination held in May 2013 was 50%.

#### New Courses and Lecture Series

##### a) Workshop On Graphology (Handwriting analysis) -

It was conducted by Dr. Sanjeevani Rahane for one week and 31 students from T.Y.B.Com class participated.

##### b) Course in Basics of Stock Trading

It was conducted for T.Y.B.Com students between 1<sup>st</sup> March and 4<sup>th</sup> March, 2014. Lectures on 'Basics in Stock Trading', 'Investments in Mutual Funds' and 'Online Trading' aimed at providing basic knowledge, creating awareness and interest and informing the students about the careers in Stock Trading.

##### c) Lecture Series

A Lecture Series consisting of seven lectures on careers in Marketing, Banking, Print Media, Hotel Management and careers in professions like C.A., Beauty Parlour etc. was organised from 6<sup>th</sup> Jan., 2014 to 13<sup>th</sup> Jan., 2014 for students of S.Y.B.Com. and T.Y.B.Com. classes. Eminent personalities guided the students.

##### d) Workshop on Modi Script

The Department organised a One-Week Workshop in September, 2013 to develop the skill of Reading historical documents and business papers like sale, purchase deed in Modi Script. 25 Students participated.

#### Workshops and Seminars

- 1) The Department organised a one day seminar on 'New Companies Act, 2013' for students of T.Y.B.Com and M.Com classes. A Monograph on New Companies Act, 2013 was released at the hands of the Assistant Registrar of Companies, Dr. Amol Shinde. There were four technical sessions in the Seminar, covering various aspects of the new law. practising company secretaries and Practising Chartered Accountant were invited as resource persons.

#### Special Events

A Delegation from the Department led by Dr. Y. R. Waghmare visited Shriram College of Commerce, New Delhi in March, 2014 to study the academic and administrative aspects, best and innovative practices followed by the esteemed college.

#### Field Visits

An industrial visit was organized by Prof. S. R. Hirwe and Prof. Moreshwar for the students of T.Y. B.Com to Malegaon Sugar Factory on 2<sup>nd</sup> March 2014. The aim of this visit was to know manufacturing process of sugar factory and to know method of calculation of total cost.



Dr. A. V. Kamble organized a field visit of S. Y. B. Com Class, Marketing Management students to Gultekdi Market Yard – APMC

### Research Initiatives

- 1) Three scholars from this Research Centre in Commerce, viz. Prof. Y. R. Thorat, Prof. V. V. Tatke and Prof. V. N. Gaikwad completed their doctoral work under the guidance of Dr. Y. R. Waghmare and were awarded the degree of Doctor of Philosophy by the University of Pune, during the year.
- 2) A research project titled 'A Study of Impact of Local Body Tax (LBT)' done by two students from T.Y.B.Com. class, viz. Neha Khandve and Amruta Gothe, under the guidance of CA Rasika P. Date won the zonal level Avishkar 2013 and was shortlisted for University level Avishkar research project competition.

### Achievements of Staff

#### A) Papers Published

**Rasika P. Date**, 2014, 'Green initiatives in banking sector – a comparative overview', *Environment Observer*, ISSN 2320-5997 Vol 18 (Jan., 2014), Page Nos. 78 to 82

**Dr. Sanjeevani K. Rahane And Prof. Shraddha R. Hirwe**, 2014, Green Marketing – An effective tool of Corporate Social Responsibility – (Tata Motors- a Case Study) Proceedings of The National Conference on Corporate Social Responsibility: Relations between business and society, ISBN 978-93-83414-49-9, Page Nos. 52 to 57.

#### B) Other Achievements

##### 1) Dr. Y. R. Waghmare (Vice-Principal and Head)

- i) Was Seminar Director for One-day Seminar on 'New Companies Act, 2013' held on 21<sup>st</sup> February, 2014.
- ii) Leader of the delegation constituted by our Principal to visit Shriram College of Commerce, New Delhi.
- iii) Was a **Resource Person** for following Workshops/ Seminars
- 1) Workshop for preparation of SET Examination at
  - i) Shri Shahu Mandir Mahavidyalaya, Pune
  - ii) Annasaheb Magar College, Hadapsar, Pune
  - iii) Prof. Ramkrishna More College, Akurdi, Pune.
- 2) Seminar on Revision of Syllabi at M.Com in the subject Advanced Accountancy at Tuljaram Chaturchand College, Baramati.

- 3) Seminar on Revision of Syllabi at M.Com in the subject Advanced Cost Accounting at Padmashri Vikhe Patil College, Pravaranagar, Dist. Ahmednagar.

- 4) Workshop on Course Work for Ph. D. students at Department of Commerce and Research Centre, University of Pune, Pune.

- iv) During the year, one student completed M. Phil and three students completed Ph. D. under his guidance.

##### 3) Dr. Sanjeevani. K. Rahane

- i) Completed M. A. Psychology with Distinction.
- ii) Conferred with 'Best Teacher Award' by the Progressive Education Society, Pune on 25<sup>th</sup> January, 2014 (Kanitkar Memorial Day).
- iii) Recognised as a Research Guide by the University of Pune in the Faculty of Management.
- iv) Invited as Judge for M. Pulse- 'Rolling Camera Action Event' by M.B.A. Department of Modern College of Engineering, Pune 411005.
- v) Was a Resource Person for a workshop on 'The Development of Writing Skills for Research Paper' organised by Modern College, Ganeshkhind, Pune.

##### 4) Dr. Ashok V. Kamble

- i) Delivered a speech on the subject 'Online Marketing' in Seminar organized by T.C. College Baramati on 'Recent Trends in Marketing in India'.
- ii) Delivered a speech on the subject 'Foreign Direct Investment' in the lecture series for Post Graduate students organized by New Arts, Commerce and Science College, Ahmednagar.
- iii) Re-appointed as a member of Audit Committee constituted by University of Pune.
- iv) Active participation in the senate meetings of University of Pune on various issues of teachers and students.
- v) Nominated as member of executive committee of Maharashtra Federation of University and College Teachers Organisation (MFUCTO).
- vi) Member of team constituted by Principal to visit Shriram College of Commerce and Economics, New Delhi.

##### 4) Prof. Swati J. Ahiwale

- i) Attended Seminar on Research Methodology at Poona College, Camp, Pune.

##### 5) Prof. Vijay N. Gaikwad

- i) Worked as coordinator for one-day seminar on 'New Companies Act, 2013'.



- ii) Member of team constituted by our Principal to visit Shriram College of Commerce and Economics, New Delhi.

#### 6) CA Rasika P. Date

- i) Presented a paper titled 'Green initiatives of select Indian Banks – an overview' in the international conference on Environmental Conservation by Adopting New Technologies organised by MCASC, Shivajinagar, Pune 5 on 28<sup>th</sup> and 29<sup>th</sup> January, 2014.
- ii) Worked as Avishkar coordinator.
- iii) Worked as coordinator for one-day Seminar on 'New Companies Act, 2013'.
- iv) Worked as member of the team of authors who contributed to the publication of 'Monograph on New Companies Act, 2013'.
- v) Participated actively in the workshop on Practicals in Financial Accounting at F.Y.B.Com organised by BMCC, Pune on 30<sup>th</sup> and 31<sup>st</sup> August, 2013.
- vi) Prepared the conceptual framework and guidelines for conducting practicals in Financial Accounting at F.Y.B.Com in the college.

#### 7) Prof. R. Y. Deshpande

- 1. Was invited to deliver talk/lectures on IPR/Cyber Law/contracts by (a) M.S. University, Baroda - Protection of IPR- Patent or Perish (b) C DAC Hyderabad- Overview of IPR (c) C DAC Chennai- Do's and Don'ts - Cyber law- (d) NIT Silhar and IIT -Gowahati - IPR (g) MIT College of Engineering- Patents.
- 2. Invited as a judge for the competition on 'Drafting of Contracts' by ILS Law college.
- 3. Attended International conference on computer implemented inventions jointly organised by European office and DIETY, Government of India. Also attended seminar on New Companies Act organized by Modern College.

#### 8) Prof. Rupesh D. Bansode

- i) Presented a paper on 'FDI' in national seminar at Dr. Babasaheb Ambedkar college, Aundh Pune.
- ii) Attended Seminar on Research Methodology at Poona College, Camp, Pune.
- iii) Presented Paper on E-advertisement at University of Pune organized by DCRC.
- iv) Worked as Paper setter in Pune University
- v) Completed refresher course organized by academic staff college, University of Pune at B.M.C.C.

- vi) Worked as a member of Census committee under Pune Municipal Corporation.

- vii) Attended Seminar on Tally ERP 9 organised by B.M.C.C.

#### 9) Prof. Shraddha R. Hirwe

- i) Presented a paper in national seminar on 'Corporate Social Responsibility' organized by B.N. Navale College, Lonavala on 14<sup>th</sup> February, 2014.
- ii) Worked as member of the team of authors who contributed to the publication of 'Monograph on New Companies Act, 2013' by the Department of Commerce.
- iii) Worked as a coordinator of the workshop on "Basics of Stock Trading" organized on 1<sup>st</sup>, 3<sup>rd</sup> and 4<sup>th</sup> March, 2014 for the students of T.Y. B.Com.
- iv) Worked in organising lecture series for the students of T.Y. B.Com.
- v) Read and recorded two short stories of Sudha Murthy (translated by Leena Sohoni) at EMRC.

#### 10) Prof. Moreshwar Y. Meeshi

- i) Co-ordinator of two batches of Tally course for Commerce students.
- ii) Attended Seminar on "Computerised Accounting" at BMCC, Pune.
- iii) Attended workshop on "Advanced Research in Social Sciences", organized by BARTI, Pune.

#### 11) Prof. Rahul D. Jadhav

- i) Worked as a coordinator of the workshop on "Soft skills Development Programme" organized from 9<sup>th</sup> December 2013 to 24<sup>th</sup> December 2013.
- ii) Attended seminar on "Computerised Accounting" at Sangamner.
- iii) Attended seminar on "Computerised Accounting" at BMCC, Pune.
- iv) Co-ordinator for F.Y.B.Com. practical examination 2014.

**Dr. Y. R. Waghmare**  
Vice-Principal and Head

## Wing of Computer and Business Studies

### Department of Commerce (Non Grant Section)

We had an Induction Programme for FYBCom students.

Our academic year began with a seminar on the topic "Six Sigma's of Management" by Ms Sandhya Deshpande on 18<sup>th</sup> June, 2013. Students of FYBCom celebrated Guru Pournima on 22<sup>nd</sup> July, 2013.



Bhushan Kotechha and CA Mukesh Kuwad had a seminar on career guidance on Company Secretary and Chartered Accountant on 23<sup>rd</sup> August, 2013. Dr. Y.R. Waghmare inaugurated Commerce Association on 26<sup>th</sup> August, 2013. Seminar on Soft Skills was conducted by Krips Foundation on 28<sup>th</sup> August, 2013. Workshop on Tally was conducted for FYBCom students as a part of practical for financial accounting.

The series of guest lectures was continued throughout the year. On 2<sup>nd</sup> September, 2013, guest lecture was given by Dr. P.V. Sathe on "Career Opportunities in Marketing". Guest lecture on "Interview Skills" was given by Prof. Deepak Powdel on 4<sup>th</sup> September, 2013. Dr. Sanhita Athawale delivered lecture on "FDI in Indian Economy" on 4<sup>th</sup> September, 2013. On 11<sup>th</sup> December, 2013 guest lecture was given on "Introduction to Share Market" by Mrs. Ashwini Thorat. Seminar on Investment Banking was also conducted.

Quiz Competition was organized on the occasion of teacher's day. On account of Independence Day, Poster Competition and Essay Competition were organized. Debate competition was also conducted. Speech competition was organized on 20<sup>th</sup> December, 2013. In the month of January, "Pick and speak" competition was organized.

Our department had projects on various topics on Banking, Economics, Costing, and Environmental awareness. The stalls of handmade products were put up on Commerce day.

Our students participated in various activities such as Road Safety, Social Week etc. They also participated in various inter-collegiate competitions and achieved success.

Prof. Pravin Salunke was a new addition to our staff.

#### **Present strength of B.Com and M.Com**

<b>Class</b>	<b>Divisions</b>	<b>Strength</b>
F.Y.B.Com	3	393
S.Y.B.Com	2	317
T.Y.B.Com	1	292
M.Com	1	120

Prof. Philomena Fernandes worked as coordinator.

#### **M.Com**

Our department started PG Course in Commerce with the intake of 60 students and in the year 2013-14 we have 120 students.

Following series of activities / guest lectures were conducted:

Aug 13 : Induction programme of M.COM.

21st Aug. 13 : Seminar on carrier in banking sector by IFBI Institute.

28th Aug 13: Soft Skills Workshop by Krips Foundation.

17th Sept 13 : 'Strategic Management' by Dr. Shashank Pol.

20th Sept 13 : Workshop on Research Methodology.

23rd Sept 13 : 'Importance of business research' by Dr. Sanjay Kaptain.

30th Sept 13 : 'Cost Audit' by Dr. Nare.

10th Jan 14 : 'Introduction to Capital Market & online trading'.

12th Feb 14 : Group Discussion on Role of technology in banking Sector.

13th Feb 14 : 'Excise and vat audit' by Dr. N.M. Vechalekar and 'On Industrial Policies' by Dr. Sanhita Athawale.

14th Feb 14 : 'Service Tax' by Sumit Shah and 'Guidance on project' by Dr. Shashank Pol.

26th Feb 14 : 'Human Rights' by Adv Ajay Wagh and 'Cyber Law' by Swanand Shinde.

Prof. Vaishali Doshi worked as coordinator.

#### **Department of BBA**

The Dept. of BBA conducted a series of events / activities / guest lectures / workshops for the students of BBA. Few important events are mentioned below:

8th July, 2013 : Counseling Programme for F.Y. BBA students.

12th July, 2013 : Welcome Party for F.Y. BBA jointly organized by S.Y. BBA and T.Y. BBA.

13th July, 2013 : Orientation Programme for F.Y. BBA on the topic "Today is your Tomorrow" by Mr. Amit Jadhav.

14th July'13 : Medical Check Up for F.Y. BBA students.

12th Aug - 17<sup>th</sup> Aug, 2013 : Youth Week (Motivational Movies, Critical Review of the Movies shown, Art Exhibition) for BBA students.

13th August, 2013 : Academic Visit to NIBM, Kondhwa for F.Y. BBA students.

16th Dec to 21<sup>st</sup> Dec'13 : Social Week

13th Jan, 2014 : Seminar on "Entrepreneurship Development" by Hon'ble Shri D. S. Kulkarni for the BBA students.

22nd Jan, 2014 : Parents - Teachers' Meet for the F.Y. BBA students post declaration of F.Y. BBA results.

28th Jan- 31<sup>st</sup> Jan, 2014 : Annual College Fest - Aarohan and Days celebrated



4th – 5th Feb 2014 : State Level Seminar on 'Emerging Trends in Service Sector' for the BBA students.

14th Feb 2014 : 1<sup>st</sup> Industrial Visit for S.Y.BBA

17<sup>th</sup> Feb 2014 : 2<sup>nd</sup> Industrial Visit for S.Y.BBA

The faculties of BBA also presented research papers in the National and International Seminars & Conferences held in Pune in 2013. Details for the same are mentioned below.

1. "A Study of Performance Evaluation of Public Sector & Private Life -Insurance Industry in India since Liberalization" authored by Prof. Philomena Rudolf Fernandes and co- authored by Prof. Lawly Das for the National Level Conference organized by MIBM on Vision 2020: Exploring the Challenges and opportunities in Management held on September 24, 2013 and September 25, 2013.
2. "Stress Management – An Effective Methodology to Maintain Healthy Environment in Organization" authored by Prof. Lawly Das for the National Level Conference organized by MIBM on Vision 2020: Exploring the Challenges and opportunities in Management held on September 24, 2013 and September 25, 2013.
3. "Financial Inclusion – A Road towards Development" authored by Prof. Rajesh Raut for the National Level Conference organized by MIBM on Vision 2020: Exploring the Challenges and opportunities in Management held on September 24, 2013 and September 25, 2013.
4. "Impact of Changes in Service Sector in India in Shaping the Future of Business and Society" authored by Prof. Lawly Das and co - authored by Prof. Rajesh Raut for the International Conference SIMSARC 13 : Shaping the Future of Business and Society held on 11th Dec'13 and 12<sup>th</sup> Dec'13.
5. "Importance of Time Management" authored by Prof. M. D. Waghmare in National Level Conference, Indrayani Mahavidyalaya, Talegaon Dabhade.

#### Department of BCA

07th Mar. 13 : "Ice breaker"- Introduction followed by Quiz

07th April 13 : "Ice breaker"- Introduction followed by Quiz

07th May 13 : Address by Vice Principal Prof. M. D. Waghmare

13th July 13 : Orientation program

14th July 2013 : Medical Check -up

29th July 2013 : Guest lecture on "Management through communication" by Mr. Vilas Jagtap

08-07-2013 : Guest lecture on "Developing DFD & ERD" by Prof. Shivendu Bhushan

12th August 13 to 17th August 13 : "Youth Week" (Motivational Movies, Critical Review of the Movie shown, Art Exhibition) for BCA students.

21th August 13 : "Planning for Study for Examination" and "Do's and Don'ts to be Successful" by Rajendra Rakhecha in association with Krip's foundation

22th August 13 : "How to make Resume" and "Facing an Interview" by Dr. Bhooshan Kelkar

27th August 13 : "Body Language & Presentation Skills" By Mrs. Yamini Mathur

30th Nov. 13 : Placement activity for TYBCA (Wipro).

14th Dec. 2013 : Guest session on Preparing for NET Dec 2013.

16th to 21th Dec. 13 : "Social week"

24th Dec. 13 : Guest lecture by Dr. Ranjeet Patil.

04th Jan. to 1<sup>th</sup> 14 : Felicitation of F.Y. BCA toppers and distinction holders and Parents-Teachers Meet.

13th Jan. 14 : Seminar on "Entrepreneurship Development" by Hon'ble Shri D. S. Kulkarni for the BCA students.

21th Jan. 14 : Workshop on mobile application development( android & iphone) by Mr. Bharat Jagtap  
28th -31st Jan. 14 : Annual college fest- Arohan & Days.

04th - 5th Feb. 14 : State Level Seminar on 'Emerging Trends in Service Sector' for the BCA students.

Prof. Vaibhav V. Thakare worked as coordinator.

**- Prof. M.D.Waghmare**

Vice-Principal, WCBS

#### Junior Wing

Vice Principal -

Bhalchandra W. Bhome (June 2013 -Sept. 2013)

Leena R. Patankar (Oct. 2013 onwards)

Supervisor -

Leena R. Patankar (July 2013-Sept. 2013)

Vilas B. Alhat (Oct. 2013 onwards)

**Total number of students -**

XI Arts - 344

XI Commerce - 528

XI Science - 516

XII Arts - 263

XII Commerce - 442

XII Science - 517



### **H.S.C. Board Examination March 2013 Result**

Arts - 47.76%

Commerce - 80.56%

Science - 79.43%

### **List of Meritorious Students -**

#### **Arts Faculty -**

- 1) Gawande Ramdas - 81.83%
- 2) Deshpande Vidyut - 81.00%
- 3) Meghe Aditi - 79.83%
- 4) Rajput Shahrukh - 76.50%
- 5) Shinde Akshata - 74.50%

#### **Commerce Faculty -**

- 1) Khandekar Snehal - 86.33%
- 2) Shah Darshan - 85.33%
- 3) Bafna Rinisha - 84.50%
- 4) Wadekar Ruplekha - 83.00%
- 5) Sohani Pooja - 82.00%

#### **Science Faculty -**

- 1) Yeole Priyanka - 91.83%
- 2) Shah Divyaj - 91.67%
- 3) Thakar Shshrut - 91.33%
- 4) Parvez O. A. Rizwan - 90.67%
- 5) Patil Prasad - 90.00%

### **List of Staff Members -**

#### **Arts Faculty -**

Prof. Mrs. B. U. Muttalgiri (Coordinator), Prof. P. M. Sambare, Prof. Mrs. V. D. Joshi, Prof. Mrs. Ann Joy, Prof. Mrs. L. R. Patankar, Prof. D. D. Khandale, Prof. Mrs. V. N. Aher, Prof. Mrs. S. V. Kuvalekar, Prof. S. B. Doiphode, Prof. V. V. Suryawanshi, Prof. Mrs. Bhakti Walevekar, Prof. V. K. Devadhe, Prof. Mrs. S. S. Gangurde, Prof. V. B. Alhat, Prof. Mrs. R. K. Ahire, Prof. G. P. Gaikwad.

#### **Commerce Faculty -**

Prof. Mrs. R. R. Agashe (Coordinator) Prof. Mrs. S. N. Gosavi, Prof. S. S. Gharpure, Prof. V. C. Wagh, Prof. Mrs. Reerja Nair.

#### **Science Faculty -**

Prof. J. J. Pawar (Coordinator), Prof. R. N. Ingole (Asst. co-ordinator), Prof. Mrs. V. V. Chabukswar, Prof. Miss M. G. Mandhare, Prof. Mrs. A. S. Deshkar, Prof. Mrs. R. S. Bhalerao, Prof. Mrs. S. B. Nighot, Prof. Mrs. S. K. Barve, Prof. G. V. Bambale, Prof. A. A. Patil, Prof. Mrs. S. Gotpagar, Prof. U. K. Gavali, Prof. L. M. Sherkhane, Prof. A. V. Thakur, Prof. Mrs. M. H. Matsye, Prof. Mrs. S. S. Ghodke, Prof. H. L. Mohol, Prof. Mrs. A. M. Joshi, Prof. Mrs.

S. B. Rathod, Prof. S. J. Karekar, Prof. Mrs. S. N. Jadhav, Prof. Mrs. L. S. Choudhari, Prof. Mrs. N. A. Birajdar, Prof. Miss S. A. Katruwar, Prof. Mrs. A. S. Apte, Prof. Y. S. Thipse, Prof. S. J. Daf, Prof. Samir Badmanji, Prof. Miss Asha Sagar, Prof. Y. S. Patil, Prof. Mrs. S. T. Achalkar.

### **Other Activities -**

Junior college students participated in various sports and cultural activities. Various study tours were arranged for students. Students of XII Science, Commerce and Arts were given an opportunity to develop an appreciation of the melodious, classic and evergreen Hindi and Marathi songs of 1940's and 1950's decades. We are proud to announce that the Govt. of Maharashtra has declared 'The Best Programme Officer Award (N.S.S.)' for Prof. P. M. Sambare (Department of English)

Convener - Prof. Ingole R. N.

**Jim Corbett Environmental Examination.** This examination was conducted in Oct. 2013. It was organised by Jim Corbett Institution, Uttaranchal for higher secondary school students. The subject for this all India level written examination was "On Environment" related to awareness for conservation of environment.

### **Brain Bee - Beuroscience Quiz**

This quiz was organised by Neuroscience experts. Two students of std XI from Modern College participated in this quiz. They got success in the first round of the quiz. It was conducted in January 2014.

### **Junior College Competitive Examination**

Co-ordinator - M. G. Mandhare

#### **1) National Science Olympiad**

Total Students Registered

XI - 22 and XII - 03

Toppers

- 1) Rutuja Milind Dadve - Gold Medal
- 2) Sahil Sanjay Lodha - Silver Medal
- 3) Sameer Gajanan Joshi - Bronze Medal

#### **2) International Maths Olympiad**

Co-ordinator - Sucheta Jadhav

Total Students Registered

XI - 27 and XII - 03

#### **3) Junior Science Olympiad**

Total enrolled 18 from different schools

#### **4) IAPT's Standard Examination in Astronomy**

Co-ordinator - Mandhare M. G.



National Standard Examination in Physics 40  
Top 10% in Centre

Chaitanya Tappu

Sarthak Peshwe

Unmani Jaygude

Chemistry - 32.

Biology - 16

Mrudula Mungase

The teaching and evaluation work of std. XI and XII was carried out satisfactorily.

- L. R. Patankar

Vice Principal, J.C.

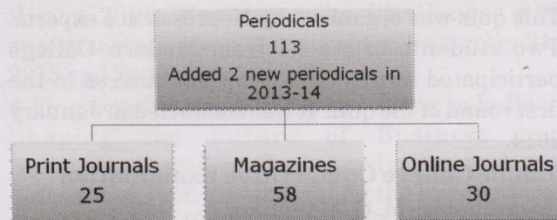
## Library

This year 2162 books were added to the library. Now there are 94189 books in the library.

Books added under different grants/budgets:

1. Jr. Wing - 192
2. Donation- 268
3. Non-Grant- 417
4. Sr. Wing - 1285

Other than books we have following material in the library:



We are grateful for the donation of 173 books given by Honourable Chairman Dr. G. R. Ekbote on the occasion of his 60<sup>th</sup> birthday. These books are useful for our staff and students.

We are thankful for the donation of books from: Dr. Ghate H. V., Dr. Thatte Sushma, Shri. Kulkarni Ajit, Shrimati Vangikar Meena, Shri. Chivate Prasad, Shrimati Agasar Vasanti, Shri. Halder Hrushikesh, Sanskruti Jagaran Mandal, Mrs. Mhaiskar Sudha, Shri. Desai Ashok, Mrs. Sonis Seema, Atharva Prakashan etc.

- Internet facility for staff & students is provided in the library. It is totally free for staff & students and they extensively use this facility. There is OPAC (On Line Public Access Catalogue) Facility at the counter for students. Through OPAC

students can search & locate library books without manual help.

- Along with the main library, there are departmental libraries in few departments for the convenience of staff & students.

### Total Books Issued to Department 7369

- This year **Saraswati Pooja & Book Exhibition** of newly purchased books was held on 11<sup>th</sup> October 2013 in the library. Honourable Prin. Dr. R. S. Zunjarrao performed Pooja ceremony.
- Orientation lectures for first year students of Jr. wing /Sr. wing/PG wing were organized and information about library was given in this session.
- This year 10 Students worked in the library under **Earn & Learn scheme** of University of Pune.
- **68 students** availed the **book bank facility** from the library in the year 2013-14.
- In the **ladies room** of college, 150 books related to ladies counseling and general awareness are kept for the girl students.
- Books related to **competitive exam** have been separately kept in a hall which remains open till midnight. Mr. Telke looks after these books.
- **Digital library** facility has been started for staff & students.
- Every Saturday except during the examination period library displays books of general reading for students.

### This year many well-known personalities visited our library:-

Sr. No.	Name	Post
1.	Dr. S. G. Mahajan	Retd. Librarian, University of Pune
2.	Dr. Mukund Sangoram	Editor, Loksatta
3.	Dr. Arvind Shaligram	Head of the Department of Electronics, University of Pune
4.	Dr. Nitinkumar Ranshur	Associate Prof. Agriculture College
5.	Dr. Benny Sebastian	Head of the Department of Electronics, Christ University, Bangalore
6.	Prof. Ram Chandra	Head of the Department of Microbiology, Babasaheb Ambedkar Central University, Lucknow.



### Important events

1. Digital Library Inauguration: Inauguration of Digital library, library website and library e-bulletin 'ModLib' was done on 31<sup>st</sup> July 2013; by honorable Governor of Bihar, Dr. D. Y. Patil. Chairman of our Progressive Education Society, Dr. G. R. Ekbote; Vice Chancellor, University of Pune Dr. W. N. Gade, Progressive Education Society Secretary, Prof. S. S. Deshmukh, Principal Dr. R. S. Zunjarrao and all staff members and invitees were present for this memorable event.
2. Shri. Gutte retired on 31<sup>st</sup> July 2013 after 33 years of his service in our library.
3. Lecture on "Use of library resources for enriching your studies" by Dr. S. G. Mahajan retired Librarian, University of Pune was organized for B.Sc. students in the library on 24/9/2013.
4. Zoology, Electronics, Psychology, Mathematics students visited library to get information about digital library and e-resources.
5. XIth Arts (History) students visited library to know about encyclopedia and dictionaries in the library.
6. On 5<sup>th</sup> & 6<sup>th</sup> February 2014, two days training workshop for library support staff was organized by Library. This workshop was organized for library staff of all schools & colleges working under Progressive Education Society. The objective of this workshop was to make participants aware of the new developments in the field of library science, take care of library resources and at the same time give better services to their readers. 15 participants participated in this workshop. Dr. Vandana Shelar, Librarian, Abasaheb Garware College was the chief guest and delivered a lecture on "Challenges before Academic Libraries". Retired Principal A. G. Gosavi was the Chairperson for this workshop.
7. Birth anniversaries of great national leaders and thinkers declared in Government of Maharashtra list are celebrated in the library. This includes:

#### No. Name of the leaders and thinkers

No.	Name of the leaders and thinkers	Date
1.	Dr. Babasheb Ambedkar Jayanti	14 April 2013
2.	Shahir Annabhau Sathe Jayanti	1 August 2013
3.	Maharshi Valmiki Jayanti	18 October 2013
4.	Vallabhbhai Patel Jayanti	31 October 2013

5. Indira Gandhi Jayanti and National Integration Day 19 November 2013
6. Sanvidhan Divas 26 November 2013
7. Krantijyoti Savitribai Phule Jayanti 3 January 2014
8. Chhatrapati Shivaji Maharaj Jayanti 19 February 2014

### Congratulations!!!

1. **Library attendant Shri Tanaji Jadhav** received this year's "Guruvarya Shankarrao Kanitkar Best Employee Award".
2. Librarian **Mrs. M. S. Datre** received "Dnyankoshkar Ketkar's best librarian award" for 2014 from Pune Nagar Vachan Mandir, Pune. This award was presented to Mrs. Datre by well-known Marathi film director Shri. Rajdatta on 7<sup>th</sup> February 2014 on 166<sup>th</sup> Foundation day of Pune Nagar Vachan Mandir, Pune.

- **Mrs. M. S. Datre**  
Librarian

### Arts Circle

#### Activities of Arts Circle

- 1) **Inauguration Programme** - On 2nd Sept. 2013 the activities the Arts Circle were inaugurated by the famous stand up comedy artiste 'Banda Joshi.' On that day Mr. Banda Joshi performed his famous show 'Hasya Panchami'. Students and staff were enthralled by his programme for one and half hour.
- 2) **Kalasaptah** - A week of various competitions were organized for identifying the talent of the students. This year we organized Poetry reading, Elocution, Mehendi, Rangoli, Poster Making, Play Reading, Solo acting, Vocal and Instrumental Music and Dance Competitions. Prof. Mrs. Sanjeevani Kuvalekar, Prof. Mrs. Sunita Gosavi, Prof. Mr. Ashok Kamble, Prof. Mrs. Vandana Joshi, Prof. V. V. Suryanwanshi, Prof. Mrs. Anjali Sardesai, Prof. Mrs. Renu Bhalerao, Prof. Mrs. S. A. Jawale, Prof. Mrs. Archana Apte and Prof. R. D. Bansode were in the organizing team the judges were Prof. Mrs. Rekha Agashe and Prof. Beena Muttalgi for Kavya Wahan, Mr. Gopal Joshi and Prof. Mahesh Shindikar for play reading and solo acting, Dr. Swati Karve and Mrs. Meghana Deshpande for elocution, Mrs. Sandhya Kelkar and Mrs. Varsha Gokhale for music, Prof. Ingole for poster making, Mrs.



Shweta Kulkarni and Mrs. Dhanashree Deshpande for Dance.

3) **Workshops -**

In the month of Aug. 2013 we organized workshops for drama and dance students. Dr. Pradeep Vaidya a famous writer, director and Mr. Tejas Shahane western style dancer, were workshop guides.

4) **Intercollegiate Competitions -**

Students from the college participated in various intercollegiate competitions and won many prizes. The winners were as follows :

**A) Purushottam Karandak -**

After a gap of many years our college team reached the top nine from the first round teams and Kartik Shete M. Com. Part II won a consolation prize for acting.

**B) Bharat Karandak -**

- 1) Chinmay Tipnis, F.Y.B.Sc. and Rahul Joglekar, S.Y.BCS - 1st Prize for music.
- 2) Kartik Shete M. Com II - Consolation prize for acting.
- 3) Gandhali Ghate - S.Y.B.Sc. - first prize for writing.

**C) Pratibimb Prasang Natya Spardha**

- 1) College team - Second prize.
- 2) Pankaj Nagpure, B.B.A. - First prize for Direction.
- 3) Deepankar Pai, F.Y.B.Com - First Prize for acting.

**D) Raj Karandak -**

- 1) Rahul Joglekar, S.Y.BCS - First prize for music
- 2) Rahul Joglekar, S.Y.BCS - Consolation for acting

**E) Fiordia Karandak -**

We reached in top fifteen and got following three individual prizes.

- 1) Tanaya Gokhale, 11th Arts - First prize or Deep Yoga.
- 2) Tanaya Gokhale, 11h Arts and Madhura Joshi - T.Y.B.Com - Frist prize for Warli Painting.
- 3) Madhura Joshi and Mukta Walse - First prize for Skipping.

**F) Dance :**

- 1) Our college dance group won the first prize in a dance competition 'Infinity' organized by Wadia College Pune. Abhishek Dhapte, F.Y.BCS was the dance director and also performed in the group.
- 2) In Saptrang dance competition our team got the second prize.

**G) Elocution Competition** Siddharth Naik, S.Y.B.A. won 6 first prizes in various intercollegiate elocution competitions and 2 second prizes as follows -

- 1) Bharat Itihas Sanshodhak Mandal - First prize
  - 2) Rashtravadi Karandak (Pimpri - Chinchwad) - Second
  - 3) Rashtravadi Karandak (Pune District) - First
  - 4) Rashtravadi Karandak (Maharashtra State) - Second
  - 5) Dadasaheb Patwardhan Karandak - First
  - 6) Maharashtra Sant Sahitya Karandak - First
  - 7) Warkari Sahitya Kirtan Spardha - First
  - 8) Sant Darshanik Mandal, Pune - First
- Vrushali Ghatpande - F.Y.B.A. - got following prizes in elocution competitions :
- 1) Yashwantrao Chavan Vidhi Mahavidyalaya - State level - Third Prize
  - 2) Guruvarya R. P. Sabnis state level intercollegiate elocution competition - Third prize
  - 3) Shree Shivchatrapati Mahavidyalaya state level intercollegiate elocution competition - Third Prize.
  - 4) Anantrao Thopte state level intercollegiate elocution competition - Consolation

**H) SPIC-MACAY :** 20th Jan. 2014 - With the support of Spic Macay we organized a special programme of Rajasthani Folk Music - presented by famous singer Bundukhan Langa and troupe.

**I) Prize disribution programme -** On 25th Feb. 2014 prize distribution programme was held and the students were felicitated by the famous drama and T.V. artiste Mrs. Ila Bhate. She was interviewed by Arts Circle student Shubhankar Ekbote. Principal Dr. Rajendra Zunjarrao was the chairperson. Vice Principals Dr. Nayana Kulkarni and Prof. Chaudhari also attended the programme.

We thank the Principal, Dr. R. S. Zunjarrao for his constant encouragement and support. We also thank Dr. Mrs. S. D. Joag, Prof. N. M. Naidu. Special thanks are due to Dr. N. J. Kulkarni for her guidance and active support. We thank Mr. Shaha Accounts department for his active support.

Hearty Congratulations and best wishes to all winners. Thanks to the members of Art Circle.

- **S. D. Purohit**  
Chairperson,



## Academic and Research Coordination AVISHKAR 2013 - Project Competition



This year, the **Zonal Level Research Project Competition AVISHKAR 2013**, organized by BCUD, University of Pune, was held in P.E.Society's Modern College of Arts, Science and Commerce, Ganeshkhind, Pune. 411053 on 10th December 2013.

Three hundred and fifty students from forty eight colleges presented one hundred and seventy one projects in the competition. Following were the participants from our college -

Sr.No.	Name of Student	Class	Category	Level	Title of the Project
1	Khandve Neha Gothe Amruta	T.Y.B.Com D Div.	Commerce	UG	A Study of Impact of Local Body Tax (LBT)
2	Chitnis Atith Bogawat Yash	S.Y.B. Sc. (Bio-Tech)	Pure Science	UG	Synthesis of Silver Nanoparticles using Water Hyacinth and its application in water purification.
3	Ramane Shriram Khole Kedar	T.Y.B. Sc. (Physics)	Pure Science	UG	Modified Guitar String with varying Linear Mass Density to play Musical Chord.
4	Kale Abhijeet Kadam Vedant	S.Y.B. Sc. (Bio-Tech)	Agriculture and Animal Husbandry	UG	A Facile Method for Synthesis of Silver Nanoparticles using Cordia Dichotoma.
5	Phadtare Aniket Toradmal Makarand	S.Y.B. Sc. S.Y.B. Sc.	Agriculture and Animal Husbandry	UG	Enhancement of Seed quality in Moong.
6	Sutar Gauri Thorat Minal	M.C.S. M.C.A.	Pure Science	PG	Smart Car Parking System
7	Shetty Shweta Prajapati Bhagawati	M.C.S. M.C.S.	Pure Science	PG	Multipurpose Solar Charging circuit
8	Prof. Mrs. Phadke Rama	Research	Pure Science	Teacher	Isolation and Characterisation of Curcin Protein.

Out of the above the following students were shortlisted for participation in the **University Level AVISHKAR** held at the Department of Commerce, UOP Pune 411007, on 2nd January, 2014.

These two were among the **thirty four** projects selected at the Zonal Level:

S.N	Name of the Student	Category	Level	Name of Guide
1	Khandve Neha, Ms. Gothe Amruta	Commerce	UG	Prof. Rasika Date
2	Chitnis Atith, Mr. Bogawat Yash	Pure Science	UG	Dr. Rebecca Thombre

**Prof. R.P. Date**  
Coordinator Avishkar

**Prof. S.S.Thengadi**  
Academic Research Coordinator



## Best Student Trophy Committee

Chairperson - Prof. (Mrs.) Beena Muttalgiri

Advisor - Dr. (Mrs.) S. K. Rahane

Members - 1) Prof. (Mrs.) Rekha Agashe  
2) Prof. (Mrs.) S. V. Kuvalekar  
3) Prof. (Mrs.) S. R. Hirve  
4) Prof. (Mrs.) Pooja M. Paratane  
5) Prof. (Mrs.) Arati Goggi  
6) Prof. (Mrs.) Sheetal Paradeshi  
7) Prof. D. L. Khokale  
8) Prof. D. B. Gaikwad  
9) Prof. Vivek Bobade

- The Best Student Trophy is given to the Best Student from Junior Wing, Senior Wing and Post- Graduate Wing.
- The best student from Junior Wing receives 'College Trophy' and 'Late Jyotsna Godbole Cash Prize'.
- The best student from Senior Wing receives 'Damodar Shield' and 'Veer Savarkar Cash Prize'.
- The best student from Post-Graduate Wing receives 'Best Student P.G Trophy'.
- The committee invited applications from students and after scrutinizing the application forms the students were shortlisted. The shortlisted students were called for personal interview. One student from each wing was declared as 'The Best Student of The Year'.
- This year 100 applications (Jr. 35, Sr. 43 and PG 22) were received. Among them 16 were shortlisted for personal interview and Group discussion.
- The interview was held on 4th January 2014. The Panel of Judges was formed. The shortlisted students were judged on the basis of confidence, personality and communication skills. They were also judged based on a group-discussion on the given topic.
- Following students were shortlisted in the Junior Wing :

- |                           |         |
|---------------------------|---------|
| 1. Bodake Pradip Sainath  | XI D    |
| 2. Pujari Suprabha Ramdas | XI A.E  |
| 3. Joshi Shesha Jayant    | XII A.E |
| 4. Sonawane Tejal Ankush  | XII A   |
| 5. Mane Suresh Sukharam   | XI D    |

The topic for group discussion was - 'Inclusion of Environment Studies in The Syllabus'

Following students were shortlisted in the Senior Wing :

- |                                   |                            |
|-----------------------------------|----------------------------|
| 1. Chaturvedi Mrunalini<br>Rashmi | S.Y.B.Com (C)              |
| 2. Wankhede Rupali Dagadu         | T.Y.B.Sc<br>(Microbiology) |
| 3. Rode Surabhi Shriram           | T.Y.B.Sc<br>(Microbiology) |
| 4. Jangid Ganesh Baldev           | T.Y.B.Sc<br>(Mathematics)  |
| 5. Chitnis Atith Vidyadhar        | S.Y.B.Sc (Biotech)         |

The topic for group discussion was - 'Dress Code - Is it essential?'

Following students were shortlisted in the Post-Graduate Wing :

- |                             |                         |
|-----------------------------|-------------------------|
| 1. Chikane Dipesh Ramdas    | M.Sc II (Botany)        |
| 2. Gujar Vedika Nandkumar   | M.C.A III<br>(Commerce) |
| 3. Jeurkar Ajinkya Narendra | M.C.A III<br>(Commerce) |
| 4. Thiparambi Elvina Joseph | M.Sc I (Biotech)        |
| 5. Joshi Renuka Sanjay      | M.Sc II (Biotech)       |
| 6. Shetty Shweta Prasad     | M.Sc I (Comp. Sci.)     |

The topic for group discussion was - 'Dress Code - Is it essential?'

- The Panels of Judges were as follows:

### Jr. Wing :

- |                                     |                 |
|-------------------------------------|-----------------|
| 1. V.P-Dr. (Mrs.) Nayana Kulkarni   | Guest of Honour |
| 2. V.P- Prof. (Mrs.) L. R. Patankar |                 |
| 3. Prof. (Mrs.) S.V. Kuvalekar      |                 |
| 4. Prof. (Mrs.) Rekha Agashe        |                 |
| 5. Prof. Deepak Kute                |                 |
| 6. Dr. (Mrs.) Shubhangi Puranik     |                 |

### Sr. Wing :

- |                                  |                 |
|----------------------------------|-----------------|
| 1. V.P- Dr. Y. R. Waghmare       | Guest of Honour |
| 2. Dr. (Mrs.) S.K. Rahane        |                 |
| 3. Prof. Narendra Naidu          |                 |
| 4. Prof. (Mrs.) M.S. Suryavanshi |                 |
| 5. Prof. (Mrs.) S. N. Gosavi     |                 |
| 6. Prof. Vikram Phale            |                 |

### P.G. Wing :

- |                                  |                 |
|----------------------------------|-----------------|
| 1. Principal Dr. R. S. Zunjarrao | Guest of Honour |
| 2. V. P- Prof. S. S. Deshmukh    | Guest of Honour |
| 3. V. P- Prof. S. R. Chaudhary   |                 |
| 4. Dr. (Mrs.) Sushama Jog        |                 |
| 5. Prof. P. G. Dixit             |                 |
| 6. Dr. (Mrs.) Madhu Satam        |                 |
| 7. Dr. (Mrs.) A. S. Oak          |                 |



• **The Best Student of This Academic Year 2013- 14.**

**Junior wing:**

Joshi Shesha Jayant XII AE

**Senior Wing (UG):**

Chaturvedi Mrunalini Rashmi  
S.Y.B.Com(C)

**Post Graduate Wing:**

Gujar Vedika Nandkumar M.C.A III

The Committee is extremely thankful to Principal Dr. Rajendra Zunjarrao, Panel of Judges, the Staff members and the Students for their whole-hearted support. The committee also acknowledges the cooperation of the teachers, non- teaching staff of the Gymkhana Department.

**Prof. B. U. Muttalgi**  
Chairperson,

## **Commerce Association**

Opening ceremony of Commerce Association was held on 13<sup>th</sup> September 2013. It was inaugurated by our Principal Dr. R. S. Zunjarrao. Chief Guest of this ceremony was Dr. Vijayalaxmi Nambiyar. On this occasion Vice Principal Dr. Y.R. Waghmare, Dr. S. S. Deshmukh, teaching staff and non-teaching staff and students were present.

This year following competitions were conducted :

**Letter Head Competition** on 17<sup>th</sup> September 2013. This competition was conducted and judged under the guidance of Dr. R. W. Kulkarni. 60 participants participated in this competition.

**Winners are:**

1<sup>st</sup> Rank: Minal Kanashetty, Priya Ratna, Rajashri Jakhalekar.

2<sup>nd</sup> Rank: Suchita Lokare, Priyanka Injapuri

3<sup>rd</sup> Rank: Megha Ranpura, Amruta Bandal, Prerna Jain.

**Debate Competition**

Date: 16 January, 2014.

**Debate Topics:**

1. Is corporate social responsibility mere compliance?
2. Is subsidy a political motive?

**Name of In-charge:** Prof. Moreshwar

**Name of Judges:**

1. Dr. A.V. Kamble
2. Dr. R.W. Kulkarni.

**Winners are:**

1<sup>st</sup> Rank: Amruta Shirvalkar

2<sup>nd</sup> Rank: Mamta Jadhav.

## **Audio Visual Competition**

The audio visual competition was conducted on 18<sup>th</sup> January 2014. In charge of this competition were Mrs. S. Hirwe and Mrs. S. Vartak.

**Name of Judges:**

Prof. Sumedha Chandekar, Dr. R.W. Kulkarni, Prof. Vijayanti Jadhav.

In Audio Visual Competition 10 teams participated

1<sup>st</sup> Rank: Ankita Patani, Shubham Sulokhe, Mayuk Mehta, Gayatri Brahme, Ruchita Pagariya

2<sup>nd</sup> Rank: Saylee Kaswa, Saylee Bhapkar, Manali More, Monica Pendiya

3<sup>rd</sup> Rank: Reena Gajbhiv, Komal Shitol, Sangita Reddy, Prajakta Sangalkar, Ambika Adikwar.

## **Quiz Competition**

The first stage was elimination round which was conducted on 28<sup>th</sup> January, 2014. In charge of this competition were Prof. R.W. Kulkarni and Dr. A. V. Kamble.

Monisha Lokhande was the Quiz Mistress for the competition. 70 students participated in the elimination round. Among the participants top 25 were selected for the next stage conducted on 29<sup>th</sup> January, 2014.

**Name of winners:**

1<sup>st</sup> Rank: Saurabh Chinchole, Akshay Bhuruk, Shivani Shinde, Amruta Shirvalkar, Dinesh Sali

2<sup>nd</sup> Rank: Ketaki Dass, Nishigandha Rane, Ameya Kulkarni, Shruthi Rao, Sharvani Navangul

3<sup>rd</sup> Rank: Harshad Pawar, Prachi Ghute, Raj Darekar, Anjum Mujawar, Sourabh Kapare.

## **Business Talent Search Competition**

Business talent search competition (BTSC) is a new event held for judging the entrepreneurial skills of the students. As the name suggests, it's a talent search competition by way of creating a business of your own & running it for a span of 5 hours.

Assuming it to be your actual business you have to consider all the different aspects of business which includes marketing, selling & distribution, after sales services, presentation, market knowledge, preparation of financial statements, maintenance of proper accounts, proper costing of the product, and even the profit aspect and others.

The Business talent search competition was conducted on 1<sup>st</sup> February 2014. In charge of this competition were Mrs. S. Ahiwale and Mr. R. Bansode. This competition was judged by Prof. Vijay Gaikwad and Dr. S. Rahane.

1<sup>st</sup> Rank: Pratik Budgude, Dhanraj Adhav, Vibha Patankar



2<sup>nd</sup> Rank: Shruthi Rao, Kuldeep Pareek, Aishwarya Shetty  
 3<sup>rd</sup> Rank: Aarti Godge, Stuti Shah, Gauri Bangali, Priyanka Gaware, Rashmi More.

### Magazine Competition

The topics for this year's magazine competition were: 'Corporate Social Responsibility and Social Marketing'.

**The winners of this competition are as follows:**

1<sup>st</sup> Rank: Mrunalini Chaturvedi  
 2<sup>nd</sup> Rank: Prajakta Sangolkar, Komal Shitole, Sangita Reddy, Reena Gajbhiv, Ambika Adikwar  
 3<sup>rd</sup> Rank: Naresh Kulkarni, Prachi Ban, Aarti Godge

### Treasure Hunt

Treasure hunt was held on 8<sup>th</sup> February 2014..

### In-charge:

1) Prof. Vijay Gaikwad  
 2) Prof. Swati Ahiwale  
 3) Prof. Rupesh Bansode

### Name of winners:

1<sup>st</sup> Rank: Komal Borate, Anjum Mujawar, Ruplekha Wadekar, Karunakaran Pillay, Deepak Kumawat.  
 2<sup>nd</sup> Rank: Rupesh Dhumal, Akshay Patti, Kalpesh Joshi, Naresh Bhatula, Nikhil Bharate  
 3<sup>rd</sup> Rank: Abhijeet Ranshinge, Akash Mohite, Sagar Gundetti, Nitin Khairnar, Akash Ghume

### Mock Interview

**Judges:** Dr. R. W. Kulkarni, Prof. R. D. Bansode, Prof. R. D. Jadhav

### Name of winners:

1<sup>st</sup> Rank: Monisha Lokhande  
 2<sup>nd</sup> Rank: Kuldeep Pareek, Shruthi Rao

**Prof. Vijay Gaikwad**  
 Chairman

### Film Club

Some of the important films shown by the Film Club in this academic year were as follows:

1. Earth Without Moon: A documentary produced by BBC describing how the earth would have behaved had there been 'no moon' condition on earth. The documentary portrays the changes in the season's pattern, temperature, consequences of not having high and low tides etc.
2. Fukushima- Is nuclear power safe?- A documentary by BBC with the background of nuclear disaster at Fukushima, Japan. The documentary reveals the positive and negative side of the nuclear power, the reasons why many nations are withdrawing from its use, etc.

3. Private Life of Plants - Growth: This documentary describes the growth of plants from a small seedling to huge rainforest tree.
4. Planet Earth – Jungles: A BBC documentary describing different types of forests across the globe and the diversity of plants and animals they contain.
5. 100 Greatest Discoveries – Biology- This documentary explains the importance of great discoveries made in Biology. This includes the discovery of a compound microscope, discovery of nucleus, mitosis type of cell division, cell, first neurotransmitter, etc.
6. Kingdom of Plants: Survival – A documentary by BBC on Royal Botanic Gardens, Kew and the facilities in the institution to help understand how plants reproduce in various environments.

Like that of the last year, films based on the dramas Othello and Macbeth were screened exclusively for the students of M.A. English.

All the members of the committee gave valuable suggestions and always rendered their support in this activity.

**- Dr R B Barmukh.** Chairman

### NCC

#### Strength of NCC, for the year 2013-14.

Wing	First Year		Second Year		Total	
	SD	SW	SD	SW	SD	SW
Army	15	6	15	6	30	12
Naval	29	06	09	4	38	10
Air	0	0	1	1	1	1
Girls Army	0	0		2	0	2
Total	44	12	25	13	69	25

Total strength = 94 Cadets ( 69 SDs and 25SW)

#### ARMY WING: RESULT 2013

NCC EXAM	GRADE PASSED			
	'A'	'B'	'C'	
'B' CERTIFICATE	5	25	0	30
'C' CERTIFICATE	1	6	8	15
CDT APPEARED IN FEB 2013 EXAM	SD	SW	SD	
'B' CERTIFICATE	20	10	-	30
'C' CERTIFICATE	-	-	16	16

- NCC Army Unit of Modern College undertook various activities this year, under the leadership of Capt. B. B. Yenage and SUO Rupesh Shinde.



### Army Wing

- Ex Cadet CSM Nishant Joshi, of Modern College, selected for SSC Special Entry through NCC in 17th course of OTA, Chennai. Nishant stood 4th in All India merit list, he joined OTA training on 8th OCT 2013.
  - This year 36 MAH BN NCC enrolled Girl Cadets and 12 SW cadets enrolled in our College Army Unit.
  - Capt B B Yenage received Outstanding Performance award at the hands of Brig Naresh Kumar, NCC Gp Commander, Pune Group on NCC Day 2013.
  - SUO Keshav Turkunde, successfully completed Republic Day Camp held at New Delhi on 26th JAN 2014. He Participated in PM Rally. Held on 28th JAN 2014.
  - SUO Bela Deshpande Successfully completed Republic Day Camp held at New Delhi on 26th JAN 2014. She was one of the participants of NCC Contingent in Rajpath parade. She also Participated in PM Rally and Cultural program held on 28th JAN 2014.
  - In Republic Day Camp 2014 Maharashtra Directorate stood first in overall competitions.
  - Sanskriti Khairnar successfully completed 'Thal Sainik Camp' from 29 May 2013- 8 October 2013. She won Gold medal in Health and Hygiene. Silver Medal in Volley-ball. She also received Gold medal from MAH Directorate.
  - SUO Sonal Pawar successfully completed 'Thal Sainik Camp' from 29 May 2013- 8 October 2013. She won Silver medal in Juggind Distance and Field Signals ( JDFS). She also received Gold medal from MAH Directorate.
  - SGT Pradeep Kumar Completed 'Thal Sainik Camp' upto Inter Group Competition held at Aurangabad.
  - MAH Directorate stood No 1 in overall performance of TSC 2013..
  - CDT Kapil Sabale completed RDC Camp upto CAT I Held at Mumbai and participated in CM Rally in NOV 2013.
  - CDT Anju Yadav also completed RDC Camp upto Inter Group Competition held at Aurangabad in NOV 2013.
1. **Anti-Drug Rally** was held on 26th JUNE 2013 in College Campus. NCC Cadets arranged rally and display Anti Drug Posters and slogans.
  2. 30 NCC Cadets participated in **Rice Plantation** programme on 20th Jul 2013 held at Vinzer,

Vellhe, organized by Dr. Mohan Dhariya's "VANRAI". The moto of the programme was 'one day for farmers'.

3. **TREE PLANTATION** : 8th AUG 2013. ( 40 Cadets) NCC Cadets of Modern College, Shivajinagar, Pune-5 successfully carried out 'Tree Plantation' activity at Modern College of Agriculture Biotechnology, Kule-Dakhane, Paud, as a part of Environment Awareness and the duty of the citizens to protect the environment. For last Four years we are doing plantation at that place. The Activity was inaugurated by our Principal, Dr. R. S. Zunjarrao and Dr. A. K. Pande, Chairman, Local Managing Committee, Modern College, Pune-5.

The activity was carried out by cadets from digging to plantation. Cadets planted 225 different varieties of forest plants.

Lt. Col. V. C. Sharma, Commanding Officer, 36 Mah Bn, NCC, Pune, provided transport facility and motivated the Cadets regarding duty towards the society.

### 4. Blood Donation Camp

Blood Donation Camp was held at our college on Tuesday, 24th Sept. 2013. The camp was Inaugurated by Col D P Mathews, Commanding Officer, 36 Mah BN NCC, Pune.

Guard of honor was given to Col. D. P. Mathews by NCC cadets.

The Camp was jointly organized and conducted by NCC and NSS units of Modern College in association with K E M Hospital Blood Bank. Capt B. B. Yenage and Lt A. V. Kamble both NCC Officers and Prof. P. S. Varade, NSS Programme Officer took efforts in smooth conduct of the activity under the guidance of Principal Dr. R. S. Zunjarrao.

Blood Donation Poster Exhibition was organized. All posters were prepared by NCC Cadets.

The blood bank set a separate counter for haemoglobin (Hb) check up for girl students of Modern College. Approximately 350 girls tested their hemoglobin count and doctors guided them properly.

Total 93 Blood Bags were collected 30 NCC Cadets, 25 NSS volunteers and 38 college students including staff.

### Regular activities and participation of NCC cadets in various camps:

1. 23 Cadets completed annual training camp for qualification for NCC 'C' Cert Examination held in FEB 2014.



2. 8 Cadets completed Army attachment camp held at 26 MLI, Aundh in Nov 2013. Camp Senior CQMS Jonathan Benn won Gold medal in Written test. And as Camp Senior.
3. In CATC our cadets won Silver medal in cultural activity and tug-of-war .  
Gold medal in Kho-Kho for CDT Yadav Mehetre
4. Silver Medal in singing to CSM Manoj Gurav and SUO Rupesh Shinde.
5. Best Cadet Competition was held on 23rd Dec 2013. Annual NCC Day was celebrated in our college on 20th FEB 2014. NCC cadets were felicitated by the Principal giving certificates and gift for their achievement in NCC activities.

#### Naval Unit :

- The cadets participated in various naval activities under the leadership of Lt. A. V. Kamble, NCC Officer and Cdt Capt. Virendrasingh Tak.
- Two SW cadets, PO.Cdt.Pallavi Bhosale and PO.Cdt. Pooja Nimbhore participated in **National level Adventure camp** at Mumbai in July-13.
  - 10 NCC (Navy) cadets participated in **Rice Plantation** programme on 20th Jul 2013 held at Vinzer, Vellhe, organized by Dr. Mohan Dhariya's "VANRAI". The moto of the programme was 'one day for farmers it inspires the students for helping the farmers voluntarily. The cadets were felicitated by Certificate and 1 kg of rice each.
  - **Nausainik Camp:** 7 girl cadets (SW) and 1 SD cadet from our division participated in Nausainik camp 2014.
  - In pre-nausainik camp which was conducted in Mumbai following cadets participated: L. Cdt. Illaya Pramod, Cdt. Pooja Wavhal, Cdt. Bharati Sanika, Cdt. Nidhi Pandey, Cdt. Priyanka Hiwrale, Cdt. Harshada Chavan, PO cdt. Pallavi Bhosale. Ldt. Cdt. Pramod Illaya got silver medal in service subject and health and hygiene. Cdt. Pooja Wavhal got silver medal in firing. Cdt. Priyanka Hiwrale got silver medal in health and hygiene and broze medal in firing.
  - For final Nausainik camp which was held in Vijag, 1 SD and 4 SW cadets were selected.
  - In November-13 PO Cdt. Pooja Nimbhore got selected for Sailing camp at Chilka and earned 4th position in that national camp.
  - In November 2013 NCC day camp was conducted at Mumbai. 1 SD and 4SW cadets; L.Cdt. Reddie Ganesh, CC Priyanka Bhosale, PO cdt. Sanjali

Dhole, Cdt. Waval Pooja, Cdt. Vaishanavi Pandkar participated in this camp.

- On 22 December 2013 cadets of our division and ANO Lt. A.V. Kamble participated in social activity conducted at A/p Kudje, Mandavi, Tal. Haveli, for awareness about Government schemes for poor people. This activity was controlled and managed by Tahasildar Mr. D.S.Kumbhar and his other officers.
- ANO Lt.A.V.Kamble and cadets were felicitated by Hon'ble MP, Mrs. Supriyatai Sule for this activity of 'Shasan aplye daari.'
- In the last week of December-2013, Cdt. Rahul Kengare participated in Ship attachment camp conducted at Mumbai Naval Dockyard. The Ship was INS Beas.
- In January 2014 , final Nausainik camp was held at Vishakapattanam Vijag, from 7th Jan. to 20th Jan 2014. L Cdt. Pramod Illaya got bronze medal in Seamanship. Cdt. Nidhi Pandey got silver medal in boat pulling, PO cdt. Pallavi Bhosale got silver medal in boat pulling and broze medal in dril competition.
- At end of academic year NCC day was celebrated in the college on 17th Feb 2014. PO Cdt Rahul Kengar was awarded as best cadet.
- Lt.A.V.Kamble attended one day capsul course of personality development at GPHQ NCC conducted by NAVY unit in the month of Feb-2014.
- Blood donation camp on 24th Sept.2013, Rice plantation on 20ty July 2013, Tree plantation on 8th August 2013 ; these three activities were combined activities of NAVY, ARMY NCC and NSS. Naval cadets participated in these activities in large number.

This year NCC Cadets showed great efforts in social as well as NCC Activities.

**Capt. B. B. Yenage,**      **Lt A. V Kamble**  
NCC Officer Army      NCC Officer, Naval

### National Service Scheme (Senior College)

The NSS unit senior wing has a sanctioned Unit of 250 student volunteers. Students from all the streams i.e. Arts, Commerce, Science, Computer Science, Agri- biotechnology voluntarily participated in this scheme.

#### Regular activities:

**18<sup>th</sup> July 2013-Inauguration of Durg Samvardhan Activity:** It was planned to protect and conserve all the forts of Maharashtra state. Film



actor Dr. Amol Kolhe was nominated as Brand Ambassador for this activity. He appealed to the youngsters to promote this activity. Principal Dr. R.S. Zunjarrao also addressed the 400 students present for this function.

**20<sup>th</sup> July 2013 - Paddy Planting Programme at Vinzar & Velhe:** 500 students from our college (NSS and NCC) and NSS P.O. Prof. P. S. Varade, NCC officer Prof. B. B. Yenge are actively participated in this activity. The students helped the farmers for planting rice paddy in the rain. After this Adv. Nandu Phadake, Sarpanch of Vinzar, other members of Grampanchayat, Principal of Vinzar College felicitated the group leaders and the teachers.

**25<sup>th</sup> July 2013 - Lecture on Positive Thinking:** The members of Prajapati Brahmakumari Vishwashanti Kendra shared few experiences about positive thinking with the students and also told the benefits of positive thinking. Principal Dr. Rajendra Zunjarrao also addressed the students on the same subject.

**8<sup>th</sup> August 2013- Tree Plantation:** NSS volunteers and NCC cadets together prepared pits and plantation was done by Principal Dr. R. S. Zunjarrao, Dr. A. K. Pande and Registrar R.P.Kale. NCC officer Prof. B. B. Yenge and other members of NCC Battalion as well as NSS P.O. Prof. P.S. Varade were present for this activity.

**11<sup>th</sup> August -18<sup>th</sup> August 2013- Voting Camp:** A group of students had undergone corresponding training held by *Parivartan Group Pune*. They worked under the guidance of Prof. Varade. Around 1200 students and their parents enrolled their names in this list.

**15<sup>th</sup> August 2013- Independence Day:** After flag hoisting ceremony NSS volunteers and NCC cadets gathered in the assembly hall. Dr. Sudhir Ujlambkar explained the sacrifice done by the great Indian freedom fighter Khudiram Bose for independence.

**29<sup>th</sup> August 2013-Orientation Programme for First Year Students:** Programme officer Prof. P.S. Varade explained the structure of NSS, the importance, aims, objectives and the role of NSS volunteers and the main activities of NSS. 315 students were present for this programme.

**3<sup>rd</sup> September 2013- District level Pre - SRD/NRD Selection camp:** NSS unit of Modern College in collaboration with Pune University organized a one- day district level pre-SRD/ NRD selection camp. 100 students from Pune city and

Pune rural colleges participated in this camp. The camp consisted of ground activities such as

running, long jump and pull-ups. Cultural performance and general knowledge test were carried out indoors. 10 boys and 10 girls were selected in this camp. District coordinator Dr. Shivaji Pacharne was present for this camp. Prof P. S. Varade and Prof. Mrs. Shubhangi Puranik worked hard to complete this activity.

**5<sup>th</sup> September 2013- Teachers Day:** NSS volunteers and Prof. P.S. Varade organized this programme. Principal Dr. Rajendra Zunjarrao and Dr. Sudhir Ujlambkar addressed the volunteers about the importance of this day. Dr. Ujlambkar delivered a speech on the life of Dr. Sarvapalli Radhakrishnan. Volunteers felicitated the teachers and delivered their views about this day.

**13<sup>th</sup> September 2013- Workshop on Energy Conservation:** Modern College in collaboration with PCRA organized a small workshop on energy conservation. Mr. Apte from PCRA division of Pune worked as a resource person for this workshop. A quiz competition and objective test were held for the students. 150 students participated in this workshop. At the end of this workshop prizes are given to the first three toppers. Prof. P.S. Varade worked as organizing member for this workshop.

**23<sup>rd</sup> September 2013 - Shantidoot Rally:** The members of Prajapita Branhamkumari Vishwashanti Kendra in association with NSS Modern College had a gathering of the participants of this rally. New bicycles and kit for travel is offered to the participants. The rally went to Satara from Pune and further. The main aim of this rally was to pass the message of Vishwa Shanti.

**24<sup>th</sup> September 2013- NSS Day Celebration and Blood Donation Camp:**

On this occasion NSS and NCC unit jointly held this activity. Blood donation camp was inaugurated by the hands of NCC officer Mr. Mathew in the presence of Principal Dr. R.S. Zunjarrao, Vice Principal Prof. Sharad Chaudhari. 105 donors donated blood. KEM hospital blood bank co-operated in this activity.

**2<sup>nd</sup> October 2013 - Cleaning Drive:** On the occasion of **'Mahatma Gandhi and Lal -Bahadur Shastri's** birth anniversary the NSS Volunteers cleaned few classrooms, porch, and campus. After this Principal Dr. R.S. Zunjarrao addressed the students. He stressed on 'Non-violence and India'. The function concluded by prayer. All the program officers and NSS committee members were present for this activity.

**2<sup>nd</sup> October 2013 - Road Safety Awareness Programme:** To emphasize the importance of road safety for every individual our NSS department



organized an exhibition cum poster competition on subject. This function was inaugurated by Dy. Regional transport officer of PCMC Shri. Jitendra Patil. Dignitaries appreciated the efforts of students. Three best posters were selected from the participants.

**2<sup>nd</sup> October 2013 –Joy of giving:** The chief of the social institute called 'SAMPARK', Shri. Rao was present for this function. He explained the real satisfaction one would get after the donation to the needy person. We should help to the needy persons in our society. Principal Dr. R.S. Zunjarrao also stressed on the same subject. He assured that the college would always supports such activities.

**26<sup>th</sup> November 2013 – Sanvidhan Day Celebration:** On this occasion our Principal Dr. R. S. Zunjarrao addressed to the staff and students on the importance of this day. A Pledge was taken by everybody who was present in the hall. P.O. P.S. Varade, Librarian Prof. Mrs. Madhuri Datre, Registrar Shri. R.P. Kale Prof. Mrs. Manda Admane and 50 students were present for this programme.

**4<sup>th</sup> January 2014 -Awareness Programme by BDDS:** Police Inspector Shri. Gaikwad and his other colleagues Mr. A. S. Kulkarni, Mr. P. P. Shinde, Mr. A.N. Gund guided the college students about - 'Taking care of oneself in worst situations and tips to tackle the situation'. A documentary was also shown to the student on the topic - 'Bomb detection and disposal'. Principal Dr. R. S. Zunjarrao and Police Inspector Shri. Gaikwad also addressed the students. Vice Principal Prof. Shamkant Deshmukh, Prof. S.R. Chaudhari, Prof. B. B. Yenge, Prof. Ms. Ameeta Kulkarni and NSS P.O. Prof. P.S. Varade and Prof. Mrs. Shubhangi Puranik were present for this programme.

**11<sup>th</sup> January 2014 Road Safety Pledge:** As per the resolution received from Pune University and Pune Traffic Police, we organized the programme in assembly hall as well as in each class on above topic. Principal Dr. R. S. Zunjarrao gave the pledge of Road safety to all the students.

**11<sup>th</sup> January 2014- Workshop on Mathematics for Blind students:** Open Unit and NSS unit of Modern college jointly organized this workshop for blind students, studying in different colleges of Maharashtra. Drushti group and Sparsh Dyan Group also supported this activity. Two lady teachers from Mumbai taught mathematics to these students. Students were really happy after this workshop. 35 blind and 20 sighted students attended the workshop. The inauguration of this function was done by the hands of Principal Dr. R. S. Zunjarrao. The students also expressed their feelings about this

workshop and demanded one more workshop on such subject. Prof. P. S. Varade delivered the vote of thanks.

**12<sup>th</sup> January 2014- Blood Donation Camp:** Patit Pawan Sanghatana in collaboration with Modern College NSS organized a blood donation camp. The inauguration of this camp was done by Principal Dr. R. S. Zunjarrao. Members of Patit Pawan Sanghatana helped the activity. 51 donors donated blood in this camp. Sahyadri Hospital blood bank collected the blood.

**21<sup>st</sup> January 2014 –Project Competition in Zoology:** As a part of Youth Saptah department of Zoology in collaboration with NSS unit of our college organized the Project exhibition cum competition ZooVision for life- science students... NSS volunteers supported this competition. Prof. Bharat Kalbage and Prof. N. M. Naidu worked hard for the success of this competition. Vice Principal Prof. Chaudhari inaugurated the event. Dr. R .S. Zunjarrao and other staff members visited the exhibition.

**25<sup>th</sup> February 2014 -Voting Pledge:** Sakal Papers Pune initiated this activity to create voting awareness in the citizens and the youngsters of Pune. Modern College supported this activity. All NSS volunteers and NCC cadets were present for this activity. Collector of Pune district Mr. Subodh Rao gave the pledge to all the students. After this Principal Dr. R. S. Zunjarrao addressed the students on this topic. He also stressed the importance of voting and appealed to youngsters to vote to the right candidates in the forth coming 'Loksabha' and Vidhan Sabha elections. NSS PO and NCC officers supported this activity.

#### **Appointment:**

1. Prof. P. S. Varade appointed as Programme officer for Post Graduate Unit and Open Unit of Pune University and also appointed as Area coordinator for Shivajinagar region for the academic year 2013-14.

2. Prof. P.S. Varade was appointed as panel selection member for University level pre-SRD/NRD selection camp.

#### **Participation in Workshop /Seminars:**

- Prof. P. S. Varade - Planning meeting to implement Road Safety Awareness programme for academic year 2013-14, Mumbai & Pune Highway Police Department - Participation (August 2013).
- Prof. P. S. Varade - One- day State Level workshop for Area and District Co-coordinators, Bharati Vidyapeeth, Pune- Participation ( July 2013)



- Miss. Vaishali Makadi, SRD/NRD Pre- selection camp Dr. Babasaheb Marathwada University - Participation, 21<sup>st</sup> -23<sup>rd</sup> September 2013.
- Miss Vaishali Makadi, Komal Malve, Komal Dede, Self Defense Workshop for Women Pune University - Participation, 29<sup>th</sup> July 2013.
- Vishal Kate and Group - 'I vote camp', H. V. Desai College - Participation, 10<sup>th</sup> August 2013.
- Miss Vaishali Makadi, Komal Malve, Komal Dede, Ganesh Kamble ,Kishor Patil, Aadinath Gadekar - Personality Development Camp MAEER's Arts, Commerce & Science College, Kothrud - Participation, 16<sup>th</sup> August 2013.
- Miss Vaishali Makadi, Komal Malve, Komal Dede, Ganesh Kamble ,Kishor Patil, Aadinath Gadekar - Leadership Camp, BMCC College ,Pune-4 - Participation, 17<sup>th</sup> August 2013.
- Miss. Vaishali Makadi Komal Malve, Komal Dede, Ganesh Kamble ,Kishor Patil, Aadinath Gadekar, Aahilya Gaard - Police Mitra Workshop (Swamshidha Training), Shivajinagar ,Police Head Quarter - Participation, 2<sup>nd</sup> -7<sup>th</sup> Sept. 2013.
- Prof. P. S. Varade & 17 Volunteers - Marathon (10km and 5 km) – Run for Safer Pune, Pune Police - Participation, 5<sup>th</sup> January 2014.
- Miss. Vaishali Makadi - Mock Drill, Pune University - Participation, 28<sup>th</sup> November 2013.
- Miss. Vaishali Makadi - Aavhan Camp, Nanded University - Participation June 2013 ; RD Parade - Govt. of Maharashtra, - Participation 16<sup>th</sup>-26<sup>th</sup> January 2014.
- Ganesh Kamble, Kishor Patil, & 15 more students Value education workshop - T. C. College, Baramati - Participation.
- Ganesh Kamble, Komal Dede, Komal Malve, Anti-ragging workshop, Modern College, Ganeshkhind - Participation, 25<sup>th</sup> February 2014.
- Prof. P.S.Varade & 5 volunteers Dissimilation of Khadkwasala Dam, Pune Corporation, Pune University & Amonara Group - Group leader & Organizing member 20<sup>th</sup>-26<sup>th</sup> may 2013.

### Special Camp Report :

Camp site: Shri Satya Sai Seva Kendra, Phulgaon  
Camp Dates: 07<sup>th</sup> -13<sup>th</sup> December 2013.

Theme of Camp: Complete Rural Development and Road Safety

As per the demand of villagers, second time we held 'NSS Special Camp' at Phulgaon. Hon'ble President of Pune ZP. Shri Pradipdada Kand inaugurated the camp. Sarpanch Mr. Kantilal Wagaskar presided over the function. Vice Principal

Prof. Sharad Chaudhari was present for the function.

The camp was full of activities. A few talks and interactive sessions were as follows:

Sr.No.	Topic	Resource Person
1.	E-Waste Management	Dr. Arvind. Shaligram
2.	Disaster Management	Principal Anil Dandekar
3.	Trekking	Mr. Umesh Zirpe
4.	Digital Library	Prof. Mrs. Madhuri Datre
6.	Scientists & their Inventions	Dr. Sudhir Ujalmbkar
7.	FDI	Dr. Ashok Kamble

**Survey:** An exhaustive survey of the village especially on – E-waste management, and school dropout students was done. The campers told about adverse effects of e-waste to the villagers.

**Educational and Cultural:** A few of our campers voluntarily conducted classes for the school children. Few volunteers choreographed dances and directed plays of the younger children.

**Cultural Programme :** This programme was appreciated by all the villagers. Our campers contributed their talents in this grand variety entertainment programme.

**Street Plays and Rally:** This year the volunteers presented street plays on a very important subject- **Road Safety**. A big rally was also held on highway as well as on the roads of Phulgaon, to create awareness regarding this subject in villagers. This activity proved to be very fruitful as our campers performed these plays in various localities of the village several times during the camp.

**Blood donation camp:** A blood donation camp was held in association with Shri Satya Sai Seva Kendra. Sahyadri Hospital blood bank supported the camp and collected 51 bags of blood.

**Village Cleaning Drive:** This year the main target was 'Complete cleaning of the village' because this year the village participated in the 'Gram Swachhatha Abhiyaan', So the campers supported this Abhiyaan.

**Valedictory function:** Sarpanch Mr. Kantilal Wagaskar, Vice-Sarpanch, Mrs. Vaishali Wagaskar, Ex- Sarpanch Mr. Sunil Wagaskar, our Principal Dr. Rajendra Zunjarrao, Vice –Principal Prof Sharad Chaudhari and other members of Phulgaon Grampanchayat were present for this function. A



few campers gave their heartfelt feedback about the camp. Programme officer P.S. Varade and the dignitaries addressed the gathering. After this Sarpanch Mr. Kantilal Wagaskar took review of the work done by the campers. Principal Dr. Rajendra Zunjarrao also appreciated the work done by the campers.

**Prof. P.S. Varade**  
**Dr. Shubhangi Puranik**  
NSS Programme officer

## **National Service Scheme** **(Junior Wing)**

### **Regular Activities**

The NSS unit junior wing has a sanctioned unit of 100 student volunteers. Students from all the streams i.e. Arts, Science and Commerce voluntarily participated in this scheme.

### **Regular Activities conducted during the academic year 2013-14 are as follows :**

20th July 2013 'Rice plantation' 'Ek Divas Shetasathi Shetkaryanchya Madati Sathi' was organised in association with Adv. Nandu Phadke. The farmers were benefitted by the shramdan of plantation in the fields. Around 60 volunteers of junior NSS participated in the activity.

22nd July 2013 - 'Guru Pournima'. Volunteers expressed their respect and felicitated teachers by giving Shriphal and flowers and expressed their views about this day.

26th July 2013 - 40 volunteers along with programme officers and committee members visited Phulgaon, Taluka Haveli, Dist. Pune. The visit was for interaction with villagers and camp activity in the village.

8th Aug. 2013 - 'Kranti Din' a lecture was delivered by Prof. U. K. Gawali on Shri. Shivaji Maharaj's leadership qualities.

9th August 2013 'Padabhraman' at Parvati Hill and Taljai. The activity was organized by Shri. Sambare, Mrs. Gharpure, Manisha Mandhare, Mrs. Sucheta Jadhav, Shri. Wagh, Ms. Ahire and Mrs. Birajdar.

10th August 2013 : Orientation of students by organizing a film show on National level NSS activities. After the film show there was an interactive session with the students and committee members regarding different activities to be conducted in the term.

15th August 2013 : 'India after Independence' Mrs. Sujata Gangurde delivered a lecture. She

emphasized 65 years of independent India and development in the country.

17th August 2013 : Volunteers visited 'MAHER' and celebrated Rakshabandhan by tying Rakhi to the children in the asram. After distributing sweets and gifts, volunteers visited and paid homage to Shri. Sambhai Maharaj's Samadhi at Vadhu. Shri Sambare, Manisha Mandhare and Mrs. Sucheta Jadhav accompanied them.

22nd August 2013 : Deccan College visit with 73 volunteers Shri. Sambare and Mrs. Gangurde guided them. Archeological Museum was visited.

31st August 2013 : 'Agakhan Palace Visit' It was organised by Shri. Sambare, Shri. Suryawanshi, Mrs. Gangurde, Mrs. Nighot, Shri. Wagh and Mrs. Ahire.

2nd October 2013 : 'Mahatma Gandhi Jayanti' Cleanliness of college campus, classrooms. Inauguration of Road Safety Programme. Mrs. Kumar Banerjee of "Social Action for Manpower creation" talked on 'Joy of Giving' and guided the volunteers.

10th October 2013 : Visit to 'Balgram' Bhaje Malavali, an organization working for well being of orphan children. It was an opportunity to make volunteers see in reality the life of the orphans in the ashram, their education, difficulties of the people in managing the centre. Shri. Sambare, Mrs. Ahire and Mrs. Birajdar accompanied the volunteers.

26th October 2013 : Pre-winter camp visit to Phulgaon, Tal Haveli, Dist Pune. 58 volunteers visited the camp site for cleaning the "Shri Satya Sai Seva Centre" and visited the village to plan the activities of helping the village citizens for Nirmal Gram Yojana. Shri Sambare, Shri Alhat, Mrs. Gangurde, Mrs. Gharpure, Manisha Mandhare, Mrs. Sucheta Jadhav finalized the programmes.

1st December 2013 to 7th December 2013 : '**Special Winter Camp**' at Phulgaon Tal. Haveli, Dist - Pune.

60 volunteers participated in the camp. Inauguration was at the hands of Hon. Shri. Balasaheb Ovhal in presence of Principal Dr. R. S. Zunjarrao and Vice Principal Mrs. Leena Patankar along with the members of Gram Panchayat Phulgaon. Valedictory function was attended by Shri. Pradeep Kul, Shri Vasubhaiya, Vice Principal Shri Chaudhari, Prof. Dixit, Registrar Shri. Kale and Supervisor Shri. Alhat.

3rd Jan 2014 : Documentary on 'Savitribai Phule Jayanti'



12th January 2014 : Swami Vivekanand Jayanti Celebration of 'Yuva Din'. Shri. G. P. Gaikwad delivered a lecture and motivated volunteers for all round development as an individual.

The above activities were the result of good team work done by the committee members and volunteers.

**Shri. P. M. Sambare, Manisha Mandhare, Shri. Walmik Wagh, Mrs. Sucheta Jadhav.**

**Programme Officers**

### Planning Forum

Planning Forum is a forum which gives non formal education to the students on current economic aspects including the humanities. Following activities were carried out in this year.

- 1) The activities of the Planning Forum were inaugurated by Dr. Parag Kinge, Head of Patents Division, Praj Industry, Pune on 24th August, 2013. He delivered a lecture on the topic 'The process of acquiring a patent.' The function was graced by the presence of Principal Dr. R.S. Zunjarrao.
- 2) An Essay Competition on 'Food Security in India' was organized on 20th December, 2013. The winners were:  
First Prize - Sayani Biswas, FYBA  
Second Prize - Prithviraj Rathod, TYBA  
Third Prize (Shared) - Aishwarya Belgudri, FYBA  
Kuldeep Pareek, TYB.Com D
- 3) A Quiz competition was organized on 26th December, 2013. The winners were:  
First Prize (Shared)  
Sayani Biswas, FYBA  
Naresh Kulkarni, TY B.Com B  
Second Prize(Shared)  
Ashwini Ghatikar, TYBA  
Prithviraj Rathod, TYBA  
Third Prize  
Omkar Jadhav, FYBA
- 4) A Group Discussion on the topics - FDI in Retail, Human Resource Development, Current Debates on Electronic Media, Present Status and Potential of Tourism . was conducted on 27th December, 2013. The winners were:  
First Prize(Shared)  
Sameer Vishwasrao SYBA  
Kuldeep Pareek TY B.Com D  
Second Prize (Shared)

Sayani Biswas FYBA

Omkar Jadhav FYBA

Third Prize (Shared)

Saurabh Kapare, TY B.Com A

Mrunalini Chaturvedi, SY B.Com C

- 5) An Elocution Competition on the topics -Regional Imbalance, Electricity Prices in India, Black Money and Problems of Urbanization was conducted on 10th January, 2014. The winners were:

First Prize

Mrunalini Chaturvedi, SY B.Com C

Second Prize

Sameer Vishwasrao, SYBA

Third Prize

Naresh Kulkarni, TY B.Com B

- 6) Power Point Presentation Competition on "Developed Cities in the World" was conducted on 1st February, 2014. The winners were:

First Prize

Naresh Kulkarni, TY B.Com B made a presentation on Tokyo City

Second Prize (Shared)

Mrunalini Chaturvedi, SY B.Com C made a presentation on Tokyo City

Ashwini Ghatikar, TYBA made a presentation Gulbarga

Third Prize (Shared)

Monisha Lokhande, TY B.Com D made a presentation on Buffalo City

Isha Ranjekar, F.Y.B.Com B made a presentation on Berlin

- 7) Personal Interviews of the students were conducted on 5th February, 2014. The winners were:

First Prize (Shared)

Pooja Shinde, TY B.Com C

Shaunak Remane, FYBA

Second Prize (Shared)

Sameer Vishwasrao, SYBA

Sayed Imtiaz Ali, SYBA

Third Prize (Shared)

Kuldeep Pareek, TY B.Com D

Chinmay Pethe, TYBA

Consolation Prize

Aniket Pashte, F.Y.B.Com.-B

The Valedictory Function along with the prize distribution was organized on 22nd February, 2014. The Chief Guest for the function was Dr. Rajendra Pawar, Prof & Head of Watershed Development



YASHDA ,Pune. He delivered a lecture on "Watershed Development and Management."

The function was graced by the presence of Principal Dr. R.S. Zunjarrao, Vice- Principal Dr. Y.R. Waghmare and Vice-Principal Prof. S. R. Chaudhari.

The above activities were the result of good team work done by Prof Ms P.B.Mujumdar, Dr. S.S.Deshmukh, Prof Mrs. S.A. Vartak ,Prof Rupesh Bansode and Prof Mrs. J.P.Nambiar .Prof Mrs. Dr. M.M .Satam, Head Department of Economics has also guided and encouraged the activities of Planning Forum.

**- Dr. Abhay Shende**

Chairperson Planning Forum

### Science Association

The association conducted five programmes in the academic year 2013-14.All were distinct and useful for students as well as faculty members.

- 1) A two hour session was conducted by Mr. Makarand Pandit of Technowrites pvt. Ltd. Pune. He guided the students in 'Technical writings'. He also conducted a group competition. Monal Oswal, Mansi Londhe and group won the first place.

He awarded a gift voucher of Crossword worth Rs. 500/- to the group.

- 2) As a part of PCCC activity the Invited talk by Dr. B. D. Bhole HOD, Dept of Microbiology, Abasaheb Garware College, Pune-5 was arranged. Most of the students of Biotechnology & Microbiology attended the programme. His topic was "Research Methodology". The event was coordinated by Dr. Rebecca Thombre.
- 3) The activity "Library awareness programme" was conducted specially for F.Y.B.Sc (Div A) students in the college library. Eminent Retd. Professor Dr. S.G. Mahajan (Retd. Jayakar Library, Pune University) presided over the function. He explained to the students, the importance of referencing and library. Prof. Mrs. Paratane coordinated the programme.
- 4) "An orientation programme for University Examination" was arranged in the month of January 2014 for F.Y.B.Sc. (A) students. Feedbacks were collected from students about teaching - learning experience throughout the year. The respective subject teachers Prof. A.V. Deshpande, Prof. Dr. Mrs. M.M. Sane and others guided the students.

- 5) In the month February 2014, an essay contest was held for first year students. The topics of essay were

1. Role of Science in Life.
2. Mobile: friend or enemy.

Ten students participated in the contest. **Anuradha Narawade** (F.Y.B.Sc.), **Swati Desai** (F.Y.B.Sc. (Comp. Sci.)) were awarded first and second rank respectively.

A special activity on the occasion of **Science Day, 28th Feb 2014** was arranged by the association. It consisted of presentations by **Prof. Mrs. Kalyani Salla** and **Mrs. Shradha Sakatkar**. Mrs. Salla presented research and Mrs. Sakatkar discussed study skills. Prof. S. R. Chaudhari presided over the function. The winners of essay contest were awarded prizes in this function.

**- Dr. Mrs. N. H. Mahajan**, Chairperson

### Soft Skills Development Workshop

On 10<sup>th</sup> December, 2013 Soft Skills Development Workshop was inaugurated by Principal Dr. R. S. Zunjarrao. Vice Principal Dr. Y. R. Waghmare, Vice Principal Dr. N.J. Kulkarni, Advisor Dr. Amruta Oak, Chairperson Prof. Vijay Gaikwad, Prof. Rahul Jadhav and other teaching and non-teaching staff were present.

On 11<sup>th</sup> December, 2013 Prof. Tanuja Kher conducted a session on Personality Development.

Stress Management session on 11<sup>th</sup> December, 2013 and Visualization session on 13<sup>th</sup> December, 2013 were conducted by Prof. Vijay Gaikwad.

On 16<sup>th</sup> December, 2013 Prof. Apeksha Gawade and Prof. Sumedha Chandekar conducted sessions on Self Confidence and Creative Thinking.

On 17<sup>th</sup> December, 2013 a session on Listening Skills was conducted by Prof. Vishal Sharma. A session CV Writing was conducted by Prof. Parag Shah.

From 18<sup>th</sup> to 20<sup>th</sup> December Prof. Apeksha Gawade and Prof. Sumedha Chandekar conducted sessions on SWOT Analysis, Goal Setting and Positive Thinking and also held Group Discussion.

On 24<sup>th</sup> December, 2013 Soft Skills Development Workshop was concluded with great enthusiasm. 50 Students were certified for Soft Skills Development Workshop by Principal Dr. R. S. Zunjarrao and Vice Principal Dr. Y. R. Waghmare.

**Prof. Vijay Gaikwad**  
Chairman



## Time Table Committee

- Advisors: (i) Dr. A.M. Bhalerao  
(ii) Prof. S. R. Pokharkar  
Chairman: Prof. P.S.Kapre  
Vice chairman: (i) Prof. N. M. Naidu  
(ii) Dr. R. W. Kulkarni  
(iii) Prof. S. D. Purohit

**Committee Members:** Dr. Sangita Bhagat, Prof. D. S. Mane, Prof. S. R. Hirve, Prof. V. T. Shelke, Prof. Shilpa Mujumdar, Prof. S.S. Sakate, Prof. B.W. Bhome, Prof. S.W. Kuvalekar, Prof. R.R. Agashe, Prof. S.N. Gosavi, Prof. V.M. Sherikar, Prof. D.B. Gaikwad, Prof. V. N. Kothavade, Prof. Goggi Arti, Prof. Gadekar P. V., Prof. Apte A.S. Prof. M.S. Ghanekar, Prof. Badamanji Sameer, Prof. R. N. Ingole, Prof. Barmukh R. B. Prof. V.B. Alhat, Prof. S.R. Wagh, Prof. Wayal N.V., Shri. R.M. Gaikwad, Mrs. Swati Patwardhan.

Time table committee was constituted in the month of April 2013.

New time tables of practicals with necessary changes were prepared in vacation.

Following subcommittees were formed and in charge were decided :-

In charge	Classes
Prof.D.B.Gaikwad	F.Y.B.Sc./S.Y.B.Sc./
Prof.R.B.Barmukh	T.Y.B.Sc / M.Sc/M.C.A(Sc.)
DR.R.W.Kulkarni	F.Y.B.Com./S.Y.B.Com/
Prof.S.R.Hirve	T.Y.B.Com. M.Com. and Management courses

Prof.Purohit S.D.	F.Y.B.A./S.Y.B.A./
Prof.Khokale D.L.	T.Y.B.A./M.A.

Prof.Ghanekar M.S.	F.Y./S.Y./T.Y.
Prof.Badmanji Sameer	B.Sc.(Comp.Sc.) M.CA.

Prof.Sangeeta Bhagat	F.Y./S.Y./T.Y.B.Sc. (Micro)
Dr.Shilpa Mujumdar	and F.Y./S.Y./T.Y. B. Sc (Biotech)

Prof. Bhome B.W.	XI and XII(all classes of
Prof. Agashe R.R.	Junior college)
Prof. Apte A.S.	

During this academic year, the committee has smoothly carried out all given tasks.

- Prof. P. S. Kapre,  
Chairman

## रॅगिंग प्रतिबंधक समिती

रॅगिंगच्या अप्रिय घटना घडू नयेत व विद्यार्थ्यांना अधिक निर्भय वातावरण मिळावे यासाठी आम्ही आमच्या महाविद्यालयामध्ये जाणीवपूर्वक पुढील कार्यवाही केली आहे.

- महाविद्यालयात रॅगिंग प्रतिबंधक समिती स्थापन करण्यात आली आहे. प्राध्यापक व विद्यार्थी प्रतिनिधी या समितीचे सदस्य आहेत. त्या विषयीची माहिती विद्यार्थ्यांपर्यंत पोहचविली जाते.
  - महाविद्यालयात रॅगिंग प्रतिबंधक गस्त पथक निर्माण करण्यात आले आहे. या पथकाचे सदस्य महाविद्यालयात वेळोवेळी गस्त घालतात.
  - महाविद्यालयाच्या आवारात एकूण २२ सी.सी.टि.व्ही. कॅमेरे बसविले आहेत. विद्यार्थ्यांना याची जाणीव आहे त्यामुळे योग्य नियंत्रण ठेवता येते.
  - महाविद्यालयाच्या माहिती पुस्तकात या विषयी योग्य ती माहिती देण्यात आली आहे. त्यामुळे विद्यार्थ्यांबरोबरच पालकांपर्यंत ही माहिती पोहचते.
  - महाविद्यालयातील प्रवेशित विद्यार्थ्यांना सदर अधिनियमांची माहिती करून देण्यासाठी अनेक ठिकाणी फलक लावण्यात आले आहेत.
- हे सर्व प्रयत्न जाणीवपूर्वक केल्यामुळे महाविद्यालयातील रॅगिंग प्रतिबंधक यंत्रणा अधिक सक्षम झाली आहे. त्यामुळे रॅगिंगची एकही घटना महाविद्यालयात घडलेली नाही.

- डॉ. एन. जे. कुलकर्णी, उपप्राचार्या

## Earn & Learn Scheme

In the academic year 2013-14, our college made a record, in the history of Board of students welfare, 'Earn and Learn Scheme'. The college has spent, Rs. 6,21,000/- (Six Lakh twenty one thousand) and the amount received by the college, was Rs. 5,14,800/- (Five lakhs, fourteen thousand and eight hundred only).

Students belonging to S.C., S.T., V.J.N.T., category, orphans, and minority, can enroll their names in the scheme. Preference is given to the poor, needy, deserving and economically backwards students.

The students have to attend their lectures, as well as practical. In their available free time, they can work in any department of Modern College where vacancy exists. The remuneration is deposited, by cheque, in any of the branches of Bank of Maharashtra only.



In all 92 students participated, in this scheme, in 15 different departments of Modern College. These are 1) Psychology, 2) Botany, 3) Economics, 4) Office, 5) NSS, 6) Karate Dept, 7) Statistics, 8) Marathi, 9) Chemistry, 10) Competitive Examination, 11) Computer Science, 12) Library, 13) Ladies room, 14) Cleanliness Dept. 15) Vermicompost Unit.

Dr. Sudhir Ujlambkar, Students' welfare officer for last 12 years, is looking after the Earn and Learn Scheme with the help of teaching and non-teaching staff members of Modern College, Pune 5.

On behalf of all committee members, we are thankful for the continuous help and constant encouragement, throughout the year, given by College Registrar, all heads of departments, all Vice-Principals, Secretary and Principal Dr. R. S. Zunjarrao.

**Dr. S. K. Ujlambkar,**  
Student Welfare Officer  
Earn and Learn Scheme

## **Department of Physical Education (Junior)**

We are proud to inform that 275 players of Junior college participated in team events as well as individual events at the inter school and various levels for the year 2013-14 organized by District sports office & Municipal corporation.

### **Team events**

#### **Netball Boys**

Netball Boys team got 1<sup>st</sup> Place in the inter school District Under 19 Championship & the team was selected for Inter Zonal Tournament which was held at Solapur. The team got 3<sup>rd</sup> place.

The team members were as follows

- |                      |                  |
|----------------------|------------------|
| 1. Shubham Ghadhve   | 12 <sup>th</sup> |
| 2. Manoj Khamkar     | 11 <sup>th</sup> |
| 3. Vivek Nagavade    | 11 <sup>th</sup> |
| 4. Siddhesh Uttarkar | 11 <sup>th</sup> |
| 5. Aditya Dharmavat  | 12 <sup>th</sup> |
| 6. Sumit Waghmode    | 11 <sup>th</sup> |
| 7. Anuj Sawant       | 12 <sup>th</sup> |
| 8. Aakash Salunke    | 11 <sup>th</sup> |
| 9. Makrand Pawar     | 11 <sup>th</sup> |
| 10. Aniket Taru      | 11 <sup>th</sup> |
| 11. Gaurav Dhore     | 11 <sup>th</sup> |

#### **Volleyball Boys**

Volleyball Boys team got 3<sup>rd</sup> Place in the inter school District Under 19 Championship

The team members were as follows :

- |                     |                  |
|---------------------|------------------|
| 1. Shaunak Pawar    | 11 <sup>th</sup> |
| 2. Ashwin Harke     | 11 <sup>th</sup> |
| 3. Shubham Bargal   | 11 <sup>th</sup> |
| 4. Vedant Natu      | 11 <sup>th</sup> |
| 5. Siddhant Shitole | 11 <sup>th</sup> |
| 6. Javed Sayyad     | 11 <sup>th</sup> |
| 7. Shambhuraj Patil | 11 <sup>th</sup> |
| 8. Saurabh Kambale  | 11 <sup>th</sup> |
| 9. Mahesh Giri      | 11 <sup>th</sup> |
| 10. Harshal Shinde  | 11 <sup>th</sup> |
| 11. Rohit Gaikwad   | 11 <sup>th</sup> |
| 12. Atharva Naik    | 12 <sup>th</sup> |

### **Tine-quite Girls**

Team got 3<sup>rd</sup> place in the inter school District Under 19 Championship

The team members were as follows :

- |                     |                  |
|---------------------|------------------|
| 1. Harshali Chopade | 11 <sup>th</sup> |
| 2. Kanchan Khaire   | 11 <sup>th</sup> |
| 3. Ashwini Maral    | 11 <sup>th</sup> |
| 4. Preeti Bhilare   | 11 <sup>th</sup> |

### **Individual Achievements 2013-14**

**Bina Negi** of 12<sup>th</sup> std got 3<sup>rd</sup> place in interschool Kick Boxing & Karate and 1<sup>st</sup> Place in Interschool, Inter Zonal Competition in the below 57kg. & 54kg group. She got Bronze Medal in State Level Competition

**Tejal Sonawane** of 12<sup>th</sup> std got 1<sup>st</sup> Place in Interschool, Inter zonal & State wrestling Competition. She also got Bronze Medal in National Level Competition.

**Rutuja Kapdekar** of class 12<sup>th</sup> std got 1<sup>st</sup> Place in Interschool, Inter zonal Chess Competition and participated in State level Competition.

**Radha Gokhale** of class 12<sup>th</sup> std got Silver Medal in National Level ice skating Competition.

**Suraj Vidhate** of 11<sup>th</sup> std got 1<sup>st</sup> place in interschool Kick Boxing & Boxing Competition in the below 57kg & 54 kg group. 1<sup>st</sup> place in Inter Zonal Competition. He also got Bronze Medal in State Level Competition.

**Suraj Anpat** of 11<sup>th</sup> got 1<sup>st</sup> Place in Interschool, Inter zonal & State Archery Competition. He also was selected for National level Competition.

**Amruta Munj** of 11<sup>th</sup> std got 1<sup>st</sup> Place in Interschool, Inter zonal & State level Kayaking Competition. She was selected for National Level Competition.

**Suprabha Pujari** of 11<sup>th</sup> std got 3<sup>rd</sup> Place in Interschool, 1<sup>st</sup> Place in Inter zonal & State Lawn Tennis Competition and participated in National level Competition.



**Shubham Todkar** of 11th std Div got 1<sup>st</sup> Place in Interschool & Inter zonal and 2<sup>nd</sup> Place in State Weight Lifting Competition.

**Pramod Ambike** of 11th std got 2<sup>nd</sup> Place in Interschool and 1<sup>st</sup> Place in Inter zonal. Also participated in State Level Cycling Competition.

**Tanya Ghokale** of 11th std got 1<sup>st</sup> Place in Interschool, Participated in Inter Zonal & Got Gold Medal in State Level Rope Mallakhamb Competition.

**Minakshi Shinde** of 11th std Div. got 1<sup>st</sup> Place in Interschool, participation in Inter Zonal level Fencing Competition.

**Apoorva Chavan** of 11th std got 2<sup>nd</sup> Place in Interschool, participation in Inter Zonal level Fencing Competition.

**Yusuf Khan** of 11th std got 1<sup>st</sup> Place in Interschool, participated in Inter Zonal level Kick Boxing & Sikai Marshal Competition.

**Suyag Babar** of 11<sup>th</sup> std got 3<sup>rd</sup> Place in Interschool, participated in Inter Zonal level Archary Competition.

**Swapnali Kakade** of 11th std got 3<sup>rd</sup> Place in Interschool, participated in Inter Zonal level Cycling Competition.

**Harshal Kulkarni** of 11th std got 3<sup>rd</sup> Place in Interschool & 3<sup>rd</sup> Place in State level Swimming Competition.

**Samrudhi Dhabade** of 11th std got 2<sup>nd</sup> Place in Interschool & Participation in State level Fencing Competition.

**Aboli Balwadkar** of 11th std participated in State level Fencing Competition.

**Preeti Bhilare** of 11th std participated in State level Tinequite Competition.

**Rohit Gaikwad** of 11th std participated in State level Volleyball Competition.

**Sumit Waghmode** of 11th std participated in State level Throw ball Competition.

**Gaurav Dhore** of 11th std participated in State level Netball Class.

**Yogesh Patil** of 11th std got 3<sup>rd</sup> Place in Interschool level Wrestling Competition.

**Akshay Salve** of 11th std got Silver Medal in Cricket International Level Competition.

**Aditya Jadhav** of 11th std Participated in State level Fencing Competition.

Physical Education Examination conducted at the end of first and second term for the standard XI and standard XII.

**Prof.Kute.D.S.**

**Prof. Bhondave S.S**

**Prof. Dixit.P.S.**

Chairman (G.M.C)

## Department of Physical Education (Senior)

### Departmental Activities

#### Intercollegiate Participation

Department has participated in 29 disciplines i.e. Badminton, Chess, Cross Country, Shooting, Swimming, Ball Badminton, Baseball, Basketball, Cricket, Cycling, Gymnastics, wrestling, Kabaddi, Football, Handball, Volleyball, Hockey, Judo, Boxing, Softball, Pw Lifting, Weight Lifting, Best Physique, Athletics, Kho-Kho, Lawn Tennis, Korfball, Table Tennis and Netball Competitions. Similarly college has participated in various Invitational Intercollegiate Competitions. **College has secured 1<sup>st</sup> place in Kho-Kho (W), Korfball, Netball (M/W), Second Place in Volleyball (W) and Third place in Handball (M), Softball (M), and Baseball (M).** College Students have also bagged various medals in individual events.

Details of the participation are as follows,

Sr. No.	Level of Participation	Participation	Bronze	Silver	Gold	Total
1	District/Intercollegiate	192	25	8	16	241
2	State/Interzonal	9	2	8	13	32
3	National	19	-	1	-	20
	<b>Grand Total</b>	<b>220</b>	<b>27</b>	<b>17</b>	<b>29</b>	<b>293</b>

#### Interclass Competitions

Interclass competitions for the promotion of the certain games and entertainment purpose were organized from 27<sup>th</sup> December 2013 to 8<sup>th</sup> January 2014. Football, Basketball, Volleyball, Badminton, Table Tennis and Chess were the events organized during this period.



### **Team Event Performance**

#### **Inter Class Basketball**

##### **1st Place (F.Y.B.Com. C)**

Sanket Gurav, Akshay Takalkar, Ashwin Mehendale, Omkar More, Ashitosh Gaikwad, Aniket Khude, Nikhil Jog

##### **2nd Place (S.Y.B.Com.)**

Sachin Shinde, Oswal Vrushab, Omkar Kotalkar, Suraj Alhat, Surendra Singh, Rohit Kotavle, Tejas Bomble, Tushar Tambat

##### **3rd Place (T.Y.B.A. A)**

Ganesh Kale, Abhishek Gosavi, Amar Rakshe, Shahrukh Shaikh, Pradeep Dolas, Kunal Sable, Shekar Pawar

#### **Inter Class Football**

##### **1st Place (S.Y.B.Com.B)**

Tejas Bomble, Rohan Pushpraj, Tushar Tambat, Vinay Nayar, Anshul Ojha, Nachiket Rakhelkar, Akshay Bhalerao, Sachin Shinde

##### **2nd Place (T.Y.B.Com.A)**

Ganesh Kale, Abhishek Gosavi, Amar Rakshe, Pradeep Dolas, Shekar Pawar, Shahrukh Shaikh, Kunal Sable

##### **3rd Place (F.Y.B.C.S.)**

Kartik Naik, Advay T, Karan S, Aniket T, Vaibhav S, Chetan P, Prasad P, Advait T,

#### **Inter Class Volley Ball**

##### **1st Place (S.Y.B.Com.B)**

Sachin Shinde, Oswal Vrushab, Omkar Kotalkar, Rohit Kotalkar, Tushar Tambat, Rohit Jadhav, Rohan Kaushal, Aniket Palande

##### **2nd Place (T.Y.B.C.S.)**

Tushar Jadhav, Sachin Jagtap, Abhishek Gaikwad, Ashish Kambhar, Jayesh Jain, Vishal Chichle, Prashant Jachak, Pradeep Jangid, Vrushir Patil, Rahul Iyer, Akshay Bahirat

##### **3rd Place (F.Y.B.A.)**

Yogesh Vaghmare, Akshay Salunkhe, Ajinkya Jadhav, Pruthviraj Chavan, Akshay Darekar, Rushikesh Naik, Swapnil Pardi, Sagar Kamble, Riyaj Makandar, Pranav Jagtap

### **Individual Event Prize winner**

#### **Badminton Single**

Shamali Mahajan (W)	First Place
Prerna Chandekar (W)	Third Place
Aditya Gunjal (M)	First Place
Nikhil Dhure (M)	Second Place

### **Football League**

For Third Consecutive year we organized Football League successfully. Students from Junior And Senior wings played and organized the events together. Eight teams each containing at least eight players from Junior And Senior wings each played for their respective teams. Titanium and Play Makers bagged the Winner and Runners up titles respectively.

#### **Winner Team (Titanium)**

Aniket Kokate(Captain), Shubham Mahale, Sumit Bhandari, Amol Ghadge, Vaibhav Chavan, Vicky Singh, Saurabh Gayal, Akash, Tushar Tambat.

#### **Runner Up Team (Play Makers)**

Ganesh Kale(Captain), Aniket Kand, Apoorv Kadam, Siddhesh Khamka, Sagar Ghare, Shanrukh Shaikh Amit Rakshe, Pawan Patil, Akshay Lalbighi.

### **Hockey League (M/W)**

Our College organized Hockey League for the first time this year. Students from Junior And Senior wings (M/W) were played and organized the events together. Eight teams each containing at least six players from Junior And Senior wings each played for their respective teams.

#### **Hockey League**

##### **Winner(M)**

Sourabh Thombare, Swapnil Kuchekar, Nikhil Goellu, Abhishek Vartak, Rushi Sarolkar, Ritesh Rathod.

##### **Runner Up**

Girish Pujari, Anikrt Uttarkar, Siddhesh Uttarkar, Edwin Anthony, Prasad Palande, Prathamesh Ghodke.

##### **Winner(W)**

Sudha Kanhurkar, Mamata Chejara, Snehal Palkar, Tejaswini Bagade, Salomi Chandekar, Komal Gadkar.

##### **Runner Up**

Neha Pawar, Meenal Shukla, Suchita Palkar, Sayali Jachak, Sindhuja K P, Ashlesha Nimbalkar.

### **Coaching Camp**

College organized special coaching camps for Softball to enhance the skill and strategic development of the players. These efforts gave results by placing college teams in good position in Intercollegiate Competitions.



## **Sports Organization**

### **Intercollegiate Korfball**

A Korfball competition was organized on 3<sup>rd</sup> January 2014. Modern College, Shivajinagar, Pune-05 lifted the championship trophy proudly. Tournament was inaugurated at the hands of our Principal Dr. R.S. Zunjarrao.

### **Interzonal Basketball (W)**

Interzonal Basketball (W) tournament was organized by our college on 17<sup>th</sup> and 18<sup>th</sup> October 2012. Chief Guest for the opening ceremony was Mrs. Anjali Dalavi, Arjun Awardee and the tournament was inaugurated by Principal Dr. R.S. Zunjarrao. Four teams from Pune University i.e. Pune City, Pune District, Ahmednagar and Nashik participated. Pune city won the title.

### **Interzonal Cycling**

Interzonal Cycling competitions were organized by our college at Shiv Chhatrapati Stadium, Balewadi on 20<sup>th</sup> September 2013. Four teams from Pune University i.e. Pune City, Pune District, Ahmednagar and Nashik participated in the track events. Dr. Deepak Mane, Director of Sports, Pune University inaugurated the event.

### **Interzonal Korfball**

Interzonal Korfball tournament was organized by our college on 17<sup>th</sup> and 18<sup>th</sup> October 2012. Chief Guest for the opening ceremony was Prof. Prakash Dixit, Joint Secretary P.E.S's and the tournament was inaugurated by Principal Dr. R.S. Zunjarrao. Four Teams from Pune University i.e. Pune City, Pune District, Ahmednagar and Nashik participated. Pune District won the title.

### **Modern Harmony 2013-14**

Modern Harmony 2013 Sports Festival was organized from 12<sup>th</sup> January to 25<sup>th</sup> January 2014. Festival started on 12<sup>th</sup> January 2013 with Volleyball, Five-a-Side Football and Best Physique competitions were organized in this festival.

### **Kanitkar Sports Festival 2013-14**

Kanitkar Sports Festival was organized from 3<sup>rd</sup> February to 13<sup>th</sup> February 2014. Chief Guest for the opening ceremony was Mr. V. B. Gaikwad (BCUD Director, University of Pune) & Dr. Deepak Mane, Director of sports, Pune University inaugurated the event. Our College players participated and the result were as follows : Volleball(M)- 1<sup>st</sup> Place, Volleball(W)- 2<sup>nd</sup> Place, Basketball (M/W)- 2<sup>nd</sup> Place, Football(M)- 1<sup>st</sup> Place. Staff members also participated and the results were as follows : Dodgeball (W)-1<sup>st</sup> Place, Throwball (W) - 1<sup>st</sup> Place, Cricket (M)- 1<sup>st</sup> Place, Volleyball (M).

## **State level Softball tournament**

For the first time we organized State level Softball tournament. This was organized between 31<sup>st</sup> Jan and 1<sup>st</sup> Feb 2014. Tournament was inaugurated by Principal Dr. R.S. Zunjarrao. Teams from Mumbai, Indapur, Pune participated in this event. S.P College, of Pune won the title, second place went to Atharv College Of Engg. Mumbai and Modern College, Shivajinagar, Pune, stood third.

### **Fitness Assessment of the College Staff**

Fitness assessment of the staff members was conducted on 19<sup>th</sup> January 2013 for the BBA/BCA staff, on the occasion of National Youth Week celebration.

### **Training Programme on Movement Mechanism & Yoga for College Staff**

Training Programme on Movement Mechanism & Yoga for College Staff was conducted on 15<sup>th</sup> March 2014 for the BBA/BCA staff.

## **Sports Scholarship**

This year following National players received the Sports Scholarship;

No.	Name of the student	Event
1	Deepali Gaikwad	Kho-Kho
2	Pratima Nimbalkar	Kho-Kho
3	Rohan Joshi	Chess
4	Trunal Dhadge	Netball
5	Atul Daundkar	Netball
6	Siddhi Bhaip	Shooting
7	Sayali Kardekar	Volleyball
8	Supriya Borchate	Shooting
9	Pavitra Pawar	Kick Boxing
10	Kirti Kadam	Kho-Kho
11	Priyanka Patil	Kick Boxing

### **Annual Prize Distribution "Gymkhana Day"**

Annual Prize distribution i.e. "Gymkhana Day" was celebrated on 28<sup>th</sup> February 2014. Deputy Director, Sports & Youth Services, Maharashtra State Mr. Janak Tekale & International Athletics player Mr. Krishnkumar Rane were the chief guests and Principal Dr. Rajendra Zunjarrao presided the function. The prizes were distributed to the following players.

### **Intercollegiate Level Performers**

Aniket Kude - Korfball - Winner  
Anjali Ghundre-F.Y.B.Com.-Kho-Kho-Winner  
Anurag Nambiyar - S.Y.B.A. - Netball - Winner  
Bindiya Walmiki -S.Y.B.Com.-Netball-Winner  
Jonathan Ben - S.Y.B.A. - Netball - Winner



Kiran Shirsath - Relay - 3rd Place  
 Kho-Kho - Winner  
 Korfball - Winner  
 Poonam Kadam - T.Y.B.Sc.- Relay- 3rd Place  
 Kho-Kho - Winner  
 Shubhangi Shendage, F.Y.Bcom - Kho-Kho - Winner  
 Pradnya Chinchawade - F.Y.B.C.A.- Netball - winner  
 Priyanjali Khandave- F.Y.B.C.A.-Netball - Winner  
 Sayali Bhalerao - F.Y.B.Com. - Kho-Kho - Winner  
 Sayali Karape - S.Y.B.Sc. - Netball - Winner  
 Shamal Tapkir - S.Y.B.Sc. - Netball - Winner  
 Shruti Jagatap S.Y.B.A. - Netball - Winner  
 Swati Kokane - S.Y.Bcom - Kho-Kho - Winner  
 Upasana Choudhari - F.Y.B.Sc.-Kho-Kho-Winner  
 Kajal Saini - Volleyball - Runner Up  
 Anuja Telang - Volleyball - Runner Up  
 Kalyani Mahadik - Volleyball - Runner Up  
 Kshitija Dongare - Volleyball - Runner Up  
 Nikita Pavashe-T.Y.B.B.Sc.-Volleyball - Runner Up  
 Reena Dangi - S.Y.B.Sc.-Volleyball - Runner Up  
 Shubhangi Patil - S.Y.B.A. - Volleyball - Runner  
 UpSonal Pote - F.Y.B.Sc. - Volleyball - Runner Up  
 Aditya Zaware - M.A. - Handball - 3rd Place  
 Ajinkya Hawaldar - Handball - 3rd Place  
 Amit Mhetras - M.Com. I - Handball - 3rd Place  
 Mahesh Agam - Baseball - 3rd Place  
 Pradip Dolas - T.Y.B.A. - Handball - 3rd Place  
 Prasanna Deshmukh-S.Y.B.A.- Handball - 3rd Place  
 Pruthviraj Chavhan - F.Y.B.A. - Handball- 3rd Place  
 Tushar Waral - S.Y.B.Com. - Baseball - 3rd Place  
 Uday Arekar - Baseball - 3rd Place  
 Vaibhav Kulkarni - F.Y.B.B.A. - Baseball - 3rd Place  
 Shubham Valunj - F.Y.B.Com. - Softball - 3rd Place  
 Baseball - 3rd Place  
 Sagar Jathar - F.Y.B.Sc. - Softball - 3rd Place  
 Baseball - 3rd Place  
 Avinash Poman - S.Y.Bcom - Softball - 3rd Place  
 Baseball - 3rd Place  
 Bajarang Dhere - F.Y.B.C.S.- Softball - 3rd Place  
 Baseball - 3rd Place  
 Chetan Baramatkar - M.Com. - Softball - 3rd Place  
 Baseball - 3rd Place  
 Harshal Rathi - Softball - 3rd Place  
 Baseball - 3rd Place  
 Prakash Patil - F.Y.B.Com. - Softball - 3rd Place  
 Baseball - 3rd Place  
 Mayur Kamble - F.Y.B.B.A. - Baseball - 3rd Place  
 Atul Daundkar - M.Com. - Handball - 3rd Place

## Interzonal / State Level Performers

Vikrant Jagtap - M.Com.  
 Inter Collegiate Competition - 3rd Place - Softball  
 State - Participation - Baseball  
 Ajit Bhalerao - T.Y.B.Com.  
 Inter Zonal Competition - Runner Up - Baseball  
 Inter Zonal Competition - Winner - Softball  
 Akshay Takalkar - F.Y.B.Com. - Netball  
 Inter Zonal Competition - Winner  
 Akshay Walmiki - F.Y.B.Com. - Body Building  
 Inter Zonal Competition - Participation  
 Anju Yadav - F.Y.B.Sc.  
 Inter Zonal Competition - Winner - Netball  
 Inter Zonal Competition - Runner Up - Korfball  
 Kalyani Lonari - S.Y.B.Com.  
 Inter Collegiate Competition - 3rd Place - Relay  
 Inter Zonal Competition - Runner Up - Kho-Kho  
 Karishma Manakar - S.Y.B.C.A. - Boxing  
 Inter Zonal Competition - Runner Up  
 Mahadeo Jadhav - F.Y.B.Sc.  
 Inter Zonal Competition - Participation - Weight  
 Lifting  
 Inter Collegiate Competition- 3rd Place - Handball  
 Manisha Barsawade - F.Y.B.Com.  
 Inter Collegiate Competition - 3rd Place - Relay  
 Inter Zonal Competition - Runner Up - Kho-Kho  
 Mayur Dhamal - F.Y.B.Com.  
 State - Participation - Power Lifting  
 Inter Zonal Competition - Winner - Weight  
 Lifting  
 Neha Sapate - S.Y.B.Sc.  
 Inter Zonal Competition - Winner - Netball  
 Inter Zonal Competition - Runner Up - Korfball  
 Nidhi Bhutada - S.Y.B.Com. - Volleyball  
 Inter Zonal Competition - Winner  
 Omkar Kotalkar - S.Y.B.Com.  
 Inter Collegiate Competition - 3rd Place - Softball  
 Inter Zonal Competition - Runner Up - Baseball  
 Pavitra Pawar - S.Y.B.A.  
 State - Winner - Karate  
 Prachi Kurkute - T.Y.B.Com.  
 Inter Zonal Competition - Winner - Netball  
 Inter Zonal Competition - Runner Up - Korfball  
 Pranav Zarekar - S.Y.B.Com.-Kho-Kho - Runner Up  
 Priynka Patil - S.Y.B.A.  
 State - Winner - Karate  
 Rohit Kotavale - S.Y.B.Com. - Volleyball  
 Inter Zonal Competition - Participation  
 Saddam Khanbhai - F.Y.B.Com.



Inter Collegiate Competition - Winner - Netball  
Inter Zonal Competition - Runner Up - Korfball  
Sandip Tambe - M.Sc. I - Kho-Kho

Inter Zonal Competition - Runner Up  
Sanket Gurav - F.Y.B.Com.

Inter Collegiate Competition - Winner - Netball  
Inter Zonal Competition - Runner Up - Korfball  
Shashi Pillay - T.Y.B.Com. - Hokey

Inter Zonal Competition - Participation

Shyam Tilekar - F.Y.M.C.A. - Judo

Inter Zonal Competition - Participation

Tejashri Kadam - F.Y.B.Com. - Relay

Inter Collegiate Competition - 3rd Place - Relay

Inter Zonal Competition - 3rd Place

Tejas Bomble - S.Y.B.Com. - Football

Inter Zonal Competition - Winner

Vaibhav Balwadakar - S.Y.B.B.A.

State - Participation - Baseball

Inter Zonal Competition - Winner - Softball

Vicky Choudhary - S.Y.B.C.A. - Cycling

Inter Zonal Competition - Participation

Vinayak Avati - F.Y.B.A. - Gymnastics

Inter Zonal Competition - Participation

Kalpesh Thomare - S.Y.B.B.A. - Taekwondo

State - 3rd Place

Tushar Jadhav - T.Y.B.Sc. - Volleyball

State - Participation

Kirti Kadam - M.Com. - Kho-Kho

Ashwamedh - Winner

Sayali Jachak - F.Y.B.Com. - Netball

Inter Collegiate Competition - Winner

Inter Zonal Competition - Winner

#### **National & Inter University Level Performers**

##### **All India Inter University Competition**

Siddhi Bhaip - F.Y.B.Sc. - Shooting - Participation

Rohan Joshi - T.Y.B.Com. - Chess - Participation

Prashant Arsul - T.Y.B.Com. - Handball - Participation

Pratima Nimbalkar - M.A. - Kho-Kho-Participation

Deepali Gaikwad - M.A. - Kho-Kho - Participation

Ashwin Mehendale-F.Y.B.Com.-Netball - Participation

Nikhilesh Nirupan - Football - Participation

Akash Barkul- T.Y.B.Com. - Shooting - Participation

Aishwarya Shetty - T.Y.B.Com.- Participation - Korfball and Netball

Atul Daundkar - M.Com - Participation - Netball and Korfball

Sudhanshu Medsakar - Badmiton - Participation

Sampada Telang - F.Y.B.C.S - Swimming  
National - Participation

Amey Gayal - F.Y.B.Com. - Swimming  
National - Runner Up

Akash Zambare - T.Y.B.A. - Handball

Inter Collegiate Competition - Winner - Netball

Inter Zonal Competition - Winner - Ball Badmiton

All India Inter University Competition - Participation

Sachin Shinde - S.Y.B.Com.

Inter Zonal Competition - Winner - Netball

National - Participation - Korf Ball

Salomi Chandekar - F.Y.B.Com.

Inter Collegiate Competition - Winner - Korfball

All India Inter University Competition - Participation - Netball

Sayali Kardekar - M.Com. - Volleyball

National - Participation

Supriya Borchate - F.Y.B.A. - Shooting

National - Winner

All India Inter University Competition - Winner

Swapnil Jarande

Inter Collegiate Competition - 3rd Place - Softball

Inter Collegiate Competition - 3rd Place - Baseball

All India Inter University Competition - Participation - Netball

Trunal Dhadge - M.Com

Inter Zonal Competition - Runner Up - Korfball

Inter Zonal Competition - Winner - Handball

All India Inter University Competition - Participation - Netball

Hearty Congratulations to State Government Shiv Chhatrapati sports award winners :

2010-11 - Mr. Sangram Chougule - Best Physique

2011-12 - Miss. Kiran Pethe - Judo

**Prof. Pratima Lonari**

Director of Physical Education

**Prof. Vikram Phale**

Director of Physical Education

**Prof. P. G. Dixit**

Chairman GMC



## Prize Distribution Committee

Sr no.	Name of member	Sr No.	Name of member
1	Dr. Joag Sushama (Advisor)	13	Prof. Kamble A.T.
2	Prof. Ghanekar Madhuri (Chairperson)	14	Prof. Karekar S.J.
3	Dr. Sane Manisha (Coordinator)	15	Prof. Kulkarni Ameeta
4	Prof. Bansode R.D.	16	Prof. Lodh Dipali
5	Prof. Bobade V.N.	17	Prof. Mahajan Nivedita
6	Prof. Gaikwad D.B	18	Prof. Mujumdar Shilpa
7	Prof. Gangurde S.S.	19	Prof. Patil Neeta
8	Prof. Gopale K.D	20	Prof. Sherkhane L.M. (Advisor)
9	Prof. Ingole R.N.	21	Prof. Suryavanshi Vinod
10	Prof. Jagtap V.K.	22	Shri. Kale V.V. (Office)
11	Prof. Joshi Vandana	23	Shri Navale Nilesh (Office)
12	Prof. Gawade Rohan	Co-opted members	· Prof. Jigisha Pawar · Prof. Trupti Gohad

Annual Prize Distribution (Academic) was organized on **Friday, 31<sup>st</sup> Jan. 2014**. **Prof. Dr. K.C. Mohite, Dean, Science Faculty, University of Pune & Principal, H.V. Desai College** was present as the **Chief guest**. By citing examples of several scientists, motivated students to become successful in life. His talk was very informative.

### LIST OF THE PRIZE WINNERS 2013-14

Sr.No.	Name of the Student	Criteria	Name of the Prize
<b>A Students of XI Class</b>			
1	Kate Aditya Atul	Boy from Modern High School (Marathi Medium) Pune 5 with highest total at X	Late Govind Nirgudkar scholarship
2	Vadile Bhoomika Girishkumar	Girl from P. E. S.'s Girls High School Pune 5 with highest total at X	Late Seetabai Nirgudkar scholarship
3	Kulkarni Aditya	Student from a school of P.E.S. with highest total at X (All)	Dwarika Sangamnerkar Prize
<b>B Students Passing XI Arts</b>			
1	Suryavanshi Pallavi	Highest Total at XI Arts	Staff Fund Prize
<b>C Student Passing XI Commerce</b>			
1	Tiwari Samriddhi Nawalkishor	Highest total at XI Commerce	1. Late Vinod Narayan Ekbote Prize 2. Staff Fund Prize
2	Chutke Sanjana Sachin	Highest marks in S.P. at XI Com.	G. D. Nargund Prize
3	Harkare Anagha Atul	Highest marks in Book- Keeping & Accountancy at XI Commerce	Late Prof. Jyotsna Godbole Prize
4	Kudmule Ganesh Vitthal	Highest marks in Book-Keeping & Accountancy at XI Commerce	Late Prof. Jyotsna Godbole Prize



<b>D Students Passing XI Science</b>			
1	Peshwe Sarthak Sandeep	Highest total at XI Science Exam	Staff Fund Prize
		Securing highest marks at Physics at XI Science	Dwarkabai Parasnis Prize
		Securing highest marks in Mathematics at XI Science	1) Late Shri Balkrishna Likhite Prize
		Securing highest marks in Chemistry at XI Science	1) Late shri Balkrishna Likhite Prize
2	Gawade Rohan	Securing highest marks at Physics at XI Science	Dwarkabai Parasnis Prize
3	Amup Meghana Jayshing	Securing highest marks in Mathematics at XI Science	Late Shri Balkrishna Likhite Prize
4	Tappu Chaitanya	Securing highest marks in Mathematics at XI Science	Late Shri Balkrishna Likhite Prize
		Excellent academic achievement Jr. Wing	Late Pandurang Vishnu Mahadkar Prize
<b>E Students Passing XII (Arts / Science / Commerce) Exam.</b>			
1	Gawande Ramdas Bhaurao	Securing highest marks in Marathi at XII	1) Late Gauribai Mahadev Sidhaye Prize 2) Scholar Batch Prize
		Securing highest marks in Geography at XII	New Scholar Batch Prize
		Securing highest marks in Economics at XII	New Scholar Batch Prize
		Securing highest marks in Politics at XII	New Scholar Batch Prize
		Highest Total at XII Arts	1) Staff Fund Prize 2) Scholar Batch Prize 3) Balkrishna Rasane Prize
		Highest Total at XII Arts & admission to F.Y.B.A.in this college	Vasudevrao Tatke Prize
2	Dhadge Akshay (Sci)	Securing highest marks in English at XII	Scholar Batch Prize
3	Sataskar Amruta (Sci)	Securing highest marks in English at XII	Scholar Batch Prize
4	Daphat Manisha (Sci.)	Securing highest marks in Hindi at XII	Scholar Batch Prize
5	Pooja Sohani (Comm.)	Securing highest marks in Sanskrit at XII	1) Late Shreepad Malhar Joshi Prize 2) Pralhad Nimbraj Satbhai Prize 3) Scholar Batch Prize



6	Gayatri Achyut (Sci)	Securing highest marks in German at XII	1) Late Shreepad Malhar Joshi Prize 2) Scholar Batch Prize
7	Chavan Neeraj (Sci)	Securing highest marks in Geography at XII	New Scholar Batch Prize
8	Navangul Sharvani(Com.)	Securing highest marks in Economics at XII	New Scholar Batch Prize
9	Rajput Shahrukh Ashik	Securing highest marks in History at XII	New Scholar Batch Prize
10	Shinde Akshada	Securing highest marks in Psychology at XII	New Scholar Batch Prize

#### **F Students Passing XII Commerce**

1	Khandekar Snehal Bajirao	Highest total at XII Commerce	1) Late Vinod Narayan Ekbote Prize 2) Balkrishna Rasane Prize
		Securing highest marks in Secretarial Practice at XII Com.	1) Nargund Prize 2) New Scholar Batch Prize
		Girl with highest total at XII Com.	Late Jyotsna Godbole Prize
2	Darshan Shah	Boy with highest total at XII Com.	1) Vasudevrao Tatke Prize 2) Late Jyotsna Godbole Prize
		Highest total at XII Commerce & admission to F. Y. B. Com. & admission in this-college	Late Vasudevrao Tatke Prize
		Highest marks in Mathematics at XII Com.	1) A.P.Phadke Prize 2) New Scholarship Prize
		Highest marks in Book-Keeping & Accountancy at XII Commerce	1) Late Jyotsna Godbole Prize 2) Scholar Batch Prize
3	Purandare Mandar	Highest marks in Book-Keeping & Accountancy at XII Commerce	1) Late Jyotsna Godbole Prize 2) Scholar Batch Prize
		Securing highest marks in Information Technology XII Com.	New Scholar Batch Prize
4	Thakur Shankar	Securing highest marks in Organization Of Commerce and Management at XII Com.	New Scholar Batch Prize
		Past student of Modern Highschool Pune-05 with minimum 75% mark admission to this college and most deserving and promising student	Dattatraya Krishna Shenolikar Scholarship
5	Paliwal Akanksha	Securing highest marks in Information Technology XII Com.	New Scholar Batch Prize



G Student Passing XII Science			
1	Yeole Priyanka	Highest total at XII Science	1) Vasantao Sukhtankar Prize 2) Balkrishna Rasane Prize 3) Late Raobahadur D. Balwant Prize 4) New Scholar Batch Prize
		Highest marks in PCM group at XII Science	Late Dr. D. K. Atre Prize
		Highest marks in Computer Science at XII Science	New Scholar Batch Prize
2	Pathak Rahul	Highest marks in Mathematics at XII Science	1) A. P. Phadake Prize 2) Kamalabai Panase Prize 3) Scholar Batch Prize 4) Late Shri Balkrishna Likhite Prize
3	Sukthankar Nandan	Highest marks in Physics at XII Science	Scholar Batch Prize
4	Gaikwad Akshima	Highest marks in Chemistry at XII Science	1) Late Shri Balkrishna Likhite Prize 2) Scholar Batch Prize
5	Sedani Kanan	Highest marks in Biology at XII Science	Scholar Batch Prize
		Highest marks at XII Science, Merit admission to Medical, Student of P. E. S.'s School	R. B. Wagale Memorial Prize
6	Parvez Owais Aslam	Highest marks in Electronic Science at XII Science	New Scholar Batch Prize
7	Jadhav Shubham	Highest marks in Information Technology at XII Science	New Scholar Batch Prize
		Highest marks at XII Science, Merit admission to Engineering, Student of PES.'s School	R. B. Wagale Memorial Prize
8	Gandhi Akhilesh (Admission to IIT Powai)	Highest marks at XII Science, Merit admission to Engineering, Student of PES.'s School	R. B. Wagale Memorial Prize
9	Thakar Sushrut	Highest marks at XII Science, Merit admission to Engineering, Student of P ES.'s School	R. B. Wagale Memorial Prize
H Students Passing FYBA			
1	Vishvasrao Sameer Shankar	Highest total at FYBA	Staff Fund Prize
2	Jain Akshay Anilkumar	Highest marks in <b>General English</b> at FYBA & admission to <b>Special English</b> at SYBA in this college	Late Gopal Yashawant Parab Prize



<b>I Students Passing SYBA</b>			
1	Bhagat Sangram Bhusanrao	Highest total at SYBA	Staff Fund Prize
2	Manoorkar Satish Digambar	Highest marks in History (Special / General) at SYBA and admission to TYBA in this College	Late Sumatibai Hariramaji Bhiwagade Prize
<b>J Students Passing TYBA</b>			
1	Thakur Gaurav G.	Highest Total at TYBA (Marks out of 1200)	1) Staff Fund prize 2) Late Past Students Prize 3) Late Vasudev Vyankatesh Pandit Prize 4) Memento
2	Lote Anubha Dilip	Highest marks in Special English at TYBA (Marks out of 300)	Late Balkrishna Savalaram Rasane Prize
3	Gosavi Tejal K.	Highest Marks in Special Marathi At TYBA (Marks Out of 300)	1) Late Balnath Shankar Pathak Prize 2) Narayan Chepe Prize
<b>K Student Passing FYBSc</b>			
1	Minal M. Sable	Highest total at FYBSc	Staff Fund Prize
		Highest marks at FYBSc in B Group (Biology Group) (Marks out of 1200)	Narayanrao Bhagawat Prize
		Highest marks in Chemistry at FYBSc and admission to SYBSc. in this college	Dr. K. S. Kale Sponsored Prize
2	Naik Amey Ajit	Highest total at FYBSc (Comp Sci)	Prize sponsored by Mrs.Sangeeta Raut
3	Monika Kumari	Highest marks at FYBSc in A Group (Mathematics Group) (Marks out of 1200)	Narayanrao Bhagawat Prize
		Highest marks in Mathematics at FYBSc	Laxmibai Tatke Prize
4	Sapate Neha Dilip	Highest marks in Chemistry at FYBSc and admission to SYBSc in this college	Dr. K. S. Kale Sponsored Prize
5	Ambule Pramod	Highest marks in Statistics at FYBSc only	Vishvanath Ramchandra Dhongade Prize
<b>L Students Passing SYBSc</b>			
1	Labade Suraj	Highest marks in Electronics at SYBSc	Balkrishna Savalaram Rasane Prize
2	Shinde Aparna	Highest marks in Electronics at SYBSc	Balkrishna Savalaram Rasane Prize
3	Kirtiwar Saili Vishal	Highest marks in Microbiology at SYBSc	Mrs. Shamala Huddekar Prize sponsored by Dr. Shilpa Mujumdar



4	Sawant Vidya Shankar	Highest total at SYBSc	Staff Fund Prize
		Highest marks in Physics at SYBSc	Ravishankar Rasane Prize
		Highest marks in Mathematics at SYBSc	Prof. Pramila Chikate sponsored Prize
		Highest total at SYBSc & student of this college from XI to TYBSc	Matoshree Yashodabai Gadgil Paluskar Scholarship
5	Farad Bhakti Mahadev	Highest marks in Statistics at SYBSc	Late Indirabai Chirputkar Prize
		Highest marks in Chemistry at SYBSc & admission to TYBSc in this college	Sadashiv Vishwanath Joag Prize
		Deserving needy & good in academics student of TYBSc Statistics	Dr. Mrs. V.R.Prayag sponsored Prize
6	Jain Jayesh Ashok	Highest marks at SYBSc. (Comp Sci)	Prize sponsored by Mrs Madhuri Ghanekar.
		Excellent academic achievement (Sr. wing)	Late Pandurang Vishnu Mahadkar Prize

#### **M Students Passing TYBSc / TYBCS**

1	Shete Rahul	Highest total at TYBSc (Mathematics) Out of 1200	1) S. K. Argade Prize 2) Pralhad Nimbraj Satbhai Prize
2	Muluk Priyanka Ashok	Highest total at TYBSc (Statistics) Out of 1200	1) Nirmala Potnis Prize 2) Past Student Prize
3	Bhosale Shital Navnath	Highest total at TYBSc (Physics) Out of 1200	1) Ravishankar Rasane Prize 2) Late Prakash Bhagawat Prize 3) Department of Physics Prize
4	Bhat Padmanabhan V.	Highest total at TYBSc (Electronics) Out of 1200	Balkrishna Rasane Prize
		Highest total at TYBSc (Electronics) Out of 900	1) Sadashiv Vishwanath Joag Prize 2) Principal B. V. Bhide Prize
5	Kardile Rahul	Highest total at TYBSc (Chemistry) Out of 1200	Late Mai Bhide Prize
		Highest total at TYBSc (Chemistry) Out of 900	Late Dr. V. D. Vartak Prize
6	Pooja Kad	Highest total at TYBSc (Botany) Out of 1200	Prof. Mora Teja Chauhan Prize
		Best Graduate of the year	Principal V K Joag Prize
7	Pallavi Shewale	Highest total at TYBSc (Zoology) Out of 1200	1) Staff Fund Prize 2) Memento



8	Kamble Shubhada	Highest total at TYBCS Computer Science (marks Out of 1200)	Late Manorama Kolhatkar prize sponsored by Mrs.Madhuri Ghanekar
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#### **N Students Passing FYBCom**

1	Patel Rutumilan	Highest total at FYBCom	Staff Fund Prize
2	Nalawade Jyotsna	Highest marks in Mathematics at FYBCom	Vishwanath Madhav Rayarikar Prize

#### **O Students Passing SYBCom**

1	Gugale Aishwarya	Highest total at SYBCom	Staff Fund Prize
2	Rao Shruti Shripati	Highest marks in Statistics at SYBCom(All papers clear)	Late Sau Indirabai Chirputkar Prize
3	Kapre Saurabh	Highest marks in Banking at SYBCom	Sponsored by Dr. M.M. Satam
4	Lalbegi Akshay	Highest marks in Banking at SYBCom	Sponsored by Dr. M.M. Satam
5	Mhalaskar Rasika	Highest marks in Economics at SYBCom	Mrs. Sandhya Vartak sponsored Prize

#### **P Students Passing at TYBCom**

1	Dadhich Rahul Sushil	Highest total at TYBCom. Out of 1200	1) Staff Fund Prize 2) Nirmala Potnis Prize 3) Past student Prize 4) Trimbak P. Gondhalekar Prize 5) Vasudev Vinayak Pandit Prize 6) Memento
2	Shelke Yuvraj	Highest marks in Advanced Costing at TYBCom (Consider total marks of Cost & Works accountancy)	Balkrishna Rasane Prize
3	Shilpa Raju	Highest marks in M. Law at TYBCom.(Consider marks in M. & Ind. Law	Ravishankar Rasane Prize
4	Gandhi Mayuri	Highest marks in Banking at TYBCom	Vishwanath Madhav Rayarikar Prize
5	Shinde Udhav	Highest marks in Banking at TYBCom	Vishwanath Madhav Rayarikar Prize
6	Kale Kalyani	Highest marks in Statistics at TYBCom	Chandrakant Moreshwar Shinde Prize
7	Sakhare Amruta	Highest marks in Accountancy & Auditing	Matoshree Mulabai Karnavat Prize
9	Gawade Vikram	Highest marks in Marketing at TYBCom	Late Jivita Gujar Memorial Prize



10	Ughade Sheetal	Highest marks in Marketing at TYBCom	Late Jivita Gujar Memorial Prize
11	Karale Priyanka	Highest marks in Economics at T.Y.BCom	Late R.G. Satam Prize

**Q Students Passing M. Com.**

1	Bhandalkar Ulhas Balasaheb	Highest total at M. Com. I	Staff Fund Prize
2	Raut Santosh Rajaram	Highest total at M. Com II	1) Staff Fund Prize 2) Memento

**R Students Passing M. A**

1	Sagar Dubewar	Highest total at M. A. II (English)	Memento
2	Vandana Joshi	Highest total at M. A. II (Marathi)	Memento
3	Sarika Mahadik	Highest total at M. A. II (Geography)	Memento
4	Vrushali Shinde	Highest total at M. A. II (Economics)	Late Purushottam Hirday sponsored by Dr. M.M. Satam
5	Prerana Anchalia	Highest total at M. A. II (Psychology)	Memento

**S Students Passing M. Sc.**

1	Ehtasham Ansari	Highest total at M. Sc. I (Microbiology.)	Dr. Bhagwant Huddekar Prize sponsored by Dr. Shilpa Mujumdar
2	Daphane Mayuresh Prakash	Highest total at M. Sc. I (Ele. Sci.)	Laxman Deuskar Prize
3	Nakate Yogesh Atmaram	Highest total at M. Sc. II (Ele. Sci.)	1) Laxman Deuskar Prize 2) Memento
4	Jain Divyashri	Highest total at M.Sc.II (Statistics)	
5	Chikne Dipesh Ramdas	Highest total at M.Sc.I (Botany)	Memento
6	Kulkarni Yogeshwari Pramod	Highest total at M.Sc.II (Botany)	Memento
7	Mahangare Sayali Laxman	Highest total at M.Sc.I (Chemistry)	Memento
8	Vaidya Amarendra S.	Highest total at M.Sc.II (Chemistry)	Chemistry Dept PG staff Prize
9	Sagar Shinde	Highest total at MCA I (Computer Sc)	Prize sponsored by Mrs. Madhuri Ghanekar
10	Deochakke Gaurav	Highest total at M.C.A (Computer Sc.)	Memento
11	Tagare Devendra	Highest total at M. C.S (Computer Sc.)	Memento



12	Narwadkar Gauri	Highest total at M. Sc. II (Microbiology)	Ravishankar Rasane Prize
13	Joshi Renuka	Highest total at M. Sc. I (Bio Tech.)	
14	Oke Radhika Sanjeev	Highest total at M. Sc. II (Bio Tech.) 1 <sup>st</sup> rank amongst children of teaching staff at Degree / PG examination	

#### List of other Prizes 2013 - 2014

Sr.No.	Name of the Student	Criteria	Prize
1	Shriram Y. Ramane Kedar D. Khole	TYBSc Physics student submitting Best Project	H. B. Joshi Prize
2	Samgir Harishchandra Vitthal	TYBSc Electronic student submitting Best Project	A. Gondhalekar Prize
3	Darwatkar Swapnil (TYBSc-A)	Student writing the Best Computer Programme at TYBSc Computer Science	R. M. Marathe Prize
4	Mali Mohini Vitthal	Best student at TYBSc Chemistry	M. M. Gokhale Prize
5	Tanuja B. Gholap (TYBSc-A)	Deserving & studious girl student of Sr. Wing	Golden Jubilee Fund Prize
6	Sainath Vilas Deshpande TYBSc	Deserving and studious student of Sr. Wing	Late Jagannath Kale Prize
7	Siddharth S. Bhapkar	Most deserving student of TYBSc Physics	Y. P. Gambhir Prize
8	Priyanka Dhondiba Lonkar	Most deserving student of TYBSc Ele. Sci.	D. Y. Gambhir Prize
9	Ketan Sanas	Best Student of NSS Sr.wing	'Late Abhishek Walke' prize, sponsored by Nisha Bhandare
10	Ganesh Laxman Kamble (SYBCom)	Most deserving student of NSS Sr. wing	Late Sarubai Varade Prize
11	1. Bogawat Yash 2. Kadam Vedant (SY Biotech)	Most deserving student of NSS Sr. wing	Late B. P. Satpute Prize
12	Malve Komal B. (SYBA)	Most deserving girl student of NSS Sr. wing	Late Sarubai Varade Prize



13	Ramane Shiram Yoginath (TYBSc- Physics)	Deserving student of TYBSc doing good work in NSS for two years	Late Bhaurao Varade Prize
14	Yadav Suraj	Deserving student of TYBSc (Comp.Sci.) doing good work in NSS for two years	Late Bhaurao Varade Prize
15	Shreyas Sanjay Wadke (XII Arts Div B)	Most deserving student of NSS Jr. wing	Late B. S. Pathak Prize
16	Shankar Bhagwan Kokate (XII Arts Div B)	Best performance in NSS camp Jr. wing	Late Sadashiv Salunkhe Prize
17	Badgujar Ashwini (SYBSc-A) (Comp.Sc) )	Best performance in Air wing NCC activities with excellent academic record	Late Sudhabai Shankar Kale Prize
18	Waghmare Bhagvan Piraji (SYBA)	Best student from Earn & learn scheme	Late Krishna Mukund Ujalambkar Prize
19	Akshata Sunil Joshi (FYBA) Pratibha Damodar Patil (FYBA) Madhuri Dattapa Gavada(FYBA)	Best girl student from Earn & learn scheme	Late Kalindi Krishna Ujalambkar Prize
20	Thorve Ashish XII E	Deserving and studious student of Jr. wing	Golden Jubilee Fund
21	Kadam Sakshi XI G	Deserving and studious girl student of Jr. wing	Late Kamalabai Jagannath Kale Prize
22	Arekar Ankush XII B	Deserving and studious student of XII Class	Late Vishnu Trimabak Tatake Prize Late Shankar Ramchandra Kanitkar Prize
23	Joshi Shesha Jayant (XII A)	Best Student Jr. Wing Best student Trophy	Late Jyotsna Godbole Prize Memento
24	Chaturvedi Mrunalini Rashmi(SYBCom)	Best student Sr. Wing	Staff Fund Prize Veer Sawarkar Prize Damodar shield, Memento
25	Gujar Vedika Nandkumar (MCA III)	Best student Post Graduate Section	Late Prof. G. M. Bansude Trophy, Memento

- Mrs. Madhuri Ghanekar, Chairperson



## Skill Development Workshops

(Add-on-Courses)

2013-14

### Information at a Glance

Name of the Course	Department	Coordinator
English-Marathi Translation	Marathi	Dr. S. L. Taware
Computerized Financial Accounting Programme (Tally)	Commerce	Prof.M.Moreshwar
German	German	Prof. S. V. Kuvalekar
Integrated Vermitechnology	Zoology	Mr.Narendra M.Naidu
PCR Technique (DBT-Star)	Biotechnology	Prof. Rama Phadke
Plant Tissue Culture	Botany	Prof.Uttam R.Wayse Prof.Arti Goggi
Plant Tissue Culture	MCCG and Botany	Dr.K.D.Goplae
Seed Technology	Botany	Prof.Arti Goggi
Graphology	Commerce	Prof. Sanjeevani Rahane

**Narendra M.Naidu**

Chief Coordinator

## Post Graduate Association and Staff Academy

Following activities were organized in the academic year 2013-14

Activity	Date	Subject	Guest Speaker
Lecture	23 July 2013	Impact of Personality, interest and Parenting on Career Decision Making	Dr. Amruta Oke HOD, Psychology Dept
Lecture	25 July 2013	Positive thinking and Values in Education	Brahmakumari centre Dr. V. E. Girish
Lecture	19 Aug 2013	Job Opportunities for students in Various Industries	A.N. Roy, Retd. Police Commissioner and Somya Roy from Vandana Foundation
Lecture for Female students and Teachers	20 July 2013	Problems of Women and Precautions for Safety	API Pramod Waghmare and team
Lecture for students and staff	27 Sept 2013	Place of Art in Our Life	Dr Mukund Sangoram
Quiz Competition for students	28 Dec 2013	Bank Shop	
Lecture	07 Jan 2014	Mazi Jadanghadan	Dr. Nagnath Kottapalle Ex Vice Chancellor, Marathwada Univ.
Lecture for students	15 Feb 2014	Stress Management	Brahmakumari Sarita Didi
Appeal and Oath for Voting for the Lok Sabha Elections	25 Feb 2014	Voting	Pune District Collector, Shri Saurabh Rao
Counseling for Women Staff	08 Mar 2014	Women's Health and Nutrition	Dr. Seema Soni Dietician

**Dr. Madhu Satam**, Chairperson



## Published Material of Our Staff

### ECONOMICS

#### Research paper

##### Dr. M.M. Satam

- 'Euro zone Crisis' in "Global Economic outlook on Recession and Recovery", Jan. 2014. ISBN 978-81-928735-0-3.
- 'Financial Inclusion: A Case Study' in "Emerging trends in Banking and Finance in India", on Feb. 2014. ISBN 978-93-89965-49-0.
- 'FDI in Retail and Multi-Brand: Challenges & Opportunities' in "Organized Vs Unorganized Retail sector- Survival of the Fittest" April 2013. ISBN 978-93-89965-46-9

### HINDI

#### प्रा. सुनीता पुरोहित

- नवंबर २०१३ - दीपावली मासिक पत्रिका 'उत्तम अनुवाद' के लिए गरम कोट इस राजेंद्रसिंह बेदी की कहानी का मराठी अनुवाद किया।

### MARATHI

#### डॉ. मधुरा कोरावे

- 'नीहार', 'चैत्राली' या दिवाळी अंकामधून नाट्यसमीक्षमात्मक लेखन.
- 'आई' या पुस्तकात 'माझी आई' विषयक लेख प्रसिद्ध.

#### डॉ. वैजयंतीमाला जाधव

- 'अरुण कोल्टकरांची भिजकी वही' - लेख शौर्यभूमी या आंतरराष्ट्रीय मासिकात प्रसिद्ध.
- मॉडर्न महाविद्यालय व स्नेहवर्धन प्रकाशन यांच्या संयुक्त विद्यमाने प्रकाशित पुस्तक 'माझी आई' यामध्ये 'माझी शिस्तप्रिय आई' हा लेख प्रसिद्ध. मार्च २०१४.
- 'मराठी कवितेतील मन' या विषयावर 'प्रतिबिंब' या मासिकात लेख प्रसिद्ध.

### POLITICAL SCIENCE

#### प्रा. विष्णू श्रीमंगले

- 'विचारशालाका' या त्रैमासिकात 'भारतातील कचरा समस्या - स्थिती आणि उपाय' या विषयावर लेख प्रसिद्ध.

### PSYCHOLOGY

#### Dr. Amruta Oke

- Co- authored a book titled "Psychology: The Science of Behavior", Publisher - Pearson Education.

#### Smt. Vijaya Jagtap-

- Published Paper in the proceedings of State level conference held at Barshi, titled "Creativity in Adolescents".

#### Mrs. Shradha Sakatkar-

- Paper published in National Seminar on "Emotional Intelligence and Youth". Title of the paper- "A study of Parenting Styles, Academic Performance and Emotional Intelligence of Students".

### BIOTECHNOLOGY

#### Review article

- Joshi S.G., Litake GM. (2013) *Acinetobacter baumannii*: An emerging pathogenic threat to public health. *World J Clin Infect Dis* 3(3):25-36.

### BOTANY

#### Research Paper

- Zunjarrao R. S. and Gopale K. D. (2013) "Evaluation of Genetic Diversity of *Jatropha Curcas* L. Using RAPD Marker in Maharashtra" *Int. J. Pure Appl. Sci. Technol.*, 14(2), pp. 142- 154. (Impact factor 0.36)



- **Gopale K. D. and Zunjarrao R. S.** (2013) *In Vitro Culture of Jatropha curcas L.: A Biofuel Plant Int. J. Pure Appl. Sci. Technol.*, 14(2), pp. 46-54. (**Impact factor 0.36**)

#### **Book published:**

- **"Diversity and propagation studies of Jatropha curcas L.: A Biodiesel plant,"** has been published by LAP LAMBERT Academic Publishing is a trademark of: AV Akademikerverlag GmbH & Co. KG Heinrich-Böcking-Str. 6-8, 6121, Saarbrücken, Germany. ISBN 978-3-659-28960-6.

### **CHEMISTRY**

**Kirti D. Badave**, Shalaka S. Patil, Ayesha A. Khan, Darbha Srinivas, Raymond J. Butcher, Rajesh G. Gonnade, Vedavati G. Puranik, Rahul V. Pinjari, Shridhar P. Gejji and Sandhya Y. Rane : "Cu(II) conjugation along the transformation of a Vitamin K<sub>3</sub> derivative to a dinaphthoquinone methide radical," *New J. Chem.*, **2014**, 38, 277-284 (**Impact factor 3**)

### **COMPUTER SCIENCE**

- Ghanekar Madhuri: "Management of e-Waste: A case study of Pune ", *Environment Observer*, Vol. 17, December 2013.

### **ELECTRONIC SCIENCE**

#### **Research Paper**

- Chaudhari S.R. : 'e-waste management campaign: Case study in rural community' , *Environment Observer*, Vol. 17, December 2013, Page 33.
- Sonawane T.B. : 'SMS Controlled smart e-notice board' in *International Journal of Engineering research and Technology*, Vol. 2, issue 11, November-2013, pp 2778-2781.
- Sonawane T.B. : "Zigbee based data acquisition system to monitor Heater temperature using LabVIEW" in *International Journal of Engineering and Technology*, Vol. 3, issue 2 February 2014. PP 1745-1749.
- Vidap R. V. : "Structural, optical and gas sensing properties of spin coated nanocrystalline zinc oxide thin films" in *Journal of Materials Science: Materials in Electronics* September 2013, Volume 24, Issue 9, pp 3170-3174.
- Varade P.S. "e-waste management campaign: Case study in rural community" *Environment Observer*, Vol. 17, December 2013, Page 33.

### **GEOGRAPHY**

- Sonawane Amit Eknath published a paper in the National Conference at Akole entitled "Water resource for sustainable development in the Shirur tahsil of Pune district Maharashtra"

### **PHYSICS**

#### **Dr. Vaishali S Waman:**

##### **Research Paper**

- Evolution of microstructure and opto-electrical properties in boron doped nc-Si:H films deposited by HW-CVD method. *Journal of Alloys and Compounds* (2013)
- Evolution of structural and optical properties of rutile TiO<sub>2</sub> thin films synthesized at room temperature by chemical bath deposition method. *Journal of Physics and Chemistry of Solids* (2013)
- High growth rate of a-Si:H films using ethane carbon source by HW-CVD method. *Bulletin of Material Science* (2014)
- Hydrogenated silicon carbide thin films prepared with high deposition rate by hot wire chemical vapor deposition. *Journal of Coatings*.
- Editor of Abstract Volume of National Conference on Energy and Environment (NC2E-2014) Conference, University of Pune, ISBN: 978-93-83993-10-9

#### **Dr. Sandeep S. Patil**

- Template free Electrochemical synthesis of highly crystalline Polyaniline Nanopetals, Nanocrystals and their Field Emission Investigations. *Journal of Electrochemical Society* 160,(11) D543-D552 (2013)



- Noise Measurement and Analysis of Field Emission Current from Boron Doped Diamond. IEEE Transactions in Nano Technology, TNANO – 0019-2013
- Vapor-liquid-solid growth of one dimensional Tin Sulfide (SnS) nanostructures with promising field emission behavior. Journal of Applied Materials and Interfaces, 6 (3), pp. 2018-2025, (2014)

## PSYCHOLOGY

- **Dr. Amruta Oke** Co- authored a book titled “Psychology: The Science of Behavior” which was published by Pearson Education..
- **Smt. Vijaya Jagtap** published a Paper in the proceedings of State level conference held at Barshi, titled “Creativity in Adolescents”
- **Mrs. Shraddha Sakatkar** Paper published in National Seminar on “Emotional Intelligence and Youth”. Title of the paper- “A study of Parenting Styles, Academic Performance and Emotional Intelligence of Students”

## STATISTICS

- **Prof. P.G. Dixit** has published 18 books in this academic year.
- **Prof. P. S. Kapre** has published three books in this academic year.

## ZOOLOGY

- Ghate, H.V. (2013). *Eurysaspisflavescens* Distant, a new Pentatomidae member for Indian Territory. *Prommalia*(e-journal of Zoological Survey of India, I : 45-48
- Ghate, H.V. (2013). Report of *Dissosternuspertii* Hope (Coleoptera: CERAMBYCIDAE: Prioninae) from Pune, Maharashtra State. *Prommalia*(e-journal of Zoological Survey of India), I : 65-68
- Ghate, H.V. (2013). Challenges for taxonomy in Indian context. Invited article for ENVIS issue (BOOK) on ‘Arthropods and their Conservation in India (Insects & Spiders)*Envis Bulletin* (Special issue on Arthropods and their Conservation. Volume 14 (1): 2011 Published in 2013 (Insects & Spiders), pages 60-66 published by Wildlife Institute of India, Dehradun.
- Jakhalekar, S. and H.V. Ghate(2013). A Note on Five Freshwater Sponges (Porifera: Spongillina: Spongillidae) from Pune (Maharashtra, India). *Journal of Threatened Taxa*, 5 (9) : 4392- 4403.
- Ghate, H.V. and Mitra, B. (2013). First record of *Purpuricenustemminckii* (Coleoptera :Cerambycidae) from India. *TAPROBANICA*,5 (1): 75-76
- Korn, Michael, Nicolas Rabet, Hemant V. Ghate, Federico Marrone, and Anna K. Hundsdoerfer (2013). Molecular Phylogeny of Notostraca. *Molecular Phylogenetics and Evolution*. <http://dx.doi.org/10.1016/j.ympev.2013.08.006>
- Datar, M. N., Pathak, G. and H.V. Ghate (2013).A note on Occurrences of *Cucumissativus* L. *Formahardwickii* (Royle) W. J. De Wilde &Duyfjes (Cucurbitaceae) in Peninsular India. *Journal of Threatened Taxa*,5(15): 5010–5012
- GhateH.V. and Narendra M. Naidu (2013). First record of *Oplatocerahalli*Lepesme, 1956 (Coleoptera: Cerambycidae) from Western India. *Journal of Threatened Taxa*,5(17): 5301–5304
- Mamlayya, A.B. and G. P. Bhawane and H. V. Ghate(2014) : First Record of a Cerambycidae beetle *Apioccephaluslicheneus*Gahan from Western India (Coleoptera: Cerambycidae: Lepturinae. *Journal of Threatened Taxa*, 6(2): 5494-5498.

## COMMERCE

- **Rasika P. Date**, 2014, ‘Green initiatives in banking sector – a comparative overview’, *Environment Observer*, **ISSN 2320-5997 Vol 18 (Jan., 2014)**, Page Nos. 78 to 82
- **Dr. Sanjeevani K. Rahane** and **Prof. Shraddha R. Hirwe**, 2014, Green Marketing – An effective tool of Corporate Social Responsibility – (Tata Motors- a Case Study) Proceedings of The National Conference on Corporate Social Responsibility: Relations between business and society, **ISBN 978-93-83414-49-9**, Page Nos. 52 to 57

### Prof. Shraddha R. Hirwe

- Wrote an article in Marathi “Mazi Jadan Ghadan” for Department of Marathi.
- Wrote a poem in Marathi for magazine in Marathi.



## Industry Academia Meet

Our college organized an Industry Academia meet on 11th January 2014. The objective of this meet was to identify the exact gap in curriculum and need additional input to be given to the students. Experts from the industries SERUM Institute of India, Malkol Knowledge center Hyderabad, IISER, Symphony, Hi-tech Bioscience, and Pacarmakertz participated and expressed their views for bridging this gap.

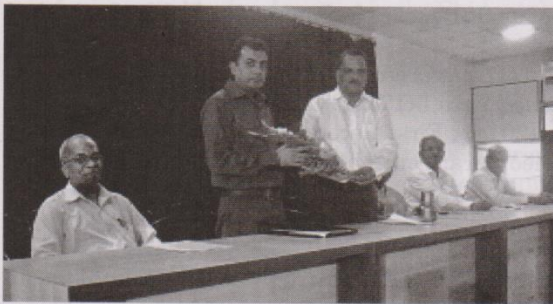
Principal Dr. R.S. Zunjarrao encouraged collaborations with various industries. Mrs. Seetadevi Bontha from Malkol Knowledge Centre, Hyderabad, Dr. A.A. Natu from IISER and Mr. Mahendra Savadikar from Biotechnology Industry guided the students regarding importance of application of theoretical knowledge in real life.

Dr. Umesh Shaligram from SERUM industry, Shri Vishal Sharma and Mr. Amit Bagaitkar from Symphony stressed on continuous learning of new technology and soft skills. Prof. S.S. Deshmukh also emphasised on the need of collaboration. Ninety five students participated in this meet. They interacted with industrialist, researchers and academicians. Dr. Shubhangi Puranik took efforts to organize this Industry Academia meet successfully. Principal Dr. R.S. Zunjarrao, Dr. A.K. Pande, Prof. S.S. Deshmukh, Prof. S. R. Chaudhari and heads of the various departments participated in this meet.

**Dr. Shubhangi Puranik.**

Chair Person, Industry Academia Meet

## भारतरत्न डॉ. बाबासाहेब आंबेडकर यांची जयंती



### १४ तास अभ्यास अभियान -

भारतरत्न डॉ. बाबासाहेब आंबेडकर यांच्या १२३ व्या जयंती निमित्त दि. १२ एप्रिल २०१४ रोजी १४ तास अभ्यास अभियानाचे आयोजन करण्यात आले. यावेळी प्राचार्य डॉ. राजेंद्र झुंजारराव

यांच्या हस्ते बाबासाहेबांच्या प्रतिमेस पुष्पहार अर्पण करण्यात आला. याप्रसंगी असणाऱ्या विद्यार्थ्यांना शुभेच्छा देताना प्राचार्य डॉ. झुंजारराव म्हणाले की, भारतरत्न डॉ. आंबेडकर हे १८-१८ तास सतत वाचन करीत होते. त्यांना वाचनाची खूप आवड असल्याने त्यांच्याकडे ज्ञानाचा सागर होता. विद्यार्थ्यांनी वाचन क्षमता वाढवणे आवश्यक आहे. जास्तीत जास्त वेळ अभ्यासाला कसे बसता येईल हे बघितले पाहिजे. बाबासाहेबांच्या पासून प्रेरणा घेऊन, ऊर्जा घेऊन व्यक्तिमत्त्व कसे चांगले घडेल यासाठी या देशाला बाबासाहेबांनी दिलेले योगदान समजून घेतले पाहिजे.

मोठ्या संख्येने या अभियानात विद्यार्थ्यांनी व प्राध्यापकांनी सहभाग घेतला व अभियान यशस्वी केले.

### अभिवादन व्याख्यान -

दि. १४ एप्रिल २०१४ रोजी, भारतरत्न डॉ. बाबासाहेब आंबेडकर यांची १२३वी जयंती साजरी करण्यात आली. सुरुवातीला प्राचार्य डॉ. झुंजारराव यांचे हस्ते बाबासाहेबांच्या प्रतिमेला पुष्पहार अर्पण करण्यात आला. वंदना घेण्यात आली. यावेळी व्याख्याते डॉ. ए. एच. शेंडे यांचा परिचय प्रा. डॉ. विलास कांबळे यांनी करून दिला.

त्यानंतर अर्थशास्त्र विभागातील प्रा. डॉ. ए. एच. शेंडे यांनी व्याख्यान दिले. त्यांनी बाबासाहेबांच्या लहानपणीची सामाजिक अवस्था व त्यांना आलेले दुःखद अनुभव सांगितले. बाबासाहेबांनी शिक्षण घेतांना प्रतिकूल सामाजिक, आर्थिक व शैक्षणिक परिस्थितीला धैर्याने तोंड दिले. विविध विद्यापीठात घेतलेल्या शिक्षणाचा आणि देशात व परदेशात आलेल्या अनुभवांचा त्यांनी देशहितासाठी उपयोगे कसा केला याची अनेक उदाहरणे दिली.

यावेळी प्राचार्य डॉ. राजेंद्र झुंजारराव यांनी सांगितले की, “बाबासाहेब संघर्षमय जीवन जगले. एकसंघ भारत निर्माण करण्यासाठी संविधानाच्या निर्मितीच्यारूपाने त्यांनी या देशाला फार मोठे योगदान दिले. तसेच विकासासाठी व प्रगतीसाठी विविध समाजोपयोगी योजना, सुधारणा दूरदृष्टीतून मांडल्या व पाठपुरावा केला. बाबासाहेबांचे पुस्तकावरील प्रेम, निष्ठा, अव्याहत वाचनक्षमता, पुस्तक संग्रह या सर्व बाबींचा विद्यार्थी व प्राध्यापकांनी अंगिकार करावा व या थोर महामानवाचा आदर्श घ्यावा असे सांगितले.” यावेळी १४ तास सलग अभ्यास अभियानात सहभागी झालेल्या प्राध्यापक व शिक्षकेतर सहकारी, विद्यार्थी यांचा प्रमाणपत्र व प्रा. आर. एन. इंगोले यांनी लिहिलेले बाबासाहेबांची जीवन दर्शन ही पुस्तिका देऊन गुणगौरव करण्यात आला. प्रा. डॉ. विलास कांबळे यांनी सभेचे व्याख्याते, मान्यवर व उपस्थितांचे आभार मानले. प्रा. आर. एन. इंगोले यांनी सूत्रसंचालन केले.

यावेळी मोठ्या संख्येने उपस्थित असलेल्या प्राध्यापक व शिक्षकेतर सहकारी यांचे वतीने बाबासाहेबांच्या प्रतिमेला पुष्प अर्पण करून भावपूर्ण अभिवादन करण्यात आले.

- प्रा. आर. एन. इंगोले  
समन्वयक



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## सुसंवाद

प्रा. गीताराम गायकवाड (राज्यशास्त्र विभाग)



सुसंवाद हा मनुष्यप्राण्याच्या जीवनाचा व समाजाचा अविभाज्य भाग आहे. सुसंवादाशिवाय मतभेद असलेले मुद्दे आपण सोडवू शकत नाही. मतभेद असणे हे जिवंतपणाचे व विचारशीलतेचे लक्षण आहे. मतभेदांना दूर करण्यासाठी संवादाचा आधार घेणे विवेकी समाजाची ओळख आहे, परंतु आज आपल्या समाजात, देशात कालिक, सामूहिक, सामाजिक, राजकीय, आर्थिक, शैक्षणिक, किंवा इतर विविध क्षेत्रात कोणत्याही दृष्टीने संवादहीनताच दिसून येते. संवादहीनताच आपल्या समस्यांना गुंतागुंतीची बनवते. म्हणून समस्या सोडविण्याच्या दिशेने प्रयत्न करायचे असतील तर आपल्या मनात साचलेल्या बरोबर वा चुकीच्या विचारांना मुक्त करावे लागेल. मनात साठलेले विचार व्यक्त न केल्याने एकप्रकारची अलंगता निर्माण होते. एकमेकांना समजून घेण्याच्या इच्छेचा अभाव असतो. ही संवादहीनताच मनुष्या-मनुष्यामध्ये अदृश्य भिंत उभी करीत असते.

आपले म्हणणे बरोबर समजणे स्वाभाविक आहे; परंतु माझंच बरोबर समजणे हा दृष्टिकोन एकमेकांच्या मतभेदातील दरी इतकी वाढवतो की दुसरा काय म्हणतो ते म्हणणे समजण्याची संधी हातातून निघून जाते. अशा वेळी भगवान महावीरांचा 'मी बरोबर आहे, परंतु तू पण बरोबर असू शकतोस' हा सिद्धांत आपल्याला मदत करतो. हा सिद्धांत एक-दुसऱ्याच्या गोष्टीला, विचारांना, मतांना ऐकायला-समजायला वातावरण निर्माण करतो आणि अशा स्थितीत व्यक्ती अथवा समाजाचा विचार आपल्याच बनविलेल्या विचारांत बंदी होऊन पडतो, तेव्हा एकमेकांच्या वागणुकीवर संशय येऊ लागतो आणि प्रत्येक वेळी त्याच दृष्टिकोनातून पाहिल्यास नाती किंवा मानवी संबंध तुटक, कमकुवत होता. समाज दुभंगला जातो. सुसंवाद हा सुदृढ लोकशाहीचा गाभा आहे.

आपलेच म्हणणे बरोबर असल्याचा भ्रम, दुसऱ्यांच्या वागणुकीवर संशय निर्माण करतो, मर्यादित का होईना, तात्पुरता का होईना स्वार्थ एकमेकात अविश्वास निर्माण करतो. विश्वास-अविश्वासाचे संकेत व्यक्ती आणि समूहाच्या अधिकार-कर्तव्याच्या संतुलनावर टिकून आहेत. अशा स्थितीत प्रत्येक नागरिकाकडून, व्यक्तीकडून अशी अपेक्षा केली जाते की त्याने आपल्या दृष्टिकोनातून, दुसऱ्यांच्या दृष्टिकोनातूनही समस्यांना समजण्याचा प्रयत्न करावा. कारण त्यातूनच सामूहिक हिताचा विचार पुढे येईल, हीच संवादाची संस्कृती आहे.

भावुकता संवादाला, भूमिकेला कमजोर बनवते आणि जिद्द, हट्ट, हेकेखोरपणा संवादाला, भूमिकेला खडकाळ बनवतो. त्यासाठी

सर्वांनाच या दोन्हीतून वर यावे लागेल. संवादहीनतेच्या वातावरणाला आणखी एक गोष्ट मारक आहे, ती आहे अहं, अहंकार, हेकेखोरपणा. अहंकाराचा हिमालय जेव्हा वितळू लागेल तेव्हाच समंजसपणाची गंगा वाहू लागेल. अशा संवाद संस्कृतीचा विकास ही आपले राष्ट्र आणि समाजाची आवश्यकता आहे.

कधी कधी आम्ही नदीच्या पाण्यावरून वाद करतो, तर कधी भाषेच्या प्रश्नावर लढू लागतो. कधी जाती आपल्या विकासाला अडथळा करतात तर कधी आम्ही धर्माच्या नावाने मानवता विसरून जातो. या सर्वांच्या मागे मोठे कारण संवादहीनताच आहे. तीच आपल्यामध्ये भेदभावाचे, अपरिचयाचे, संशयाचे पर्वत उभे करीत असते. धर्म, पंथ, वंश, जातीपाती, वर्ग, वर्ण इ.च्या मर्यादित कुंपणात आम्ही पूर्वीपासूनच बंदिस्त आहोतच आणि आता स्वातंत्र्यानंतर या सर्वांच्या राजकारणात आमचे जीवन बंदिस्त होऊन गेले आहे.

आज सर्वजण जगाबरोबर धावत आहे. या धावण्यात जीवघेणी स्पर्धा आहे. जगण्याची स्पर्धा, समृद्धीची स्पर्धा, भोगवादाची देखील स्पर्धा आहे. अशा स्थितीत या मर्यादित, बंदिस्त टांपूंना जोडण्यासाठी ज्या पुलाची आवश्यकता आहे ते पूल एक दुसऱ्यांच्या संवादानेच बनतील. हाच एक संवाद एक दुसऱ्यांच्या भावनांना आणि विचारांनाही समजण्याचा आधार बनेल.

निरपेक्ष निर्मळ हास्य, दुसऱ्याच्या यशात सहभागी होणे, शुभेच्छा देणे वा अभिनंदन करणे, खुशाली विचारणे याद्वारे वैयक्तिक सुसंवाद साधता येतो.

दासबोधातील "जे जे आपणांसी ठावे ते ते इतरांसी सांगावे । शहाणे करूनी सोडावे सकळ जन ॥" ही समर्थ रामदासांची उक्ती चांगल्या सुसंवादासाठी आवश्यक आहे.

आपण आज संक्रमण काळात जगत आहोत. जुनी मूल्ये, जुन्या प्रतिष्ठा गडगडून ढासळत आहेत. स्वतःच्या खोलीतील चार भिंतींच्या चौकटीत बसून टेलिफोन, कॉम्प्युटर, इंटरनेटद्वारे सर्व व्यवहार होत आहेत. यामुळे माणसाला माणसाची गरज उरलेली नाही अशी शंका येते. आदर्शाअभावी सुलभता, आराम व बेदरकारी हाच स्वभाव बनतो आहे. आपल्या कुंडलीतील दुष्ट ग्रह 'मंगळ' नसून 'चंगळ' हा आहे. त्यामुळे विज्ञानाच्या रसायनाला सुविचारांचे, आत्मज्ञानाचे अनुपान मिळाले, तरच संजीवनी मात्रा होईल, असे स्पष्ट चित्र आहे. भारतीय संस्कृतीचा आत्मा अद्वैत, समन्वय, आस्तिक्य व माणुसकी यात आहे. सुसंवादाचा हाच स्रोत असतो.



सुसंवादाचा खरा अर्थ आहे - साझेदारी, शेअरिंग, सहयोग व सोबत.

विज्ञानाने माणसाला शेजारी आणून ठेवले, पण मित्र अगर सोबती बनवले नाही. सुसंवादाच्या अभावी भोवतालची माणसेही आपल्या सुखदुःखांना कारणीभूत होतात. त्यांचे स्वभावही आपल्या सुखात किंवा दुःखात भर टाकतात. अहंकार, मीपणा, माझेपणा, स्वार्थ, गर्व हे माणसामाणसातील सुसंवादाचे मोठे शत्रू आहेत. भांड्याला भांडे लागून आवाज व्हायचाच, पण म्हणून काही भांडी फोडायचीच नसतात. भांडी एकत्र करून ठेवली पाहिजेत. मतभेद असावेत पण मनभेद नसावेत. थोर विचारवंत टॉलस्टॉय असे म्हणतात, 'माझे ते खरे म्हणू नका, खरे ते माझे म्हणा'. प्रा. हेगेल यांच्या मते, "वाद विरुद्ध प्रतिवाद बरोबर सुसंवाद होय." थोडक्यात, 'वादे वादे जायते तत्त्वबोधः'

लोक स्वतःच्या स्वार्थाला फारसा धक्का न लावता, शक्य असेल तेवढेच इतरांच्या चांगलपणाचं चीज करतात. स्वार्थ आणि

सत्कारार्थ-गौरव असा विरोध आला, तर बहुसंख्य माणसे पहिल्याला पसंती देतात. समोरच्या माणसाशी बोलताना, समोरची व्यक्ती व आपण यांची मनातल्या मनात उलटपालट करून बघा. हे उत्तम सुसंवादासाठी आवश्यक आहे.

'जे जे भेटे भूत । ते ते जाणिजे भगवंत ।' या जाणिवेने सुसंवाद होणे आवश्यक आहे.

विद्यार्थीजन हो स्वधर्म तुमचा आणुनिया सन्मनी ।

वेदांचे निजबीज एकचि दिले व्हावे संताचे धनी ॥

येणाऱ्या सुयुगार्थ जन्म तुमचा हे ध्यान ठेवा सदा ।

विद्येची स्थिती बाणल्याविण मधे सोडू नये ती कदा ॥

- भगवान श्री मायानंदानी

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## एक छोटासा रुपया !

एक छोटासा रुपया रेस्टॉरंटमध्ये गेला,

कपभर चहा हवा होता त्याला.

हॉटेलवाला शेजाऱ्याला बोलला,

'लगतो है नया है यह'

देऊ कसा चहा

दहा रुपया कप, भाव वाचून पाहा ।

एक छोटासा रुपया मंडईत गेला

भाजीसाठी मिरच्या हव्या होत्या त्याला

भाजीवाली बोलली 'देऊ कुठून मिरच्या,

तुला काय वाटलं, आहेत तुझ्याच घरच्या' ?

एक छोटासा रुपया गेला वाण्याकडे,

धान्यासाठी त्याने पिशवी केली पुढे

गहू दाणे चार, तांदूळ दाणे सहा ।

वाणी बोलला, 'सवढे धान्य पुरेल का तुला' ?

एक छोटासा रुपया सिनेमात गेला,

'टी-पी' सिनेमा बघायचा होता त्याला,

तिकीट मास्तट बोलला 'देऊ कसे तिकीट',

तुझे तर फारच बुवा हलके आहे पाकीट'

'चल हवा आने दे' बोलून,

एक छोटासा रुपया हिरमुसला असा

धावत जाऊन त्याने पुन्हा गाठला खिसा !

- नरेश टक

## मनातली खिडकी

खिडकीतून आलेले कोवळे ऊन

आणि हळूच आलेली वाऱ्याची झुळूक

मनाला मोहून टाकते...

कंटाळा आला तर विरंगुळा बनते.

वर्गातून बाहेर पाहता येते

बसमध्ये बसल्यावर हवी असते

अशी ही सर्वांची आवडती खिडकी...

खिडकीत थांबून अनुभवलेला पाऊस

आणि तिथेच बसून केलेला अभ्यास

अजूनही आहे मनात आवास...

लेक्चर चालू असताना खिडकीतून आलेला भाजीचा वास

देऊन जातो मनाला वेगळाच आभास

आणि खिडकीत पाहता पाहता

कळत नाही कधी संपतो हा तास...

या वास्तवातील खिडकीचे अनुभवले अनमोल क्षण

परंतु मनातली खिडकी असते विलक्षण

तेव्हा खूप बरे वाटते आणि मन होते मोकळे

जेव्हा अनुभवले हे क्षण निराळे...

- अनुराधा वैजीनाथ बिराजदार (S.Y.B.Com.)



## भारतीय धर्मनिरपेक्षता

डॉ. मंदा आदमाने (इतिहास विभाग)



२६ जानेवारी १९५० मध्ये भारत एक “धर्मनिरपेक्ष राष्ट्र” म्हणून घोषित करण्यात आले. ही घोषणा एकाएकी करण्यात आलेली नव्हती. त्याला शेकडो वर्षांची परंपरा होती. भारतीय धर्मसहिष्णुतेची परंपरा लक्षात घेतली तर त्याची उत्पत्ती हजारो वर्षांच्या मनोवृत्ती व धोरणाचा परिपाक होता असे दिसते.

प्राचीन भारतात असलेल्या धार्मिक स्वातंत्र्याच्या वातावरणातूनच धर्मनिरपेक्ष राज्याचा एक महत्त्वाचा पैलू प्रामुख्याने दिसून येतो. लोकांवर कुठलेही धार्मिक विचार लादण्याचा प्रशासनाकडून कधीही प्रयत्न होत नसे. सम्राट अशोकाच्या काळात वैदिक धर्मापासून बुद्ध पंथाकडे झालेला बदल हा अतिशय सुरळीत आणि व्यवस्थित झाला. सम्राट अशोकाचा राजकीय प्रभाव काबूल पासून कन्याकुमारीपर्यंत होता. परंतु धर्माच्या बाबतीत बळजबरी करण्याचे प्रयत्न केले नाहीत. कारण सर्व प्रकारच्या हिंसेचा मार्ग सोडल्याची परिणितीच अशोकाच्या बुद्ध धर्म अंगिकारण्यात झाली होती. संपूर्ण जगाने पाहिलेली ही सर्वात मोठी सामाजिक व धार्मिक क्रांती होती. ही क्रांती एका सम्राटाच्या प्रभावाखाली घडून आली होती. जनतेने त्याचा सहज स्वीकारही केला.

आणखी अशीच प्रतिक्रांती आठव्या शतकात घडून आली. शंकराचार्य या संन्याशाने वैदिक धर्माचे पुनरुज्जीवन घडवून आणले. दैनंदिन जीवनातील धर्माची आवश्यकता पूर्ण करण्याचा प्रयत्न करीत मानवी जीवनाला अध्यात्माची जोड दिली. समाजाला एक नैतिक अधिष्ठान दिले. त्याकाळात आध्यात्मिक जीवनातील अस्थिरता कमी करीत समाजाला प्रवाहित केले. हे बदल होत असतांना विरोध प्रतिरोध हा वादावादीने झाला असेल पण तेव्हा हिंसाचार झाला नाही. किंवा रक्तपात झाला नाही, कत्तली झाल्या नाहीत, सामाजिक, धार्मिक विचारांच्या संघर्षाचा परिणाम राजकीय स्तरावर फारसा झालेला दिसत नाही.

राजकीय पातळीवर सुद्धा युद्धे ही युद्धभूमीपर्यंतच सीमित असत आणि शरण आलेल्या योद्ध्यांना नेहमीच अभयदान दिले जाऊन त्यांचे स्वातंत्र्य अबाधित राखले जात होते. पण परकीय देशातील शत्रूंनी मिळालेल्या जीवदानाचा फायदा आपल्या पराभवाचा बदला घेण्यासाठी केलेला दिसून येतो. म्हणून भारताच्या इतिहासाला वेगवेगळी वळणे मिळालेली दिसून येतात. भारतीय राजांच्या या उदारमतवादी धोरणाबाबत प्रशंसा परकीय राज्यकर्त्यांचे लेखकही करतांना आढळतात ; पण त्याचबरोबर सर्वसामान्य लोकांची

शेतकऱ्यांची मानसिकता प्रगट करताना चंद्रगुप्त मौर्याच्या दरबारातील ग्रीक राजदूत मेगॅस्थिनज आपल्या ‘इंडिका’ ग्रंथात कौतुकाने नमूद करतो की, “एकीकडे युद्धभूमीवर घनघोर युद्ध चालू असतांना शेजारच्या शेतातील शेतकरी युद्धाची अजिबात दखल न घेता आपल्या शेतीच्या कामात मग्न असत. कारण त्यांना मनातून पूर्ण खात्री असे की, कुठलीही बाजू जिंकली तरी त्यांना कुठलाही उपद्रव होणार नाही.” यातूनच अत्युच्च बिंदूला पोहोचलेली हिन्दू संस्कृती दृश्यमान होत होती. युद्ध ही बहुदा चक्रवर्ती होऊ पाहणाऱ्या शक्तिशाली हिंदू राजांनी घेतलेल्या पुढाकारानेच होत असत. आणि हे राजे हे पराभूत प्रतिस्पर्ध्यांकडून शरणागती व खंडणी मिळाली की संतुष्ट असत. पराजित राजाला सोडून देण्यात येत असे त्याचबरोबर त्याचे राज्य त्या राजाला परत करण्यात येत असे युद्धभूमीवर होणाऱ्या विजयांचा किंवा पराजयांचा कुठलाच प्रत्यक्ष वा अप्रत्यक्ष संबंध परिणाम भारतखंडात राहणाऱ्या प्रजेवर होत नसे. त्यांचा संबंध राजाला दोन प्रकारचे कर देण्याइतपतच येत होत. एकतर व्यवसायावरील कर आणि शेतीच्या उत्पन्नावरील कर एवढेच, त्याबदल्यात राजा रक्षण करण्याची जबाबदारी स्वीकारीत असे. खेडी स्वयंपूर्ण होती. गावातील तंटे तेच सोडवत. मानवतेचा दृष्टिकोन सहजरीत्या अंगिकारला जात होत. राजकीय अराजकता निर्माण झाली असली तरी त्याचा परिणाम सामाजिक क्षेत्रावर फारसा होत नसे.

प्राचीन काळात हिन्दू तत्त्ववेत्ते आणि धार्मिक नेते त्यांच्या उदार व योग्य वर्तणुकीमुळे मोकळे विचार आणि मुक्त संचार यांना संपूर्ण भारतभूमीमध्ये मुभा होती. कुठल्याही प्रकारचे विघ्न न येता नवीन धार्मिक पंथ उदयाला येत होते. तेच ते भरभराटीला पोहचत होते. नास्तिकतेकडे सुद्धा तिरस्काराने पाहिले जात नसे. हिन्दू तत्त्वज्ञानाचे आवश्यक अंग मानले गेलेल्या जन्म, मृत्युचक्र या कल्पनेला थोटांड मानणाऱ्या आणि खा, प्या, मजा करा असा प्रचार करणाऱ्या चार्वाकाला सुद्धा धर्मभ्रष्ट म्हणून जिवंत जाळले गेले नाही. उलट आचार्य म्हणून त्यांचा सन्मानच करण्यात आला होता.

पण हे सर्व इस्लामचा भारतात प्रवेश होताच बदललेले दिसते. धर्मनिरपेक्षतेचा सिद्धान्त इस्लामच्या कल्पनेत न बसणारा होता. महम्मद पैगंबराचे अनुयायी असलेल्या बगदादच्या खलिफाने तलवारीच्या बळावर इस्लाम धर्माचा प्रसार करण्याचे ध्येय आपल्या सरदारांना दिले आणि नवीन नवीन प्रदेश बळकावण्याचे आवाहन



केले होते. “इंडिया अँज ए सेक्युलर स्टेट” या ग्रंथात डोनाॅल्ड युजिन स्मिथ या लेखकाने म्हटले की, ‘सातव्या शतकात महम्मदाने निर्माण केलेला समाज’ हा धर्म आणि राजनीती यांची पक्की सांगड घातलेला समाज होता. सैद्धान्तिक रूपाने किंवा प्रत्यक्ष व्यवहारात अध्यात्मिक जीवन व ऐहिक जीवन यांत कुठलीही फारकत त्यांना मंजूर नव्हती. धार्मिक जीवन आणि राजकीय इमानदारी या दोन्ही गोष्टी एकमेकांत फार मिसळल्या गेल्या होत्या. कारण महम्मद हा ईश्वराचा प्रेषित पण होता आणि ईश्वराने नेमलेला राज्यकर्ता व सेनापती पण होता” भारतात इस्लामिक आक्रमणाला आठव्या शतकापासून सुरुवात झाली होती. या आक्रमणात पहिला पुढाकार इलबारी तुर्क, अफगाणांनी घेतला व नंतर चुगताई मोगलांनी घेतला होता. या दोन्हीही जमातीचे लोक नव्यानेच मुस्लिम झालेले होते व ते अतिशय धर्मवेडे आणि क्रूर होते.

पण अकराव्या शतकाच्या सुरुवातीच्या काळात महम्मद गझनीने भारतावर सतरा वेळा आक्रमण केले. या देशातील जास्तीत जास्त संपत्ती धार्मिक स्थळांकडे आहे हे महम्मद गझनीने ओळखून त्याने गुजरातपर्यंतच्या पवित्र धार्मिक स्थळांचा विध्वंस केला होता व धनसंपत्ती लुटली होती. अलबरूनी या अरबी लेखकाने नमूद केले की, महम्मद गझनीने माजविलेल्या मारामार व लुटालुटीमुळे उत्तर भारतातील हिंदूंचे सामाजिक, धार्मिक व आर्थिक जीवन पार विस्कळित होऊन गेले. नंतर आलेल्या आक्रमकांनी बलात्कार, जाळपोळ, लुटालूट आणि तोडफोड यांचे लोण सर्व भारतखंडभर पसरविले. ती धर्मवेडाची पराकाष्ठा होती. तेथे धर्मनिरपेक्षतेला श्वास घ्यायला जागा नव्हती.

मुस्लिम राज्यकर्त्यांनी सात शतके राज्य केले. त्यात सम्राट अकबराचा अपवाद वगळता सर्वच राज्यकर्त्यांचा धर्मवेडेपणा फारसा कमी झालेला नव्हता. ते स्वतःला परकीयच समजत होते. पण अकबराने धार्मिक सहिष्णुता दाखविली होती. त्याच्यावर उदारमतवादी विचारसरणीचा पगडा होता. पण त्याच्या धोरणामध्ये आस्थेपेक्षा सोयीचा भागच अधिक होता. पाच शतकापासून मोगल आणि पठाणांच्या वैमनस्यामुळे तात्पुरत्या पराभूत झालेल्या पण तरीही फार प्रबळ असलेल्या राजपुतांची मदत घेणे अकबराला भाग पडले. आपले नातलग व सहकारी असलेल्या विश्वासघातकी लोकांपासून सुरक्षित राहण्यासाठी आणि आपले साम्राज्य वाढविण्यासाठी राजपुतांची मदत घेणे गरजेचे वाटले व अकबराने मैत्रीचे धोरण स्वीकारून तसेच स्वतःला भारतीय समजून राज्य केले. हा त्याच्यावर झालेल्या संस्काराचा परिणाम होता. इ.स. १२१६-६६ या काळात झालेल्या सुलतान बलबननेही आपल्या रोजनशीत लिहिले की, हिन्दुस्थानात राज्य करणे आणि त्याबरोबरच जबरदस्तीने मोठ्या प्रमाणात लोकांना बाटवून मुसलमान करणे ही दोन्ही कामे एकदम होणे शक्य नाही.

अनेक शतके जुलमी, अत्याचारी मुसलमान शासकांच्या

हालअपेक्षा सहन केल्यानंतर हिन्दू समाजाच्या उद्धाराची प्रक्रिया छत्रपती शिवाजी महाराजांच्या नेतृत्वाखाली नव्या जोमाने सुरू झाली. छत्रपतींनी भारतखंडात हिन्दू सहिष्णुतेच्या वर्चस्वाच्या पुर्नस्थापनेचा भक्कम पाया घातला. त्यांनी निर्माण केलेल्या छोट्याशा राज्याने त्यांच्या मृत्यूनंतर सत्तावीस वर्षांच्या दीर्घकाळापर्यंत मोगली आक्रमण थोपवून धरले. एवढेच नव्हे तर त्याचे रूपांतर पुढे १८व्या शतकात भारताच्या अधिकतर भागात प्रभाव असलेल्या मराठा साम्राज्यात झाले. हिन्दू परंपरेतील धार्मिक सहिष्णुतेच्या थोर प्रथेला अनुसरून आपल्या स्वराज्याचे धोरण उदार सहिष्णू ठेवले. सर्व धर्मसमभाव हा त्यांचा स्थायी भाव होताच. मोगल इतिहासकार खाफीरखान सारखा कट्टर धार्मिक व्यक्तीही छत्रपती शिवाजी महाराज इस्लामविषयी आदर दाखवीत असत असे नमूद करतो. पण शिवाजी महाराज सहिष्णुता आणि मनधरणी यातील फरक चांगल्याप्रकारे जाणत असत. त्यामुळे ते जरी धार्मिक स्थळांना संरक्षण देत असत तरी मंदिर तोडून बांधल्या गेलेल्या मशिदींच्या जागी पुन्हा मंदिर निर्माण व्हावे असा आग्रह धरून तो अंमलात आणत. या त्यांच्या धोरणाचा अवलंब त्यांच्यानंतरच्या मराठा राज्यकर्त्यांनी पण केला आणि त्यामुळे नष्ट झालेली शेकडो मंदिरे हिन्दू समाजाला परत मिळाली.

धर्मनिरपेक्षतेचा दुसरा महत्वाचा पैलू ब्रिटिश राजवटीत अस्तित्वात आला. तो म्हणजे कायद्यांच्या बाबतीत समानता. फौजदारी अपराधांच्या बाबतीत सरकार धर्माच्या आधारावर कुठलाही भेदभाव करीत नसे. इतर बाबतीत मात्र धर्मावर आधारित व्यक्तिगत कायद्यांचाच अवलंब केला जात असे. जरी ब्रिटिश सरकार कुठल्याच धर्माला पाठिंबा देत नसले तरी भारत खंडातील धार्मिक गटांनी सामोपचाराने राहावे याकरिता कुठलाच प्रयत्न करीत नसे. उलट हिंदू-मुस्लिम या दोन जमातीतील अस्तित्वात असलेल्या मतभेदांचा भरपूर फायदा घेऊन “तोडा फोडा आणि राज्य करा” हे धोरण सातत्याने चालवून आपला साम्राज्यवाद बळकट करण्याचा प्रयत्न केला. क्रांतीकारी व स्वातंत्र्यचळवळ दडपून वसाहत दीर्घकाळ टिकविण्याचा प्रयत्न केला. पण त्यातूनच जमातवादाला खतपाणी घालून पुढे भारतखंडाचे विभाजन करून पाकिस्तानची निर्मिती करून भारताला स्वातंत्र्य दिले.

१५ ऑगस्ट १९४७ नंतर स्वतंत्र भारताचे धोरण धार्मिक सहिष्णुता आणि धर्मनिरपेक्षता हेच राहिलेले होते. भारताने संसदीय लोकशाही स्वीकारलेली होती. पण प्रशासनव्यवस्था ब्रिटिशकालीनच राहिली होती. त्यात फारसा बदल करण्यात आलेला नव्हता. सर्वसाधारणतः गुलामगिरीतून मुक्तता मिळाल्यानंतर स्वतंत्र देशांचे अध्यक्ष आपल्या देशाची प्रशासन व्यवस्था बदलून आपल्या देशाला अनुकूल राष्ट्रवाद जागृत ठेवून प्रबळ राष्ट्र निर्माण करण्यासाठी दूरदृष्टीचे ध्येयधोरण राबवीत असतात. जर्मनीचे उदाहरण या बाबतीत



उत्तम आदर्श ठरले. पण स्वतंत्र भारतातील महत्वाकांक्षी नेत्यांनी केवळ निवडणुकीचे राज्य निर्माण करण्याचे ध्येय ठेवून धर्मनिरपेक्षतेचा उपयोग करून घेतला आणि घटनेतील 'अल्पसंख्याकांचे संरक्षण' हेच धर्मनिरपेक्षतेचे ध्येय ठेवले. त्यामुळे पुढील काळात राष्ट्रनिष्ठेपेक्षा पक्षनिष्ठा श्रेष्ठ ठरली पुन्हा देश दुभंगला गेला. राष्ट्रनिष्ठा कमकुवत होत गेली.

१९४७ नंतरही मुस्लिम मोठ्या प्रमाणात भारतातच राहिले. भारतीय घटनेत धर्मनिरपेक्षता ही एकनिष्ठेची बाब म्हणून स्वीकारण्यात आली. अर्थात ते भारताच्या हजारो वर्षांच्या उज्ज्वल परंपरेला धरूनच होते. परंतु भारतीय पंतप्रधानांच्या हिशोबी धर्मनिरपेक्षतेचा एकच अर्थ होतो आणि तो म्हणजे निवडणुकीसाठी मुसलमानांची मनधरणी करीत राहणे. फाळणीपूर्वी मुस्लिमांसाठी वेगळा मतदारसंघ ब्रिटिशांनी निर्माण केला. पण स्वातंत्र्यानंतर नवीन घटनेनुसार संयुक्त मतदारसंघ निर्माण झाले व निवडणूक जिंकण्यासाठी मुसलमानांची मते हा एक महत्वाचा घटक बनला. मतपेट्यांची लढाई जिंकण्यात मुस्लिमांच्या सामुदायिक मतांना निर्णायक भूमिका मिळाली. १५ डिसेंबर १९५०ला सरदार वल्लभभाई पटेलांच्या मृत्यूनंतर नेहरूंनी निवडणुकीपुरते मनधरणीचे धोरण सुरू केले. ज्या अलिगढ मुस्लिम विश्व विद्यालयाने पाकिस्तान निर्मितीत निर्णायक भूमिका बजावली, त्याला १५ ऑगस्ट १९४७ नंतर काम करण्याची परवानगी तर मिळाली शिवाय तिचे फाळणीपूर्वी मुस्लिम स्वरूप तसेच राहू दिले. ते पूर्वीसारखेच मुस्लिम जातीवादाचा अड्डा बनून राहिले. मुसलमानांची निरक्षरता, त्यांचे आर्थिक मागासलेपणाचे मुख्य कारण धर्मांधताच होते; पण त्यावर विश्वास ठेवण्याचे जाणूनबुजून नाकारण्यात आले. पाकिस्तानच्या मनात अजूनही चांगुलपणाची भावना निर्माण करता येईल असा विश्वास त्यांना वाटत होता. पण सरदार पटेलांनी मात्र पाकिस्तानी अधिकाऱ्यांना तलवारीचे उत्तर तलवारीनेच मिळेल असे वारंवार बजाविले होते. हैद्राबाद, जुनागढबाबत हीच भूमिका घेऊन ती संस्थाने भारतात विलिन केली होती. पटेलांच्या ठामपणामुळे मात्र पाकिस्तानातील हिंदूंना थोडे बहुत संरक्षण मिळत असे. परंतु पाकिस्तानातील लोकांनी तेथील हिंदूंचे काय वाटेल ते केले तरी भारतातील मुसलमानांना संरक्षण दिले जाईल अशी त्यांच्या मनधरणीच्या धोरणाशी सुसंगत असलेली भूमिका नेहरूंनी पटेलांच्या मृत्यूनंतर घेतली होती. भारतीय घटनेत मुस्लिमांसकट सर्वच अल्पसंख्याकांना पूर्ण संरक्षण दिले गेले आहे. पण पंतप्रधान नेहरूंच्या मते त्या हमीचा मुसलमानांपुरता अर्थ मर्यादित होता. ते आणि त्यांचा पक्ष ज्यांनी ब्रिटिश राजवटीत ज्या ब्रिटिश धोरणाचा कडाडून विरोध केला होता त्याच धोरणाचा अवलंब करण्यास सुरुवात केली. स्वतःला मुस्लिमांचे एकमेव रक्षक म्हणून पुढे करून त्यांच्या सामुदायिक मतांवर हक्क सांगायला सुरुवात केली. त्याच्या बदल्यात मुस्लिमांनी आपल्या कोंडवाड्यातच राहावे अशी अपेक्षा ठेवून

राष्ट्रीय जीवनाच्या मुख्य प्रवाहात येण्यापासून त्यांना थोपविण्याची संपूर्ण काळजी घेण्यात आली. त्यांची जुनाट मते, त्यांची धर्मांधता, त्यांचे मागासलेपण व त्यांची गरीबी याचा राजकीय हेतूसाठी पूर्ण फायदा घेण्यात आला.

१९४७ नंतर ब्रिटिश निघून गेले तरीही हिंदू-मुस्लिम दंगे चालूच होते. उत्तर भारतात राहणाऱ्या मुस्लिमांनी पाकिस्तानच्या चळवळीत अतिशय जोमाने सहभाग घेतला होता. हेच पाकिस्तानचे खरे शिल्पकार होते. ह्यातील बरेच निरनिराळ्या कारणांकरिता खास करून गांधी, नेहरूंच्या आवाहनामुळे भारतात राहिले. हे कट्टर मुस्लिम पाकिस्तानी होते. पटेलांचा त्यांच्यावर वचक होता. पण पटेलांच्या मृत्यूनंतर नेहरूंच्या हातात संपूर्ण सत्ता आलेली होती. त्यांनी आपले खरे स्वरूप दाखवायला सुरुवात केली. पुन्हा जातीय दंगे सुरू झाले. त्याचा दोष नेहरूंनी हिंदू समाजाच्या माथी मारला. डॉ. एस. गोपाल यांनी लिहिलेल्या जवाहरलाल नेहरू या ग्रंथमालेतील तिसऱ्या खंडात म्हटले की, "नेहरूंच्या हिशोबी सांप्रदायिक शांततेची जबाबदारी मुख्यत्वेकरून हिंदूंची होती. मुसलमानांचा प्रश्न हा हिंदूमुळे उद्भवला होता." ज्या मुस्लिम जातीवादामुळे १९४७ ला देशाची फाळणी झाली तो नेहरूंच्या मते जातीयवाद नव्हताच. नेहरू मुस्लिम जातीयवादाला नेहमीच पाठिंबा देत आणि हिंदूंनी केलेल्या आत्मरक्षणाच्या प्रयत्नांना ते जातीयवाद म्हणून धिक्कारीत. एकीकडे हिन्दु कोड बील मोठ्या गाजावाजाने पास करण्यात आले. तर दुसरीकडे मुस्लिमांना मात्र त्यांच्या कालबाह्य व्यक्तिगत कायद्याच्या कक्षेतच राहू देण्यात आले.

ऐतिहासिक कारणांमुळे हैद्राबादमधील मुसलमानांना विशेष स्थान देण्यात आले व त्यांना खास सवलती देण्यात आल्या; पण त्याच न्यायाला अनुसरून जम्मू-काश्मीरमधील हिंदूंना तशीच वागणूक देण्याची मागणी मात्र नेहरूंनी नाकारली तसेच काश्मीरला भारतीय संघराज्यात इतर घटकराज्यापेक्षा वेगळा आणि खास दर्जा देणारे घटनेचे ३७०वे कलम नेहरूंच्या आग्रहास्तव भारतीय घटनेत सामील करण्यात आले. त्यामागे काश्मीरी मुसलमानांना विशेषतः शेख अब्दुल्लांना खूष करणे हाच हेतू होता. मुसलमानांशिवाय धर्मनिरपेक्षता अपुरी राहील असे नेहरूंना वाटत होते. काश्मीरच्या खोऱ्यात मदतरूपाने पैसा ओततच राहिले. त्यांच्या मते भारतीय धर्मनिरपेक्षतेची कसोटी काश्मीरच्या भूमीतच व्हायची होती. म्हणून दिवसेंदिवस काश्मीरप्रश्न चिघळत ठेवून निवडणुकीचे राज्य प्रस्थापित करण्याचे प्रयत्न पक्षीय राजकारणाने देशात सुरू ठेवलेले दिसतात. वरवर धर्मनिरपेक्षतेचा बुरखा पांघरून महत्वाकांक्षी पण दूरदृष्टी नसलेल्या नेत्यांच्या हातात सत्ता केंद्रित झाली. धर्माचा वापर राजकारणासाठी करण्याची प्रथा पडल्याने भारतातील सामाजिक, धार्मिक प्रश्न नाजूक, संवेदनशील करण्यात येऊ लागले. त्यासाठी हिंसाचाराचे मोठे हत्यार उपयोगात आणले जात आहे. राष्ट्रनिष्ठा आणि मानवतावाद



हे दृष्टिकोन मागे पडले. एकाच पक्षाची सत्ता कायम राहण्यासाठी दहशतवाद वाढविण्यात येवू लागला. आज या दहशतवादाचे स्वरूप अंतर्गत व बहिर्गत या दोन्ही स्वरूपात परिवर्तित झाल्यामुळे त्यावर नियंत्रण ठेवणे आता अशक्य कोटीतील ठरत आहे. इंदिरा गांधींनी बहिर्गत दहशतवादाला आपल्या नियंत्रणात ठेवले होते. पण त्यानंतर मात्र भारताची धर्मनिरपेक्षता ही केवळ नावापुरतीच

राहिलेली दिसून येते. जागतिकीकरणाच्या नावाखाली भांडवलशाहीचे आक्रमण प्रभावी ठरले आहे व केवळ लोकशाहीचा देखावा राहिलेला आहे. परकीय सांस्कृतिक आक्रमणाने देशाला पूर्णपणे पोखरलेले आहे. निवडणुकीचे राज्य जोपर्यंत संपणार नाही तोपर्यंत फारसे बदल घडून येण्याची शक्यता दिसत नाही.

७३७३७३

## बाबा

वडील, बाबा म्हणतात सगळे,  
पण या शब्दाचा नेमका अर्थ काय ?  
यांचा अर्थ सांगायला शब्द नसतात  
कारण त्यामागे अपार प्रेम करणारे वडील असतात !  
सोसाट्याच्या वाऱ्यात दिवा जसा न्यावा,  
तसे ते आम्हाला जपतात.  
ठेच लागून जर कधी पडलो,  
तर तेच आम्हाला सावरतात.  
आमची हौसमौज भागविण्यासाठी  
ते स्वतः कष्ट करतात.  
आम्हाला यशस्वी झालेले बघण्यासाठी,  
ते खूप धडपड करतात.  
त्यांच्याही मनात असतात नानविध दुःख,  
पण ते कधी व्यक्त करत नाहीत.  
त्या दुःखाचा भार कधी,  
कुटुंबाला जाणवू देत नाहीत.  
आईवर करतात कविता सगळे,  
पण बाबावर का कोणी करत नाही ?  
राबराब राबणांच्या त्या बाबांसाठी,  
का कुणी झुलत नाही ?  
आई आई म्हणतात सगळे,  
पण 'बाबा' का कोणी म्हणत नाही ?  
पप्पा म्हणण्यापेक्षा बाबा म्हणण्यात जो दिलासा आहे,  
तो का कोणा उमजत नाही ?  
शेवटी स्वढंघ म्हणते बाबा  
तुमचे जे स्वप्न आहे,  
ते मी नक्की करीन पुरे.  
सवढे काही देईन तुम्हाला,  
की काहीच न पडणार उणे !

- प्रतिभा गायकवाड (S.Y.J.C. Com.)

## आई

का गं आई मला अशी सोडून  
गेलीस तू ?  
या भयाण मोठ्या अंधारात  
विरून गेलीस तू ?

शब्दन् शब्द आठवतो गं  
लाड तुझा गोड  
तुझ्याविण सकटं आहे  
लहानगं तुझं पोर

या सकटेपणाच्या सागरात  
का सोडलस तू ?  
या भयाण मोठ्या अंधारात  
विरून गेलीस तू

दुकानातल्या चॉकलेटपेक्षा  
तुझा लाडू गोड होता  
सांजवेळीच्या शुभंकरोतीचा  
वेगळाच नाद होता.

तुझ्या आठवणीत रडण्यासाठी फक्त  
जन्म दिलास का ग तू ?  
या भयाण मोठ्या अंधारात  
विरून गेलीस तू...

तुझ्या कुशीतली उब आजही मला जाणवते,  
तुझ्या बांगड्यांची किणकिण  
आजही आठवते.

तुझे भास मनाला छळताहेत  
लवकर ये ग तू  
या भयाण मोठ्या अंधारात  
विरून गेलीस तू.

- जान्हवी राखे



## Sports - Senior College

### National Level Players



**Siddhi Bhaip**  
F.Y.B.Sc.  
Shooting



**Sampada Telang**  
F.Y.B.C.S.  
Swimming



**Rohan Joshi**  
T.Y.B.Com.  
Chess



**Prashant Arsul**  
T.Y.B.Com.  
Handball



**Pratima Nimbalkar**  
M.A.  
Kho-Kho



**Deepali Gaikwad**  
M.A.  
Kho-Kho



**Ashwin Mehendale**  
F.Y.B.Com.  
Netball



**Amey Gayal**  
F.Y.B.Com.  
Swimming



**Nikhilesh Nirupam**  
Football



**Akash Zambare**  
T.Y.B.A.  
Handball



**Akash Barkul**  
T.Y.B.Com.  
Shooting



**Aishwarya Shetty**  
T.Y.B.Com.  
Netball / Korfball



**Atul Daundkar**  
M.Com.  
Netball / Korfball



**Sachin Shinde**  
S.Y.B.Com.  
Korfball



**Salomi Chandekar**  
F.Y.B.Com.  
Netball



**Sayali Kardekar**  
M.Com.  
Volleyball



**Supriya Borchate**  
F.Y.B.A.  
Shooting



**Swapnil Jarande**  
F.Y.B.Com.  
Netball



**Trunal Dhadge**  
M.Com.  
Netball



## Sports - Junior College



**Bina Negi (12th)**  
Kick Boxing State Level  
Bronze Medal  
Karate International



**Radha Gokhale (12th)**  
Ice Skating  
Silver Medal  
National Level



**Tejal Sonawane (12th)**  
Wrestling  
State Level Gold  
National Bronze Medal



**Suraj Anpat (11th)**  
Archery  
Selected for National Level



**Amruta Munj (11th)**  
Kayaking  
Selected for National Level



**Suprabha Pujari (11th)**  
Lawn Tennis  
Participated at National Level



**Rutuja Kapdekar (12th)**  
Chess  
State Level



**Suraj Vidhate (11th)**  
Kick Boxing and Boxing  
Bronze Medal at State Level



**Shubham Todkar (11th)**  
Weight Lifting  
2nd place at State Level



**Pramod Ambike (11th)**  
Cycling  
Participated at State Level



**Tanya Gokhale (11th)**  
Rope Mallakhamb  
Gold Medal at State Level



**Harshal Kulkarni (11th)**  
Swimming  
3rd place at State Level



**Samrudhi Dhabade (11th)**  
Fencing  
Participation at State Level



**Aboli Balwadkar (11th)**  
Fencing  
Participation at State Level



**Aditya Jadhav (11th)**  
Fencing  
Participation at State Level



**Preeti Bhilare (11th)**  
Tinequite  
Participation at State Level



**Rohit Gaikwad (11th)**  
Volleyball  
Participation at State Level



**Gaurav Dhore (11th)**  
Netball  
Participation at State Level



**Sumit Waghmode (11th)**  
Throwball  
Participation at State Level



**Yusuf Khan (11th)**  
Kick Boxing and Sikai Marshal  
Participation at Inter Zonal Level



**Suyog Babar (11th)**  
Archery  
Participation at Inter Zonal Level



**Apoorva Chavan (11th)**  
Fencing  
Participation at Inter Zonal Level



**Minakshi Shinde (11th)**  
Fencing  
Participation at Inter Zonal Level



## Sports - Winner Teams



Netball  
winner team  
(Senior College)

Kho-kho  
winner team  
(Senior College)



Netball  
Intercollegiate  
winner team  
(Senior College)

Korfball  
Intercollegiate  
winner team  
(Senior College)



Volleyball  
3rd place  
(Junior College)

Netball  
3rd place in Zonal  
(Junior College)





## कलामंडळ



### कलामंडळ उद्घाटन कार्यक्रम

कलामंडळ अध्यक्ष प्रा. सौ. सुनीता पुरोहित व प्रा. डॉ. झुंजारराव सुप्रसिद्ध एकपात्री कलाकार श्री. बण्डा जोशी यांचा सत्कार करताना.



कलामंडळ पारितोषिक वितरण समारंभ - नाट्यअभिनेत्री इला भाटे यांची मुलाखत घेताना शुभंकर एकबोटे (एस.वाय.बी.कॉम.).



स्पीक-मॅके व मॉडर्न महाविद्यालय आयोजित राजस्थानी लोकसंगीताचा कार्यक्रम सादर करताना श्री. बुंदूखान लांगा व सहकारी.



'हास्यपंचमी' - एकपात्री प्रयोग सादर करताना श्री. बण्डा जोशी.

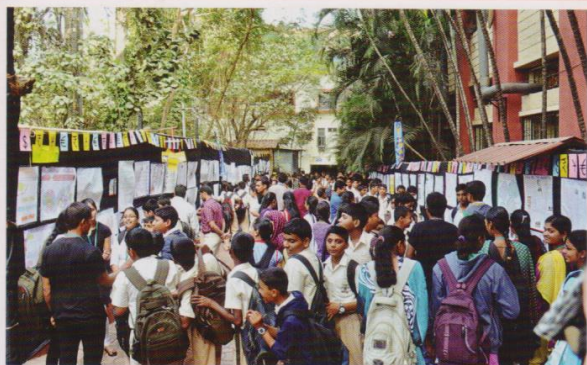


हिंदी विभाग - 'शुद्धलेखन कार्यशाळा' - मार्गदर्शन करताना महाराष्ट्र राष्ट्रभाषा सभेचे प्राचार्य सु. मो. शहा.



युवा मंच उद्घाटन - डावीकडून - युवामंच अध्यक्ष प्रा. सौ. सुनीता पुरोहित, प्राचार्य डॉ. झुंजारराव, उद्घाटक सौ. मंजिरी धामणकर व उपप्राचार्य डॉ. कुलकर्णी.





Economics - Financial Literacy Campaign.



Dean Prof. Dr. K. C. Mohite at Prize Distribution Ceremony.



Our Commerce staff at Shriram College of Commerce, New Delhi.



Commerce - Seminar on 'New Companies Act.'



Psychology - Career guidance workshop by Dr. Shriram Geet.



Psychology - Syllabus Revision Workshop.



Best Librarian Award by Pune Nagar Vachan Mandir to Mrs. Datre.  
Felicitation by Film Director Shri. Rajdatta.



'Centenary of German Teaching in India' - celebration  
Principal Dr. Zunjarrao, Eevelen Regenfus and other guests.





Principal Dr. Zunjarrao observing the models at Botany Exhibition.



Winner team of Botany Model competition.



Prof. Mandhare judging the flower arrangement competition.



Computer Science - Poster exhibition and competition.



Mock Interview - Computer Science.



Computer Science - Felicitation of Meritorious student.



Electronics M.Sc. I at Robocon Contest MIT.



Electronics - Educational Trip.





Felicitatation by Dr. A. P. Gore : Bhakti Farad - Ist rank in T.Y.B.Sc.



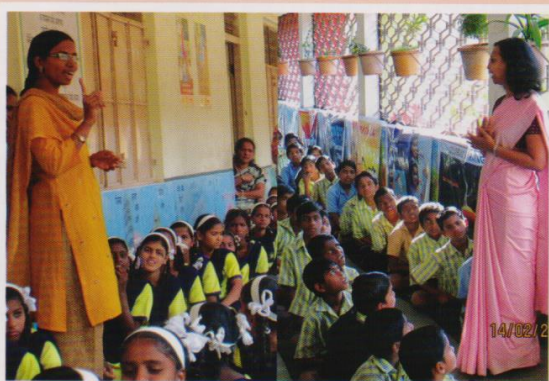
Prof. A. G. Gosavi and Prof. P. S. Kapre-Statistical Fest.



Physics - Dr. C. V. Dharmadhikari, IISER at Poster Competition.



Physics - Project



Zoology extension activity in slum area schools.



ZooVision - Principal and Vice-Principal Visit.



Microscopy workshop (under DBT) for Life Science students.



Microscopy workshop (under DBT) for Life Science students-Dr.B.B.Nath.





Training Workshop in Biotechnology.



Biotechnology- PCR workshop (DBT Star College Scheme).



International Students' Cell-Principal interaction.



Industry - Academia Meet.



'Microcosm' - Winners with all dignitaries of the Competition.



TYBSc Microbiology - Visit to United Breweries.



Exhibition - Mrs. Mukti Panse (Dr. DY Patil College, Nigdi) and Dr. Smita Bhuyan-Pawar, Dr. Mujumdar with Dr. Zunjarrao.



Science Association - Science Day.



## एन.एस.एस. : स्वतः घडणे व घडविणे, एक अनुभव

प्रा. निशा भंडारे (एन.एस.एस. कार्यक्रम अधिकारी)



“अपने लिए जिये तो क्या जिए ।

दिल तू जी जमाने के लिए” खरंच ह्या गाण्याच्या ओळी आणि एन.एस.एस. चे ब्रीद वाक्य “Not me but you” खरंच दुसऱ्यांसाठी काहीतरी चांगले करण्याचा, मदत करण्यात वेगळाच आनंद मिळतो, असे मला वाटते. एन.एस.एस.च्या माध्यमातून सहकार्य करण्याची जबाबदारीची सकारात्मकदृष्टी प्राप्त होते. मला ह्या संदर्भात अनेक आदर्श व्यक्तींचा सहयोग लाभला. असे म्हणता येईल की माझ्या आयुष्यात चांगली कर्तृत्ववान, कार्यशील व्यक्तिमत्त्वे लाभली यात “बहाई” संस्थेचे डॉ. आजादी सर, नगर कॉलेजमधील डायरेक्टर (एम.एस.डब्ल्यू) कनोजिया सर, डॉ. शाकिरा इनामदार मॅडम, प्रा. डॉ. गोसावी सर, प्रा. डॉ. झुंजारराव सर, प्रा. देशमुख सर, प्रा. साळुंखे सर, आल्हाट सर, नायडू सर अशी बरीच मोठी यादी होईल.

१९९५ मध्ये मॉडर्नच्या परिवारात आले आणि १९९६ पासून एन.एस.एस.ची एक भाग बनले. त्यावेळेपासून एक दिवसाचा मुक्काम ठरलेला मरकळ, फुलगाव, नाथाची वाडी, भोसेगाव इ. ठिकाणी विद्यार्थ्यांसोबत खूपच छान वाटत होते. आणि १४ वर्षांनंतर म्हणजे एका तपानंतर कार्यक्रम अधिकारी होण्याचे स्वप्न वास्तवात आले. याचे श्रेय प्राचार्य डॉ. झुंजारराव सर व प्रा. देशमुख सर (बी.सी.एस. विभागप्रमुख) यांच्याकडे जाते. पीएच.डी.चा अभ्यास सुरू झाला होता. नोंदणी करावयाची होती. पण प्राचार्यांच्या शब्दाने उभारी घेतली. ते म्हणाले, “तुमच्या पीएच.डी.च्या अभ्यासात व्यत्यय येणार नाही मला खात्री आहे तुम्ही ही जबाबदारी आनंदाने स्वीकाराल. तुम्ही व वराडे सर मिळून हे काम करणार. तुम्हाला सामाजिक कार्याची आवड आहे. त्याचा उपयोग आपल्या विद्यार्थ्यांना होईल त्याबद्दल मला खात्री आहे.” ह्या शब्दांनंतर मी, वराडे सर आणि आमचे दोनशे पन्नास स्वयंसेवक एक कुटुंब झालो. एक निर्णय आम्ही दोघांनी घेतला. पैशाचा व्यवहार, बाहेरच्या गोष्टी त्यांनी सांभाळाव्या. मी व्याख्याने, वक्ते, विद्यार्थ्यांची शिस्त, कार्यक्रम. आणि बघता बघता चार वर्षे झाली. कुठलाही त्रास होऊ न देता, विद्यार्थ्यांच्या सहकार्याने खूप चांगली चांगली कामे करता आली. या निमित्ताने विद्यार्थ्यांशी संवाद साधता आला. त्यांचे प्रश्न, समस्या यावर बोलता आले. पथनाट्यांच्या माध्यमातून खूप काही मांडता आले. हिवाळी शिबिरात सात दिवस सहा रात्र जबाबदारीची जाणीव झाली. घोटावडे गाव, फुलगाव, कुळ देखणे ह्या गावातील लोकांचा अनुभव, विचार, संस्कार जवळून पाहता आले. कार्यक्रम अधिकारी म्हणून नागपूर, नगर, महाबळेश्वर येथे कार्यशाळेनिमित्त जाता आले. नागपूर येथे ‘उत्कर्ष स्पर्धे’साठी पुणे विद्यापीठाचे प्रतिनिधित्व करता आले. आपल्या महाविद्यालयाचे दोन विद्यार्थी गौरी शिंदे नृत्यांसाठी,

अभिषेक वाळके पथनाट्यासाठी निवडण्यात आले. सहा पदकांच्या रूपाने पुरस्कार पुणे विद्यापीठाचा मिळाला. खऱ्या अर्थाने आमची पहिली बॅच खूप साह्यकारी, समंजस, कामामध्ये निष्ठात. मनोज, नरेंद्र, विशाल, जगन्नाथ, सौरभ, संकेत, ऋतुजा, श्रद्धा, दीपाली, गौरी, सोनाली व उत्कृष्ट स्वयंसेवक प्राजक्ता गायकवाड ती आता वकील होणार. पुढेही या विद्यार्थ्यांमध्ये कॉमर्सची बॅच मिसळली. म्हणतात ना एक से भले दो तसेच प्रज्ञा, मनोहर, दीपक, अभिषेक, केतन, आरती, वैशाली, सुप्रिया, तुषार, सूरज, सुनील, विनायक, अभय, धीरज, स्वप्नील ह्या मोठ्या परिवारातील सन २०१२ मध्ये अभिषेकचा अपघाती मृत्यू झाला. त्याच्या स्मृतिप्रीत्यर्थ ‘उत्कृष्ट स्वयंसेवक’चा पुरस्कार मी सुरू केला व त्याचे नाव ‘मॉडर्न’च्या विश्वात अजरामर केले.

एकूण चार वर्षात वेगवेगळे उपक्रम राबवले, जसे उद्घाटनाला श्रमदान साधनांचे पूजन, माजी विद्यार्थ्यांना कार्यक्रमास बोलवणे, पथनाट्य फक्त कॉलेजमध्ये न करता विविध भागात सादर केले. पोलीस लाईन शिवाजीनगर स्टेशनजवळील वस्ती, बंजारा वस्ती, पाटील इस्टेट वस्ती, मुळारोड भागात चार ठिकाणी. महानगर-पालिकेजवळ, पर्वती पायथा, यासाठी आम्हाला अंगणवाडीच्या शिक्षकांचे सहकार्य लाभले. ‘स्त्रीभूणहत्या’, ‘महिला सबलीकरण’, ‘व्यसनाधीनता’ या विषयांवर पथनाट्ये सादर केली. आपल्या संस्थेअंतर्गत आंतरमहाविद्यालयीन पथनाट्य स्पर्धेसाठी प्राचार्य व सचिव प्रा. देशमुखसरांनी मोलाचे सहकार्य केले. या पथनाट्याची ओळख म्हणूनच प्रा. देशमुख सरांनी ॲग्रीकल्चरल बायोटेक्नॉलॉजीच्या विद्यार्थ्यांचे ‘शेतकऱ्यांशी दुष्काळाशी सामना’ या विषयावर पथनाट्य लेखन करून ग्रामीण भागात सादर केल्याचा वेगळाच आनंद झाला. पोलीस मित्र प्रशिक्षणात २०० विद्यार्थ्यांबरोबर आम्ही प्राध्यापक सहभागी झालो. प्रा. झगडे सर, प्रा. रूपाली अहिरे मॅडम व प्रा. सुचेता जाधव, तसेच मोहन धारिया यांच्या वनराई प्रकल्पांतर्गत विंझर येथे भातलावणीचा अनुभव घेतला. चिखलात वरून पडणाऱ्या पावसात कष्ट करणाऱ्या शेतकऱ्यांचे दुःख विद्यार्थ्यांना कळले. खरेच एन.एस.एस. ने मला खूप काही शिकविले, घडविले. विद्यार्थी घडता घडता मला माझ्या कार्यक्षमतेची, धीराची, संयमाची परीक्षा घेता आली व एक जीवनमंत्र आजादीसरांचा आयुष्यात मानला जो म्हणजे “सरपर रखो बर्फ मुँहमें शक्कर”. खरंच रागावर कंट्रोल करणं सोपे गेले आणि या सगळ्या कष्टांचे फळ ‘उत्कृष्ट एन.एस.एस. युनिट’चा यावर्षाचा पुरस्कार आपल्या महाविद्यालयाला मिळाला. हे कार्य सफल होण्यात प्राचार्य झुंजाररावसर, संपूर्ण युनिटचे’ मी मनापासून आभार मानते.

०३०३०३



## विद्यार्थी : दशा आणि दिशा

प्रा. रवींद्र इंगोले



भावी आयुष्याचं स्वप्न पूर्ण करण्यासाठी महाविद्यालयात आलास, आनंद वाटला, वेगवेगळ्या विषयांसाठी वेगळे शिक्षक शिकविण्यास येतात. त्यांची शिकविण्याची पद्धत वेगवेगळी असू शकेल. पण उद्देश मात्र एकच, विद्यार्थ्यांनी शिकावं, चांगल्या मार्कांनी पास व्हावं व उज्ज्वल भवितव्य घडवावं, परंतु येथील वातावरणावर नियंत्रण ठेवणे अवघड जात असेल. चुकीच्या दिशेने पावलं पडत असतील तर सावध व शहाणा हो, काही पथ्यं पाळ.

वर्गात विविध भागातून आलेल्या मुलांची आर्थिक परिस्थिती वेगवेगळी असते. काही मुलांना पॉकेटमनी मिळत असल्यानं चहापानासाठी ते बाहेर पडतात. चल रे, मी आहे ना असं म्हणून इतरांनाही सोबत नेतात. चहा, सिगारेट, पानमसाला स्वतः खातात व इतरांच्याही वर दबाव आणतात. व्यसनाधीन असणाऱ्या किंवा त्यांची चटक असणाऱ्या अशा मुलांची संगत काही मोफत मिळत असेल तरी करू नकोस. कारण त्याच्या पुढची स्टेज म्हणजे नाटक, सिनेमा, लावणी वगैरे ठिकाणी घेऊन जाणं. पीरियड बँक करणं, उशिरा जाणं, अभ्यासाकडे दुर्लक्ष करणं या बाबी घडतात, म्हणून काळजी घे !

काही मुली अल्लड स्वभावाच्या असतात. समवयस्क, एकाच वर्गातील महाविद्यालयातील किंवा शेजारी असल्याने ओळख झाल्यावर मैत्री वाढते. त्यांच्यासोबत बोलणं, मोबाईलवर बोलणं, मेसेज पाठविणं, भेटीगाठी घेणं या बाबी सुरुवातीला अभ्यासाच्या निमित्ताने, एखाद्या घटनेत मदत केल्याने घडतात. मुलगी, बहीण, पत्नी, आई असे नातेसंबंध आयुष्यात जपणाऱ्या त्या मुलीप्रती चांगली भावना सुरुवातीला काही दिवस व महिने असते. पण किशोरावस्थेतील शारीरिक बदलामुळे हार्मोन्समुळे आकर्षण वाढते. मासिके, टी.व्ही, नेट, नाटक, सिनेमा यातील जाहिराती, मालिका, दृश्यं बघून मनपरिवर्तन कधी होतं व दृष्टिकोण कसा बदलतो हे कळतसुद्धा नाही. स्वार्थ साधून घेणं, फसविणं किंवा प्रेमाचं रूपांतर विवाहात कशा पद्धतीने होईल या विचाराकडे प्रवास सुरू होतो. नोटस् देणं-मागणं, मेसेज पाठवणं, फोटो काढून जगात तूच कशी जास्त सुंदर दिसतेस ते सांगणे, गप्पा मारायला आमंत्रण देणं, चहा नाशत्याची ऑफर देणं अशा प्रकारे जवळीक साधण्यात येते. मदत करण्याचा आविर्भाव, आपुलकीनं बोलणं, सर्व प्रकारची मदत करायला पुढे येणं व नंतर गैरप्रकार करण्यासाठी मन वळविणं ह्या बाबी घडण्याची

शक्यता असते. मनासारखं घडलं नाही, वागलं नाही, प्रतिसाद दिला नाही तर ? ... आक्षेपार्ह मेसेज किंवा चित्र पाठविणं, वारंवार त्रास देणं, धमकी देणं, पैसे लुबाडणं, शारीरिक अत्याचाराची, बदनामीची भीती दाखविणं किंवा तसं साहस करणं असे प्रकार होतात. भावनेच्या आहारी न जाता, स्वच्छंदी, स्वैराचारी मनावर ताबा ठेव. मैत्री कोणाशी, किती, कुठपर्यंत करायची व ठेवायची त्याचा विचार सद्सद्विवेकबुद्धीनं व संयमाने कर.

शिक्षण पूर्ण करण्याच्या या वयात मेहनतीनं, जिद्दीनं अभ्यास करण्याची आवश्यकता असते. स्वतःच्या पायावर उभं राहण्यासाठी, आईवडील, शिक्षकांचं स्वप्न पूर्ण करण्यासाठी कठोर परिश्रम व वेळेचं नियोजन करण्याची गरज असते. १८-१८ तास प्रतिकूल परिस्थितीत अभ्यास करणाऱ्या बाबासाहेबांचा आदर्श, शिकागोला भाषणाची सुरुवात बंधू-भगिनीनो अशी करणाऱ्या स्वामी विवेकानंदांचा आदर्श डोळ्यासमोर ठेवायचा असतो. सीमेवर देशाचं रक्षण करणाऱ्या व प्रसंगी मृत्यूला सामोरे जाण्याची, बलिदानाची तयारी कोणत्याही क्षणी ठेवणाऱ्या शूर सैनिकांचा आदर्श, सरपंच ते मुख्यमंत्री, केंद्रीय मंत्री होणाऱ्या काही राजकारण्यांचा आदर्श, मुंबईतील रस्त्यावर दिव्याखाली बसून मंद प्रकाशात अभ्यास करणाऱ्या डॉ. रघुनाथ माशेलकर या संशोधकांचा आदर्श डोळ्यासमोर ठेवणं महत्वाचं आहे. परंतु... एकांतात भेटण्यासाठी धावपळ, योग्य जागेचा शोध घेण्याचा प्रयत्न, इच्छा व वेळ नसतानाही एकदा का ती कळत नकळत थांबली तर... आपल्या मनात काहीही नसतं पण तिच्या मनातले चांगले-वाईट विचार व अंतरंग ओळखणे कठीण आहे. एक कप चहा कॉफीसाठी भेटणं व तिथून झालेली सुरुवात भावी आयुष्याची दिशा बदलवून टाकणारी व कदाचित दशा व दुर्दशा करणारी ठरू नये. शिक्षण पूर्ण करणं, नोकरी मिळवणं, स्वावलंबी होणं महत्वाचं आहे. महत्वाकांक्षा, आत्मविश्वास बाळगणं, सामाजिक बांधिलकी महत्वाची आहे. सावध राहा. सर्वच मैत्रीणी चांगल्या असतात किंवा सर्वच वाईट असतात असे नाही. वाईट असू शकते ती काहींची प्रवृत्ती, स्वार्थी भावना, व्यसन, क्षणिक आकर्षण, अज्ञान व शोषण करण्याची मानसिकता. गुन्हा घडल्यास राज्यघटनेतील कलम, फौजदारी स्वरूप, शिक्षा, दंड, कारावास, जेलची हवा, बदनामी, तसेच नोकरीसाठी आवश्यक असणारे पोलीस स्टेशनचे व्हेरिफिकेशन रिपोर्ट, चारित्र्य प्रमाणपत्र याची तुला काहीही माहिती नसते.



प्रत्येक आईवडलांची, पालकांची, शिक्षकांची मुलांनी प्रामाणिकपणे शिकावं, अभ्यास करण्यासाठी फावल्या वेळेचा वापर करावा, मोठ्या पदावर नोकरी करावी अशी इच्छा असते. त्या भावनेला, प्रयत्नांना व प्रेरणेला कधीही तडा जाणार नाही, हे बघ. त्यांचा अपमान न करता, त्यांना कमी न लेखता त्यांच्याशी प्रेमानं व त्यांच्या सल्ल्यानं वाग. समाजात तोंड दाखवायला जागा राहणार नाही असं एखादं कृत्य किंवा कृती तुझ्या हातून कळत-नकळत घडणार नाही ना, काळजी घे. प्रेमाच्या आणाभाका, वचन, आयुष्याचा जोडीदार आत्ताच व एकट्यानं ठरविण्याची घाई अंगलट येऊ शकते. आधी गुणवत्तापूर्ण शिक्षण, मग प्रतिष्ठेची नोकरी, नंतर वैवाहिक जीवन जगायचं बघ. एकतर्फी प्रेमातून होत असलेल्या अत्याचारापासून मुक्तता मिळण्यासाठी, सोनेरी जीवनाची व जीवाची वाताहत न होण्यासाठी प्रत्येक क्षणाला सावध राहून जपून पावलं टाक ! कोठेही बेसावध, अवेळी, निष्काळजीपणे जाऊ नकोस.

### ती एकच मैत्रीण

अफाट अशा या जगात मला होती सकच मैत्रीण  
जीवनातल्या सुखदुःखाची ती सक साथीदारीण.  
सकमेकींना साथ देत रहायचो नेहमी सकच  
गप्पा मारत बसायतो रात्ररात्र.  
सक दिवस अचानक तिने माझ्याशी मैत्री तोडली  
तुझ्याशी कधीच बोलणार नाही असे म्हणून निघून गेली.  
त्या दिवसापासून मी तिला व ती मला अंतरली  
आमची आयुष्यभराची मैत्री काही क्षणातच संपली.  
नंतर ती खूप आजारी आहे असे कळले  
सगळे विसरून मी तिला भेटायला गेले.  
गेल्यावर मला कळले तिला कॅन्सर रोगाने घेरले.  
मला जायला उशीर झाला होता.  
कारण तिच्या फोटोवर हार घातला होता.  
आणि म्हणूनच तिने स्वतःला माझ्यापासून तोडले.  
मी मात्र तिच्या बद्दल गैरसमज करून घेतले.  
आता या अफाट जगात कोणी राहिले ना आपले  
तिच्या जाण्याबरोबर जणू आयुष्य माझे संपले.  
पुन्हा आता ती मला कधीच भेटणार नाही.  
माझ्यातले हे सकाकीपण कधीच संपणार नाही.  
निघून जरी गेली ती देऊन गेली आठवणींचा ठेवा.  
हळूच निसटून जाताना फुलपाखरांनी द्यावा तसा.

- जाह्नवी पुरंदरे (11th ArtS)

दुसऱ्यांच्या भूलथापांना, अमिषाला, ऑफर्सना बळी पडू नकोस. दिशा नसेल तर दशा व्हायला एक क्षणही लागत नाही. काळजी घे ! आत्मविश्वासानं, मेहनतीनं, चांगल्या आचार, विचार व उच्चारानं प्रतिष्ठेचं जीवन जग व इतरांनाही जगू दे. विनयभंग, अत्याचार, बलात्कार, ऑसिड फेकणे, अपघात घडविणे, अपंगत्व येणे, खून करणे, जाळणे, कोर्टाची पायरी चढणे, आत्महत्या असे परिणाम भोगण्याची वेळ कोणावरही व कधीही येऊ नये तसेच वय, आईवडील, पालक, शिक्षक, नशीब, कर्म, शरीरातील हार्मोन्सच्या बदलाचा परिणाम, प्रारब्ध, देवदेवता, संस्कार, समाज, शिक्षण पद्धती, पोलिस यंत्रणा यांना दोषी ठरविण्यात येऊ नये.

जपून टाक पाऊल... हा सावधानतेचा इशारा !

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### आठवणी

गतकाळातील आठवणींच्या फुलांची  
सक परडी केव्हाच भरली  
लक्षात आले नाही वेचताना  
खूप फुले ओवायची चाहिली  
आठवणींच्या या फुलांना  
बकुळीचा सुगंध आहे  
रातराणीचा हेलावणारा  
मादक असा गंध आहे  
पारिजातकाचा नाजुकपणा  
अन् गुलाबाचा रंग आहे  
या साऱ्या आठवणींचा  
सक वेगळाच असा ढंग आहे  
आठवणींची ही साठवण  
आयुष्याची शिंदोरी आहे  
कधी सोनेरी कधी रुपेरी  
प्रत्येकच छटा न्यारी आहे  
कधी सागर लाटांची उभारी  
कधी नितळ पाणी आहे  
आयुष्यातील हे मंतरलेले दिवस  
सक न संपणारी कहाणी आहे  
आठवणींचा हा रत्नाकर  
मनाच्या गाभाऱ्यात उसळतो आहे  
अश्रूंना अडविण्याचा सारा खटाटोप  
आज अगदी व्यर्थ आहे.

- प्रा. प्राजक्ता नि. साबणे (वाणिज्य विभाग)



# भारतातील कचरा समस्या : स्थिती आणि उपाय

विष्णू प्रसाद श्रीमंगले. (राज्यशास्त्र विभाग)



## प्रस्तावना -

२१ व्या शतकात अनेक नवीन समस्याबरोबर मोठ्या महानगरांमध्ये तसेच जिल्हा, तालुका आणि गावस्तरावरही वेगवेगळ्या कचऱ्याची समस्या सामाजिक, नागरी आणि आरोग्यविषयक समस्या म्हणून उग्र रूप धारण करताना दिसते आहे.

नागरीकरण, नवीन जागतिक अर्थव्यवस्था, जागतिकीकरण, उदारीकरण, औद्योगिकीकरण, आणि माहिती तंत्रज्ञानातील क्रांतीमुळे संपत्तीच्या निर्मितीला वेग आला आणि विकास ही संकल्पना उदयास आली. यामुळे समाजातील सर्व सामाजिक, आर्थिक, सांस्कृतिक स्तरांमध्ये आमूलाग्र बदल होत गेले. विकासाच्या नावाखाली नैसर्गिक संसाधनाचे वापर वाढल्याने पर्यावरणाचे अनेक दुष्परिणाम जगभर दिसू लागले. याचाच एक भाग म्हणजे वाढते कचऱ्याचे प्रमाण आणि कचऱ्यातून बाहेर पडणाऱ्या या मिश्रणामुळे जागतिक तापमान वाढ होते तसेच यामुळे पृथ्वीवरील हरित गृहवायूचे (Green House Gases) प्रमाण वाढल्याचे सिद्ध झाले. ऋतुमानातील बदल, पाण्याची वाढती पातळी, दुष्काळ, अन्नटंचाई, वाढत्या तापमान यामुळे शरीराला अपायकारक वायूंचे प्रमाण पृथ्वीवर मोठ्या प्रमाणात वाढत आहे. औद्योगिकीकरण आणि स्वयंचलित वाहनांच्या संख्येत वेगाने वाढ होत असल्यामुळे खनिज तेलाचे ज्वलन वाढले तसेच भातशेती, कचरा, प्राणिज पदार्थ यामुळे मिश्रणचे प्रमाण, खते आणि औद्योगिक पद्धतींमुळे नायट्रस ऑक्साइडचे प्रमाण वाढत असल्याने हरितगृह वायूंचे प्रमाण वाढत आहे.

## महाराष्ट्रातील स्थिती :

महाराष्ट्रातील वेगवेगळ्या शहरातील घनकचऱ्याची विल्हेवाट लावण्यासाठी आणि कचऱ्यावर प्रक्रिया करण्यासाठी अँथोनी वेस्ट हँडलिंग, हंजेर बायोटेक आणि ए टू झेड इन्फ्रास्ट्रक्चर या तीन कंपन्या काम करत आहेत आणि लातूर शहरातील कचरा व्यवस्थापनासाठी आता अमेरिकेतील वेस् व्हेचर या कंपनीची मदत घेतली जाणार आहे. संपूर्ण मुंबईत दररोज ६५०० मेट्रिक टन कचरा जमा होतो. पुणे शहरात दररोज १२०० ते १५०० टन कचरा तयार होतो. यावरून भारतातील वेगवेगळ्या प्रमुख शहरांमध्ये कचऱ्याचे प्रमाण किती भयंकर आहे याचा अंदाज येतो.

## कायदे आणि अधिनियम :

भारतात पर्यावरणीय राजकारण १९९० पासून होताना दिसते. NDA वाजपेयी सरकारच्या काळात पर्यावरण आणि विकास हा विषय शाळेच्या अभ्यासक्रमात आणला गेला.

सर्वोच्च न्यायालयाचे निदर्शानुसार तसेच दिनांक ०३/१०/२००० चे भारत सरकार राजपत्रक सर्वसाधारण तसेच पर्यावरण व वन मंत्रालयाच्या दिनांक २५/९/२००० च्या नोटिफिकेशननुसार आणि पर्यावरण (संकर्षण) कायदा १९८६ आणि नागरी घनकचरा (व्यवस्थापन व हाताळणी) नियम २००० नुसार प्रत्येक घरातील सोसायटीतील आणि ऑफिसमधील निर्माण होणाऱ्या कचऱ्याचे ओला आणि सुका कचरा असे विभाजन करून ठेवणे व त्याची वैज्ञानिक पद्धतीने विल्हेवाट लावणे हे बंधनकारक झाले आहे.

इलेक्ट्रिकल आणि इलेक्ट्रॉनिक उपकरणांची निर्मिती करणाऱ्या ई-कंपन्यांनाच आता आपल्या उत्पादनाची विल्हेवाट लावण्याची जबाबदारी घ्यावी लागणार आहे. ई-कचरा बाजारातून 'टेकबॅक' करून त्या उत्पादनाचा पुनर्वापर किंवा विल्हेवाट लावावी लागणार आहे. वन व पर्यावरण खात्याने ई-कचरा व्यवस्थापन हाताळणी व व्यवस्थापन (ई-वेस्ट मॅनेजमेंट अँड हँडलिंग) अधिनियम २०११ च्या नियमावलीला ३० मे रोजी मान्यता दिली आहे.

सर्व प्रकारच्या कचऱ्याच्या अशास्त्रीय व बेकायदेशीर पद्धतीच्या हाताळणीने पर्यावरणाच्या प्रश्नाबरोबरच तेथील कामगारांच्या आरोग्याचा गंभीर प्रश्न महत्वाचा बनला आहे. ओला आणि सुका कचरा वेगवेगळा करताना कचरावेचकांना हाताला काच लागणे, इंजेक्शन सिरिज लागणे, ब्लेड लागणे हे प्रकार सर्रास घडतात त्यामुळे कचरावेचकांना वेगवेगळे आजार होतात. कचऱ्यामधील विशिष्ट उग्र वासामुळे कायम श्वसनाचे आजार होतात. कचरा गोळा करण्यासाठी खूप लांब लांब फिरावे लागते तेव्हा अनेक वेळा जवळ प्यायला पाणी नसते. त्यामुळे शरीरातील पाण्याचे प्रमाण कमी होऊन वेगवेगळे आजार झाले आहेत. गेली अनेक वर्षे पुणे येथील फुरसुंगी व उरुळी देवाची येथील नागरिकांना या कचऱ्याच्या डेपोमुळे अनेक दुष्परिणामांना तोंड द्यावे लागले असून दुर्गंधी व पाण्याच्या प्रदूषणामुळे आरोग्याचाही प्रश्न निर्माण झाला आहे. तेथे सतत लागणाऱ्या आगीतून निर्माण होणाऱ्या विषारी वायूमुळे नागरिकांना श्वसनाचे त्रास तसेच फुफ्फुसाचे विकार जडले आहेत. धुराच्या लोटांमुळेही नागरिक हैराण झाले असून तेथील वाहतूकही विस्कळित होत आहे.

## उपाययोजना :

वाढत्या लोकसंख्येबरोबर कचरादेखील प्रचंड प्रमाणात वाढतोय. कचरा जमा करण्यासाठी जागेची कमतरता भासत आहे. म्हणूनच



कचऱ्याचे व्यवस्थापन करण्यासाठी ँकात्मक पद्धतीचा विकास करण्याची अत्यंत गरज आहे. सुका घन कचरा काही प्रमाणात पुनर्वापर करता येऊ शकतो. धातू, काच, प्लास्टिक, पेपर यांची Recycle (पुनर्निर्मिती) होऊ शकते. कचऱ्याची निर्मिती होणे अपरिहार्य असले तरी कमीत कमी कचरा निर्मितीचे ध्येय सर्वांनी ठेवण्याची गरज आहे. थोडक्यात सुक्या कचऱ्याची त्रिसूत्री वापरून योग्य विल्हेवाट लावता येऊ शकते.

ओला कचरा नैसर्गिक चक्रानुसार विघटन झाल्यास त्यापासून उत्तम प्रतीचे सेंद्रिय खत तयार होते. त्यामुळे जमिनीचा कस तर वाढतोच तसेच इतर असेंद्रीय खतांचीही गरज राहत नाही. पूर्वी घरांघरातून परसदारी असलेल्या छोट्या खड्ड्यांमध्ये ओला कचरा ओतून त्यातून पद्धतशीरपणे खत तयार केले जात असे. हेच खत शेतीसाठी वापरण्यात येई. कचऱ्याचे योग्य व्यवस्थापन करण्यासाठी समाजाच्या सर्वच क्षेत्रातील, सर्व थरातील लोकांनी पुढे आले पाहिजे. ँक सुजाण नागरिक या नात्याने कचऱ्याची समस्या सोडविणे हे सगळ्यांचे कर्तव्य आहे. खालील सहजसाध्य कृतींमधून कचऱ्याचे प्रदूषण आपण आटोक्यात आणू शकतो. मुळात कचरा कमी निर्माण करणे हा या समस्येवर सर्वोत्तम उपाय आहे. यामुळे टाकाऊ पदार्थांची निर्मिती कमी होईलच व नैसर्गिक संसाधनावरील ताण कमी होण्यास मदत होईल.

प्रत्येक घरी ओला कचरा व सुका कचरा वेगवेगळाच गोळा करण्यात यावा. ओल्यासाठी हिरव्या रंगाची व सुक्या कचऱ्यासाठी लाल रंगाची छोटी कचरापेटी वापरण्यात यावी. ँकदा ओला व सुका कचरा ँकत्र करून फेकल्यास त्याचे वर्गीकरण करणे फार कठीण असते. त्यामध्ये वेळ, ऊर्जा व मनुष्यबळ अकारण खर्ची पडते व ओला कचरा विघटन होण्यास सुरुवात होते. घरातून, कार्यालये, शाळा-महाविद्यालय यातून निघणारा सुका कचरा जसे पेपर, धातू, काच यांचे शक्य झाल्यास पुनर्वापर करावा. अन्यथा वेगवेगळे करून रद्दी भंगारवाल्यांना सोपवावे. सार्वजनिक ठिकाणी कचरा-घाण टाकू नये याचे भान लहानथोर सर्वांनीच ठेवावे. यातून आरोग्यविषयक गंभीर समस्या निर्माण होऊ शकतात. स्वयंपाक घरातील ओला कचरा वापरून घरीच कंपोस्ट खत तयार होऊ शकते. हे खत आपण घरातील बागेसाठी किंवा कुंड्यांसाठी वापरू शकतो. ओला कचरा कदापिही प्लास्टिक पिशव्यांमध्ये घालून फेकू नये. कमीतकमी किंवा अजिबात पॅकेजिंग नसलेल्या गोष्टींना प्राधान्य द्यावे. यातून कमी कचरा निर्मितीचे उद्दिष्ट्य साध्य होईल. वापरून फेकून द्यायचे डबे, कॅन्स शक्यतो टाळावे. कचऱ्याचे योग्य व्यवस्थापन करण्याचे अनेक फायदे आहेत. जसे सेंद्रिय खत निर्मिती, सुक्या कचऱ्याचे पुनर्वापर व पुनर्वर्लन आदी कचरा व्यवस्थापनातून अनेक गरजूंना रोजगार उपलब्ध होतो. रद्दीवाले, भंगारवाले कचऱ्याचे वर्गीकरण व पुनर्वापर करून पर्यावरण व्यवस्थापनास हातभारच

लावत असतात. पर्यावरण रक्षणाची जबाबदारी प्रत्येकाने घेऊन त्याला सर्वांच्या सकारात्मक कृतीची जोड द्यावी. अशा पद्धतीचे काम पुण्यातील स्वच्छ पुणे सेवा सहकारी संस्था मार्फत होताना दिसते. या पद्धतीचे काम भारतातील प्रमुख शहरांमध्ये सुरु करण्यास सरकार आणि महानगरपालिकेने निर्णय घेतले पाहिजेत. कचऱ्याचे उपयोजन खालीलप्रमाणे करावे - Almitra Patel Recommendation

- १) रुग्णालयातील जैव वैद्यकीय कचरा ज्यामध्ये मानवी अवयव, मृत बालके, रक्तमांस, इंजक्शन सिरिंज, सलाईन बॉटल्स, सलाईनच्या प्लॅस्टिक बॉटल, नळ्या, बँडेज पट्ट्या, कापसाचे बोळे, प्लास्टिक कचरा, औषध बाटल्या यांचा समावेश आहे. मुळात हा कचरा मशीनद्वारे जाळून टाकला पाहिजे.
- २) हॉटेल कचऱ्यापासून बायोगॅस बनवला पाहिजे ज्यामुळे घरगुती इंधन बचत होते.
- ३) मल्टीपर्पज इलेक्ट्रॉनिक उपकरणे - ज्या कंपन्यांचा मोबाईल त्याच कंपनीचे चार्जर, हेडसेट, बॅटरी आणि ँक्ससेरीज, त्यामुळे इलेक्ट्रॉनिक उपकरणे खरेदी करण्याचे प्रमाण वाढते. तसेच त्याचा कचराही. सर्वच यंत्रांना चालू शकतील असे सुटे भाग असावेत.
- ४) पुनःप्रक्रिया होणारे इलेक्ट्रॉनिक साहित्य - पुनर्वापर आणि पुनर्प्रक्रिया करता येईल अशा उपकरणांची किंवा साधनांची निर्मिती व्हायला हवी.
- ५) वापरा आणि फेका (युज ँण्ड थ्रो) ँवजी दीर्घायुषी इलेक्ट्रॉनिक साहित्य हवे.
- ६) टेक बॅक पॉलिसी - इलेक्ट्रॉनिक कंपन्यांनी नादुरुस्त, निकामी आणि बंद पडलेली उत्पादने पुन्हा परत घेतली पाहिजेत.
- ७) ई-कचरा कलेक्शन सेंटरद्वारे ई-कचरा गोळा करून हा कचरा थेट प्रकल्पात जावे व त्यामुळे वहन या पद्धतीत सूसूत्रता येईल.
- ८) ई-कलेक्टर्स - प्रक्रिया करणाऱ्या कंपन्यांकडे फोन करताच घरोघरी येऊन ई-कचरा गोळा करणारे कलेक्टर्स महानगरात हवेत.
- ९) नो ँण्ट्री - बेकायदेशीररित्या आणि छुप्या मार्गाने येणाऱ्या परदेशातील ई-कचऱ्याला देशात बंदी हवी.
- १०) औद्योगिकी कचरा हा बाहेर टाकण्या अगोदर त्यावर प्रक्रिया केली जावी. त्याकरिता प्रदूषण मंडळाकडून प्रशस्तिपत्रक द्यावे. कचरा ह्या समस्यावर जर सर्व देशांनी मिळून काही उपाय योजना करायचे असेल तर त्यासाठी चार R चा म्हणजे पुनर्वापर (Reuse), पुनर्निर्मिती (Recycle), कमी वापरा (Reduce), पुनर्विचार (Rethink) या तत्वाचा वापर करावा लागेल.

०३०३०३



## ध्येयवेडा माणूस ... अधिक कदम

अनुष्का अ. सुर्डी (द्वितीय वर्ष वाणिज्य)



या भूतलावरील प्रत्येक व्यक्तीची सुखी आणि समृद्ध आयुष्याची संकल्पना वेगळी असली तरीही प्रशस्त आणि सुंदर घर, सकाळी ९ ते संध्याकाळी ५ पर्यंत आरामदायक नोकरी, मिळणारे चांगले उत्पन्न, एक सुंदर पती / पत्नी अशा काही गोष्टी समान असतात. परंतु काही लोक सुखी आयुष्याची व्याख्या थोड्या वेगळ्या पद्धतीने करतात. एकदाच मिळणारे अनमोल असे आयुष्य ऐहिक सुखाचा उपभोग घेत फक्त स्वतःसाठीच जगणे काहींना पटत नाही. आपल्या सामाजिक बांधिलकीचा विचार करून समाजाप्रती असलेली आपली कर्तव्ये पार पाडणे आणि एका साध्याशाच घरात, दोन वेगळे घास मानसिक समाधानाने खाणे म्हणजेच सुखी व समृद्ध जीवन अशी कल्पना असणारा तरुण आजच्या कलियुगात विरळाच !! पण सर्व मराठी जनांना अभिमान वाटावा असे एक तडफदार मराठी नाव म्हणजे 'अधिक कदम'.

पुणे विद्यापीठातून राज्यशास्त्र विषयाची पदवी घेतलेल्या अधिक कदम यांनी आपली सहकारी भारती यांच्या समवेत १९९८ साली काश्मीर दौरा केला तो 'युनिसेफ' च्या एका पाहणीच्या निमित्ताने. काश्मीरमधील अतिशय संवेदनशील अशा 'कुपवारा' जिल्ह्यात आपले काम करत असताना त्यांना आढळली दहशतवादी हल्ल्यांमध्ये बेघर आणि बेवारस झालेली २२,००० पेक्षा जास्त मुले आणि त्यांच्या मन हेलावून टाकणाऱ्या दुःखभऱ्या कथा. त्यातही मुलींची परिस्थिती अधिकच भीषण होती. त्या मानसिक आणि शारीरिक अत्याचाराच्या बळी ठरल्या होत्या. अशा अनाथ मुलींसाठी काम करण्याचा निर्णय अधिक कदम यांनी घेतला आणि त्यांच्या आयुष्याला कलाटणी मिळाली.

वडिलांच्या विरोधाला न जुमानता त्यांनी काश्मीरमध्ये आपल्या Borderless World Foundation या स्वयंसेवी संस्थेची स्थापना केली. तेथे सुरू केलेल्या अनाथाश्रमांना ते 'आनंदघर' असे संबोधतात. काश्मीरमध्ये मुस्लिम मुलींसाठी 'बसेरा तबस्सुम' आणि जम्मूमध्ये हिंदू मुलींसाठी 'फा' अशी ४ आनंदघरे अधिक कदम यांनी सुरू केली आहेत. २ मुलींपासून सुरू झालले हे काम आज १४० पेक्षा जास्त गरजू मुलींसाठी



अव्याहतपणे सुरू आहे.

अधिक कदम यांचा हेतू चांगला असला तरी परिस्थिती कठीण होती. अनेक संकटांचा धीराने सामना करत ते उभे राहिले. यात दहशतवादी आणि security forces या दोन्ही प्रबळ शक्तींशी त्यांनी दोन हात केले. आपल्या १७ वर्षांच्या कारकिर्दीत एक-दोन वेळा नाही तर तब्बल अठरा वेळा दहशतवाद्यांना तोंड दिले. स्थानिक लोकांचा पाठिंबा आणि मध्यस्थीमुळे ते बचावले.

स्वयंसेवी संस्थेला Borderless World Foundation असे नाव कसे सुचले याची संवेदनशील मनांना चटका लावणारी गोष्ट त्यांनी सांगितली. कुपवारा जिल्ह्यात किशनगंगा नदीच्या किनारी एक गाव आहे 'तिथवल' आणि नदीच्या दुसऱ्या किनारी मुजफ्फराबाद, पाकिस्तान मधील गाव आहे 'चिलियन'. १९४७ च्या विभाजनापूर्वी ते एक अखंड गाव होते. परंतु नदी आणि सीमा यांमुळे त्याचे आता दोन तुकडे झाले आहेत. चिलियन गावातील एक लग्न आणि एक अंतिम संस्कार यासाठी दोन्ही गावातील लोक उपस्थित होते. याचे 'अधिक' आणि 'भारती' साक्षीदार होते. सीमा फक्त देशांना विभाजित करते. लोकांच्या मनातील प्रेम भावनेला नाही. यामधून Borderless World Foundation उदयाला आले.

'ध्येयाने झपाटलेली माणसेच इतिहास घडवतात' या उक्तीचा अर्थ अधिक कदम यांनी पुरेपूर सार्थ केला आहे. हरवलेली माणुसकी शोधण्याच्या या अतिशय पवित्र कामांमध्ये अधिक कदम यांना आपल्यासारख्या हजारो तरुणांचे सहकार्य लाभो हीच सदिच्छा !! त्यांचे विचार त्यांच्याच शब्दांत.

ना तुम अलग हो ना मैं....

ना मेरा खुदा अलग ना तेरा खुदा अलग...

ना हम कुछ सीख सकते हैं, ना तुम कुछ बता सकते हो

सब कुछ पहले से ही मौजूद है ।



ॐॐॐ



## न अनुभवलेले महाराज...

ऋषिकेश वडके (MCA-I (Science))



शिवाजी महाराज ! शब्द ऐकले तरी अंगावर काटा येतो आणि डोळ्यासमोर उभे राहते ते त्यांचे शौर्य, त्यांनी केलेला खानाचा वध, त्यांनी शाहिस्तेखानाची तोडलेली ती बोटे !

पण काय हो, महाराज फक्त युद्ध, शौर्य यापुरतेच सीमित होते का ? आपण आतापर्यंत तरी एवढेच शिकलोय पण त्यांनाही मन असेलच की, त्यांच्या मनाचा का नाही कोणी विचार केला ? त्यांचे शौर्य समाजापुढे मांडून त्यांना आपण फक्त मोठे करत गेलो. पण खरंच, महाराज मनानेही फार मोठे होते.

आठवा तो क्षण जेव्हा अफजलखान चालून आला होता... राजे गडावर होते. अफजलखानाने शिवाजी बाहेर यावा म्हणून भवानीवर वार केले, महाराजांची साथ गडाखालच्या गावच्या सर्व पाटलांनीही सोडून दिली, बाहेर मुसळधार पाऊस चालू होता आणि या सगळ्या संकटात भरीस भर म्हणून महाराजांची जिवाभावाची बायको "सईबाई" अंथरुणाला खिळून होती. महाराजांना त्यांच्याकडे बघायलाही उसत नव्हती. विचार करा त्या बाईला काय वाटलं असेल ? तिला नसेल का वाटत आपल्याबरोबर आपल्या नवऱ्याने दोन-चार क्षण घालवावेत ?

विचार करा महाराजांचं मन काय म्हणतं असेल ? त्यांना नसेल वाटत बायकोजवळ बसून रहावं ? त्यातच सईबाई महाराजांना आणि स्वराज्याला सोडून गेल्या. किती ही संकटं ? महाराजांच्या जागी दुसरे कोणी असतं तर खचून गेलं असतं, डगमगलं असतं... आपली बायको ह्या स्वराज्यापायी गेली... नको हे स्वराज्य असं म्हणाला असता, पण राजांना त्या कठीण प्रसंगातही कसलं पडलं होतं तर प्रजेचं... माझी प्रजा हाल सोसतेय लवकर काहीतरी करायला हवं ! सईबाईंचा दहा दिवसांचा विधीही पूर्ण झाला नव्हता आणि महाराज राजगडावरून प्रतापगडाकडे जायला निघाले ! त्यांना खानाला संपवायचं होतं. अरे काय म्हणावं अशा या राजाला ह्याला देव का म्हणू नये ?

महाराजांनी माणसं आपलीशी केली ती ह्याच प्रकारे... महाराजांनी त्यांचं राजेपण कधी जनमानसात दाखवलंच नाही. आता तो तानाजी मालुसरे जो पोटच्या पोराची लग्नाची पत्रिका घेऊन आला आणि जाताना कोंढाण्याचा विडा घेऊन गेला ! का त्याला तसं वाटलं असेल ? त्याला त्याचा जीव प्रिय नव्हता ? होता ना, नसणार ? पण त्याच्या जीवावर कधीच राजांनी अधिराज्य गाजवलं होतं. कारण महाराज त्याचे राजे कमी पण मित्र नक्कीच जास्त होते ! तो शिवाही तसाच. महाराजांनी सुखरूप विशाळगडावर पोहचवं म्हणून

स्वतः महाराज बनून सिद्धी जौहारच्या तोंडाशी गेला. आता राक्षसच तो, म्हणाला कसा, "शिवा आमच्या फौजेस सामील हो, तुला उच्चपद, मानसन्मान देतो !"

पण शिवा राज्याचा निष्ठावान सैनिकांना म्हणाला, "मरण आलं तरी बेहतर पण कुणापुढं झुकणार नाही, राजांची शिकवणच हाय तशी ! आणि त्याचक्षणी शिवाच्या पोटात तलवार खुपसली गेली. शिवा तसाच उभ्या उभ्या पडला आणि जाता जाता म्हणाला, "शेवटचा मुजरा राज" कुठनं आली शिवामध्ये एवढी हिंमत की राजांच्या एका शब्दावर तो मरणाच्या दाढेत जायला तयार झाला ? ह्यालाच म्हणतात महाराज आणि मित्र यांमधला फरक, दुसरा कुणी राजा असता, तर कदाचित एवढं होऊ पण शकलं नसतं, त्याच्या कुठल्याच सैनिकांकडून ! हे झालं कारण महाराजांनी राजा आणि मित्र ह्यातला फरक कधी प्रजेला जाणवूच दिला नाही !

ह्याला म्हणतात खरी मैत्री आणि प्रजेविषयी खरं प्रेम ! राजे शूरवीर तर होतेच पण राजांचं असं एक वेगळं रूपही होते ! अशीच मैत्री तुम्हां-आम्हांच्या आयुष्यातही वृद्धिंगत व्हावी हीच इच्छा !

७३७३७३

### वंशाची पणती

माझी मुलगी माझी सखी, माझा गर्व माझे सर्वस्व !  
मुलगा नाही म्हणून जराही दुःख नाही  
मुलगीच आहे म्हणून थोडी ही खंत नाही !  
वंशाच्या मोहापायी, मुलाच्या लोभापायी लोक अनेक नवस करतात !  
मुलीचा मात्र जगात येण्याआधी पोटात तिचा वध करतात !  
कसे बदलावे अशा वेड्या लोकांना कशा बदलाव्या त्यांच्या या अंध भावना !  
मुलगा आहे हिचा तर, मुलगी शिंपल्यातील मोती !  
मुलगा वंशाचा दिवा तर, मुलगी वंशाची पणती,  
मुलगा ठेवितो अस्तित्व सक वंशाचे  
मुलगी राखते अस्तित्व दोन कुळांचे !  
स्त्रीने स्त्री होण्याचा अभिमान बाळगावा !  
स्त्रीत्वाला नष्ट करून स्त्रीचा अपमान न करावा !

- राधिका महाडिक (S.Y.B.A.)



## सहल - एक आठवणींची शिदोरी... !

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सहल म्हणजे वर्षभरासाठी उपयुक्त असणारी मनाची शक्ती !

सहल म्हणजे आयुष्यातील आठवणींच्या शिदोरीतील एक महत्वाचा कप्पा !

पहिलीतील अप्पू घर मध्ये गेलेल्या सहलीपासून ते आठवीत अलिबागला गेलेल्या सहलीपर्यंत साऱ्या सहली आठवतात. पण मला सहलीचा खरा अर्थ समजला तो यंदाच्या महाबळेश्वरच्या सहलीत. ज्या राहत्या सहलीचे स्वप्न मनात कित्येक दिवसांपासून निजलेले होते ते या सहलीचे नाव ऐकताच अगदी आळोखे-पिळोखे देऊन जागे झाले.

वर्ष २०१४ मधला १२ जानेवारी हा दिवस आनंदाची बरसात करणारा ठरला. कारण हाच होता सहलीचा दिवस. परदेशात जातानाही कुणी इतकी तयारी करणार नाही इतक्या तयारीनिशी आम्ही सज्ज होतो. पुणे सोडले, बसने आम्ही सातारा रोडला लागलो. थंडीची झुळूक जाणवू लागली. चहूबाजूंनी उसाची शेतीच शेती होती. नंतर थोड्या वेळाने एका हॉटेलमध्ये थांबलो. आम्हाला कमी वेळत खूप काही पाहायचे होते. त्यामुळे चटकन आवरून आम्ही हॉटेलबाहेर पडलो.

सर्वप्रथम आम्ही पाचगणी येथील 'श्री'चे दर्शन घेतले. आणि टेबल पॉईंट पाहण्यास रवाना झालो. काही गोष्टी आपण म्हणतो की 'त्या कळत-नळत घडतात' अशीच एक गोष्ट, टेबल पॉईंट पाहता पाहता एका काकांनी सर्व माहिती सांगितली आणि नंतर म्हटले सर आणि मॅडम तुम्ही आईस्क्रीमची चव चाखून बघा. आम्ही सर्वजण आईस्क्रीम खाणार, त्याचवेळी माकडांची जत्रा. माकडेही खूप गमतीची. नजर चुकवून पटकन उडी मारून हातातील मॅडमची आईस्क्रीम ओढून खाण्यास सुरुवात. चक्क आश्चर्यचकित करणारी ही माकडे. गंमती-जमतीने रमत-गमत चालता-चालता हातातली कोणतीही गोष्ट ओढून घेत होते. बिचाऱ्या मॅडमनी आईस्क्रीम खायच्या अगोदरच माकडानेच चव सांगून दिली.

नंतर आम्ही महाबळेश्वरला रवाना झालो. गाणे-गप्पा तर रमत-गमत चालल्याच होत्या. नंतर आम्ही महाबळेश्वर येथील प्रसिद्ध मंदिराचे दर्शन घेतले. मोकळ्या जागी, झाडांच्या सावलीत, गार हवेच्या ठिकाणी भोजनाचा आस्वाद घेतला. सगळ्यांनी आणलेल्या पदार्थांची देवाण-घेवाण करून भोजनाचा आस्वाद घेतला आणि नेहमीप्रमाणे सरांचे आदेश ऐकावे लागत होते. "चला, आवरा, वेळ कमी आहे" !

महाबळेश्वर म्हटले की सर्वांच्या तोंडाला पाणी आणून देणारे फळ स्ट्रॉबेरी. स्ट्रॉबेरीच्या बागाच-बागा. मग किती स्ट्रॉबेरी खाव्या, काही सुचेना ! मग आम्ही सर्वांनी स्ट्रॉबेरी खाल्ली. नंतर उरलेले पॉईंट पाहिले. नंतर आम्ही 'Mapro' च्या कारखान्यात गेलो. तेथून काही जणांनी खरेदी केली. मग सर्व प्रवास संपला. परतीच्या वाटेला लागलो तर वाटले की आज मुक्काम करावा. अजून मज्जा करावी पण वेळेअभावी ते टाळावे लागले. मग संध्याकाळ झाली. सगळीकडे अंधार-अंधार. पुण्यात आलो हेच कळले नाही.

पण सहलीत सर्वात महत्वाचं म्हणजे मित्र-मैत्रिणींची काळजी कशी घ्यावी आणि 'एकटेपणाचा' विसर नाहीसा होणे या गोष्टींची जाणीव नक्कीच झाली. सहल ही एक अविस्मरणीयच होती.

म्हणून पुन्हा पुन्हा म्हाणावेसे वाटते,

"नव्हे हा नुसता प्रवास

ही तर अनुभवांची शाळा, कॉलेज,

हे सारं अनुभवायला

फक्त आपला सकारात्मक दृष्टिकोन हवा... !"

ॐॐॐ

### माफ

क्षण एक वेगळा जरा जगून पहा

रस्ता तोच तोच जरा चुकवून पहा

फुटकळ विनोदावर हसून पहा

उनाड कट्ट्यावर बसून पहा

आयुष्याच्या वाटेला नवा डबा जोडून

फकिरीची चव जरा चाखून पहा

टोपी रुमाल छत्री लांब हवेत फेकून

सोनसळी उन्हात जरा न्हाऊन पहा

लख्ख गोऱ्या रात्री उगीच जागून

आकाशीच्या चंद्रालाच खिजवून पहा

नियतीशी नवा खेळ मांडून पहा

उगीचच सर्रादाशी भांडून पहा

रस्ता तोच तोच जरा चुकवुनी

स्वतःलाही कधी माफ करून पहा...

- शेषा ज. जोशी (बारावी कलाशाखा)



## मुकी माझी भाषा

पल्लवी सूर्यवंशी (१२वी कला)



कशास भाषा व्यर्थ

बोलता एकविसाव्या शतकाची ।

एक विसावा ही न दिसावा

व्यथा आयुष्याची ॥

२१ वे शतक आले. आपला देश स्वतंत्र होऊन ६५ वर्षे झाली तरीही आपल्या देशात सामाजिक विषमता पाय रोवून उभी आहे. या सर्वांना कारणीभूत आहे आजची समाजव्यवस्था.

आपणच म्हणजेच माणसानेच लिंगभेद करण्यास सुरुवात केली आहे. त्यामुळे विविध ठिकाणी स्त्रियांना, मुलींना छळाला सामोरे जावे लागते. त्यात स्त्रीभ्रूणहत्या, हुंडाबळी, सामाजिक छळ, शोषण, कमीपणाची जाणीव या अशा अनेक कारणास्तव आज परिणामी समाजातील मुलींचे प्रमाणे घटत आहे.

वंशाचा दिवा, संपत्तीचा वारस, घराचा आधार, म्हातारपणाची काठी यासाठी मुलगाच हवा व त्यासाठी मुलगी नाकारण्याची मानसिकता असलेला समाज आजही आहे. मुलगी म्हणजे सर्वार्थाने भार, तिच्या शिक्षणासाठी, विशेष करून लग्नासाठी लागणास खर्च करण्याची ऐपत नाही म्हणून मुलगी नकोच. या मानसिकतेतून या कळ्यांना गर्भातच खुडले जातेय. त्यातून आधुनिक तंत्रज्ञानाचा गैरवापर करीत मुलींचा जन्मच नाकारला जातो आणि मुलींचा जन्म नाकारणारे हे कोण ? त्यांची हीच समजूत असते की मुलगी म्हणजे फक्त चूल आणि मूल सांभाळणारी. 'रांधा वाढा नि उष्टी काढा' हेच तिचे काम असते असे त्यांना वाटते. तर दुसरीकडे मुलाला पैसा पुरवून, वशिला लावून शिकवले जाते, तेव्हा मुलगा-मुलगी असा भेद न बाळगता जन्मलेल्या बाळाला चांगला नागरिक बनविणे हा विचार समाजात रुजला, तर स्त्रीभ्रूणहत्येसारखा गंभीर प्रश्न सोडवता येऊ शकतो.

प्रत्येकाला माया, वात्सल्य व ममता करणारी आई हवी आहे. अर्धांगिनी म्हणून पत्नी, तर मनगट राखीच्या बंधाने सजवणारी बहीण हवी आहे. मग लेक का नको ?

एके दिवशी मुलीच म्हणतील, "तुम्ही आमच्या पोटी जन्म घेता मग आमचा जन्म का नाकारता..."

मुली मोठ्या झाल्या की त्यांना हुंड्याच्या अनिष्ट परंपरेत अडकवले जाते. तेथूनही तिला छळ सहन करावा लागतो. हुंड्यासाठी आज असंख्य बळी गेलेले आहेत. हाव आणि मानसिकतेतून स्त्रीभ्रूणहत्या होते. कुटुंबातील संबंध निकोप आणि आनंदी असण्याची इच्छा असेल, तर मुलामुलींची लग्ने याकडे आर्थिक फायद्याची संधी

या दृष्टिकोनातून पाहिले जाऊ नये. पंजाबातील शेतकरी तरुण बायकोकडून ट्रॅक्टरची अपेक्षा धरतो. राजस्थानातील तरुणाला स्वतःचे दुकान उघडायचे असते तो ते भांडवल बायकोच्या नातलगांकडून वसूल करतो. जेवढे मोठे मुलाचे पद तेवढा मोठा हुंडा द्यावा लागतो. अशी प्रथा आहे. यानुसार इंजिनिअरचा हुंड्याचा भाव एक लाख तर डॉक्टरचा दहा लाख अशा कुप्रथा, वाईट चालीरीती यांच्या विळख्यात आजही माणूस गुरफटून बसला आहे. म्हणूनच स्त्रीभ्रूणहत्येला पाठिंबा मिळत आहे.

दर एक हजारी मुलांमागे मुलींचे प्रमाण अतिशय कमी आहे. २००१ या वर्षात देशातील एक हजार मुलांच्या मागे मुलींची संख्या ९२७ तर २०११ साली ती ९१४ झाली. तर २००१ या वर्षात महाराष्ट्रात मुलींचे प्रमाण ९१३ होते. तर २०११ साली ते ८८३ झाले.

‘एक-एक कळी जपूया...लेक वाचवूया ।’

स्त्रीच्या आयुष्यात आई होणे ही अतिशय आनंदाची गोष्ट असते. काही वेळा नैसर्गिक दोषामुळे हे शक्य होत नाही त्यामुळे तिच्या आयुष्याला धोका असतो. तर कधी सासरच्या मंडळींचा नांदविण्यास नकार असतो. एखाद्या ठिकाणी मुलाचा आणि आईचा वाद झाला तर वडील मध्यस्थी म्हणून म्हणतात, “दोघं, मिळून मारू मम्मीला, यामुळे स्त्रीला म्हणजे आईला कमीपणाची जाणीव होते. ती एकटी पडते. अंततः स्त्री या त्रासाला कंटाळते.

पुरुष महत्त्वाचा आणि बाई दुय्यम हा समज आपल्या समाजात गेल्या काही वर्षांपासून आहे. आत्मनिर्भर होण्यासाठी केवळ पैसाच महत्त्वाचा नसतो, तर विचारही तेवढेच महत्त्वाचे ठरतात. प्रत्येक पुरुषात स्त्रीत्व असते, तर प्रत्येक स्त्रीमध्ये पुरुषत्व असते. असे असूनही आपण स्त्री-पुरुष असा भेदभाव का करतो ? पुरुष नेहमी स्त्रियांना दुय्यम लेखतात, पण स्त्री ही विविध दृष्टिकोनातून पुरुषांमध्ये श्रेष्ठ आहे. हा विचार आपल्याला मान्य करायला हवा. काळ बदलत आहे. त्याप्रमाणे शहरातील स्त्रियांचे जगणेही बदलत आहे. सुंदर दिसण्याच्या भुलभुलैयात स्त्रिया अडकत आहे. या टप्प्यावर त्यांनी एकदा तरी विचार करावा की आपल्याला स्वातंत्र्य कशामुळे मिळाले. त्यांनी जीवनाचा खरा अर्थ शोधावा.

अवघे झाले जीर्ण-शीर्ण

सुन्न झाल्या दिशा ।

खूप सोसले आता झाली

मुकी माझी भाषा ॥



## आईची महती

पुनम शिवाजी पाडवी (एम.ए. मराठी भाग १)



“आई” म्हणजे माता, जननी व तसेच मातृप्रेमाचे वात्सल्य होय. “आई” म्हणजे प्रेम, वात्सल्याचे धर्म, धर्माचे धर्म होय. “आई” म्हणजे माय, ममता व तसेच आई म्हणजे आदर्श, प्रेरणा, आधार, विसावा, विचारांची देवाण-घेवाण करणारी व सर्व कुटुंबाला प्रेमाने जपणारी, सांभाळणारी आई होय. आई ही सर्व लेकरांसाठी देवाहूनही देव असते. आई ही जगण्याचे सत्त्व व सत्त्वाचे अस्तित्व व जगण्याचे तत्त्व असते. “आई” ही सेवा, स्नेह, उत्साह, सद्भावना, कर्तव्यांची परिपूर्णता करणारी एक प्रतिभावंत मूर्ती आहे.

“आई” विषयी आपण कितीही लिहिले तरी आईसाठी पुरतील तेवढे शब्द कोठेही नाहीत. आपण आईबद्दल कितीही लिहिले तरी आईचे महात्म्य, थोरवी हे अगदी थोडेच. पण आई विषयी लिहिण्याइतके माझे व्यक्तिमत्त्व मोठे नाही. मातेचे प्रेम अतुलनीय आहे. मातेचे वात्सल्याचे स्वरूप सर्वत्र सारखेच असते. आपण आईचे उपकार कधीही फेडू शकत नाही. आईची कृपासावली एवढी विशाल असते की, शंभर वेळा जन्म घेऊनही तिचे उपकार फिटणार नाहीत, आईचे उपकार हे अनंत आहेत व आपण जगातील सर्व गोष्टी पैशाने विकत घेऊन शकतो, पण आईचे प्रेम ही अशी गोष्ट आहे की, जी आपल्याला विकत मिळत नाही. आईची माया, प्रेम मोजण्यासाठी कोणतेही प्रमाण नाही. आईचे प्रेम हे अमर्याद असते.

“गंधाशिवाय फुलाला फूलपण येत नाही तसेच वात्सल्याशिवाय आईला मातृपण येत नाही. तिन्ही जगतावरील आईचे वात्सल्य चिरकाल टिकून राहावे. इतरांनी कितीही माया केलेली असली तरी ते फिकेच ठरतात. पण आईचे तसे नसते तिची माया कधीही आटत नाही आणि ती त्याच्या परतफेडीची कधी अपेक्षाही करत नाही. तिचे मूल कसेही असले तरी तिच्यासाठी ती जगातील सुंदर गोष्ट व देवाने दिलेली छान भेट असते. जगामध्ये आईचेच सर्वांनीच कितीही कौतुक केले तरी, तिची महती सर्वांनीच गायलेली असली तरी तिचे ऋण जन्मोजन्मी न फिटणारे असे आहे.

“आई” याशिवाय लेकरांचे जीवन व्यर्थ व आईमुळे जीवनाला एक अर्थ आहे. आपल्या आईला नेहमी असे वाटते की, आपले मूलबाळ नेहमी आनंदी राहावे, त्याला कोणत्याही गोष्टीची, वस्तूची कमी पडू नये यासाठी ती नेहमी प्रयत्नशील असते. आपल्या मुलांची भूक, झोप, चांगल्या-वाईट सवयी, मनातील विचार, भावना याविषयी तिला सर्व माहिती असते. आई ही आपल्याला प्रत्येक गोष्ट हितासाठीच सांगत असते. “आई” म्हणजे थंडीत

शाल व आई म्हणजे उन्हामधील सावली अंगणातील पवित्र तुळस व पणतीची वात होय व तसेच जीवन हे काम तर आई म्हणजे विश्रांती आहे, आई म्हणजे वेदनेनंतरची सर्वात पहिली आरोग्यी होय. आई ही एक सेवाभावी मूर्ती आहे. आई आपल्या लेकरांसाठी किती कष्ट सोसते. आई स्वतःची काळजी न घेता लेकरांची जास्त काळजी घेत असते. आई आजारी असूनसुद्धा लेकरांसाठी लवकर उठून पोळी-भाजी, खाऊचा डबा करते. ते उपाशी शाळा-कॉलेजात जाऊ नये म्हणून त्यांना स्वयंपाक करून खायला देते.

“आई”ने आपल्यासाठी केलेले कष्ट मुलांनी कधीही विसरू नयेत. आई-वडिलांनी आपल्यासाठी जेवढे केले त्यापेक्षाही अधिक-जास्त आपण लेकरे आई-वडिलांसाठी काय करू शकतो यांचा विचार आपण केला पाहिजे व त्यांचा आदर केला पाहिजे. त्यामुळे सर्वांना आई ही महान-थोर गुरुंप्रमाणे असते.

“एक महान दैवत.”

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### आयुष्य

आयुष्याचे स्वप्न पाहताना  
वास्तवाला विसरायचं नसतं  
गुलाबाला स्पर्श करताना  
काट्यांना विसरायचं नसतं  
प्रीतीच्या विश्वात वावरताना  
जपून पाउल टाकायचं असतं  
काळजाला झटका बसल्यावर  
कधी रुडायचं नसतं.

संकटात वादळात  
धीर सोडून चालायचं असतं  
शत्रूशी झुजत असताना  
त्यास कमजोर लेखायचं नसतं.  
उद्ध्वस्त झालेलं विश्व आपलं,  
शून्यातून उभं करायचं असतं  
आपल्या वेदनांचं मीठ मात्र  
दुसऱ्याच्या जखमांवर चोळायचं नसतं.

खाल्ल्या मिठाला व जिवाभावाच्या मित्राला  
बेईमान व्हायचं नसतं  
आईच्या दुधाचे व पित्याच्या घामाचे  
उतराई झाल्याशिवाय  
मरणाचं नावसुद्धा घ्यायचं नसतं  
मरणाचं नावसुद्धा घ्यायचं नसतं.

- सचिन गायकवाड



## स्वदेशी शस्त्रास्त्रे - काळाची गरज !!

निलेश किसवे, गजानन वाळके (तृ.व. प्राणिशास्त्र)



आज भारत जगातील सर्वात जास्त शस्त्रास्त्र आयात करणारा देश बनला आहे. पुरेशी माहिती नसलेल्या वाचकांना वाटत असेल की ही तर चांगली गोष्ट आहे की भारत प्रगती करतोय. पण नाही मित्रांनो, ही बातमी चांगली आहे, पण तितकी नाही जितकी तुम्ही समजत आहात कारण महत्वाची गोष्ट म्हणजे ज्या ठिकाणी चीन, अमेरिका, रशिया, जपान सारखे प्रगत देश आपली सामरिक शक्ति वाढविण्यासाठी स्वदेशी शस्त्रनिर्मितीवर भर देत आहेत. त्याच ठिकाणी भारतासारख्या अफाट ऊर्जा असणाऱ्या देशाला स्वतःच्या संरक्षणासाठी परदेशी तंत्रज्ञनावर अवलंबून रहावे लागत आहे. ह्याला तुम्ही प्रगती म्हणाल का ? हा मुद्दा विचार करण्याजोगा आहे.

एकेकाळी भारत आर्थिक आणि सामरिकदृष्ट्या जगातील सर्वात शक्तिशाली राष्ट्र होते. त्यावेळी भारतावर कोणाचे राज्य होते याबद्दल बोलणे हा आपला विषय नाही. पण यावरून एकच लक्षात येते की तेच ऐतिहासिक चित्र जगासमोर आणण्यासाठी ज्या काही प्राथमिक गोष्टींची गरज आहे त्या पूर्वीपासूनच भारतात आहेत, फक्त सामर्थ्य वापरण्याची गरज आहे. आज भारतीय संरक्षण खात्याकडे काही मोजकी शस्त्रास्त्रे सोडली तर इतर सगळी शस्त्रास्त्रे अमेरिका, फ्रान्स व रशिया या देशांकडून आयात केलेली आहेत. या विषयावर लिहिताना एक सांगावेसे वाटते की आम्ही पुण्यात राहणारे होस्टेलाइट विद्यार्थी आहोत. आम्ही आमच्या दैनंदिन जेवणासाठी मेसला गेलो तर रु. २०००/- महिना इतका खर्च एकाला येतो. पण माझ्या एका मित्राने मला सांगितले की त्याला रु. १०००/- महिना इतकाच खर्च येतो. आम्ही त्याला मोठ्या उत्सुकतेनं विचारलं की “किती बचत होते रे तुझ्याकडे पैशांची” तर तो उत्तरला की महिन्याच्या बाकीच्या खर्चांना उरतील इतके तरी पैसे बचत होतातच. परत त्याला विचारले इतका कमी खर्च कसा काय येतो. तर तो म्हणाला “मी माझं सगळं जेवण स्वतःच तयार करतो.” आम्हांला असं वाटतं की ही साधीशी गोष्ट जर राष्ट्रीय पातळीवर एक रणनीती म्हणून अमलात आणली तर आपला देश खूप मोठ्या नुकसानाला बळी पडणार नाही.

आज भारतीय संरक्षण खात्याचा वार्षिक खर्च ३७.४६ billion अमेरिकन डॉलर इतका आहे आणि आपला सगळ्यात मोठा प्रतिस्पर्धी चीनचा खर्च तिप्पट म्हणजे 115.70 billion अमेरिकन

डॉलर इतका आहे. संरक्षणाचे बजेट वाढवावे की नाही ह्या सगळ्या गोष्टी तेव्हाच्या आहेत, जेव्हा आपल्याकडे अधिक पैसे असतील. या ठिकाणी हा वाद उभा करून काही उपयोग नाही की IPL सारख्या करमणुकीच्या गोष्टींवर खर्च कमी करून संरक्षणाचा खर्च वाढवावा कारण मुद्दा हा नाही की स्वदेशी शस्त्र फक्त यासाठी बनवायचे कारण की परदेशी शस्त्रापेक्षा ती स्वस्त असतात. याउपर कुठे तरी एक स्वाभिमान दुखावला जात आहे की ज्या काळात इतर देश आदिवासी अवस्थेत जगत होते त्यावेळी भारतात मात्र ‘तक्षशिला’ सारखी विद्यापीठे होती. त्यात भारतीयच नव्हे तर परकीय विद्यार्थीसुद्धा शिक्षण घेत होते. ज्या काळात जगातील काही देशांमध्ये एक प्रबळ राजकीय व्यवस्थामुद्धा उदयास आली नव्हती, त्या काळात भारतात शून्य, संख्याशास्त्र, यासारखे महत्वाचे शोध लागले होते आणि ‘चरक संहिता’ यासारखे महान ग्रंथ लिहिण्यात आले होते.

अमेरिकेने महासंगणक बनवला. त्या पाठोपाठ भारतानेही महासंगणक तयार केला. मग जर अमेरिका स्वतःचे शस्त्र स्वतःतयार करून इतर देशांनासुद्धा शस्त्र विकतो, तर भारत का मागे आहे ? आज भारत जगातील सर्वात जास्त शस्त्रास्त्र आयात करणारा देश का बनला आहे ? या सगळ्यावरून एकच निष्कर्ष निघतो की कुठे तरी भारतीय व्यवस्था कमकुवत उरत आहे. जर ही व्यवस्थाच प्रबळ झाली तर ‘आयात’ या शब्दाच्या ऐवजी ‘निर्यात’ हा शब्द यायला वेळ लागणार नाही.

निर्यात फक्त शस्त्रास्त्रांची नव्हे तर मानवी जीवनाला आवश्यक असणाऱ्या प्रत्येक गोष्टींची. अन मग कधीच रुपयाची मान डॉलरपुढे वाकलेली दिसणार नाही व बासण्टच्या युद्धप्रमाणे देशाच्या कपाळावर हार पत्करण्याचा डाग लागणार नाही, ते पण फक्त शस्त्रास्त्रांच्या कमतरतेमुळे. हा लेख लिहिण्यामागचा उद्देश देशाला युद्धास प्रवृत्त करणे हा नव्हे कारण शक्ती ही अन्याय करण्यासाठी नसून अन्यायापासून स्वतःचा बचाव करण्यासाठी असते.

है तुझमे ताकत तो जताता क्यों नहीं ।

तेरे भीतर के शोलों को भड़काता क्यों नहीं ।

जिस समय ने तुझे कमजोर साबित किया है ।

उस समय को अपने पैरों तले तू झुकाता क्यों नहीं ।

०३०३०३



## समिती - एक कल्पवृक्ष

(विद्यार्थी साहाय्यक समिती)

(Student Welfare Association)



ग्रामीण भागातून पुण्यात उच्च शिक्षणासाठी आलेल्या गरीब, गरजू, होतकरू आणि हुशार विद्यार्थ्यांसाठी असलेलं हे कल्पवृक्षाचं झाड - अल्प दरात निवास आणि भोजनाची सुविधा पुरविण्याबरोबरच व्यक्तिमत्त्व विकासासाठी झटणारं हे समितीचं गुरुकुल. देणगीदार, हितचिंतक, माजी विद्यार्थी, निःस्वार्थी कार्यकर्ते आणि स्वावलंबी विद्यार्थी यांच्या आधारावर डोलणारा हा वटवृक्ष मुलगा-मुलगी समान मानून मुलांसाठी तीन व मुलींसाठी दोन वसतिगृह अशी समितीची सध्या पाच वसतिगृहे आहेत. चारशे मुली आणि साडेचारशे मुलं सध्या येथे घडताहेत. आतापर्यंत पाच हजारांहून अधिक मुलामुलींची जडणघडण समितीनं केली आहे.

शिक्षणतज्ज्ञ अच्युतराव आपटे यांनी आपल्या काही समविचारी सहकाऱ्यांना बरोबर घेऊन सुरू केलेल्या या कार्यात निर्मलाताई पुरंदरे, शांताताई मालेगावकर, माधव धारपुरे आदी कार्यकर्त्यांनी मोलाचं योगदान दिलं आहे. आजही हे कार्यकर्ते समितीच्या वाढीसाठी झटत आहेत. समितीतून बाहेर पडलेले अनेक विद्यार्थी प्रशासन, पोलीस, राजकारण, क्रीडा, उद्योग, वैद्यकीय पत्रकारिता क्षेत्रात मोठ्या पदांवर आहेत. सामाजिक क्षेत्रातही समितीच्या विद्यार्थ्यांनी आपला ठसा उमटविला आहे. आपल्याला जे रसायन समितीनं दिलं त्यातला काही भाग परत करू या, आपल्यावरील ऋणाचा काही भाग आपल्या पुढील पिढीला देऊया, या हेतूनं अनेक माजी विद्यार्थी समितीच्या सध्याच्या विद्यार्थ्यांना सहकार्य, मार्गदर्शन करीत आहेत. विद्यार्थ्यांना प्रत्येक गोष्टीचा लाभ व्हावा, त्यांचा सर्वांगीण

विकास व्हावा, त्यासाठी सर्व काम चालते. विद्यार्थ्यांना स्वावलंबी बनविण्यासाठी कमवा व शिका, चार तास काम योजना येथे राबविल्या जातात. पालकांशी नाळ तुटू नये यासाठी पाल्य-पालक योजनेतर्गत विद्यार्थ्यांना स्थानिक पालक दिले जातात. रोज सकाळी योगासने झाल्यानंतर दूध दिले जाते. आरोग्यासाठी समितीत स्वतःचं आरोग्य केंद्र असून त्यांतर्गत विद्यार्थ्यांची काळजी घेतली जाते.

समितीचं काम अधिक चांगल्या पद्धतीने व्हावं, यासाठी देणगीदार व हितचिंतकांना यात सहभागी करून घेतलं जातं. इथे शिकत नाही, तर घडत असलेल्या प्रत्येकजणांत अनेक वेगवेगळ्या प्रकारचं कौशल्य आहे.

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### पात्र

विस्तारलेले पात्र, अन् पसरलेले काढ, पांढरेफटक खडक,  
पाणी तिचे आटलेले  
त्यातील सका खळग्यात धुतो मी धुणे  
जीर्ण जुणे फाटलेले.  
रेतीवरील ती मजामस्ती  
अन् गोपाळांचा धिंगाणा  
काळाच्या ओघात गेले पडद्याआड  
कुठे विखुरले गोपाळ सांगा ना  
पात्रातील ते सागरगोटे, ओल्या रेतीचे रेखीव महाल,  
लहानग्यांच्या विरंगुळ्यास तिने केले होते बहाल.  
कुणी दुष्टाने हडपले सारे  
अन् नवपिढीचे झालेत हाल.  
काठावरची निर्मळ वस्ती,  
गुरे बापुडी हंबरती  
ओटीत घातलेल्या चाऱ्याचा  
घास सुखाने खाती.  
तगमग होती मम जीवाची  
ती लयास गेली गुरे अन् लयास गेली वस्ती  
मी देखील उच्चभ्रू जाहलो  
त्याभागील ते वस्त्र जुने फाटलेले  
नाही येणार येणार वसंतातली पालवी पुन्हा  
कारण पात्र तिचे आटलेले.

- ऋषीकेश पोळ (T.Y.B.Sc. (Microbiology))

### BCS

BCS आहे दाताला चिकटणारा रवा  
कारण त्यात आहे Core Java  
Programming शी आहे सगळ्यांचं वाकडं  
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पण Result लागल्यावर कळतं Backlog नक्की  
C.S. चे paper असले की सगळ्यांना वाजते थंडी  
कारण कळतं result वर आहेत मोठमोठी अंडी  
अशी आहे BCS वाल्यांची तऱ्हा.  
त्यामुळे BCS पासून जरा लांबच राहा...

- मंजली सूर्यवंशी (S.Y.BCS)



## कोकणचे सौंदर्य - रत्ननगरी

स्नेहा भाटकर (MCA Sci I)



जगाच्या पाठीवर कुठेही गेलात तरी खरा स्वर्ग म्हणजे कोकणच! सगळ्यांना भावणारं असं आमचं कोकण. नारळी-पोफळीच्या बागा, समुद्रकिनारा, आंबा, फणस, करवंद ही कोकणाची खरी ओळख.

अशा या कोकणातलं माझं शहर म्हणजे रत्नागिरी. म्हणजेच आमची रत्ननगरी ! जणू रत्नांचीच नगरी.. या रत्ननगरीला खूप सुंदर असा ऐतिहासिक वारसा लाभला आहे. 'रत्नदुर्ग किल्ला' जो शिवाजी महाराजांनी काबीज केला होता त्यालाच 'भगवती किल्ला' असेही म्हणतात. थिबाराजाचा राजवाडा तर लक्षणीय आहे. सावरकरांना तुरुंगवास भोगावा लागला ती कोठडी, सावरकरांच्या विचारांनी पावन झालेले असे पतितपावन मंदिर, टिळकांचे जन्मस्थान, कवी केशवसुतांचं जन्मस्थान मालगुंड, अशा अनेक गोष्टींनी हे शहर ऐतिहासिक बनले आहे.

कोकणातील प्रमुख व्यवसाय म्हणजे भातशेती. इथली घरही टुमदार व प्रशस्त. प्रत्येकाचे घर व घराशेजारी प्रत्येकाचे नारळी-पोफळीचे आगर. स्वच्छ व मुबलक पाणी, सुंदर, मोकळी हवा, फळाफुलांची रेलचेल, दाट झाडी आणि बरंच काही. कोकणात उन्हाळ्याच्या सुट्टीत अनेक पर्यटक येतात. कैऱ्या, जांभळं, चिंचा, अळू आणि जाळीतली करवंद तोडून खाण्यात जी मजा आहे ती विकत घेऊन खाण्यात मुळीच नाही. रत्नागिरीचे प्रमुख आकर्षण म्हणजे हापूसचा आंबा ! अतिशय रसाळ आणि साखरेपेक्षाही गोड. म्हणूनच त्याला परदेशातही जास्त मागणी आहे. थोडक्यात काय तर इथल्या हापूस आंब्याची ख्याती परदेशापर्यंत जाऊन पोहचली आहे.

रत्नागिरी शहराला खूप मोठा अर्थींग असा समुद्रकिनारा लाभला आहे. गर्द नारळांच्या झाडीत, वाळूचा मऊसर स्पर्श अनुभवत, माश्यांवर ताव मारण्यासाठी अनेक पर्यटक दूरदूरून येत असतात आणि निसर्गाच्या कुशीत मनमुराद आनंद लुटत असतात. मांसाहारी खवय्यांची तर चंगळच असते.

अर्थींग समुद्रकिनारा लाभल्याने मासेमारी हा प्रमुख व्यवसाय ठरला आहे. भाटचे बीच, आरेवारे बीच, मांडवी बीच ही पर्यटकांची पहिली पसंती. रत्नागिरी शहरापासून थोड्या अंतरावर असलेले गणपतीपुळे हे श्रींचे क्षेत्र खूप प्रसिद्ध आहे. अनेक भक्त श्रींच्या दर्शनासाठी येथे आवर्जून येतात. समुद्रकिनाऱ्यावरच हे मंदिर बांधलेले आहे. त्यामुळे श्रींच्या दर्शनाबरोबरच समुद्राच्या लाटांवर स्वार व्हायलाही पर्यटक तितकेच उत्सुक असतात.

कोकणातलं सौंदर्य खऱ्या अर्थीने बहरून येते ते पावसाळ्यातच. घाटातून गाडी जात असताना दिसणारं दाट धुकं, हिरवीगार शेतं,

पावसाच्या पाण्याने न्हाहून निघालेली झाडं, त्यावर बहरून आलेली फुलं, दुथडी भरून वाहणाऱ्या नद्या, भातशेती, बैलांच्या पाठीमागून लहानशी शिमटी हातात घेऊन हाकलणारी माणसं, उंचावरून कोसळणारे पांढरेशुभ्र धबधबे हे सौंदर्य अतिशय लोभसवाणं आणि अवर्णनीयच... त्याची मजा अनुभवण्यातच आहे. पावसाळ्यातलं हे निसर्गाचं अफलातून सौंदर्य पाहून बालकवींच्या ओळी आठवतात...

“श्रावणमासी हर्षमानसी हिरवळ दाटे चोहीकडे

क्षणात येते सरसर शिखे क्षणात फिरुनी ऊन पडे”. हा देखावा भव्य आणि मूक करणारा असतो. निसर्गाच्या सान्निध्यात येऊन वेळ घालवण्याची मजा काही औरच असते. हे आम्हा कोकणवासियांशिवाय जास्त कोणाला कळूच शकत नाही.

शिमगा असो, दिवाळी किंवा गणेशोत्सव इथे प्रत्येक सण उत्साहाने आणि तितक्याच आपुलकीने साजरा केला जातो. टिळकांनी सुरू केलेला गणेशोत्सव अगदी शिस्तबद्धतेने आणि भावपूर्णतेने साजरा होतो.

कोकणचं सौंदर्यच नाही, तर इथल्या माणसांमध्येही आपुलकी, सामंजस्य, समोरच्याला आपलंसं करण्याची भावना या गोष्टींमधून त्यांच्या मनात सौंदर्य झळकत असतं. अशा या विविधतेने नटलेल्या आमच्या या रत्ननगरीला तुम्ही कधीही भेट द्या. तुमचे नेहमीच स्वागत आहे.

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### मन...

ज्याला कधी स्थिरता नसते, ते मन...  
जे कधी शांत तर कधी अस्वस्थ असतं, ते मन...  
क्षणात कठोर आणि क्षणात कोमल होणारं, मन...  
कठिण सारं काही सोपं करून टाकणारं, मन...  
अंतरात्मा नुसतं आपली सावली आहे, मन...  
कधी गप्प तर कधी बोलकं आहे, मन...  
बुद्धी जेव्हा साथ सोडत असते तेव्हा मार्ग दाखवणारं, मन...  
व्यक्त जे करतं ते नसते ते सगळं समजून घेणारं, मन...  
दुःख सोसणारं मन, वर आनंद झेलणारं, मन...  
भावुक होऊन रडणारे डोळे नव्हे, ते देखील, मन...  
अर्थात बोलतो ते ओठांनीच, पण शब्द देणारं, हेच मन...  
व्यक्ती ओळखणे म्हणजे तऱ्ही काय ?  
ओळखा त्याचं मन... फक्त मन...

- प्रतीक्षा विंचूरकर (S.Y.B.Com.)



## माझे बालपण

हर्षदा उपेंद्र कशाळीकर (F.Y.B.Sc.)



बालपणाविषयी एक लेख वाचत होते तेव्हा त्यातील एक परिच्छेद फार आवडला. त्यात बालपणाचे खूप छान वर्णन केले होते.

‘बालपण दे गा देवा मुंगी साखरेचा रवा.. ऐरावत रत्न थोर त्यासी अंकुशाचा मार’... बालपण मोरपिसासारखं, मनाच्या प्रतिबिंबावरून फिरलं तरी हळूवार होणाऱ्या आठवणींच्या स्पर्शानं हुरखून जाणारं.... क्षणात खुदखुद हसणारं, तर क्षणात रडणारं, आवडता खेळ नाही मिळाला तर मुसमुसणारं, आपली माणसं दिसली की गालावर खळी पाडत बिलगणारं... चिमुकल्या हातांनी गालावरून हात फिरवणारं... कोमल पावलांनी लुटलुटू चालण्यासाठी धडपडताना धपकन खाली पडणारं... बावरलेल्या चेहऱ्यानं हसता हसता पुन्हा उठणारं... ? रडतानाही दुःख विसरून हसायला लावणारं... कधी रांगणं, कधी उठणं, कधी बसणं, रोज नवी आव्हानं पेलणारं... अथक प्रयत्नानंतर यशस्वी होणारं... बोकडे बोल बोलताना मोठ्यांनाही लहानपण नव्याने पुन्हा एकदा जगायला लावणारं. रोज नव्या तऱ्हा दाखवताना कौतुकाच्या वर्षावात न्हाऊन निघणारं. आणि आपल्या असंख्य प्रश्नांनी मोठ्यांनाही भंडावून सोडणारं... बडबडगीतांनी घरचं वातावरण प्रफुल्लित करणारं...’

आज मी, माझं चौकोनी कुटुंब पुण्यासारख्या शहरात, एका चांगल्या इमारतीत राहतो.. पण माझं बालपण गेलं ते ‘वेंगुर्ला’ या खेड्यात, एकत्र कुटुंबात. आजूबाजूलाही खूप वस्ती होती. पुढे-पाठीमागे मोठ्ठ अंगण, अंगणात पेरु, नारळाची झाडं, फुलांची झाडं सुद्धा भरपूर. आम्ही सगळेजण मिळून शाळेत जात होतो. अभ्यास देखील एकत्र बसूनच. इतरवेळी आम्ही भरपूर खेळत असू. सत्यनारायणाची पूजा, गणेशोत्सव, दिवाळी अशा कार्यक्रमांची तर आम्ही धम्माल उडवण्यासाठी वाटत बघत असायचो. अशावेळी तर आमचं आखूचं घर भरून जात असे. कोकण असल्यामुळे मे महिन्यातसुद्धा पाहुणे-रावळे यांनी सर्वांनी मिळून पाडलेला आंब्यांचा फडशा, त्यासाठी आम्हा लहान मुलांची चाललेली भांडणं... सांगावं तितकं थोडं... अशा या सुंदर वातावरणात माझी सातवी पार पडली आणि आम्ही वेंगुर्ला सोडून नवीन शहरात राहायला आलो.

मग पुन्हा शाळेचा पहिला दिवस, नव्याची नवलाई, नवे सखेसोबती, नवीन शिक्षक... पावसाच्या सरी अंगावर झेलताना, स्वच्छंदीपणे रस्त्यावरून चालताना दरवळणारा मातीचा सुगंध, आकाशाला मुठीत सामावू पाहणारं मन. उन्हाळ्याच्या सुट्यांमधे

‘झुक झुक झुक-झुक अगीन गाडी धुरांच्या रेषा हवेत काढी’ म्हणत आजोळचा घेतलेला पाहुणचार...

आजोळी आजीने सांगितलेल्या गोष्टी ऐकत झोपणे, संध्याकाळी कटाक्षाने म्हटलेला परवचा... बालपणीचे हे प्रसंग आठवले की, आत्तापण त्या जगात हरवून जायला होतं, उनाड बालपण. शाळेचा अभ्यास करताना उनाडक्याही जोमाने चालू असायच्या. उन्हाळ्याची आणि दिवाळीची सुट्टी म्हणजे धम्मालच. लहान मुलांना त्यांचं बालपण स्वच्छंदीपणे जगू देणारं. या वयात एकमेकांना पाण्यात पाहणारी असूया नसते. भावी आयुष्याचं वाळवंट तुडविताना घायाळ होऊ पाहणाऱ्या माणसाची पूर्वतरतूद म्हणून निसर्गाने निर्माण केलेल्या शीतल पाण्याचा तो एक चषक आहे.

आता मात्र स्पर्धेच्या युगात बालकांचे बालपण हरवण्याची जणू कसरतच लागली आहे. मूल अगदी जेमतेम अडीच-तीन वर्षांचं झालं की त्याला युकेजी, एलकेजीचा अभ्यासक्रम तोंडपाठ व्हावा ही अपेक्षा आणि त्याची तयारी बालपणापासूनच. पहिली पासून शिकवण्या, काही किलोच्या वजनाच्या दप्तराचे ओझे, अव्वल येण्याच्या महत्वाकांक्षेने झपाटलेले आई-वडील. उन्हाळ्याच्या सुट्टीत तरी हे मन बागडेल असे वाटते, पण तेव्हा नेहमीपेक्षा दडपले जाते. कारण तेव्हाही पुढच्या वर्गाचे क्लासेस आणि त्यातर भर म्हणून भरमसाट छंदवर्ग. संध्याकाळ झाली की पार मेटाकुटीला आलेलं बालमन... खिडकीतून बाहेर बघताना उनाडक्या करणाऱ्या मुलांना पाहिलं की हेवा वाटणारं...

बालपणी सर्वांना हसवणारं, पण पालकांनी लादलेल्या जबाबदारीच्या ओझ्याखाली हसता-हसता अचानक रडणारं आणि अकाली प्रौढत्व आलेलं... स्पर्धेचं युग असलं तरी कधीच परत न येणारं हे बालपण... मोठेपणी माणूस “लहानपण देगा देवा, मुंगी साखरेचा रवा !” असे म्हणतो कारण ते रम्य बालपण पुन्हा प्राप्त व्हावे, जीवनातील रोजचे ताणतणाव सर्व दुःख विसरून जावे असे त्याला वाटते. मनाच्या एका कोपऱ्यात दडून बसलेले असे ते ‘रम्य बालपण’ आपल्याला उगीचच खुणावत राहते. मग तेच घरातल्या चिमुकल्यांच्या सहवासात एक दिवस जगून पाहायला काय हरकत आहे ?

030303



## मैत्रीण

राधिका सं. महाडिक (S.Y.B.A.)



मला आठवतं तसं... मी होतो साधारण सोळा-सतरा वर्षांचा, मला मित्रांच्या संगतीतच वाटत होती खरी मज्जा... त्यांच्यामुळेच झाली माझी त्यांच्या एका मैत्रीणीशी ओळख. तशी ती माझ्यासाठी नवीनच होती. ती पहिल्या भेटीत मला फारशी काही आवडली नाही... पण नंतर मात्र मी नकळत तिच्याकडे ओढला जाऊ लागलो आणि... त्या ओळखीचं रूपांतर मैत्रीत झालं...

आता मात्र ती माझी आणि मी तिचाच झालो होतो... तिच्यासाठी मी आई व बाबांना, लाडक्या बहिणीला विसरायला पण... तयार झालो होतो. तिच्यासाठी काहीही करायचं, कितीही धोके पत्करायचं आव्हान आता मी स्वीकारलं होतं... तिच्यासाठी मी रक्ताचं पाणी करून कपट करत होतो... तिचा एक सहवास मला वेडापिसा करून टाकायचा.. ती नाही भेटली की, जिवाची लाही-लाही व्हायची...

आई-बाबांना एकदा तिच्याबद्दल माझ्या खिशातल्या पाकिटावरून कळलं... त्यांनी मला विश्वासात घेऊन सांगितलं की, ती तुझ्यासारख्या मुलासाठी योग्य नाही. मला त्यांचे शब्द सहन झाले नाही. मी त्यांचं ऐकलं नाही आणि मी घर सोडलं. नंतर माझ्या एक जिवलग मित्राकडे गेलो. पण त्यानेही तिला कायमचं सोडण्याचं वचन मागितलं. पण मी तिच्यासाठी त्यालाही सोडलं. उलट मीच तुला तोंड दाखवणार नाही असं मी त्याला सांगितलं.

आता फक्त तिच्यासाठीच माझं आयुष्य आहे. असं मला वाटू लागलं. ती माझ्या नसानसात सामावली होती. मी कायम तिला सोबतच घेऊन फिरायचो. आम्ही तासन्तास एकमेकांच्या सहवासात घालवायला लागलो. पण.. एकदा ती आणि मी बसस्टॉपवर थांबलो असता मला चक्कर आली, तो अपघात माझ्या आयुष्यातला सर्वात मोठा अपघात होता... आणि ती आणि मी वेगळे झाल्याचे मला जाणवू लागले अन् माझी शुद्ध हरपली. जेव्हा माझे डोळे उघडले तेव्हा मी एका हॉस्पिटलच्या वॉर्डमध्ये निपचित पडलो होतो. शुद्ध आली तेव्हा मी वारंवार तिचे नाव घेऊ लागलो. ती कुठे आहे अशी विचारणा करू लागलो. पण सगळे निःशब्द होऊन माझ्याकडे मूकपणे पाहू लागले.

पण नंतर शेवटी डॉक्टर माझ्याजवळ आले नि म्हणाले, “तुमची मैत्रीण तुम्हाला परत भेटणार नाही पण ती तुम्हाला तुमच्या तुटपुंज्या आयुष्याची भेट देऊन गेली.” आणि त्यांनी एक कागद माझ्या हातात दिला अन् त्यामध्ये आयुष्यातल्या सर्वात

मोठ्या केलेल्या चुकीचा.. तो कागद एक निकाल होता. त्यावेळी मला आई-बाबा, जिवलगचे चेहरे... अन् शब्द आठवू लागले... पण आता ते सर्व आठवणे निरर्थक होते. ती सिगारेट नावाची मैत्रीण. हो मला कॅन्सरची भेट देऊन गेली...

पण आता मी पश्चाताप ही करू शकत नव्हतो...

कारण... पश्चातापाची वेळसुद्धा संपत आली होती.

मित्रांनो,

आता मी काहीच करू शकत नाही... पण तुम्हाला मनापासून सांगू इच्छितो,

अशा कित्येक मैत्रीणी तुमच्या आयुष्यात येतील, पण त्यांच्याशी मैत्री करू नका...

निर्मळ, स्वच्छंदी, रोगविरहित सुखद असं आयुष्य तुम्ही जोमाने जगा...

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### एक शांत दुपार

एक शांत दुपार ऊन पावसाचा खेळ दाखवणारी  
वाऱ्याच्या सका झोतांने मन खुप करणारी

उन्हामुळे सावलीचे वेगवेगळे खेळ खेळणारी  
पावसाच्या सका शिडकाव्याने आल्हाददायक आनंद देणारी

झाडाच्या शांत सावलीत झोप घ्यायला लावणारी  
रस्त्यावरून जाताना गरम उन्हाचे चटके सहन करायला  
साथ देणारी

पाण्याच्या सका थेंब्याने तहान भागवणारी  
गरम उन्हाच्या चटक्यांनी डोळ्यांत पाणी आणणारी  
सुखाच्या ओंजळीतल्या पाण्याची चव क्वचितच अनभवू देणारी  
संपता संपता मात्र सूर्यास्ताची चाहूल देणारी

अखेर आयुष्यातल्या अन् दिवसातल्या अंधाराची  
आठवण न चुकता करून देणारी  
एक शांत दुपार...

- निरंजन बापट, MCA, FY Sem II (Comp Sci.)



## मोकळा श्वास

कल्पना दशरथ टट्ट (तृ.व. बी.एस्सी.)



एका संस्कारी घरात एक नाजूक परी जन्माला येते. पण समाजाच्या नजरेत ती एक मुलगीच ना ? तिच्या जन्मावर न कोणी बर्फी वाटत न कुणी तिला प्रेमाने जवळ घेत. पण ज्या आईने नऊ महिने तिच्यासाठी वेदना सहन केलेल्या असतात त्या नाजूक जीवाला ती आई संवेदना देत असते... संस्कार देत असते... आपली ओळख बनवायला शिकवत असते.

रंगत-रंगत हळूहळू ती परिराणी मोठी होते. मनात नवनवीन ध्येय रंगवत असते. अशीच एक कळी... अन् तिचा जीवनपट तुमच्यासमोर माझ्या शब्दावलीतून रंगवणार आहे.

आपण किती आत्मविश्वासाने म्हणत असतो भारताला स्वातंत्र्य मिळून भारताच्या दिशा-दिशा उज्वल झाल्या. पण विचार करा ना... ज्या भारतभूमीवर त्या निष्पाप बालिकेची गर्भातच हत्या केली जाते ती अन् तिची माता... त्यांना स्वातंत्र्य आहे का ? कोणत्या धुंदीत जगतोय हा समाज. जी या जादूमय जीवनाची संगिनी आहे तिच्याच श्वासाची शाश्वती नाही आपल्या या देशात. म्हणजे स्वातंत्र्य मिळाले... हजारोंमधून चुकून या कळ्या वाचल्या तरी जगाच्या बाजारात तिच्या अस्तित्वाला क्षणाची खात्री नाही.

केवळ एक मुलगी म्हणून जिला आपण पहात असतो.. तीच एक मुलगी आईच्या वेदनांवर हळुवार फुंकर घालत असते. घराची तेजस्विनी असते. तिच्या नाजूक पावलांनी तिच्या गोड-मधुर स्वराने... तिने काढलेल्या रांगोळीने तिच्या प्रत्येक कृतीने वातावरण कसं प्रसन्न होत असतं. आईबाबांची काळजी घेणं, भावंडांचं शिक्षण व्हावं त्यासाठी अगदी मनापासून झटणं, शिक्षणाची गोडी असलेली सर्वांची काळजी घेणारी एक काळीजपाखरू असते ती. एवढं असूनही तिला केवळ एक मुलगी मानलं जातं. तिचे सामर्थ्य, तिचे ध्येय समाज जाणून घ्यायलाच तयार नसतो... का हे असं ?

माझं मन मला नेहमी प्रश्न विचारत असतं. भारताला स्वातंत्र्य १९४७ मध्येच मिळालं पण भारतातील स्त्रियांच्या मनाला.. त्यांच्या स्वतंत्र विचारांना अजूनही स्वातंत्र्य मिळालं नाही. किती दुबळी अवस्था आहे तिची. अजूनही परिवार सांभाळून, प्रेम, माया, ममता, शौर्याची, धाडसाची, शिदोरी आयुष्यभर या समाजाला तीच पुरवत असते. सोनेरी इतिहास घडविण्यातही पुढाकार घेते. पण आज तिलाच स्वातंत्र्य नाही. लाज वाटते मला हे सर्व तुमच्यासमोर मांडताना... आजच्या एकविसाव्या शतकातील सुशिक्षित मंडळींना या गोष्टीची जाणीव करून द्यावी लागत आहे.

सहनशीलतेची पुजारी असते ना स्त्री !! इतरांसाठी स्वतःच्या त्यागाची सहनशीलता देवानेच तिला बहाल केली आहे. काळजावर दगड ठेवून सगळं सहन करत असते ती. याचा अर्थ असा नाही की, तिला स्वतःचे विचार नाहीत किंवा तिला गुलामीच प्यारी... अरे... हे सगळं सहन करते ती तुमच्यासाठीच की... स्वतःची स्वप्ने उराशी दडपते... अन् इतरांच्या स्वप्नासाठी जगते-सगळी नाती ती अगदी जीवापाड जपत असते. तिला श्वासाहूनही प्रिय असतात ही सगळी नाती ! घराचं मांगल्य जपणं तर तिचा श्वासच.

खरंच तुम्हीच पहा ना... तिच्या प्रत्येक कृतीत तिच्या वागण्या-बोलण्यातही... इतरांसाठीच प्रेरणा असते... मग का... तिलाच बळी द्यावा लागतो तिच्या प्रत्येक स्वप्नाचा ... ?

बालहत्या, हुंडाबळी, मानसिक शोषण, समाजातील स्थान, दुबळी वागणूक हे सर्व तिच्याच बाबतीत का ? म्हणे अबला झाल्या सबला !! आज समाजातील ५-१०% स्त्रिया सुशिक्षित झाल्या तेजस्विनी म्हणून जगू लागल्या म्हणून याचा अर्थ असा होत नाही की, सर्व स्त्रिया सुशिक्षित अन् स्वातंत्र्याने जगतात. म्हटलं जातं अजून काय हवंय स्त्रीला. ५०% आरक्षण तर दिलंय तिला पण या समाजाला विचारावं वाटतं कसलं ५०% आरक्षण, अहो हे आरक्षण अन् स्वातंत्र्य तिला देणारे तुम्ही कोण ? हे स्वातंत्र्य निसर्गाने बहाल केलंय.... अन् तो तिचा अधिकारच आहे.

आजही सुशिक्षित स्त्रीला... स्वतःच्या पायावर उभी असूनही, तिच्या संकल्पना तिला मनातच ठेवाव्या लागतात. ते विचार मांडण्याचे स्वातंत्र्य तिला कोणी दिलंच नाही.

तिचा श्वास कोंडला गेला, तिची अस्मिता हरवली. हे सर्व वेळीच जर थांबलं नाही तर एक दिवस तीही संपून जाईल.

हे जग इतकं सुंदर आहे ते फक्त तिच्यामुळेच. जोपर्यंत ती आहे तोपर्यंत ही सृष्टी सजलेली, बहरलेली, दिसत आहे... पण जर अशी दुबळ्या मनाने, मानसिक शोषणात जगत राहिली, अशीच पुतळा बनून जगू लागली. तर मग या सुंदर जीवनाचा अंत दूर नाही.

तेव्हा एकच विनंती... !!

त्या कळीला उमलू द्या... बहरू द्या... तिचं अस्तित्व. तिची ओळख, तिची अस्मिता याची जाणीव ठेवा...

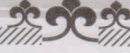
मोकळा श्वास तिला घेऊ द्या.

ॐॐॐ



## आईची मांडी

सुनयना शेखर डावखरे (S.Y.B.A.)



सकाळची वेळ. तसा घरात गोंगाट चालू होता. सगळीकडे पसारा अगदी नेहमीप्रमाणे पसरलेला होता आणि ते अलौकिक दृश्य पाहून आईची चिडचिड सुरूच होती. त्यातून तिच्याच हातून एक काचेचा ग्लास पडला आणि फुटला. झालं संपलं... अनिकेतची आई सिंह राशीची. बहुधा सिंह राशीची मंडळी आपल्या हातून झालेल्या चुकीची जबाबदारीसुद्धा इतरांवर ढकलात. त्यामुळे त्या फुटलेल्या ग्लासचा सगळा राग आईने अनिकेतवर काढला.

एकतर सगळ्या पसऱ्यात लोळत पडलेल्या अनिकेतमुळे आधीच आईचा पारा चढला हाता. त्यात त्या ग्लासाची भर पडली. सकाळपासून उठल्यापासून सगळा राग एकसाथ अनिकेतवर निघाल्यावर कंटाळेल्या अनिकेतची सुद्धा चिडचिड झाली. पण जास्त काही राग व्यक्त केला तर तो आपल्यालाच भारी पडेल याची जाणीव होताच तो चुपचाप आंधोळीला गेला. थोडा वेळ गेला. आईची धगधग तशी चालूच होती. कामाचा एवढा ढीग समोर होता त्यामुळे चित्त थाऱ्यावर नव्हते. आईला होणारा हा त्रास आणि कामाचा व्याप अनिकेतने पाहिला आणि त्याला आईची थोडी दया आली. त्याने आईचा हात पकडला. तिला हॉलमध्ये घेऊन गेला तिला बसवलं आणि एक थंड पाण्याचा ग्लास तिच्या हातात दिला. त्यानंतर तो तिच्या मांडीवर डोकं ठेवून झोपला. क्षणात आलेला सगळा राग, तिची सगळी चिडचिड नाहीशी झाली.

### प्रेम

प्रेम हे फक्त प्रेम नसतं  
प्रेम हे तर प्रेमाचंच एक नाव असतं...  
प्रेम हे आईच्या मायेचं असतं.  
प्रेम हे तिच्या मुलीवर असतं.  
प्रेम हे तर प्रेमाचंच एक नाव असतं...  
प्रेम तर वडिलांच्या आशीर्वादांचं असतं  
प्रेम तर मायेच्या कोमल हाताने  
डोक्यावर फिरवणारं असतं...  
प्रेम हे बहिणीचं बहिणीवर असतं  
प्रेम हे तर प्रेमाचंच एक नाव असतं...  
प्रेमाची भाषा ज्याला उमगली  
त्यानं सर्व दुनिया जिंकली

- सुनयना शेखर डावखरे (S.Y.B.A.)

तिचा हात लगेच मुलाच्या डोक्यावर गेला आणि त्याला कुरवाळू लागली. आपल्या आईला शांत करण्याचा याहून चांगला उपाय नाही. लक्षात ठेवा खरंच आईची मांडी ही गोष्टच निराळी आहे. म्हणजे आपण चुका करायच्या आणि त्या चुकांच्या शिक्षेपासून बचाव करण्यासाठी उपयोगी असते ती म्हणजे आईची मांडी. आयुष्यात अडचणी येतात, आपल्याला आधारची, प्रेमाची, आपुलकीची गरज असते तेव्हा प्रत्येक वेळी आपल्या आईची मांडी तयार असते. आयुष्यात कितीही मोठे झालो तरी आईचा हात असणे आणि डोक्याखाली आईची मांडी असणे फार गरजेचे असते. या गोष्टी जर आपल्याकडे असतील तर आयुष्यात अडचणी कमी होत नाहीत, पण त्या अडचणीशी लढण्याची ताकद मात्र येते.

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### साठलंय काहीतरी...

मनातल्या मनात, आतल्या आत,  
कुठेतरी हृदयाच्या काना कोपऱ्यात,  
साठलंय काहीतरी...  
वेळेचं चक्र चालूच असतं,  
थोडक्यात, दिवसा मन रमलेलं असतं.  
दिवस सुरून संध्याकाळचा सुरू होतो खेळ  
मग मात्र रात्र येऊन, निघून जातो -  
दिवसाचा वेळ,  
तेव्हा निजताना वाटतं -  
मनातल्या मनात, आतल्या आत  
कुठेतरी हृदयाच्या काना कोपऱ्यात  
साठलंय काहीतरी...  
निजल्यावर जग काही वेगळंच दिसतं,  
अंधारात मन गुंतलेलं असतं,  
सगळं मात्र स्वप्न असून, सत्य काहीच नसतं,  
रात्र संपून दिवसाचा सुरू होतो पुन्हा खेळ,  
तेव्हा जाग आल्यावर भासतं,  
मनातल्या मनात, आतल्या आत,  
कुठेतरी हृदयाच्या काना कोपऱ्यात -  
साठलंय काहीतरी...

- प्रतीक्षा विंचूरकर (S.Y.B.Com.)



# जीवनातील विज्ञानाची भूमिका

अनुराधा नरावडे (F.Y.B.Sc.)



खरे पाहता विज्ञान ही माणसाचीच निर्मिती आहे. पण आज अनेक घटनांतून माणूस विज्ञानाच्या हातातील बाहुले झाल्यासारखा वाटतो. विशेषतः आपल्या दैनंदिन जीवनात आपल्याला असा अनुभव अनेकदा येतो. कधी कधी अगदी मोक्याच्या क्षणी विद्युतप्रवाह बंद पडतो, घरातील दिवे जातात, पंखा फिरत नाही, उद्वाहन ठप्प होते आणि आपण सारेजण अगतिक होतो; त्यावेळी आपणाला वाटू लागते की, माणूस हा विज्ञानाचा गुलाम झाला आहे !

विज्ञानाने केलेले चमत्कार किती विलक्षण व अद्भुतरम्य आहेत ! आपल्या भोवतालच्या अज्ञानाचा अंधार विज्ञानाच्या प्रकाशाने दूर झाला आहे. विजेच्या साहाय्याने माणसाने आपले मर्यादित मानवी सामर्थ्य अनेक पटींनी वाढवले आहे. आजच्या गृहिणीजवळ स्वयंपाकघरात विजेवर चालणारी अनेक उपकरणे आहेत. ही उपकरणे गृहिणीची अनेक कामे त्वरित आणि तत्परतेने करतात. विजेच्या साहाय्याने चालणारा पंखा आणि कूलर उन्हाळा सुसह्य करतात; तर विजेच्या शेगडीमुळे थंडीचा कडाकाही सुखावह होतो. भ्रमणध्वनीमुळे तर आता जगाच्या पाठीवर कुठेही असलेल्या कोणत्याही व्यक्तीशी कधीही, कोणीही संपर्क साधू शकतो !

खरे तर विज्ञान ही माणसाला लाभलेली दिव्य शक्ती आहे. विज्ञान म्हणजे मानवी सामर्थ्याचा स्रोत आहे. मानवाने विज्ञानाची उपासना केली नसती, तर आजवरची प्रगती होऊच शकली नसती. विज्ञानाच्या साहाय्याने मानवाने केलेली प्रगती हे मानवाच्याच अखंड, प्रखर साधनेचे फळ आहे. विज्ञान मानवाला लाभलेला परीस आहे. आज मानवी जीवनात असे एकही क्षेत्र आढळणार नाही की जेथे विज्ञानाने प्रवेश केला नाही.

‘विज्ञान’रूपी कामधेनू माणसावर प्रसन्न झाली आणि मानवी जीवनात आमूलाग्र बदल झाला. चाकाचा शोध लागल्यामुळे माणसाच्या जीवनाला गती आली. विज्ञानाच्या साहाय्याने माणसाने आपल्या सर्व इंद्रियांचे सामर्थ्य वाढवले. सात महासागरांपल्याड पसरलेले जग जवळ आले. इतकेच नाही, तर माणसाने अंतराळात झेप घेतली, समुद्राचा थांग लावला. संगणकाच्या साहाय्याने तर माणसाने आजपर्यंत अप्राप्य असणाऱ्या गोष्टी प्राप्त केल्या. इंटरनेटच्या साहाय्याने दूरदूरच्या खंडांत असलेली माणसे एकमेकांना रोज भेटू लागली. आज माणसाने विज्ञानाच्या साहाय्याने भूमीप्रमाणेच सागरावर आणि अंतरिक्षावरही स्वामित्व मिळवले आहे. तो आता सागराच्या उदरातही प्रवेश करू शकतो. अंतराळयानांच्या साहाय्याने माणसाने वसुधेची परिक्रमा केली

आहेच, चंद्रावर पाऊल टाकले आहे आणि आता तो अन्य ग्रहांवरही पाऊल टाकण्याच्या प्रयत्नात आहे.

विज्ञानाची किमया श्रीमंतांपासून अगदी गरिबांपर्यंत पोहोचली आहे. अगदी खेड्यातही भाकरीच्या पिठासाठी कुणा अन्नपूर्णेला जाते फिरवावे लागत नाही. विज्ञानाच्या साहाय्याने माणसाने स्वतःचे कष्ट खूप कमी केले आहेत; तसेच वैद्यकीय क्षेत्रात अनेक शोध लावून अनेक असाध्य आजारांवर मात केली आहे. मानवाचे निरुपयोगी झालेले अवयव शस्त्रक्रिया करून बदलता येतात. कुरूप व्यक्तीला सुंदर बनवले जाते, तर अपंगाचे व्यंगत्व घालवून त्याला जीवनात यशस्वी वाटचाल करण्याची प्रेरणा दिली जाते. ही सारी विज्ञानाची किमया आहे. रक्तदानाच्या व नेत्रदानाच्या पुढे जाऊन गात्रदान-अवयवदान करता येते. तसेच, दुर्बिणीतून शस्त्रक्रिया होऊ लागल्या आहेत.

एकविसावे शतक हे ‘ज्ञानयुग’ आहे आणि या ज्ञानयुगाचा कळस म्हणजे संगणक ! आज या संगणकाला ‘अशक्य’ हा शब्द माहीत नाही. एकेकाळी संगणक ही फक्त शास्त्रज्ञांची मक्तेदारी होती. पण आज तो जनसामान्यांचा सेवेकरी झाला आहे. आपण प्रवासाला निघतो तेव्हा आपल्या प्रवासातील रेल्वेच्या वा विमानाच्या तिकिटांचे आरक्षण संगणक करतो. आपल्या घरात दर महिन्याला येणारी विजेची व दूरध्वनीची बिले, विम्याचा हप्ता भरण्याची सूचना देणारी स्मरणपत्रे संगणक तयार करतो. संगणकाने सर्व कामे सोपी, सुलभ आणि शिस्तीची केली आहेत. मोठमोठ्या संस्था, कारखाने, कचेऱ्या येथील बिले तयार करण्याची कामे संगणक करतात. शालान्त परीक्षा आणि इतर अनेक मोठमोठ्या परीक्षांचे निकाल संगणक तयार करतो. मोठमोठी पुस्तके, ग्रंथ अगदी सहजगत्या चुटकीसरशी संगणकाच्या साहाय्याने छापले जातात. बँका, विमान कंपन्या, शेअर्स कचेऱ्यांमधील हिशेब संगणक क्षणात बिनचूक करतात.

सध्या विज्ञानयुगात सतत संशोधन चालू असते. या संशोधनाला संगणक मोठे साह्य करतो. या युगातील अंतराळ विमानाला संगणकाचा आधार लाभलेला आहे. अंतराळात उपग्रह सोडण्यास संगणकाने मदत केली आहे. हवामानाचा अंदाज, दूरदर्शनवरील चित्रदर्शन अशी किती कामे सांगावी या संगणकाची ! इंटरनेटसारख्या चमत्काराने तर जग जवळ आणण्याचे महान कार्य केले आहे. आज कोणतेही क्षेत्र संगणकाच्या स्पर्शापासून दूर राहू शकत नाही, इतके या संगणकाचे महात्म्य वाढले आहे.



विज्ञानाच्या मदतीने माणसाने भूगोलावरही मात केली आहे. एकेकाळी वाळवंटी, ओसाड असलेल्या प्रदेशांत आता फुलबागा बहरत आहेत. वसुंधरेची उत्पादनक्षमता वाढवून हरितक्रांती साधली जात आहे. माणसाने विज्ञानाच्या मदतीने आपल्या मनोरंजनाच्या साधनांतही भर टाकली आहे. विज्ञानाच्या साह्याने मानवाने आपले सामर्थ्य हजारां पटींनी वाढविले आहे. दृष्टी, श्रुती, स्मृती या साऱ्या बाबतीत माणूस आता सर्व प्राणिमात्रांत श्रेष्ठ ठरला आहे, तो केवळ विज्ञानाच्या बळावरच ! विज्ञानाच्या साह्याने त्याने आज सारे जग जवळ आणले आहे. आज विज्ञानाने माणसाला इतके सामर्थ्य दिले आहे की, त्याला आता परमेश्वराजवळ मागण्यासारखे काही उरलेलेच नाही. किंबहुना विज्ञानाने मानवाला इतके काही भरभरून दिले आहे की विज्ञानच परमेश्वर बनला आहे. क्लोनच्या प्रयोगातून माणूस जणू विश्वनिर्मितीलाच आव्हान देत आहे. वैज्ञानिक शोधांमुळे अंधश्रद्धांवर मात करता येते. हे सारे पाहिले की मन ग्वाही देते, विज्ञान हे मानवाला लाभलेले श्रेष्ठ वरदान आहे. अणुशक्ती ही मानवाला लाभलेली परमशक्ती आहे.

### सकलाच मी

हसतो कधी, रडतो कधी  
कधी गुणगुणतो सकलाच मी  
आयुष्याच्या वेलीवरती  
झुलतो कधी सकलाच मी.

मिळाल्या बहु, टिकलेल्या थोड्या  
आठवणींत जगतो, सकलाच मी  
कधी मावळलेल्या क्षितिजावरती  
प्रकाश शोधतो सकलाच मी.

झुंजतो कधी, जिंकतो कधी  
मनाशीच माझ्या सकलाच मी  
गुंततो कधी सुटतो कधी  
या नात्यांतून सकलाच मी.

रमतो कधी, गमतो कधी  
आयुष्याच्या वाटेवर सकलाच मी  
आठवणीत कुणाच्या रडतो कधी  
पुसतो डोळे माझेच मी.

- रामदास गावंडे (F.Y.B.A.)

विज्ञानाचे हे चमत्कार जेवढे सुखद आहेत, तितकेच विज्ञानाने माणसाच्या विनाशक सामर्थ्यात केलेली वाढ भयावह आहे. एका अणुबॉम्बने हिरोशिमातील हजारांचे जीवन उद्ध्वस्त केले आहे. असे आहेत हे विज्ञानाचे चमत्कार - अंगावर आनंदाचे रोमांच फुलवणारे तसेच भीतीचा काटा उभा करणारे !

माणसाने विज्ञानाच्या बळावर महाभयानक संहारक शस्त्रास्त्रे तयार केली. आजकाल वैज्ञानिक घोडदौडीत माणूस नैसर्गिक संतुलन हरवून बसला आहे. त्यामुळे विज्ञान' हा माणसाचा शत्रू आहे, अशा प्रकारची टीका विज्ञानावर कधी कधी केली जाते. पण गंभीरपणे विचार करता, यात विज्ञानाचा दोष नसून तो माणसांच्या वृत्तीचा दोष आहे, हे स्पष्ट होते. विज्ञान हा मानवाचा जिवलग सखा आहे. मानवाच्या विकसनशीलतेचे रहस्य विज्ञानाच्या सामर्थ्यात दडलेले आहे, यात शंका नाही.

०३०३०३

### सुख दुःखाच्या उंचरठ्यावर

सुवर्णक्षणांच्या साथीला

दुःखाचीही जोड असते

जीवनात असते उधळपट्टी

त्याचबरोबर तडजोडही असते.

रात्रीमागून सरतो दिवस

दिवसांमागून रात्र सरते

सुखांमागून दुःख सरते

सकटेच ना कोणी उरते.

जीवनातील काही क्षणांना

अश्रूही साथ देतात

दुःख हे सुखांना

नेहमीच साथ देतात.

सुख आणि दुःख हे तर

खऱ्या जीवनाचे सार

सुख मिळवण्यासाठी

असता दुःख ही अपार.

दुःखामुळेच वाटते आपल्याला

ओढ खऱ्या सुखाची

त्यामुळेच मिळते ती

खरी पायरी यशाची.

सुख असते मानण्यावर

दुःख जाते हे जाणल्यावर

दुःखातही मानावे सुख

हेच तर जीवनाचे स्वरूप.

- जान्हवी पुरंदरे (अकरावी)



## निसर्ग अनुभवताना...

मनाली दाणी (T.Y.B.Sc., Zoology)



मला निसर्गात भटकायला अतिशय आवडते. विशेषतः निसर्गातले झाडांचे, फुलांचे, आकाशाचे विविध रंग डोळ्यात साठवायला आणि पक्ष्यांचे आवाज ऐकायला तर फारच !

ही आवड निर्माण होणे हे आधी महत्वाचे असते. माझ्या बाबतीत हा निसर्ग बघण्याची, अनुभवण्याची 'कला' पक्षीतज्ज्ञ 'किरण पुरंदरे' यांच्यामुळे प्राप्त झाली. त्यांनी खऱ्या अर्थी निसर्गातला आनंद लुटायला शिकवले. आमच्या शाळेतल्या प्रत्येक सहलीबरोबर तेच असायचे. आम्ही तेव्हा काय काय अनुभवले असेल याची किंमत आता कळते. त्यांनी काही गोष्टी सांगून शिकविल्या आणि काही, न शिकविता आपोआप कळत गेल्या.

निसर्गात हिंडायला जाताना काय काय महत्वाच्या गोष्टी पाळायला पाहिजेत हे समजायला लागले. माझ्या मते, पहिली गोष्ट म्हणजे 'आपण शहरात जे विलासी, सुखी जीवन जगतो ते विसरून जाणे! आणि गरजा, मोह कमी करणे हा पहिला टप्पा ! बऱ्याच वेळा अनेक जणांना मी बघितलं की, घरी असलेली प्रत्येक गोष्ट जंगलातल्या ठिकाणी हवी असते. उदा. पंखा, टी.व्ही, फ्रिज, दिवे, अती स्वच्छता. हे सर्व जंगलात असले तर निसर्गाचा खरा आनंद लुटताच येणार नाही. अगदी साधी गोष्ट म्हणजे आपण त्या प्राणी पक्ष्यांमधलेच आहोत असे वागणे (जंगली नाही !!) किंवा त्यांना त्रास न देता जंगलात हिंडणे !

आपले कपडे जर भडक रंगाचे असतील तर जंगलाच्या पार्श्वभूमीवर लगेच उठून दिसतात. पक्षी, प्राणी अशाने दूर पळून जातात. याप्रमाणेच घाम जाण्यासाठी सुगंधी, सेंट, डिओ वगैरे वापरणे तर चुकीचेच आहे. कारण यात गममत अशी की, आपल्या शरीराचा कृत्रिम सुगंधी वास आल्यामुळे प्राणी, कीटक बिथरतात, म्हणून आपल्याला जरी घाम आला असला तरी नकळत एखादं फुलपाखरु चक्क घामाच्या थेंबावरही बसायला येतं ! फुलपाखरे फक्त फुलातला मकरंद घेत नाहीत तर घामातले क्षारही (salts) शोषतात.

तसेच जंगलात ट्यूबलाईट शिवाय नुसत्या चांदण्यांच्या प्रकाशातली रात्र अनुभवण्याची मजाच काही वेगळी असते.

एक महत्वाची गोष्ट म्हणजे, जंगलात भटकायला जाण्यापूर्वी

कुठल्याही प्रकारच्या 'अपेक्षा' करून जायचे नाही. कारण बऱ्याचदा, "मला वाघ बघायचा आहे" म्हणून आपण फक्त त्याचाच विचार करत राहतो आणि बाकीच्या बारीक सारीक गोष्टींचा आनंद घेत नाही. मनाची कोरी पाटी घेऊन, निष्पाप होऊन भटकायला गेलो तर अफाट मजा येते आणि कधी कधी सुखद धक्केही मिळतात ! साध्या गोष्टीतही आनंद घेता येतो. झाडांचा हिरवेपणा सगळीकडे सारखा नसतो. आकाशातही अनंत प्रकारचे रंग, सुंदर, नक्षीकाम केलले असते. हे सर्व बघायला आपले दोन डोळेसुद्धा अपुरे पडतात. डोळ्यात काय साठवू आणि काय नको असं होतं.

कधी कधी आपली फसवणूकही होते. एखादे वेळी मधूनच एके ठिकाणी हालचाल जाणवते. कोणीतरी आहे तिथे असे वाटते, पण नीट बघितले तर झाडाची एक डहाळी वाऱ्याबरोबर मनसोक्त हेलकावे घेत असते. कोणीच नसते ! आणि मग अशा विचारातच एक सुंदर पक्षी भेट देऊन जातो. ह्यावेळी खूप आनंद होतो, भान हरपून जातं.

अशी निरीक्षणाची सवय झाली की पक्षी, कीटकांची नावं कशी ओळखायची हा प्रश्न पडतो. पण आपल्या तज्ज्ञांनी इतकी सुंदर नावं दिलेली आहेत की ती, पक्षी बघितल्यावर लगेचच आठवतात. यामध्ये जंगलात राहणाऱ्या स्थानिक लोकांचाही महत्वाचा वाटा असतो. प्रत्येक प्रांतात एका पक्ष्याला विविध नावे असतात. आणि ती त्या भागातल्या आदिवासींच्या निरीक्षणातून निर्माण होतात. हे शोधण्यातही मजा असते.

उदा. : 'नपिता' हे भारद्वाज या पक्ष्याचे दुसरे नाव आहे; कारण न 'पिता' सुद्धा त्याचे डोळे लाल असतात!

'पेरते व्हा' म्हणून शीळ घालणारा पावशा पक्षी शेतकऱ्यांना सांगत असतो - पेरणीला सुरुवात करा.

'चष्मेवाला' (white eye) पक्ष्याच्या डोळ्याभोवती चष्मा घातल्यासारखी गोल पांढरी किनार असते. बाकी रंग पोपटी असतो.

'स्वर्गीय नर्तक' (paradise flycatcher) नावाचा सुंदर दिसणारा पक्षी आहे. पूर्ण पांढरा रंग, डोक्यावर गडद निळा तुरा असतो, शेपूट शरीराच्या मानाने खूप लांब असते. उडताना ती वेडीवाकडी वळणे घेणारी नुसती पांढरी 'Ribbon' दिसते.





‘खाटिक’ (shrike) नावाचा पक्षी तर त्याच्या घट्याजवळ स्वतःचे खाद्य म्हणून आणलेले किडे झाडांवरील काट्यांमध्ये खोचून ठेवतो आणि नंतर निवांत खात बसतो.

‘हळद्या’ (oriole) - हळदीप्रमाणे पूर्ण पिवळ्या रंगाचा पक्षी जर कोवळ्या उन्हात दिसला तर अजूनच सुंदर दिसतो.

‘टिणगी’ (scarlet minivet) - त्याच्या पोटाचा, पाठीकडचा संपूर्ण भाग हा भडक केशरी, भगव्या रंगाचा दिसतो. जणू झाडावरच आगीची टिणगीच पडली आहे !

ह्या अफाट गोष्टी किडे, साप, बेडूक, सगळ्यांमध्येच असतात. मुंग्यांच्या उंच वारुळांची रचनाही बघण्यासारखी असते. झाडावरही काही मुंग्या (weaver ants) पानांच्या साह्याने घरटी बांधतात. ‘Blue oak leaf’ नावाचं फुलपाखरु संरक्षणासाठी पंख मिटून बसते तेव्हा एखाद्या वाळक्या पानासारखं दिसतं. आणि उडायला लागतं, तेव्हा पाठीकडचा गडद निळा रंग एखाद्या हिऱ्यासारखा उघडझाप होतांना दिसतो.

किरण पुरंदरे यांना ७२ प्रकारच्या पक्ष्यांचे आवाज जसेच्या तसे काढता येतात. त्यांच्याबरोबर जेव्हा आम्ही भटकलो तेव्हा, एखादा सुभग (Iora) पक्षी सुरुवातीला लांबच्या झाडावर बसला होता आणि किरण काका, पक्षी यांच्यात आवाजांचे साद प्रतिसाद चालू होते (जुगलबंदी) आणि एक क्षण असा आला की तो पक्षी तिथून उडून आमच्या जवळच्या झाडावर येऊन बसला ! किरण काकांनी दिलेली काही गमतीदार नावे -

मोर - मोरोपंत पिसारे !

चितळ (टिपके असलेले हरीण) - चितळे बंधू टिपकेवाले!

नुकतेच किरणकाकांबरोबर भिगवणला जाऊन आले. तेथे सगळेच पक्षी पाण्यावर अवलंबून राहणारे होते. (water birds) सोलापूरच्या अलिकडे उजनी धरणाजवळच भिगवण गावातील हे सरोवर (like backwater) अथांग पसरलेले आहे.

हिवाळा हा महिना खास स्थलांतरित पक्ष्यांचा (migratory birds) असतो. मार्च, एप्रिलमध्ये हे पक्षी परत त्यांच्या मूळ ठिकाणी विणीच्या हंगामासाठी (Breeding) जातात. या पक्ष्यांना आपला जोडीदार शोधण्यापूर्वी अंगावर सुंदर नवीन पिसे, आकर्षक रंग प्राप्त होतात (plumage) याचा उपयोग जोडीदाराच्या निवडीसाठी होतो. नरा (male) मध्येच हे रंग दिसून येतात. त्यांच्या मूळ स्थानी जाण्यापूर्वी हे नव्याने आलेले रंग (plumage) बघण्यासाठीच ही सहल आयोजित केली होती. खरोखरच सर्व पक्षी वेगळ्याच नवीन रंगात चमकत होते.

पक्षी बघण्यासाठी स्थानिक लोकांच्या मदतीने आम्ही बोटीतून हिंडलो. वेगवेगळ्या प्रकारचे असंख्य पक्षी बघत होतो, तेवढ्यात दूर लांब अंतरावर गुलाबी टिपक्यांची एक ओळ दिसली. तिने पलिकडील संपूर्ण किनारा व्यापला होता. दुर्बिण लगेच डोळ्यांना लावली. बघितलं तर ते flamingo पक्षी होते ! भिगवण ही

flamingo पक्ष्यांची नेहमीची स्थलांतराची जागा आहे. गुजरात मध्ये वीण (Breeding) होते. पण खाण्याच्या शोधार्थ, हवामानामुळे ते उराविक जागी स्थलांतर करतात. जोडीदारांना आकर्षित करण्यासाठी नरांमध्ये आलेले ते लालसर गुलाबी रंग, निळ्या आकाशाच्या पार्श्वभूमीवर ठळक दिसून येत होते. पाय, चोच दोन्ही लालसर गुलाबी होते. मुख्य शरीर पांढरे, मागच्या बाजूला गुलाबी छटा होती. आमची बोट जशी जवळ येत होती, तसे त्यांचे सौंदर्य जास्त खुलून येत होते. प्रत्येक पक्ष्यात ‘पाणी’ हे राहण्याचे ठिकाण असल्याने शरीरात असलेले बदल (modifications) इतके पूरक होते, की ते पाहताना निसर्ग किती ‘डोकेबाज’ आहे असे वाटते.

Flamingo हे उथळ पाण्यात थांबणारे पक्षी आहेत. त्यामुळे त्यांच्या मुख्य धडाची जागा ही पाण्यापासून वर उंच असायला हवी. यासाठीच त्यांचे पाय खूप लांब असतात. पाण्याचा कमीत कमी रोध होण्यासाठी काठीसारखे बारीक पाय असतात. हे शैवाल (algae) खाणारे पक्षी आहेत. चोचीचा आकार केव्हासारखा असतो. आतल्या बाजूने बारीक काट्यासारखे केस असतात. ज्यामुळे खाताना जास्तीचे पाणी चक्क गाळून घेतले जाते आणि ठरलेला प्राणी गिळतात. मुख्यत्वे थव्याने राहणारे पक्षी आहेत. आम्ही मोजलेली संख्या कमीतकमी १००-१२० होती ! थव्यांमध्ये प्रत्येकाची हालचाल एकसारखी होत होती. आम्ही आल्याने सगळे एकापाठोपाठ एक चालत बाजूला गेले. सगळ्यांचे पाय एकसमान हालत होते. त्यांची मान S आकारात होती. त्यात त्यांचा पांढरा, गुलाबी रंग ! राजेशाही रुबावात ते चालत होते. पुढच्या एका थव्यात सगळ्यांच्या माना खाली होत्या. त्यांचे भोजन चालू होते. अचानक काहीना आमची चाहूल लागली असावी. क्षणार्धात संपूर्ण ६०-७० जण आकाशात झेपावले. एकदम दचकायला झाले. भान हरपले. लाल रंग हा पंखाच्या खालच्या बाजूला असतो, तो उडताना अगदी ठळकपणे दिसला. निळ्या आभाळावर उडलेले नुसते लाल टिपके, पांढऱ्या सरळ झालेल्या लांब माना, आणि मागे गुलाबी एका रेषेतील पाय. काही मिनिटांतच हा शवा मागच्या एका किनाऱ्यावर जाऊन पोहोचला.

पण Flamingo उडून गेल्यामुळे माझे लक्ष बाकीच्या पक्ष्यांकडे तरी गेले ! Astan open bill घोगल्या फोड्या डोक - यालाच स्थानिक लोकांच्या भाषेत ‘भाडकिता’ ही म्हणतात. त्याची चोच गमतीदार असते. दोन जबड्यांमध्ये एक पोकळी असते. दोन्ही जबडे चोचीच्या टोकाला फक्त एकाच बिंदूत टेकतात. याचा उपयोग गोगलगाय, इतर प्राण्यांची टणक कवचे फोडण्यासाठी होतो. ते कवच ‘opener’ सारखे उकलून त्यातील फक्त मऊ प्राणी गिळला जातो.

Eurasian spoonbill - याच्या चोचीच्या टोकाला चमच्यासारखा आकार असतो. प्रथम ते चमचा पाण्यात अर्धवर्तुळाकर फिरवतात. यामुळे पाणी ढवळले जाते आणि मातीतले बाहेर पडणारे अनेक प्राणी, कीटक चोचीने टिपले जातात. ‘Wooly necked stork’ पांढऱ्या मानेचा करकोचा - मान फक्त पांढरी,



बाकी, पंख आणि डोकं काळे असतात. भिगवण मध्ये राहणारे लोक याला 'वकील' म्हणतात.

खाण्याच्या सवयींमध्ये इतर उडणारे पक्षीही हुशार होते. त्यांच्याकडून एकाग्रता शिकण्यासारखी होती. हवेत उडता उडता, अथांग पाण्यातल्या एखाद्या प्राण्याकडे नजर स्थिर करून योग्य क्षणी सूर मारून भक्ष्य पकडणे ही सोपी गोष्ट नाही आणि त्यांचा नेम चुकलेला मी कधीच पाहिला नाही.

दुपारनंतर आम्ही जवळच्या भादलीवाडी गावात गेलो. तिथे स्थानिक पाण-पक्ष्यांची (local water birds) घरटी होती. नुकत्याच झालेल्या गारपिटीमुळे ज्यांची घरटी उद्ध्वस्त झाली होती. त्यांनी परत नव्याने बांधायला सुरुवात केली होती. पंख मोठ्या आकाराचे असलेल्या पक्ष्यांची घरटी झाडाच्या शेंड्यावर तर, लहान पक्षी खालच्या 'मजल्यावर' होते.

Painted stork चित्रबलाक - या पक्ष्यांची मान, डोकं, चोच भगव्या रंगाचे असतात. पण त्यांचे घट्यातले पिल्लू पूर्ण पांढरे होते. कापसाच्या बोळ्यासारखे दिसत होते. दुपारच्या उन्हात पिल्लावर तप्त किरणे पडू नयेत म्हणून नर-मादी पंख पसरून सावली देत होते.

यांसारखे लाखो पक्ष्यांचे थवे ठिकठिकाणी विखुरलेले होते. मध्येच बगळ्यांची माळ, अंबरात विहार करताना दिसायची. असे मन भरून पक्षी बघितल्यामुळे एक वेगळंच समाधान वाटत होतं.

## शिकलं पाहिजे

समुद्रासारखं अथांग होऊन खारटपणा मिळवण्यापेक्षा

नदीसारखं लहान होऊन गोडपणा

मिळवण्यास शिकलं पाहिजे

झाड होऊन मदतीची, मैत्रीची साद

घालणं शिकलं पाहिजे

पर्वत होऊन संकटाचा सामना

निडर होऊन करणं शिकलं पाहिजे

पक्ष्यांप्रमाणे स्वछंदी होऊन

जगणं शिकलं पाहिजे

पृथ्वीकडून निःस्वार्थीपणा

अंगी घाणविणं शिकलं पाहिजे

माणसाशी माणुसकीने वागणं शिकलं पाहिजे.

कसं काय शिकायचे ? हे स्वतःकडून स्वतःसाठी  
शिकलं पाहिजे.

- वेदांग वामन दामोशन (F.Y.B.Com.)

व्यंकटेश माडगूळकरांनी जंगलाबद्दल खूप छान म्हटलं आहे - "जंगल हे एक उघड्या, ताज्या वर्तमानपत्रासारखं असतं, कुठल्याही वाटेवरून गेलं तरी काही ना काही पुढ्यात नवीन वाढून ठेवलेलं असतं." सगळंच अनपेक्षित !

अगदी साध्या गोष्टींमधून निसर्ग शिकवत असतो. आपण फक्त ते ओळखणे गरजेचे असते. यासाठी फक्त जंगलातच भटकण्याची गरज नसते. आपल्या सभोवताली बऱ्या गोष्टी घडतात पण आपल्याला त्याचा पत्ताच लागत नाही. कान आणि डोळे उघडे ठेवले की निसर्गाचा असा आनंद लुटता येतो.

शेवटी 'निसर्ग' या किमयागारापुढे आपण नतमस्तक होतो.

ॐॐॐॐ

## भ्रमणध्वनी

काळाची गरज की व्यसन

तेच कळत नाही,

जवळ तो नसला की

चैन काही पडत नाही.

त्याच्याशिवाय माझे तर

पानसुद्धा हलत नाही

जेवढी त्याला जपते

तेवढी स्वतःलाही जपत नाही.

नजरेसमोर नाहीत जे

त्यांना मनाजवळ आणतो तो,

चेहरा नाहीतर नाही

पण आवाज तरी सेकवतो तो.

दुरुनच का होईना पण

जवळ आणत असतो तो

प्रत्येक नाती कशी

सुंदर फुलवत असतो तो.

कधी गाण्याचें आवाज

तर कधी छोटीशी धुन

सकट्या क्षणांना

जाते ती पुरून...

तासन्तास खोलताना

तोंड कसे दुखत नाही.

पत्रांचे खेळ खेळताना

बोटे कशी तुटत नाहीत...

रस्त्यामध्ये दिसतो तो

प्रत्येकाच्या कानोकानी,

दुसरा-तिसरा कुणी नाही हो,

तो तर आपला 'भ्रमणध्वनी'

- प्राजक्ता केळसकर (T.Y.B.Sc.)



# मी हवेली शनिवारची... !

अनुष्का अ. सुर्डी (द्वितीय वर्ष वाणिज्य)

इतिहास आणि ऐतिहासिक गोष्टी आजच्या पिढीला कंटाळवाण्या वाटतात. माझ्यासारख्यांकडे त्यामुळे दुर्लक्ष होते. पण माझ्या मनातील खंत मी सांगणार तरी कोणाला ? माझ्या मनात भावनांचा उद्रेक झाला आहे. मन मोकळं करणे हा एकच उपाय मला आता दिसत आहे. ऐकाच मग आता माझी गोष्ट.



अजूनही आठवतो मला तो सोनेरी दिवस २८३ वर्षांपूर्वीचा. शनिवार १० जानेवारी १७३० या शुभ मुहूर्तावर माझा पायाभरणी समारंभ पार पडला. माझ्यासाठी लागणारी सामग्री वेगवेगळ्या ठिकाणांहून मागवली गेली. खूप हुशार व अनुभवी कारागीर माझ्यासाठी रात्रंदिवस कष्ट घेत होते. अखेर शनिवार २४ जानेवारी रोजी माझी वास्तुशांत झाली. पायाभरणी व वास्तुशांत हे दोन्ही विधी शनिवारी झाल्यामुळे माझे नाव 'शनिवार वाडा' असे ठेवण्यात आले. आतमध्ये सुंदर असे अनेक महाल, दरबार, वेगवेगळी कारंजी बनविण्यात आली. माझ्या सौंदर्याची ख्याती चारही दिशांना पसरली.

माझे बांधकाम थोरले बाजीराव पेशवे यांनी केले. मी स्वतः अनुभवली आहे बाजीरावांची कर्तबगारी. बाजीरावांनी मराठी साम्राज्याचा विस्तार चारही दिशांना केला. माझ्याकडे अनेक लोक आश्रयाला आले. माझ्या तटावर २७५ शिपाई व पहाऱ्यासाठी ५०० स्वार व अंतर्गत बंदोबस्तासाठी १००० पेक्षा अधिक नोकर होते. रोज कोणी ना कोणी असामी येत असे. राज्यकारभाराचे मनसुबे ठरवले जात. जेवणावळी होत. इथेच मी लग्न, मुंज इत्यादी शुभकार्य होताना पाहिली आहेत. नानासाहेब पेशव्यांच्या काळात रघुनाथराव पेशव्यांनी अटकेवर विजय मिळवून मराठी साम्राज्याच्या सीमा वाढविल्या होत्या तेव्हा मला कोण आनंद झाला ! पण दुर्दैवाने हा आनंद फार काळ टिकला नाही. मराठ्यांवर पानिपतचा महाविध्वंसक रणसंग्राम ओढवला. यामध्ये मराठ्यांना दारुण पराभव पत्करावा लागला.

पानिपतामुळे झालेले नुकसान व पेशवाईवरील अपार कर्जाच्या चिंतेमुळे नानासाहेबांचा मृत्यू ओढवला. १६व्या वर्षी पेशवेपद मिळालेल्या माधवरावांनी बरेचसे कर्ज परत केले. त्यांना फार दगदग सहन करावी लागली. त्यातच त्यांना घरातले हेवेदावे सोडवावे लागले. सततच्या लढाया व घरातील मानसिक त्रासामुळे त्यांना क्षयरोग झाला व त्याकाळी काही उपाय नसल्याने या हरहुन्नरी व तडफदार पेशव्यांचे अकाली निधन झाले. माधवराव पेशव्यांच्या

मृत्यूनंतर पेशवे घराण्याला उतरती कळा लागली व हळूहळू माझे म्हणजेच शनिवारवाड्याचे महत्त्व कमी होऊ लागले. नंतरच्या विलासी पेशव्यांनी निवासासाठी इतर अनेक वाडे बांधले. लोकांचा शनिवारवाड्यातील वावर कमी होऊ लागला आणि १६ नोव्हेंबर १८१७ ला दुसरे बाजीराव पेशवे पुणे

सोडून गेले व पेशव्यांचा माझ्याशी म्हणजेच शनिवारवाड्याशी असलेला संबंध पूर्णपणे तुटला. आणि मी ब्रिटिशांच्या ताब्यात गेलो व तेथे त्यांनी अनेक वेगवेगळ्या कामांसाठी माझा वापर केला.

२१ फेब्रुवारी १८२८ ला शनिवारवाडा आगीच्या भक्ष्यस्थानी पडला व १८ दिवस साजूक तुपात जळत राहिल्यामुळे अस्तित्व धोक्यात आले. एकेकाळी सात मजली असलेला तो शनिवारवाडा व आता फक्त पडके चबुतरे, अस्पष्ट अवशेष ह्या शिवाय काहीच शिल्लक नाही. आता उरलीये ती फक्त तटबंदी. तरीही आताच्या काळात लाईट व साऊंड शो-द्वारे माझा इतिहास सर्वांना सांगितला जातो. आजच्या पिढीतील लोक माझ्याकडे येतात फक्त बसायला जागा हवी म्हणून. प्रेमवीर जेव्हा माझ्या अवशेषांवर आपली नावे लिहितात तेव्हा खूप चीड येते. पण मी दुर्दैवी काही बोलू शकत नाही. एकेकाळी पुण्याचे वैभव असणाऱ्या शनिवारवाड्याला आज असेच जुन्या आठवणीत रमून जगावे लागतेय...

७३७३७३

## SMS to Krishna Bhagawan

हे कृष्ण तू इस कलयुग में आकर तो देख,  
तूने पूरा गौवर्धन पर्वत एक ऊँगली पर उठाया,  
अपने सर पर exam का pressure उठाकर तो देख  
तूने अठारह साल की उम्र में ही कंस मामा को मारा,  
दाऊद और छोटा शकील को हाथ लगाकर तो देख  
तूने थरी महफिल में द्रौपदी को साड़ी पहनाई  
मॉडर्न लड़कियों को एक जोड़ी कपड़े पहनाकर तो देख.

- कमला टाक (S.Y.B. Com.)



## समष्टीचा बंडखोर कवी - नामदेव ढसाळ

सोनाली किसन आंधरे (एम.ए. मराठी द्वितीय वर्ष)



कधी नव्हे ते आता । आयुष्य मला आवडू लागलं आहे ।

प्रत्येकाच्या हृदयात मी कोरून ठेवली आहे ।  
माझ्यासाठी जागा ।

आणि सहजगत्या । मातीच्या वैभवात जीव पडला  
आहे अडकून ।

... असे लिहिणाऱ्या 'नामदेव ढसाळ' नामक  
महाकवीने मराठी कवितेवर प्रेम करणाऱ्या प्रत्येकाच्या  
हृदयात आपली जागा कोरून ठेवून कळत-नकळत निरोप  
घेतला तो अखेरचा !

३० वर्षांपासून 'मायस्थेनिया ग्रेव्हिस' या आजाराला ज्या  
दिमाखाचे त्यांनी तोंड दिले ते शस्त्र सहा-सात महिन्यांपूर्वी उद्ध्वलेल्या  
कर्करोगावर त्यांनी फिरवायला हवे होते.

आक्रमक, रसभरली आणि जिवंतभाषा ही त्यांची आणि त्यांचे  
प्रतिबिंब असलेल्या कवितेची विशेष ओळख होती. भाषेसंबंधीची  
त्यांची एक ठाम भूमिका कायम त्यांच्या लेखणीतून प्रकटत राहिली.  
चिकित्सा आणि विद्रोह मांडत अधोलोकाच्या भाषेलाच त्यांनी  
हत्कार केले. केवळ भाषेतूनच नव्हे तर सर्वदूर अगदी गावखेड्यांपासून  
ते नगरे-महानगरांपर्यंतच्या अधोविश्वाच्या जगण्याला साहित्य  
व्यवहाराच्या केंद्रस्थानी आणून त्यांनी अभिजनवादी सांस्कृतिक  
व्यवहाराला शह दिला. ज्ञानप्रक्रिया, सृजनप्रक्रिया, इतिहास प्रक्रिया  
यांपासून वंचित ठेवल्या गेलेल्या भणगांच्या, कष्टकऱ्यांच्या, गुन्हेगारांच्या,  
वेश्यांच्या, श्रमिकांच्या जगण्याला त्यांनी सन्मानाचे आणि अस्मितेचे  
नवे स्वतंत्र अवकाश मिळवून दिले.

प्रस्थापित मराठी साहित्याला अनेक प्रकारांनी हादरे देऊन  
जातीव्यवस्थेच्या विरोधात सत्तरच्या दशकात लढाऊ संघटना उभारून  
दलितांच्या मानवमुक्तीच्या लढ्याला त्यांनी वाचा फोडली.

१९९७ जुलै-ऑगस्ट चा 'अनुष्ठुभ' हा अंक 'नामदेव ढसाळ'  
विशेषांक आहे. यासाठी प्रज्ञा दया पवार आणि डॉ. सतीश काळसेकर  
यांनी ढसाळांची प्रदीर्घ मुलाखत घेतली होती. काही कारणांमुळे ती  
पूर्ण रूपात त्या अंकात प्रकाशित होऊ न शकल्यानंतर त्या  
मुलाखतीचा उपयोग ढसाळांनी 'मी भयंकराच्या दरवाजात उभा  
आहे' या त्यांच्या कवितासंग्रहात केला. त्यांच्या या कविता संग्रहात  
२००७ पर्यंतची कवितेतील सर्व स्थित्यंतरे पाहायला मिळतात.  
'गोलपिठा' पासून 'निर्वाणा अगोदरची पीडा' 'चिंध्यांची देवी' आणि

इतर कविता पर्यंत त्यांची कविता अधिकाधिक खोल-  
खोल गतेंत शिरून विचारांची शकले तयार करून  
पुढे-पुढेच जाताना दिसते.

डॉ. सतीश काळसेकर म्हणाले होते,  
"लघुअनियतकालिकांच्या चळवळीतला शेवटचा  
'मालुसरा' म्हणजे नामदेव ढसाळ." त्यांच्या  
आयुष्यातील उभारीची सगळी वर्षे त्यांनी केवळ  
चळवळीसाठी समर्पित केली आणि त्यातील वेदना, विद्रोह

कवितेत सहजरीत्या प्रकटत गेला. म्हणूनच त्यांची कविता ही  
कोणत्याही छोट्या आणि सशक्त असलेल्या कप्प्यामध्ये बंद करता  
येत नाही. त्यांचे साहित्यिक कर्तृत्व हे मराठी भाषेच्या मोठ्या  
पटावरच विचारात घ्यावे लागते. कवितेतील नामदेव नितांत प्रामाणिक  
आहेत. राजकीय वर्तनातही त्यांचे वरवरचे दुर्भंगलेपण दिसत असले  
तरी त्यांनी आपला सर्वहाराचा लढा आणि शोषितांविरुद्धचा  
सर्वांगीण संघर्ष कधीही कवितेतून नजरेआड केला नाही. हे त्यांचा  
कोणताही कवितासंग्रह समोर ठेवला तरी समजते.

'गोलपिठा', 'मूर्ख म्हाताऱ्याने डोंगर हलवले' किंवा 'आमच्या  
इतिहासातील एक अपरिहार्य पात्र : प्रियदर्शिनी' या कवितासंग्रहातील  
कवितेत, किंबहुना सगळ्याच कवितेत त्यांचा सर्व वर्गात, जाती-  
जमाती, कष्टकरी, शेतकरी या सगळ्यांना सामावून घेण्याचाच  
प्रयत्न दिसतो. त्यांच्या एका लेखसंग्रहाचे नावही 'सर्व काही  
समष्टीसाठी' असे आहे. त्यामुळे नेहमीच्या पठडीतल्या अर्थाने  
ढसाळ हे विशिष्ट जातीतल्या लोकांच्या शोषणाविषयी बोलतात,  
असे म्हणता येत नाही. त्यांनी स्वतःही त्यांच्या 'दलित पँथर'  
संदर्भातल्या लेखनात, मुलाखतीतून आणि अन्य लेखनात हे स्पष्टपणे  
सांगितले आहे.

बाराव्या शतकापासून सतराव्या शतकापर्यंतच्या काळात मराठी  
कविता एका वेगळ्या दिमाखदार ऊर्जेने आपले अस्तित्व टिकवून  
होती. नंतरच्या काळात काही अपवाद वगळता पुन्हा मराठी साहित्य  
हे वेगळ्या उच्चवर्णीय, उच्चवर्गीयांच्या मिरासदारीत गुंतत गेले.  
पुन्हा एकोणिसाव्या शतकात बंड झाले. महात्मा फुले, लोकहितवादी,  
महर्षी शिंदे, आणि डॉ. आंबेडकर यांनी पुन्हा मराठी संत परंपरेच्या  
दीर्घकालीन लेखनाशी जोडून घेण्याचा प्रयत्न केलेला दिसतो. हे  
सर्व परिचित आहे की, मधल्या काळातले अनेक आवाज त्या  
काळात दबून गेले, नव्हे तर दाबले गेले. मात्र त्यानंतरचा प्रस्थापित



साहित्याविरुद्धचा पहिला अत्यंत जोराचा लढा १९६० नंतर प्रकर्षाने उभारून आलेला आहे. आणि १९६० पासून जवळजवळ १९७५ पर्यंत प्रस्थापित साहित्याविरुद्धचा सगळा उठाव ढसाळांच्या कवितेच्या आरंभी दिसून येतो. मराठी साहित्याच्या गेल्या ५० वर्षांतील पूरक काळ ढसाळांच्या साहित्याला अत्यंत पूरक ठरला. त्यांची कविता आरंभीच्या काळात अधिक आक्रमक वाटते, आणि नंतरच्या काळात अधिकाधिक समजूतदार होत प्रगल्भतेचे नवे वळण घेऊन नव्या क्षितिजाकडे झेपावताना दिसते. म्हणूनच नामदेव ढसाळ हे काही केवळ शब्दांचे कवी नव्हते, तर डायनामाईट त्यांच्या कवितेत ठासून भरलेले होते. विषमतावादी मूल्यव्यवस्थेला सुरूंग लावणारे हे महाकवी होते.

निव्वळ परिचय असून जीवनदृष्टी तयार होत नाही यासाठी सखोल चिंतनाची गरज असते आणि ते ढसाळांकडे होते. त्यांच्या चिंतनाचा आवाका वाढत गेला तसे त्यांना 'गोलपिठा'तल्या भाषेतून बाहेर येणे अपरिहार्य वाटू लागले. 'गोलपिठा'तील भाषा त्यांना व्यापक चिंतनाला अपुरी वाटू लागल्याने त्यांनी प्रमाण भाषेचा वापर वाढवत ठेवला आणि प्रमाण भाषेलाही व्यापक परिमाण त्यांनी मिळवून दिले.

दैर्घ्येन जीवनातल्या 'पाणी' या अतिसंवेदनशील विषयावर कविता लिहून प्रश्न उभे केले...

हे छळकऱ्यांनो,

पाण्यासारखं सुंदर कर्तव्य दुसरं कुठलंच नस्तं जगात .

पाणीटंचाई आली तर

तुम्ही शर्तासारखी शहरं बदलता

मग सांगा पाण्यावाचून तडफडून मरणान्यांनी

काय बदलावं... ??

टॅक्सी ड्रायव्हर ते महाकवी असा प्रवास करणारे ढसाळ अगदी लहानपणापासूनच उपेक्षितांचे जगणे जगत आले तरीही त्याचा उदो उदो न करता झेलत राहिले वास्तवाला आणि समाजव्यवस्थेला.

मी नाही लपवले सत्य । मी नाही चोरली जात ।

जे काही होते आणि आहे ते मी खुल्लमखुल्ला सांगितले ।

अंगावरली सर्व लकऱे फेकून ।

मी झालो गर्भाशयातून बाहेर पडणाऱ्या लहानुल्या

मुलासारखा नवा ।

... असे त्यांनी अगदी प्रांजळपणे सांगितले. 'या सत्तेत जीव रमत नाही' असे म्हणणारे ढसाळ सत्तेच्या परिघात समाविष्ट होऊन उपेक्षितांना न्याय मिळवून देताना सतत पेटून उठलेले दिसले.

खाण्यामध्ये चोखंदळ असणाऱ्या ढसाळांना भाकरीच्या एका तुकड्यासाठीही पारखे रहावे लागले तेव्हा ते लिहितात...

'ज्या भाकरीने सदासर्वकाळ सतावले ।

ती भाकरी करू शकली नाही माझा पराभव ।

मी उजागर केली जगण्यावरची निष्ठा ।

आणि लिहिले जगण्याचे शुद्ध अभंग ।

माणसातल्या माणूसपणावर त्यांनी नितांत प्रेम केले. या माणसाने कधीच मानवधर्म सोडू नये अशी गाथा सांगणारी त्यांची कविता...

'आभाळाला आजोबा अन् जमिनीला आजी मानून

त्यांच्या कुशीत । गुण्यागोविंदाने आनंदाने रहावे ।

चंद्रसूर्य फिके पडतील असे सचेत कार्य करावे ।

एक तीळ सर्वांनी करडून खावा माणसावर सूक्त रचावे ।

या महाकवीला सहकार महर्षी विखे पाटील साहित्य पुरस्कार, साहित्य अकादमी-जीवनगौरव, गंगाधर गाडगीळ साहित्य पुरस्कार, डॉ. आंबेडकर पुरस्कार, पुणे विद्यापीठाचा जीवन साधना पुरस्कार २०१० प्राप्त झाला, इतकेच नाही तर ते पद्मश्री पुरस्काराने सन्मानित झालेले ज्येष्ठ साहित्यिक, विचारवंत आणि दलित पंथरचे संस्थापक होते. त्यांच्या साहित्य संपदा आणि कविता संग्रहांचे धावते दर्शन...

गोलपिठा १९७२, मूर्ख म्हाताऱ्याने डोंगर हलविले १९७५, आमच्या इतिहासातील एक अपरिहार्य पात्र : प्रियदर्शिनी १९७६, तुही यत्ता कंची १९८१, खेळ १९८३, गांडू बगिचा १९८६, या सत्तेत जीव रमत नाही १९९५, मी मारले सूर्याच्या रथाचे सात घोडे २००५, तुझे बोट धरून चाललो आहे मी २००६, मी भयंकराच्या दरवाजात उभा आहे (निवडक कविता) - संपा. सतीश काळसेकर २००७, निर्वाणा अगोदरची पीडा २००९... इतका व्यापक आराखडा असलेल्या ढसाळांच्या कवितांचे अनेक भाषांमध्ये अनुवाद झाले.

'नामदेव ढसाळ - पोएट ऑफ दि अंडरवर्ल्ड : दिलीप चित्रे', 'हमारे इतिहास का अपरिहार्य चरित्र : प्रियदर्शिनी' रतनलाल सोनग्रा. तर त्यांच्या गाजलेल्या आणि समाजाचे जळजळीत वास्तव उघडे करणाऱ्या 'हाडकी हाडवळा' १९८१, निगेटिव्ह स्पेस १९८७ या बहुचर्चित कादंबऱ्या, याशिवाय त्यांनी अन्य गद्यलेखनही केले. आंधळे शतक १९९५, आंबेडकरी चळवळ आणि सोशालिस्ट कम्युनिस्ट २००६, सर्व काही समष्टीसाठी २००६, बुद्ध धर्म आणि शेष प्रश्न.

... या सर्व शब्दप्रतिभेतून, शब्दरचनेतून नामदेव ढसाळ नामक बंडखोर कवी अलगद कधीही न परतण्यासाठी जगाच्या पाठीवर स्वार झाला. आणि आपण सारे फक्त बघतच राहिलो, नव्हे तर तेवढेच आपल्या नशिबी आले.

प्रकाश आणि काळोखाच्या दरम्यान

प्रेम आणि दुःखाच्या दरम्यान

मी वेदनेनंतरची जागा कवितेला दिली,

मी असे साक्षात

स्वतःला पेरून टाकले जमिनीत

आणि बांधावर उभे राहून

वाट बघत राहिलो

स्वतःच्या उगवण्याची...

७३७७७



## Modern PAST Meets PRESENT

### कालचे 'मॉडर्न' आजच्या भेटीला



Mr. Abhay Lalwani and Mr. Sandeep Katkar are office bearers of the Alumni Association of Moern College of Arts, Science and Commerce, Pune 5. Here are excerpts from their conversation with our present students.

#### In Conversation with Mr. Abhaykumar Lalwani

**Mrunalini Chaturvedi (S.Y.B.Com.)**  
**Prerana Kokare (T.Y.B.Com.)**

**Q.1** Could you share your fond memories of Modern College ?

I worked as secretary of Commerce Association for two years. The activity I enjoyed most was preparation and publication of wallpaper 'COM'. It was a good opportunity for us to collect latest information about current events and present it in a creative way. It was read and appreciated by students of all faculties. The memorable event was 'my interview' for the best student trophy. It made me aware of my strengths and weaknesses.

**Q.2** Please give us an event when you felt proud of being past student of Modern College ?

It was when I appeared for a written test in one of the automobile industries in Pune city. I scored 29/30. But I was sure of my 100% correct answers. I requested the manager to recheck it. He told me I was right and asked me "Which college are you from?" I felt very proud to tell him that I was a 'Modern College Product'!

**Q.3** What more do you remember about our college?

I must say, I loved attending lectures. Our teachers were sincere and talented. I appreciated their efforts to share latest knowledge with us. We were trained to be 'updated'.

Library was good and provided prompt service. We were exposed to areas beyond syllabus through field visits, group discussion, role play presentations etc.

The knowledge, training and the practical exposure we had, has helped me a lot in shaping and managing my businesses organisation.



**Name :** Abhaykumar M. Lalwani

**Education :** B.Com., D.M.M. (Marketing), A.D.C.S.S.A.A. Bombay Technical Board

**Academic Activity :** Trading in Education Books and Stationery.

**Firms :** Abhay Traders and Abhay Stationers

**Social Activities :** Chairman, School Committee, Anand Gurukul, Wadebolhai, Pune.

**Founder Member,** Arihant Jagruti Manch, Pune.

**Managing Committee Member,** Pune Stationery, Cutlery and General Merchants Association (SCAGMA)

**Secretary,** Pune Booksellers' Association.

**Core Competencies :** Organisational Skills  
Inspirational Training

**Interests and Hobbies :** Traveling, Meditation

**Passion :** Business (Since childhood)



## In Conversation with Mr. Sanjay Katkar

Snehal Patil (MCA (Sc.) Part II)

Shweta Shetty (M.Sc. Com. I)

Q) Sir, How does it feel to be an alumini of Modern College ?

→ It feels great ! I completed BCS from Modern College. My first encounter with computers was in Modern College, which was a great pleasure for me.

Q) What were your sweet memories in Modern college ?

→ I still remember the fun fair / celebration week we celebrated in last year of BCS and the cultural events we used to enjoy. We had an opportunity to interact with the Principal and the Vice-Principals. All the teachers helped us Apart from that I remember that Chandrashekhar Prof. had organized Inter-collegiate programming competition and we got to interact with the students of other colleges. An exhibition was organised in college premises.

Q) Any incident or even that took place in your life due to the influence of Modern College?

→ Yes, a very important influence that I had in my life was when I was doing graduation in Modern College. I was asked to give a seminar on "How viruses infect PCs and how to cure them." That is when I started studying viruses and how to clean them all. I presented a paper. That laid down the foundation of my career, as later, I stated working with security solution for viruses. That presentation proved to be a turning point.

Q) What was the status of our college at your time?

→ At that time very few colleges BCS course and Modern College was one of them . I had third batch of BCS students of Modern College.

Q) What all facilities existed in Modern college at your time ?

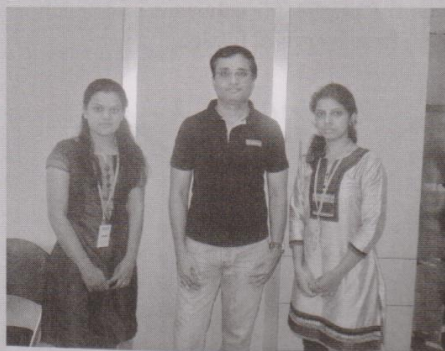
→ The teachers were very helpful and flexible. In case of power failure we were allowed to complete our practicals on Saturday and Sundays. All interested students were given extra time in laboratory. Computers were very costly then and we did not have computers at home, but teachers fully co-operated.

Q) What are your future plans ?

→ I wish to expand and 'Go Global'.

Q) What will be your message and suggestions to the aspiring IT graduate students?

→ My message would be "Think creative, practice creative ideas. Don't hesitate to ask for help from seniors". There is a need to go beyond college education. There is tough competition. Many MNC's are in the market but there is scope for Indian system developers. Yes, I am happy to represent past students in the formal M.A.A. This provides a formal channel to many past students to be a part of college development.





# Crystallography

Nabhraj B. Pachorkar. (S.Y. Bsc)



## Introduction

The science of crystallography has played a key role in understanding why and how atoms crystallise both in pre-existing natural structures and manmade materials. Crystals are everywhere, in teeth, bones, medicines, optics, electronic chips, jewels, cultural artifacts, cosmetics and food. Crystallography has transformed both engineering and the physical sciences, even paving the way to modern biology, having played a crucial part in the discovery of structure of DNA.

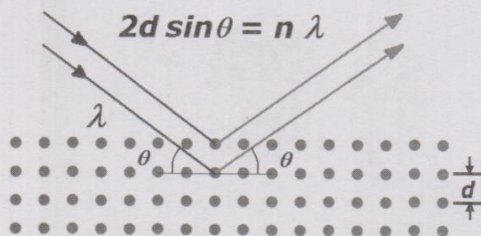
100 years ago, that is in 1914, William Lawrence Bragg and his father Sir William Henry Bragg determined the crystal structures beginning with NaCl, ZnS and Diamond. The father and son were awarded the Nobel Prize in Physics in 1915 for their discovery. So 2014 is declared as the International Year of Crystallography.

## Crystallography

Crystallography is the science that describes crystal forms using geometry and symmetry and describes how atoms are arranged in structures to form crystals. It is an underpinning technology used routinely for the development of practically all new materials. Using energetic beams of electrons X-rays and neutrons to irradiate materials, scientists can detect the interference (diffraction) of those beams with the material and reconstruct the arrangements of the atomic crystals.

## Bragg's law

Crystallography is based on Bragg's law. Bragg's law gives the angles for coherent and incoherent scattering from a crystal lattice.



Bragg's law is expressed as –

$$n\lambda = 2d\sin\theta$$

where,  $n$  is an integer,  $\lambda$  is the wavelength of incident wave,  $d$  is the spacing between planes in the atomic lattice and  $\theta$  is the angle between incident ray and the scattering planes.

X-ray crystallography is a method of determining the arrangement of atoms within a crystal in which a beam of X-ray strikes a crystal and diffracts into many specific directions.

## Procedure of X-ray crystallography

The crystal is brought into the vicinity of the X-rays introduced by an X-ray source. The diffraction from the crystal is made possible. The diffracted beam is observed upon the collecting photographic film.

## Applications of X-ray crystallography

It is mainly used to predict arrangement of atoms within large biological macromolecules. It determines  $x$ ,  $y$ ,  $z$  coordinates of all atoms. It is used to find 3D structure of a molecule so that it can be docked with ligand molecule.

It is used to identify crystalline species and therefore in mineral identification, control of quality of electronic components, of crystals for X-rays monochromators. In general to identify phases, their evolutions during thermal treatments, etc. and to investigate the optical, electric, magnetic, mechanical properties of materials.

## Uses of Neutron and Electron crystallography

Neutron crystallography is used to help refine structures obtained by X-ray methods or to solve a specific bond. The methods are often viewed as complementary as X-rays are sensitive to electron positions and scatter most strongly off heavy atoms while neutrons are sensitive to nucleus positions and scatter strongly off many light isotopes including hydrogen and deuterium. Electron crystallography has been used to determine some protein structures, most notably membrane proteins and viral capsids.

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## A New Companion or An enemy ?

*Ruchira Dandekar (F.Y.J.C. Commerce)*



'Social Networking'-when these two terms strike our mind we become so excited. These two terms have revolutionalized our lives. These days terms like 'Facebook', 'twitter', 'Youtube' are in trend. Our world revolves around social sites. Like every coin has two sides, even social networking has its own pros and cons.

Our elders say it's a bane because it has pulled most of the youth away from their responsibilities. We youngsters think it's a boon because we are able to be in touch with our friends. So now the question arises whether social networking is a boon or a bane?

I am of the outlook that social networking is a bane for today's generation. We have so much work to do in our respective lives, but we waste loads of time here on social sites and why are we not realizing that is a prosthetic world of fake likes and comments! Man made social sites and technically he should be changing them according to his needs, but today we are changing according to the new trends from social sites. Now we need to think who is at loss here. It is definitely not the creators of social sites it's we who are going to face the consequences later on -

I really marvel if a completely random person came up to you on the street and asked to be your friend, would you say yes? or would you put down your head and walk away. What if the completely random person asked to be our friend on facebook? We feel so thrilled!! True?? Thus this world of social networking is perilous and forged because you never know with what sort of person you are hooked on with! By taking a glimpse of social sites we think ourselves as the king here... but after some days we culminate into being webbed.

I sometimes do agree that Social Networking is of great help, as there are no expenses. We are able to stay in contact with the world. We get news...information... social updates in just a few clicks and it's good for maintaining and renewing relationships. But honestly who cares about relationships? What we want is just a sort of entertainment. You may not want to admit it. But I am pretty certain that we all stalk people via internet. You can come to know so much about someone's private life... it boggles my mind!! Most importantly some people need to realize that

"Facebook is a social Networking site and not a Diary." We can't keep orbiting around it. We need to prioritize and that's what we don't do.

The epitome of the disadvantage of social media is that it's very easy for some of the awful people to say terrible things by hiding behind a computer screen. But they are not brave enough to say in reality. Trolling or cyber-bullying has opened up a whole new world of nastiness and cruelty.

We youngsters go and share number of secrets, problems with people we hardly know. We don't realize that we have wonderful parents right at hand who are far more understanding and trust-worthy than the facebook friends!!

I truly believe that social sites have ruined the inter-personal relation between people leading to loneliness in life. We update our status time to time but when our mother asks, 'How was our day?' we don't utter a single word and exclaim that we are busy... Strange!

Friends, we need to change our perspective about social networking sites. Someone once said, "A man with an internet connection thinks that his every thought and every action sounds like a tweet and status update."

There was the Stone Age, the Bronze Age and the Iron Age - all the turning points of history of mankind. Now, how should the Virtual Age etch itself in the history of mankind depends on us - The choice is ours now!

Thus social networking sites are a part of leisure, don't give up your life to it. And remember "We don't have choice whether we do / not to do social media. The question is how well we do it!"

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### ABILITY

As we advance in life, we learn the limits of our abilities.

*- James Froude*

There is something that is much more scarce, something rarer than ability. It is the ability to recognize ability.

*- Robert Half*



## 'MODERN' Gets Innovative

Shaikh Salim Md. E. (T.Y.B.Sc. Botany)

India is the second name of innovation. Innovation for many people means differently but for us it solely means the action of execution of existing thing in a different way that will benefit the society. Although new inventions in India are the need of time, we can't ignore the buds of innovation. In this article, I'll be talking about innovation, entrepreneurship and our journey.

Once a person asked me about innovation, from where does it come? Then I simply answered to him that innovation is nothing like Apple iPhone or any foreign brand. It comes from within your soul. There are many versions of innovation viz. social, scientific, religious, etc. So I'll suggest to all the readers that they should be an innovator at least once in their life. Being an entrepreneur is the next step after innovation. It is an art and a science of how we manage ourselves to be an entrepreneur by doing innovation. You might be knowing many famous examples of entrepreneurs like J.R.D. Tata, Kirloskar brothers, Shri. Dhirubhai Ambani, Shri. Mahindra and K. Narayanmurti of Infosys. They were all innovators and inventors first. I'll proceed to the main journey which I have travelled and still travelling. In the first year of my graduation I heard that doing only your academics is not sufficient for our overall development.

Following this, I came to know about an event or project competition named "Ignited Innovators of India" organised by 'Bhau Institute of Innovation Entrepreneurship and Leadership' in association with College of Engineering, Pune and Eaton, India which is held each year and it's an open competition for all colleges and all streams in India. I got entry in this event as a participant with only one project. Our college was among the few science colleges participating. I decided to be an ambassador from our college winning prize for our Modern College. My ambassador team worked hard and harder and was able to acquire 26 projects from our college that were among 250 projects nationwide. 6 projects got place in top 50's and 3 projects in top 25 and out of 3 under my ambassadorship our college got 2 first prizes at National level. First one is from Agriculture

category named 'Cellulose degradation using soil microorganism' by Saili Kirtiwar and team from Botany department of our college. Second prize from environment category named 'BOOND' by myself and my team from Botany department. In three years of successive participation we submitted and completed more than 10 projects and acquired 12 ambassador medal and two first prizes.

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### A YEAR

*A year rolls by, gains by, loses by,  
Speaking of an untold speech;  
A blurred gleam directing,  
Forever it's realm to realize.*

*A year unveiled with admiration,  
Of joy unleashing its entirety;  
A glimpse of satisfaction on faces,  
Fomenting a year end, for a blissful millennium.*

*A dearth of sanctity on the contrary,  
Leading to an acme of hypocrites;  
Several lewd hints evoking soot,  
Fortifying a deluge of cries.*

*A year has ended, ended its days,  
Some fought, some gave in,  
Emulators being truth and falsity,  
A new year born to be borne.*

- Sayani Biswas  
F.Y.B.A.



## We are the Change

Ishwari Murudkar (XI)



Elections have arrived. Soon our parents or some of my friends will have to vote for a representative. Therefore, nowadays we see many of us discuss about this prevailing political environment. This is the time when we wake up from sound sleep which lasts for four years. Then the next one year we are busy reacting on the many happenings taking place in the country. Soon the government, ministers ruling, national parties and social unrest becomes a problem. But if we give a brief look at those four years, we come to know that we are worried about the decreasing purchasing power, the number of reserved gas cylinders granted by government whether 9 or 12? Will Mr. Kejriwal be able to run the government and many such questions. I mean we are just worried about grants offered by Government. Do we ever think that it is mere self centered thinking? If you are thinking it isn't, then I must say you are abandoned. You have to give up the spirit. And by doing this you are encouraging or helping in the wrong doing.

When we utter a word 'election' then our brain imagines the picture where assemblies are conducted, relics are taken out and people are shouting slogans. The cycle of unfaithful nature stands before us. Like I said before about self-centered thinking, the same thinking process is applied to our politicians. They are just selfish. Simply giving assurances before millions of us, letting us dream a picture which cannot be turned into reality, just to be enjoyed as a fantasy. The picture that comes before us after elections is just the opposite. Opposite to that fantasy, that dream, killing the hope arising within us.

Politicians acquire high positions from where they can pull wards of cash in whichever quantity they desire. According to a survey, about 30 percent of members of the Lok Sabha have indulged in serious offence cases. This exhibits that terrorists are not born in neighboring countries. A politician is not an inch less even dangerous than a terrorist. After being through all this, committing crime, they can still stand for elections. And you know who is responsible for this? WE.

It is we who are the real culprits. The right of voting is used by us. Our great ancestors fought for

the independence of our country, they formed the constitution which guarantees us several fundamental rights. This was how Indian democracy was formed. But while facing this humiliations, I personally feel that they made a mistake. They were wrong in giving us this valuable opportunity. Right? Many of us are least interested in implementing this right. We wish, we long for development in our country. This is possible if we are able to select the right candidate. We have the power to vote, so use it. It is simply of a power to vote but it is an invincible power which can eradicate unemployment, poverty, inflation, population explosion and inequality among us. All that we require is a good leader. The one who will bring our dreams into reality. Have we all decided to live ascetic lives? No, so don't abstain. Bring democracy and not anarchy. Don't abdicate this prime duty. So let's take a path to vote for our representative.

It reminds me about a dream of a great poet Rabindranath Tagore who expressed it in the form of poem in the well-known Geetanjali. I pray and have faith that we all dream same and exercise our rights properly to get justice.

*"Where the mind is without fear  
and the head is held high;  
Where knowledge is free;  
Where the world has not been  
broken up into fragments by  
narrow domestic walls  
Where words come out from  
the depth of truth;  
Where tireless striving stretches  
its arms towards perfection  
Where the clear stream of reason  
has not lost its way into the dreary  
desert sand of dead habit;  
Where the mind is lead forward by thee  
into ever-widening thought and action  
Into that heaven of freedom, my father,  
Let my country awake."*

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## International Youth Conference at Bremen - An experience

Manoj Joshi (XII G, Commerce)

Yes it was a dream come true !!! From the time I was in the 9th grade I dreamt about going to Germany. Finally in 2013 ,in the 12th grade my dream came true.The opportunity was given by PASCH,Bangalore .It was an Environmental youth conference "Greening with Goethe" which was held in Bremen, Germany. Many Indian students from Bangalore ,Chennai,Hyderabad, Delhi,

Trivandrum and Pune, and German students from Ahrensburg, Vreden, Darmstadt, Heidenheim, and Bremen participated in the conference .Everybody had their own ideas about environment conservation.

Each college was supposed to send a pair of students with their environmental project .From our college Mansi Patil(12<sup>th</sup> Science ) and I (12<sup>th</sup> Commerce). We worked under the guidance of Prof. Narendra Naidu (HOD of Zoology Dept., Botany Dept.) and Sanjeevani Kuvalekar (HOD of German Dept). While deciding the topic there were a number of ideas whirling through my mind. After discussing with Prof.Narendra Naidu we came up with an idea of HOTEL FOOD WASTE MANAGEMENT. Initially I didn't find the topic very interesting as I wondered what Environmental problems could be there in hotel food waste .Later when we started working on the project

I understood the magnitude of the various environmental problems that were generated due to hotel food waste. The topic became much more interesting due the methods which we were using to collect the information

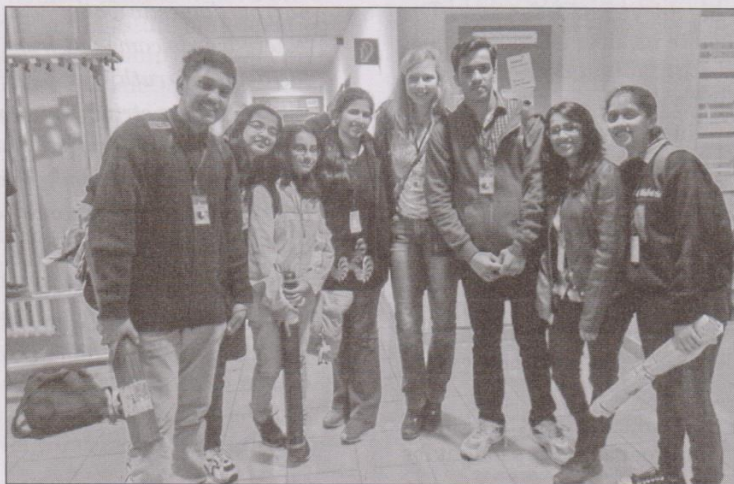


.Hats off to Naidu sir's Creativity and his Innovative Ideas .We went to number of hotels with our questionnaire and asked the owners/managers various questions regarding their hotel food waste management .Interacting with unknown people was a different experience as some of them were very nice but few were little rude and reluctant to speak .We also met with a few experts with experience in

this field .They explained various things to us .How the waste is to be processed , how it is actually done in our city, etc. We also visited different Biogas plants and vermicompost plants. That too was an amazing experience. We also made a poster. It was important as it displayed our whole project . After a lot of hard work and patience we completed the project. Everything was done passports ,visa ,all the formalities.

And finally it was 26 November. Time for our flight. I was extremely excited. After all it was my first foreign trip. We were 6 students in all from Pune. We hired a Tempo Traveller which dropped us at Mumbai airport. We all had met before in Max Mueller Bhavan .It was only 10 pm and we were already at Mumbai Airport and our Flight was at 1.35 am (27.11.2013).So we had a lot of time to

spend with each other on the airport .After check in we all roamed around the airport ,chatting with each other about our college life ,etc .Mumbai airport was quite big ,modern and well equipped .And now it was time for our





flight LUFTHANSA LH765. It was impressed by their service. After flying 9 hours we landed at MUNICH international airport. It was a beautiful and attractive airport. At that time the outside temperature was -9 degree celsius. We went out to enjoy the weather and actually liked it. But later on I started shivering. From there we had our connecting flight to Bremen after 2 hours. Until then we spent time 'window shopping' at the airport. As it was Christmas season, all the shops were beautifully decorated.

We had Mrs. Andrea Schaefer (Head of Pasch Bangalore) to receive us at the Bremen airport. From there we went to the youth hostel. It was just beside the river where we had a very beautiful view. It was noon. We kept our luggage in our rooms and then we had rice and potato for lunch. It wasn't very appetising. The next day we had nothing much to do because many of the other participants were yet to arrive. So in the evening we all Pune-kars went for a stroll. Later on I met my roommates they were all from Bangalore. They were nice, all were in the 10th grade. The next day we had our visit to the BREMEN university. To my surprise the university was huge and the infrastructure facility was excellent. And as an icing on the cake we got a chance to do an experiment in the laboratory. It was about Solar energy.

The next day we had our INTERCULTURAL seminar, where exchange of cultural ideas took place. Then many debates were carried and small skits were presented by us. On the same day we had our city tour. I saw many cathedrals, city market, commerce building, mayor's building, town hall, and many other places. This tour was very amazing. As we were roaming we experienced a few showers. It was a memorable experience. In the evening we had a small inaugural party at the hostel itself. Before city tour we visited a German vocational school. Later in the evening we had dinner and after that we danced on German and Bollywood songs.

#### **DAY 1: Conference**

While going to the university I was very nervous about the conference. We had a poster competition. So we displayed our posters and then the chief guests and other scientists were taking a look. After that we had quiz competition about all the posters. Unfortunately I couldn't win it, but Mansi Patil got a prize for the same. Then all the Chief guests

gave wonderful speeches. But the best speech was given by the Indian Ambassador Vijay Gokhale, truly awesome and inspirational. I was feeling proud that he was from Pune. Then we had our lunch made by the chefs in university. It had a rich Indian flavour. After that we had our presentations. Till now all my nervousness had gone away. I don't know how. We all were divided into groups according to our topics. We did presentation very well. The presentations of other participants was also very good. Everybody had different topics and ideas. All were appreciated. At the end of the day we had photo session.

Later in the evening we all went for shopping in Christmas market. I bought many chocolates, gifts for my friends and family. For the first time I enjoyed shopping.

#### **DAY 2 of Conference**

We had Workshops in which we all students and scientists discussed about various environmental problems and solutions we also discussed the ways in which we could spread awareness and what all we can do as an individual to save our environment. Many problems surfaced and finally a Declaration was prepared. We all signed it and took the pledge of saving our Environment. Then we had prize distribution for posters and speeches by the organisers. Speeches by scientists, motivated us to work for the environment.

After that we went back to hostel. We all were happy and sad, happy because we all had enjoyed and successfully participated in the conference, sad because next morning we all were going to leave for our respective cities. We exchanged each other's mail id, phone numbers, facebook id etc, and clicked photos with each other. The next day morning we had our flight to Munich and from there to Pune via Delhi.

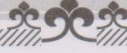
It was the best and wonderful experience of my life. I made many new friends, learnt more about German culture. The knowledge given by scientists is invaluable. These all things will remain with me till the end of my life. For this I would like to thank PASCH, its coordinator Mrs. Janaki Waldraff, Naina Pawar, Modern College, Naidu sir without whom this project was impossible, Kuvalekar madam, the Best teacher I have ever met. And last but not the least my Mother and my family.

☺☺☺



## Raghuram Rajan

Somnath Chadchane (S.Y.B.A.)



23rd Governor of Reserve Bank of India, assumed office on 4 September 2013 preceded by Dr. D. Subbarao, Rajan was born on 3rd February 1963. He did his schooling from Grade 1 to Grade 12 in Delhi Public School and graduated from the Indian Institute of Technology, Delhi with a bachelors degree in Electrical Engineering in 1985. After this, he acquired a Post-graduate Diploma in Business Administration from the Indian Institute of Management, Ahmedabad, in 1987. He received a Ph.D. in Management from MIT in 1991 for his thesis titled "Essays on Banking."

He was the Chief Economist at the International Monetary Fund (IMF) from October 2003 to December 2006. In November 2008, the Indian Prime Minister Dr. Manmohan Singh appointed Rajan as an honorary economic advisor. That same year, a high-level committee on financial reforms headed by Rajan, submitted its final report to the Planning Commission. Rajan was appointed as Chief Economic Advisor to the Government of India on August 10, 2012. On August 6, 2013 it was announced that Rajan would take over as the next Governor Reserve Bank of India.

Rajan proposed supply-side solutions of a long-term structural or national competitive nature. He won many awards like the Fischer Black Prize awarded by the American Finance Association for contributions to the theory and practice of finance by an economist under the age of 40.

In his personal life, Rajan is married to Radhika Puri, a classmate from IIM Ahmedabad.



### His Publications -

1) 'Saving Capitalism from the Capitalists' was co-authored with fellow Chicago Booth Professor Luigi Zingales and published in 2004.

2) 'Fault Lines - How Hidden Fractures Still Threaten the World Economy' published in 2010 has won the Financial Times and Goldman Sachs Business Book of the Year Award for 2010.

He has also published numerous articles in top-tier finance and economics journals including the American Economic Review, Journals of Economic Perspectives, Journal of Political Economy and Oxford Review of Economic Policy.

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### क्षण

जीवनातला एक क्षण

एक अबोल पण खूप काही बोलून जाणारा एक क्षण

निश्चित होण्यासाठीचा एक क्षण

धाडस करण्यासाठी प्रेरित करणारा एक क्षण

अंगावर सहारा आणणारा तो एक क्षण

विचारांवर अधिराज्य गाजवतो तो एक क्षण

एकच क्षण जो आपले आयुष्य सार्थकी लावतो

आपल्याला प्रेम प्रदान करतो तो एक क्षण

क्षणाची जपवणूक करतो तो एक क्षण

क्षण म्हणजे असतं तरी काय हो ?

आयुष्याच्या पोटडीमधून काढलेला एक छोटा

पण तुमच्या व माझ्यासाठी महत्त्वाचा एक

असा अनमोल ठेवा की सर्वांना आनंद देऊन जातो.

- वेदांग वामन दामोशन (F.Y.B.Com.)



# Ideas and Inventions

Ruchir Patil (T.Y.B.Sc. Computer Science)

**Idea :** Idea is a quick thought which strikes you at any moment in your life which is also called as a 'Eureka' moment. It may come when you are deep in sleep, when you are having important conversations with your boss, when you are exercising, when you are meditating, etc. Ideas are of many kinds social, medical, technological, etc.

**Invention :** An invention is a tool for an idea to implement and process in the practical world where the imaginary world is directly proportional to the practical one. It takes a lot of efforts to invent unique ideas. There are also evolutionary inventions which are developed and updated by the same idea.

**Unexpected Success :** The main extraordinary thing about idea is the neurons in our brain which come up with different configurations in different state/level of thinking. Many inventions made were the type of Eureka moment (an unexpected moment) - displacement of water for Archimedes, apple falling from the tree for Newton, ploughing a potato field 'line by line' for Farnsworth where the electron beam could scan images 'line by line', lying on the bed and watching up in the sky a flying plane and thinking about how far it might be from his wall and ceiling for Descartes Coordinate Geometry.

**Inventions by learning Natural Resources :**

- Invention of satellite: As moon revolves around the earth, can a human made object revolve around the earth? Why and how?
- Invention of an invisible tank: As chameleon hides itself by adjusting its color as per the corresponding environment.
- Invention of multi cellular organism which was present 200 million years ago.
- Invention of power felt as current can be converted to heat, heat can also get converted into current.
- Most promising invention was of the Aircraft. If a bird can fly why can't we?

**Need for developing big inventions again :**

While operating the big old computers it was a difficult task to handle the data, switching the computer from one place to another. So there was a need to pack up the old computer.

"Need aroused evolution started"- therefore that big wacky computer got converted it into Desktop personal computer and similarly laptops and tablets came into existence. There is need for inventing the big inventions again for making them more efficient and user friendly.

**How to make a structure of your idea ?**

First of all you need to have courage to walk on the odd path. However, this in many cases leads to failure and that leads in stopping the great innovation in your mind.

You must always write down your ideas whenever they pop up in your mind, try to have some of the simple small experiments and note down the theory and also the pros and cons so that risk of failure can decrease. Make a hierarchy of each step, have a step wise implementation for a specific module in an experiment, discuss your idea with good professionals in that corresponding field and use possible resources to develop your skill in your experiments.

**What should be done :**

Planning and experimenting, constructing and designing, taking advice from a good professional or engineer, reducing the errors which come while experimenting, again constructing and designing a new model or idea which was summed up with the errors, again planning and experimenting this way it goes on unless you reach to the conclusion. Always make sure you have noted down all this performed tasks. The best of your Ideas and Inventions will surely benefit you and the society at large..

☺☺☺

## IDEAS

The most powerful factors in the world are clear ideas in the minds of energetic men of good will.

- J. Arthur Thomson

A man may die, nations may rise and fall, but an idea lives on. Ideas have endurance without death.

- John F. Kennedy



## Mobile : Our Friend or Enemy

Swati R. Desai (F.Y.BCS)

Today's trend is that the better and expensive cellphone you have the better is your reputation. Those going to college would say it as a 'cool-repo'. In every household, when youngsters are criticised, their mobiles are also accused. Our lovely mothers would then raise their voice and say 'आग लाव त्या मोबाईलला. सारखीच त्या मोबाईलवर टाक-टूक चालू असते'

Moore's law rightly states that after every decade the fabrication technique doubles. Starting from Graham Bell's telephone, pagers, keypad phones and now finally the touch screen phones. Today every house has one cellphone since they are available at affordable prices. Cell-phones have helped largely to reduce the communication gap between people and have helped people to communicate overseas as well. The various applications available on these cellphones along with the message box are What's App, Hike, We Chat, Live, etc. You will not find a youngster who has not heard or used all these applications. These apps help them socialize on a larger platform. Students are busy 24x7 with the cellphones and waste hours over it. Most of them spend most of their study-time with the cellphones and finally complain that they have no time to study. Downloading movies, sharing photos, sending messages and chatting are the things which keep them busy in the quality-time they should spend with their family, friends and relatives. So cellphones are acting as a sort of distraction to students. Lectures are on and students are sending text messages instead of concentrating on the lectures.

Previously, when we travelled by bus, or went walking to schools or college, we would observe nature's beauty, early morning sunrise, people going for walk, etc. But today students even walk with their heads in the cellphone. The new generation is getting diverted from their goal in life. **The age in which youngsters should play, run and learn has become a mobile-age.** We are going away from nature, family and our relations.

Yes, some are there who are making the good out of it. In colleges where students sometimes attend and sometimes don't attend college, the important notices, exam time tables are put by the students on these applications and shared by all. Students share

important questions, notes and doubts on these apps. and this helps group studying. Even teachers have now become part of these applications, so that they help students with studies as well as address many students at a time. There are some apps which help you in times of difficulty and danger just by clicking a button twice / thrice. You can even block those who are unnecessarily troubling you.

Suppose a friend of yours has left your city years ago and you don't have any contact with him or her and now after many years you find him or her on these apps then your happiness will know no bounds, right? Isn't this really good?

Any technology has banes as well as boons But its use for warfare or welfare depends on human beings. Thus, mobile is our friend or enemy.

Choice is ours !!!

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### LONELY YOU

Solitary on the platter of Earth,  
Enroll as a listless being into birth;  
Come to the Earthly abode all alone,  
Life is a tyro for this new tone.

Conscience and decisions and choices;  
Are all life's reclusive voices.  
You might find complicated, parodied or  
mixed  
Are all analyzed by you though not fixed.

Identical in case of jeopardy,  
Call a soul and none appears sturdy;  
All you have to is summon your heart  
And give into yourself or stay apart.

Solitary on the platter of Earth  
Abandoned all alone for the reality of death;  
This verse counts for me, for you it's set,  
All is dominance of loneliness on birth, life  
and death.

- Sayani Biswas  
F.Y.B.A.



## A Brief Journey through an Inspiring Visit

Sharvani Navangul, F.Y.B.Com.



When in 1937 the company known as "Gesellschaft zur Vorbereitung des Deutschen Volkswagens mbH" (Now Volkswagen) was founded, no one could have guessed that it would one day be Europe's largest car maker. The history of the company is first and foremost a story of impressive success.

Ferdinand Porsche the father of the company was the first to bring forward the concept of a modernized car in Germany. Later due to the World War II the production of cars was diverted to the production of armaments, but as the war ceased the first ever mass production of cars began with the production of BEETLE.

It was the privilege of the students of Modern College to visit a part of this giant company. The students from Arts and Commerce background (11<sup>th</sup> to F. Y. Bcom/BA) with some experience in German language got the opportunity to visit the Pune plant of Volkswagen India.

### **Overview of the Plant:**

The Pune plant of Volkswagen India is located in Chakan. The Volkswagen plant in Chakan occupies a total area of over 2.3 million square meters. A workforce of over 3,500 people was engaged in building it during its peak construction stages. The plant was built in a record time of 17 months. It is to date one of the largest investments by a German company in the Indian market. The plant has the capacity to produce over 400 vehicles a day and approx. 130,000 vehicles a year.

The plant witnesses one of the most long lasting 'Marriages' everyday (The guarantee of assembling the parts is known as the Marriage). The first car manufactured in the plant was Skoda Fabia (later discontinued). Currently the plant focuses on the manufacturing of Passat, Polo, Vento and Beetle.

### **Overview of the Visit:**

All the students were taken to the plant in a bus. After reaching the plant we were summoned by our tour guide in the conference room and soon the beautiful odyssey began. As the plant is noisy we were given Bluetooth ear sets that enabled the tour guide to speak while the others could listen without any problem.

The tour began with a visit to the Body Shop. Here the car began from scratch and one could see the minute details that are required during the

manufacture of cars, for example the use of chemical adhesive instead of the use of tubes to hold the roof top in place. One could see the precision and fluency used in the manufacturing of a Volkswagen. As Volkswagen says 'Only a Volkswagen can make a Volkswagen.'

The majority of detail work is done by robots (KUKA Robots). Their jurisdiction is marked and is completely free of any human touch.

As the car moves along from stage to stage one gets to see the Marriage of a lifetime, and finally as we exit the body shop we get to see the finished car.

Volkswagen guarantees a complete scratch proof car. Hence the car is subjected to various lightings to make it 100% scratch proof. We were then taken back to the conference room. This was followed by an exhaustive question answer session.

Most of the students came to that plant with one common motive i.e., to someday get the opportunity to join a German company like Volkswagen. Hence the majority of the questions were focused on this central idea: "How do we get in?" or "What qualifications are required to get into Volkswagen?" Some interesting points came up during this discussion like the fluency required in the language, an additional degree requirement, etc. After the conclusion of this session I thanked our guide Mr. Halbe on behalf of all of us.

Interestingly we even got to share the daily meal with coworkers. It was rather thrilling to sit in the canteen and share a meal that the people there eat every day.

### **Conclusion:**

The most important part of any task is the outcome one gets from it. For me the visit was basically to get an insight into the functioning of the company. Also my main aim was to live a day in the life I would want to have in the future. My purpose was completely and wholly satisfied. I was even inspired by the accuracy used by Volkswagen. Surely, this odyssey has inspired me to bring in that level of precision in all my tasks.

I am grateful to our teacher Mrs. Sanjivani Kuvalekar for organizing this whole visit and most importantly choosing me to be a part of this journey. I am sure all those who lived into this moment are going to treasure this forever.



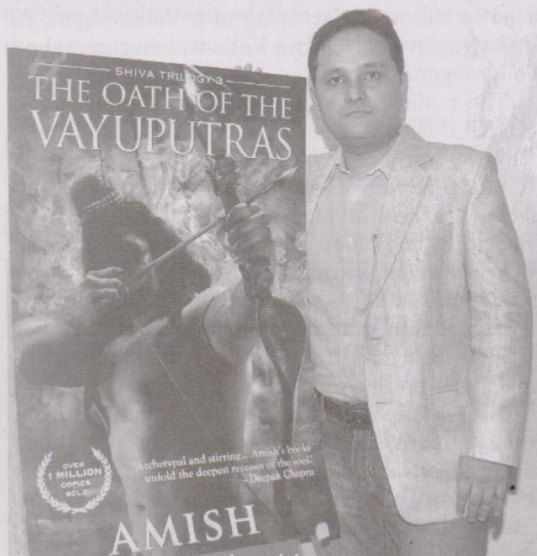
### Book Review

## The story of a man whom legend turned into God

Name of the book : The Oath of the Vayuputras

Author: Amish Tripathi

Omkar Ghanekar, XII- C



This is the third book in the Shiva Trilogy series. The first two books in this series "The Immortals of Meluha" and "The Secret of Nagas" are number one national bestsellers.

The author of this wonderful trilogy Mr. Amish Tripathi is a young and a highly passionate reader of mythology and history. He completed his education at IIM Kolkata. He worked in financial services for fourteen years. The success of his debut novel the "The Immortals of Meluha" encouraged him to give up his job and focus on his writings.

The story takes up back to 1900 B.C., to what we perceive as 'Indus Valley Civilization', which was known at that time as 'the Land of Meluha', a perfect empire created by Lord Ram.

This proud empire of Meluha is now facing severe perils and their best hope is that - 'When evil reaches epic proportions, when all seems lost and enemies have won, a hero will emerge'. Shiva rises as that hero to help Meluha. This is explained in the first book. In the second book, Shiva travels almost the

entire northern and central India and reaches Panchavati, where evil has done maximum damage.

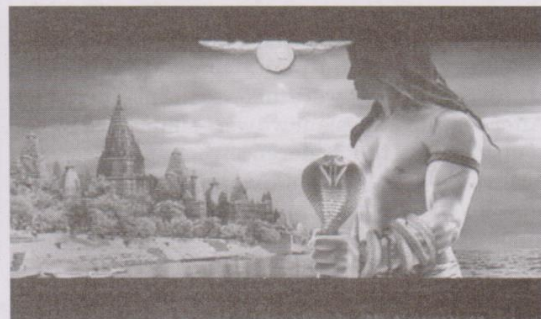
In the third and concluding part, the author has tied up all the loose strings. The author has brought alive all the mythological characters like Sati, Kali, Ganesh and Kartikeya in this trilogy. The ancient mythological stories have been recreated in a truly well-built and historical fashion. Various maps help us in understanding more about geographical regions.

The last part sees the destruction of evil at the hands of Shiva, but he has to undergo severe wounds on his soul. The author has shown the human nature of Lord Shiva in a well-designed fashion. The concluding part sees warfare tactics and friends turning foes. Each character in the book has a separate role and has been given a distinct personality. The author takes us to a world beyond the printed words in the book.

The mythology lovers will definitely like it as the author has given a modern touch to the story of Mahadev and those who do not like mythology will still love it as they can treat it as an altogether different story.

The book makes one thirsty for more as the excitement level is high due to the first two books and one is unable to keep the book aside before completing it.

CB3CB3





## Memorable days at IISER

Shriram Y. Ramane, TYBSc- Physics



IISER (Indian Institute of Science Education and Research) is a prestigious national level Institute dedicated to research in basic sciences. It is having renowned scientists as staff, the finest laboratories and best instruments of research level. There are total five IISERs in India.

It was a pleasant surprise for me when I came to know that I have been shortlisted and selected for the Refresher course in Experimental Physics organized by IISER (Indian Institute of Science Education and Research), Pune.

It was a National level Course in Experimental Physics conducted by Prof. Dr. R. Srinivasan (An 84 year old- Young Scientist! -from IIT, Madras) in collaboration with IISc (Indian Institute of Sciences, Bengaluru), INScA (Indian National Science Academy, Delhi) and National Academy of Sciences of India, Allahabad.

It was 9<sup>th</sup> December and it was my birthday! My Head of the department wished me, "Happy Scientific Birthday!" and I actually experienced it that day.

After inauguration we were split into pairs. I was pleased when I came to know that my partner Dr. Manojkumar Srivastava was H.O.D. of Army Cadet College, IMA, Dehradun.

I interacted with other participants also. Some of them were from IISERs, NITs, and many prestigious colleges from all over India. Firstly I was feeling very inferior in front of them, but then I thought 'since I am here, I am also something'. And I decided to face anything that may come my way.

First we had theory of experiments which we were supposed to perform next week. Lectures started in the afternoon session of the very first day. But the staff accompanying Professor Srinivasan was excellent. They taught us very well so that every one of us understood thoroughly. The staff consisted of expertise from various institutes like, Indian Aerospace laboratories, Goa University, Indian Academy of Sciences, IITs, etc.



I came to know many new things and got a chance to explore my views. I did total twenty sessions of experiments, in which I did Young modulus, Rigidity Modulus, Calibration of diodes, Thermocouples, Energy band gap of silicon, Measurement of inductance of coil, Stefan's constant, A.C. bridges, B-H curve etc. with all indigenously

developed instruments and some new experiments like Thermo emf analyzer, Di-electric constant of non polar liquid, High resistance by leakage, Calibration of lock in amplifier, Measurement of low resistance, Thermal relaxation of series bulb, Dipole moment of acetone, Curie-Weiss law, Calibration of search coil, Magnetic phase transition in NiTiNOL shape memory alloy, Nonlinear dynamics using Chua ckt and Fienbaum ckt.

Amongst all I like nonlinear dynamics and shape memory alloy. It is wonderful that a material stores memory in form of shape. We learned many applications of it in space technology, medicine, and day to day life. They gave us the manual of 'Refreshers course experiments'. We also got the chance to meet renowned scientists Arvind Gupta, Satish Ogle, C.V. Dharamadhikari through guest lectures and free discussions.

I received the "Excellent performance award" in the course. It was of great value for me because my competition was with professors of national institutes, students from very prestigious institutes like IISc, IISERs, etc.

I made many friends there from various institutes and of various ages. I shall always remember those fourteen days of my academic career. It was an enriching experience for me.

There are many national level programs in such prestigious institutes. We need to check the college notice board every day. If one pays attention to such notices and applies thoughtfully in the given time one can definitely get the chance to do research, meet renowned scientists and discuss with them. We need to search for such opportunities with open eyes.

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## The Show Time : Election Time

Mizba V. Sayyed (XI)

The 2014 rat race known as 'elections' is on the way. The only topic in any group conversation is about 'whom to elect' 'whom should we vote' The season of election is so much high-voltage, that people forget about films, their favourite stars.

Nowadays as we see the parties are ready to do anything to come in the limelight. Election is the only time when we see ministers coming on the roads, appealing the voter and giving their fake promises. The parties want to grab the attention of the public and especially of the youth As they have a prevalent slogan, 'Youth is the future of the country, and they can make a strong change.' But why the change should be made in the future. Can't the country be changed in the present. If we want to actually make the change, then it is only the possible when our corrupt politicians who have a misconception that they are non-corrupt will think about the welfare of the public and not about the welfare of themselves, who will think to give the woman her right place and not dream about getting the post of the Prime Minister. The ministers think that if the youth wants to make change then they should join politics. If they have no love for politics, how will they understand about this ball game. But the youth wants to answer the ministers that they have no hatred for politics, but they have hatred for the politicians involved in it.

When the elections proceed, every minister wants to come in front of the camera. They want to be like 'a cherry on the top.' They want to be in glamour. Many top stars have joined politics, but even they are seen only during the election time. We believe in superstars so much that some people think, if my favorite star is canvassing for a particular party, even I should support the same party. The stars should think that they have a big responsibility. While supporting a party, they should not appeal to vote for a particular party, but they should appeal the people to vote for a party, whom they think will do something for the betterment of their present as well as their future.

During the elections, news channels show us the better side of India. They open our eyes by showing what each minister has done for the betterment of a city.

The ministers claim that they are the best, but actually they are the worst. It is only the election time that the ministers listen to the problems of the public. These ministers are just load of entertainment. Once there was a chaos going on in a particular place. So many lives were getting ruined, but these ministers were enjoying their party. The mob of ministers wanted to have fun, but none of them was bothered about the precious lives of the people.

By this incident, I am sure that many of people might be stunned and also might be thinking whom we should vote, whom we should believe. People think that if the ministers are doing such disgraceful things why we should vote. But we should understand that if we don't vote, we will never change our future. We have the privilege of voting. 'One vote makes a lot of change. And all the ministers are not of the same kind. They are not the same. They actually do something for the betterment of the public. There are some ministers who seriously respect the vote of the public. But, there are some ministers who do not come up with any plans for the welfare of the country. By giving fake promises to the people, they get the position they want. But the ministers should understand, that if the people revolt for not keeping up their promises, they and their parties would be nowhere. So, my appeal to each and every citizen of India, and especially the youth like me is 'Take a stand, believe in your rights, go further, change the country and vote, because if not now, then it will be never.'

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### DEMOCRACY

Democracy means government by the uneducated, while aristocracy means government by the badly educated.

- G. K. Chesterton

Democracy is only an experiment in government, and it has the obvious disadvantage of merely counting votes instead of weighing them.

- Dean Inge



## Importance of Learning German : A Foreign Language

Aditi Parkhe, Simron Mehta (F.Y.B.A.)



In the past, students have more often than not overlooked the importance of learning a foreign language, however, this importance is being realized by some, for whom it has been detrimental in shaping their career and education.

It has always been thought that studying or learning a language only benefited students personally, and while learning a foreign language is a crucial element in personality development, it doesn't just stop there. Experts have stated that a bilingual person will be more preferable to employers than a unilingual person. Major industries such as BMW, Volkswagen, Siemens, Bosch attract employees that have a working knowledge of German. Translators and interpreters are in high demand in industrial sectors. Companies are always looking for people who speak the language that they conduct business in.

It is a well known fact that Germany has the largest economy in Europe, thus having global business connections with various domestic and international countries. The customers of many reputable industries are German speaking. We live in an increasingly globalized world, and the knowledge of a foreign language is productively beneficial for an employee. German is a language spoken throughout Europe, especially Austria, Switzerland and naturally Germany, which are three of Europe's leading nations, making learning German more appealing from an international perspective.

German is indispensable in a myriad of fields and occupations, such as music, business, research, history, literature, physics, religion, psychology, philosophy and even art. In fact, German holds tremendous historical significance in these fields. A large number of scientific publications are written in German. The texts and works of art by personalities such as Goethe, Nietzsche, Kafka, Mozart, Bach, Beethoven, Freud and Einstein had originally written in German. Knowing the German language will function as an important tool in understanding these texts better.

Science and research is very significant across Germany today, and therefore in a

technologically advanced country like Germany it is no wonder that speaking the German language would play a key role in broadening intellectual and professional horizons for aspiring students. Various academic programs place significance on the possession of a German degree.

Student exchange programs help students to explore the German language and culture and give them access to the hopes and dreams of people living in German speaking countries. A strong command on foreign languages translates into a deeper knowledge of cultures. In terms of personality development, it fosters in us qualities of sensitivity, tolerance, a general understanding of our surroundings, awareness and appreciation of the world around us.

Learning German is no harder than English, French or Spanish. In fact, if one can speak English fluently then learning German becomes much easier. Although it goes without saying that for one to excel in German one must have a genuine interest in the language. The encouragement and motivation of the teachers and staff can help students achieve a high level of communication skills in a very short time. Students learn how to read, learn, write, speak and understand German- inside as well as outside the classroom. They can understand German culture through modern and communicative teaching methods and the different events and competitions that take place, which help to develop the students' German skills.

Speaking the German language is a preferable quality that most employers look for in employees. It adds more weight to the resume of aspiring students and provides them with various opportunities. It provides insight into the way of life of other cultures. But more than anything, it is a world of experience and knowledge waiting to be explored.

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### ARGUMENT

It is not necessary to understand things in order to argue about them.

- Pierre Augustin de Beaumarchais



## A German Poem Sollen und Wollen

Man soll früh am Morgen aufstehen  
Aber das möchte ich nicht machen  
Man muss viel lernen  
Aber ich möchte wenig lernen  
Man soll leise sprechen  
Aber ich möchte laut sprechen  
Man muss die Arbeit rechtzeitig machen  
Aber das möchte ich spät machen  
Man muss formelle kleider im kollege tragen  
Aber ich möchte bunte kleider tragen  
Was alle machen  
Das möchte ich nicht machen  
Ich möchte nichts mehr sollen und müssen  
Ich möchte meine Freiheit haben

### English translation

One should wake up early in the morning  
But I don't want to do so  
One must study a lot  
But I would like to study much  
One should speak politely  
But I would like to speak loudly  
One must complete the submissions on time  
But I would like to complete it late  
One must wear formal clothes in college  
But I would like to wear colourful clothes in college  
What all do  
That I don't want to do  
I don't want any more "shoulds" and "musts"  
I would like to have my freedom.

**Kalyani Suresh Lutade** (S.Y.B.Com.)

## आम्ही सारे दाभोळकर

म्हणे, म्हणे  
आम्ही सारे दाभोळकर, आम्ही सारे दाभोळकर  
अरे, नुसतंच म्हणून काय होणार ?  
सगळ्यात आधी कृती कर !  
आपल्यासाठी तो गेला  
आता त्याच्यासाठी तूही मर !  
अरे, वटहुकुमाला झुलू नको  
कायद्यासाठी हट्ट धर !  
सगळ्यात आधी कृती कर  
प्रबोधनाचे असत्र त्याचे  
तूही आपल्या करी धर !  
अंधश्रद्धेच्या राक्षसाचा त्या शक्तीने  
तू वध कर !  
सगळ्यात आधी कृती कर  
नेतृत्वाचा सूर्य तो, धुपाऱ्याने झाकोळला नाही !  
गोळ्यांच्या भीतीने कधी मागे तो हटला नाही !  
म्हणूनच आहे शपथ तुला !, वारसा पुढे  
चालविण्याची, पणती होऊन अंधाराशी-दोन हात  
करण्याची  
रडणे आता बंद करा  
बुवाबाजी विरुद्ध लढा  
जातपंचायतीला आता, पळता भुई थोडी करा  
सामर्थ्यानिशी तू सगळीकडून आवाज उठव !  
अरे, नुसतंच रडून काय होणार  
सगळ्यात आधी कृती कर  
विचार होता त्याचा पक्का,  
मानवता हाच धर्म मोठा  
अंधश्रद्धेचा भाव खोटा !  
आता तूही उचलून खारीचा वाटा  
झोपलेल्यांना जागे कर  
नजरेत या अंगार भरून  
सर्वासमोर सिद्ध कर,  
की,  
आम्ही सारे दाभोळकर !  
आम्ही सारे दाभोळकर !

- ममता जाधव (F.Y.B.Com.)



# Changing Faces of Communication

Pranav Prashant Shivagikar (M.Sc. (Botany))

## Introduction :

"Communication" simply means "Exchange of Information"

It is highly impossible to live without communication as it is a characteristic feature of the living beings.

When we live in society, we communicate with each other by different ways such as by writing, speaking, symbols, etc. These are generally seen in case of human beings. But animals also communicate by specific signals. These signals may be movements of body, by making typical noises, actions, etc.

Communication is not limited to this only, but it takes place in our body by special mechanism such as specific "cell signaling"; in which various chemicals and chemical receptors are working continuously for proper functioning of the body.

Thus, communication is a 'Boon' for living organisms.

Now, we will deal with the developments in communication.

## Developments in Communication

The history of communication dates back to prehistory, with significant changes in communication technologies evolving in tandem with shifts in political and economic system, and by extension, systems of power.

Communication can range from very subtle processes of exchange, to full conversations and mass communication.

Human communication was revolutionized with speech approximately 100,000 years ago. Symbols were developed about 80,000 years ago, and writing about 5000 years ago.

## A. Symbols :

The imperfection of speech, which nonetheless allowed easier dissemination of ideas and stimulated inventions, eventually resulted in the creation of new forms of communications, improving both the range at which people could communicate and the longevity of the information. All of those inventions were based on the key concept of symbol; a conventional representation of a concept.

## B. Cave Paintings :

The oldest known symbols created with the purpose of communication through time are the cave paintings, a form

of rock art, dating to the 'Upper Paleolithic,' Just as a small child first learns to draw before it masters more complex forms of communication, so *Homo sapiens*' first attempts at passing information through time took the form of paintings. The oldest known cave painting is that of the 'Chauvet Cave', dating to around 30,000 BC. Though not well standardized those paintings contained increasing amounts of information : Cro-Magnon people may have created the first calendar as far back as 15,000 years ago. The connection between drawing and writing is further shown by Linguistics, in the Ancient Egypt and Ancient Greece. The concepts and words of drawing and writing were one and the same.

## Petroglyphs :

The next step in the history of communications is petroglyphs, carvings into rock surface. It took about 20,000 years for *Homo sapiens* to move from the first cave paintings to the first petroglyphs, which are dated to around 10,000 BC.

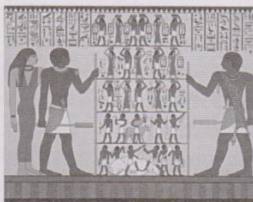
It is possible that the humans of that time used some other forms of communication, often for the mnemonic purposes - specially arranged stones, symbols carved in wood or earth, quipu-like ropes, tattoos, but little other than the most durable carved stones has survived to modern times and we can only speculate about their existence based on our observation of still existing 'hunter-gatherer' cultures such as those of 'Africa.'

## D. Pictograms :

A pictogram is a symbol representing a concept, object, place or event by illustration. Pictography is a form of proto-writing where by ideas are transmitted through drawing pictographs were the next step in the evolution of communication. The most important difference between petroglyphs and pictograms is that

petroglyphs are simply showing an event, but pictograms are telling a story about the event, thus they can for example be ordered chronologically. Pictograms were used by various ancient cultures all over the world since around 9000 BC, when tokens marked with simple pictures

began to be used to label basic farm produce, and became increasingly popular around 6000-5000 BC. They were the basis of cuneiform and hieroglyphs, and began to develop into logographic writing systems around 5000 BC.





### E. Ideograms:

Pictograms, in turn, evolved into ideograms, graphical symbols that represent an idea. Their ancestors, the pictograms, could represent only something resembling their form: therefore a pictogram of a circle could represent a sun, but not concepts like 'heat', 'light', 'day' or 'Great God of the Sun'. Ideograms, on the other hand, could convey more abstract concepts, so that for example an ideogram of two sticks can mean not only 'legs' but also a verb 'to walk.'

### F. Writing:

The oldest known forms of writing were primarily logographic in nature, based on pictographic and ideographic elements. Most writing systems can be broadly divided into 3 categories: Logographic, Syllabic and Alphabetic, however, all three may be found in any given writing system in varying proportions, often, making it difficult to categorise a system uniquely.

The invention of the first writing systems is roughly contemporary in with the beginning of the Bronze Age in the late Neolithic of the late 4000 BC. The first writing system is generally believed to have been invented in pre-historic Sumer and developed by the late 3000's BC into cuneiform. Egyptian hieroglyphs, and the undeciphered Proto-Elamite writing system and Indus Valley script also date to this era, through a few scholars have questioned the Indus Valley scripts status as a writing system.

### History of Telecommunication.

The world Telecommunication is derived from the Greek word "Tele-means 'Far' thus, it is a process of communication over a distance for the purpose of exchange of ideas."

The history of telecommunication - the transmission of signals over a distance for the purpose of communication began thousands of years ago with the use of smoke signals and drums in Africa, America and parts of Asia.

In 1970's, Elisha Grey and Alexander Bell transformed speech into an electric signal in order to design telephone. In 1890's Heinrich Hertz, Oliver Lodge and Guglielmo Marconi transformed electric signals into electromagnetic radiation and in doing so laid the growth of wireless telegraphy, radio and television.

Now-a-days, 2G, 3G technology is also available which makes telecommunication easier and more developed.

### Some important years in history of telecommunication:

#### Visual, Auditory and Anilary methods (non-electrical):

- Prehistoric: Fires, Beacons, smoke signals, Drums, Horns.
- 6th century BCE: Mail
- 5th century BCE: Pigeon Post

- 4th century BCE: Heliographs
- 15th century CE: Maritime flag semaphores
- 1672: First experimental acoustic telephone
- 1790: semaphore lines
- 1867: Signal lamps
- 1877: Acoustic phonograph

#### Basic electrical signals:

- 1838: Electrical telegraph
- 1858: first trans-Atlantic telegraph cable
- 1876: Telephone
- 1880: Telephone via light beam photo phones

#### Advanced electrical and electronic signals:

- 1893: Wireless telegraphy
- 1896: Radio
- 1914: First North American transcontinental telephone calling
- 1927: Television
- 1927: First commercial radio-telephone service U.K. - U.S.
- 1930: First experimental videophones
- 1934: First commercial radio-telephone service U.S. - Japan
- 1936: World's first Public Videophone network.
- 1946: Limited capacity mobile Telephone Service for automobiles.
- 1956: Transatlantic telephone cable
- 1962: Commercial telecommunications satellite
- 1964: Fiber optical telecommunications.
- 1965: First North American Public Videophone network.
- 1969: Computer networking
- 1973: First Modern-era mobile cellular phone
- 1979: INMARSAT ship-to-shore satellite communications
- 1981: First mobile (cellular) phone
- 1982: SMTP email
- 1983: Internet
- 1998: Mobile Satellite hand-held phones

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### HONOUR

When honour's lost, 'tis a relief to die;  
Death's but a sure retreatment from infamy.

- Samuel Garth

Honour and shame from no condition rise;  
Act well your part; there all the honour lies.

- Pope



# Mars Orbiter Mission –Mangalyaan

Jithin P. (F.Y.B.Sc.)



**The Mars Orbiter Mission (MOM)**, informally called Mangalyaan, is a Mars orbiter launched into Earth orbit by the Indian Space Research organization (ISRO). The Mars Orbiter Mission probe lifted-off from the First Launch Pad at Satish Dhawan Space Centre SHAR, Sriharikota, Andhra Pradesh, using a Polar Satellite Launch Vehicle (PSLV) rocket C25 on 5<sup>th</sup> November 2013. The launch window was approximately 20 days long and started on 28<sup>th</sup> October 2013.

The MOM probe spent about a month in Earth orbit, where it made a series of seven altitude-raising orbital manoeuvres before trans-Mars injection on 30<sup>th</sup> November 2013. It is India's first interplanetary mission and, if successful, ISRO would become the fourth space agency to reach Mars, after the Soviet space program, NASA, and European Space Agency.

The Mars Orbiter's on-orbit mission life will be between six and ten months. The mounting of the five scientific instruments was completed at ISRO Satellite Centre, Bangalore, and the finished spacecraft was shipped to Sriharikota on 2<sup>nd</sup> October 2013 for integration to the PSLV\_XL launch vehicle. ISRO chairman stated in November 2013 that if the MOM and NASA's orbiter MAVEN were successful, they would complement each other in findings and help understand Mars better.

**Objectives** - One of the main objectives of the first Indian mission to Mars is to develop the technologies required for design, planning, management and operations of an interplanetary mission.

Following are the major objectives of the mission:

Design and realization of a Mars orbiter with a capability to survive and perform Earth bound maneuvers, cruise phase of 300 days; Mars orbit insertion/capture and on-orbit phase around Mars; Deep space communication, navigation, mission planning and management and incorporate autonomous features to handle contingency situations.

Exploration of Mars surface features, morphology, mineralogy and Martian atmosphere by indigenous scientific instruments.

## Space craft: overview

**Mass:** The lift-off mass was 1350 kg (3000 lb), including 852 kg (1880 lb) of propellant mass.

**Dimensions:** Cuboid in shape of approximately 1.5 m (4 ft 11 in).

**Bus:** The spacecraft's bus is a modified I-1K structure and propulsion hardware configurations similar to Chandrayaan 1, with specific improvements and upgrades needed for a Mars mission. The satellite structure is of aluminium and composite fiber reinforced plastic (CFRP) sandwich construction.

**Power:** Electric power is generated by three solar array panels of 1.8 m x 1.4 m (5 ft 11 in x 4 ft 7 in) each (7.56 sq m i.e. 81.4 sq ft), for a maximum of 840 W generation in Martian orbit. Electricity is stored in a 36 Ah Li-ion battery.

**Propulsion:** Liquid fuel engine of 44 ON thrust is used for orbit raising and insertion in Martian orbit. The orbiter also has eight 22 N thrusters for attitude control or orientation.

**Communications:** Two 230 W TWTAs and two coherent transponders. The antenna array consists of a low-gain antenna, a medium-gain antenna and a high-gain antenna. The High-gain antenna system is based on a single 2.2 metre reflector illuminated by a feed at S-band. It is used to transmit and receive the telemetry, tracking, commanding and data to and from the Indian Deep Space Network.

**Payloads:** Mars Orbiter Mission carries five scientific payloads to observe Martian surface, atmosphere and exosphere extending up to 80,000 km for a detailed understanding of the evolution of that planet, especially the related geologic and the possible biogenic processes on that interesting planet. These payloads consist of a camera, two spectrometers, a radiometer and a photometer. Together, they have a weight of about 15 kg.

- Lyman-Alpha Photometer (LAP) - a photometer that measures the relative abundance of deuterium and hydrogen from Lyman-alpha emissions in the upper atmosphere.
- Methane Sensor for Mars (MSM) - will measure methane in the atmosphere of Mars, if any, and map its sources.
- Mars Exospheric Neutral Composition Analyzer (MENCA) - is a quadrupole mass analyzer capable of analyzing the neutral composition of particles in the exosphere.
- Thermal Infrared Imaging Spectrometer (TIS) - will measure the temperature and emissivity of the

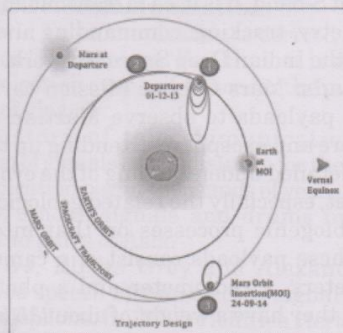


Martian surface, allowing for the mapping of surface composition and mineralogy of Mars.

- **Mars Colour Camera (MCC)** - will provide images in the visual spectrum, providing context for the other instruments.

**Navigation:** The Polar Satellite Launch Vehicle, PSLV-C25, injected the Spacecraft into an Elliptical Parking Orbit with a perigee of 250km and an apogee of 23,550km. Further, six orbit raising manoeuvres gradually raised the apogee of the spacecraft to 1,92,874 km, using the 440N Liquid Engine on board. The last manoeuvre, termed as Trans Mars Injection (TMI), moved the spacecraft in the Mars Transfer Trajectory (MTT). Spacecraft crosses the Earth's Sphere of Influence (SOI) and enters heliocentric elliptic cruise phase.

Series of Trajectory Correction Manoeuvres (TCMs) are planned in cruise phase, using Attitude Orbit Control Systems (AOCS) thrusters to achieve desired Mars Arrival conditions. At the end of the heliocentric phase, Mars Orbit Insertion (MOI) manoeuvre will be carried out by firing the Liquid Engine on board and the spacecraft will be inserted into the intended Martian Orbit. The spacecraft will focus on in depth study of morphology of the Martian surface and probe the composition of its atmosphere and the space environment.



**Control system:** ISRO Telemetry Tracking and Command Network (ISTRAC) will be providing support of the TTC ground stations, communications network between ground stations and control centre, Control centre including computers, storage, data network and control room facilities, and the support of Indian Space Science Data Centre (ISSDC) for the mission. The ground segment systems form an integrated system supporting both launch phase, and orbital phase of the mission.

**Launch Phase:** The launch vehicle is tracked during its flight from lift-off till spacecraft separation by a network of ground stations, which receive the

telemetry data from the launch vehicle and transmit it in real time to the mission computer systems at Sriharikota, where it is processed. The ground stations at Sriharikota, Port Blair, Brunei provide continuous tracking of the PSLV-C25 from liftoff till burnout of third stage of PSLV-C25. Two ships carrying Ship Borne Terminals (SBT) are being deployed at suitable locations in the South Pacific Ocean, to support the tracking of the launch vehicle from PS4 ignition till spacecraft separation.

**Orbital Phase :** After satellite separation from the launch vehicle, the Spacecraft operations are controlled from the Spacecraft Control Centre in Bangalore. To ensure the required coverage for carrying out the mission operations, the ground stations of ISTRAC at Bangalore, Mauritius, Brunei, and Biak are being supplemented by Alcantara and Cuiaba TTC stations of INPE, Brazil, Hartebeesthoek TTC station of SANSA and the DSN network of JPL, NASA.

#### Major Challenges

**Thermal Environment :** The bus needs to cope with a wide range of thermal environment, from Near Earth conditions with Sun and Earth contributions (hot case) to Mars conditions where eventually eclipses and reduced solar flux give rise to cold case issues.

**Radiation Environment :** The main frame bus elements and payloads are basically designed for interplanetary missions capable of operating in Earth Burn Manoeuvres (EBN), Mars Transfer Trajectory (MTT) and Martian Orbit (MO) environments.

**Communication Systems :** The communication systems for the Mars mission are responsible for the challenging task of communication management up to a distance of 400 million km. It consists of Telemetry, Tracking and Commanding (TTC) systems and Data transmission systems in S-band and a Delta Differential One-way Ranging (Δ-DOR) Transmitter for ranging.

The TTC system comprises coherent TTC Transponders, TWTAs (Travelling Wave Tube Amplifiers), a near omni coverage antenna system, a High Gain Antenna system, Medium Gain Antenna and corresponding feed networks.

**Power System :** One of the major challenges in the design of power system is due to the larger distance of the satellite from the Sun. The power generation in Mars orbit is reduced to nearly 50% to 35% compared to Earth's orbit.

The power bus configuration comprises of a single wing of solar array with 7.56 sq.m. area generating about 840 W during sunlit and normal incidence in Martian orbit, and a 36 Ampere-Hour Lithium-Ion battery supports the power load during launch phase,



initial attitude acquisition, eclipse, Earth burns, MOI, safe mode and data transmission phases.

**Proplulsion System :** Proplulsion System consists of one 440N Liquid Engine and 8 numbers of 22N thrusters. The propellant tanks have combined storage capacity up to 852 kg propellant. The 22N thrusters are used for attitude control during the various activities of the mission like, orbit raising using liquid engine, attitude maintenance, Martian orbit maintenance (if any) and momentum dumping.

**On-board Autonomy :** Given that the Round-trip Light Time (RLT) from Earth to Mars can vary anywhere between 6 to 43 minutes, it would be impractical to micromanage a mission from Earth. Due to this communications delay, mission support

personnel on Earth cannot easily monitor and control all the spacecraft systems in real-time basis. Therefore, the configuration includes the use of on-board autonomy to automatically manage both the nominal and non-nominal scenarios on-board the spacecraft.

Mangalyaan is one of the major projects by ISRO which flourishes Indian hope in the field of Space Science and Technology. The latest technologies in this field are developed by ourselves and are applied in this mission. We can believe that this mission will bring glory to mankind.

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## Is Indian Cinema Influencing the Youth ?

*Mizba V. Sayyed (XI)*

As we about Indian cinema, we think about actors - actresses, their clashes, their controversier, their love-affairs, etc. The Indian Cinema has expand so much that we are unable to know who are the recent leading actor-actresses in the next film. But the youth is so much inquisitive to know about particular star's life, his / hers next film, their likes, dislikes, the products which they are endorsing and so on.

One of my friends, is such a big fan of Kareena Kapoor Khan, that she keeps on searching for her blogs, gathering information about her from the internet as well as from the magazines. On the way back home, a thought came rushing to my mind, 'Is the Indian cinema influencing the youth so much that they do not have interest in studies' neither are they bothered about their personal life ?'

The most mesmerizing film ever 'Dilwale Dulhania Le Jayenge' has its mark in every youth's heart. The song's which were sung by Lata Mangeshkar, Udit-Narayan had just sweep away the youngsters off their feet. The youngsters have eternal love for the characters 'Raj' and 'Simran'. The chemistry of Shahrukh Khan and Kajol was loved so much by the youngsters that they were forced to splurge and go and see the movie in theaters. The characters 'Raj' and 'Simran' have driven away ahead and have influenced the youth so much that they wanted to play the role of 'Raj' and 'Simran' in their real lives.

The influence of Indian cinema on the youth also has a negative side and they are the crime based films. These films affect the youngsters with a disgraceful result.

I met one friend who started smoking at the age of 15. He was unable to leave his habit. When I asked him about not leaving this habit he replied, "Why should I stop smoking. Even my favourite star smokes, so what's a big deal in that ?" I was totally stunned the way he answered and especially what he answered.

It is wrong to say that the youth wants vulgarity. The films which make people gamblers, dacoits, should totally be banned. So, by getting affected by the stars, we should not forget who we are. We should rethink that these stars just have an entertainment factor, glamour factor, and we should not get influenced by them. These stars project their films, just to bridge the gap of our loneliness, our tiredness and they want to just entertain us.

We have a good psyche and we should understand the difference between a positive film and a negative film. We should understand what to take in from a film and what not. Some films are just time pass and some have such a wrong effect that we go out of our limits.

So, my suggestion to all the youth is just that. 'Be yourself, don't let the films influence you so much that you forget about yourself and run after the stars.'

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## National Food Security Bill 2013: Need and Limitations

Mrunalini Chaturvedi (S.Y.B.Com)



India is a land of contrasts. In this country, a person making a journey might come across huge piles of wheat and rice bags rotting away on platforms. Within a kilometer of this disturbing scene, one would get to see villagers emaciated due to years of low food intake moving around like ghosts. Why the rotting food cannot reach the hungry mouths is a question that has defied solution.

National Food Security Bill 2013, has been introduced in the current Lok Sabha session which seeks to enact National Food Security Act 2013. It aims to provide food and nutritional security to whole of India; access to adequate quality food at affordable prices to people to live a life with dignity.

The Food Security Bill aims to ensure supply of very cheap food grains to nearly 75% of India's rural population and 50% of urban population. Together, it will mean that some 67% of Indians will get cheap food, subsidized by the government.

Under this Act a provision has been made to provide 5 kg of food grains per month per person to those identified under this scheme. This will be given at highly subsidized rates (Rs 3/2/1 for Rice/ wheat/ coarse grains respectively) under the TPDS (Targeted Public Distribution System). Moreover, every pregnant or lactating mother would be entitled to a meal free of charge during pregnancy and 6 months after the child birth, through the local Anganwadi. In the case of a child between six months to six years, a meal free of charge through the local Anganwadi will be provided. For children between the ages of six to fourteen years one midday meal to be provided free of charge in all schools aided by government as well as those run by local bodies. In case of non-supply of these food grains for any reason whatsoever the food security allowance would be paid to the identified people by the respective State governments.

**Need :** According to the recent survey done by Food and Agricultural Organization (FAO) the following facts were found:

- 1/3rd of the world's hungry live in India.
- Over 20 crore Indians will sleep hungry tonight.
- India has 212 million undernourished people.
- Over 25 lakh Indians die of hunger every year.

The 1998 Indian survey shows 57 percent of the children aged 0-3 years to be either severely or moderately stunted and/or underweight.

During 2006-2007, malnutrition contributed to seven million Indian children dying, nearly two million before the age of one.

### Limitations:

A person unable to afford food should be made food should be made available to those who cannot afford it, however, it should not be free of cost. The habit of getting something for cost will make a person dependent on it. And at a later stage even if he gets some work, he will prefer not to, as he gets the basic things for free. Also this will make him a dependent on the existing government and the right to elect the efficient representative will be misused. This will decrease the self-dependency of the masses of the country, which is below poverty line, which will lead to high moral depletion at a later stage. And who knows even again, as it always happens; it may not actually reach the needy.

Who is going to ensure the proper implementation of this? Spoken much about the problems, what can be the solutions now? It is not very difficult but worth thinking. The amount that is going to be spent in implementing these schemes is a huge amount. Let it be spent in creating opportunities. And, it is not that we don't have jobs or we can't create them. Let them work to better themselves and in turn give them the food. Let them make ponds in their villages, so that they don't face water problems if rain is not there. Make them plant trees on the roadsides and let them take care of them until they grow up.

The darker side of the proposed bill is that it may turn out to be little beneficial and create new avenues for political and bureaucratic corruption. Moreover, the proposed bill may not prove effective in identifying the problems relating to malnutrition, hunger and poverty.

A well-targeted nutrition policy can create wonders and also prove fruitful. In this scenario, the National Food Security Bill can turn into something revolutionary and can leave a huge impact in the economy of the country. The Bill can transform and restructure the lives of people if carefully crafted and implemented.

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## National Conference on Environment and Biodiversity



Dignitaries at the Inaugural function.



Dr.A.K.Pande Chairman LMC- Welcome speech.

## National Conference on Hazardous e-waste Management



Dr. A.D. Shaligram speaking on 'e-products'.



'Environment Observer' released at the hands of Dr. Arvind Joshi.

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