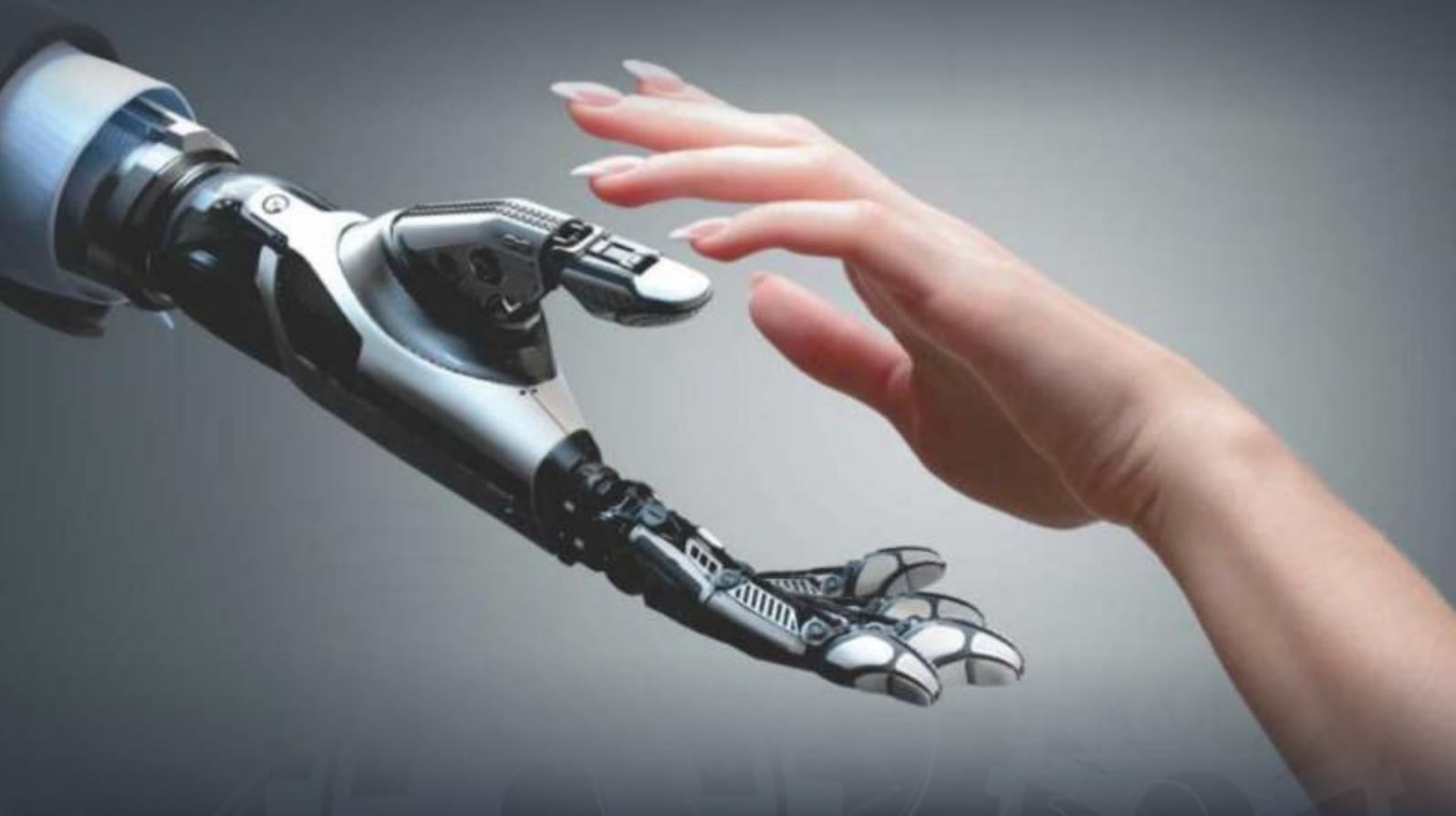


॥ ज्ञानमयो भव ॥  
प्रोग्रेसिव्ह एज्युकेशन सोसायटीचे  
मॉडर्न कला, विज्ञान आणि वाणिज्य महाविद्यालय  
गणेशखिंड, पुणे ४११ ०१६  
NAAC ACCREDITATION 'A'



# आकांक्षा

यांत्रिकीकरण आणि मानवीजीवन

२०१७-१८



**कै. शंकरराव कानिटकर**  
संस्थापक, प्रोग्रेसिव्ह एज्युकेशन सोसायटी,  
पुणे ४११००५

॥ ज्ञानमयो भव ॥

प्रोग्रेसिव्ह एज्युकेशन सोसायटीचे

मॉडर्न कला, विज्ञान आणि वाणिज्य महाविद्यालय

गणेशखिंड, पुणे ४११ ०१६

# आकांक्षा

यांत्रिकीकरण आणि मानवीजीवन

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चेतन झडपे, सुचित्रा पेडणेकर,

विद्यापीठ प्रतिनिधी

श्याम दाताळ

विद्यार्थिनी प्रतिनिधी

स्नेहा चव्हाण

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## College Development Committee

- Prof. Dr. G. R. Ekbote - Chairman, P. E. Society, Pune-5  
Prof. Shamkant Deshmukh - Secretary, P. E. Society, Pune-5  
Prof. S.V.Todkar - Chairman, L. M. C.  
Prof. Dr. P. G. Dixit - Visitor  
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Prof. Swati Kandharkar - Teacher Representative  
Prof. Parag Shah - Teacher Representative  
Shri. Rajendra Yemul - Non-Teaching Representative

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- प्रकाशन स्थळ : मॉडर्न कला विज्ञान आणि वाणिज्य महाविद्यालय,  
गणेशखिंड, पुणे ४११०१६  
प्रकाशन काळ : वार्षिक  
मुद्रकाचे नाव : डी२डी मिडिया अँड इव्हेंट्स  
राष्ट्रीयत्व : भारतीय  
प्रकाशकाचे नाव : प्राचार्य डॉ. संजय खरात  
राष्ट्रीयत्व : भारतीय  
पत्ता : मॉडर्न कला विज्ञान आणि वाणिज्य महाविद्यालय,  
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गणेशखिंड, पुणे ४११०१६  
मालकी : मॉडर्न कला विज्ञान आणि वाणिज्य महाविद्यालय,  
गणेशखिंड, पुणे ४११०१६

मी, प्राचार्य डॉ. संजय खरात जाहीर करतो की, वर दिलेली माहिती  
माझ्या समजूतीप्रमाणे बरोबर आहे.

– प्राचार्य डॉ. संजय खरात, प्रकाशक

या अंकात प्रकाशित केलेल्या लेखन साहित्याशी संपादक, प्रकाशक सहमत  
असतीलच असे नाही. हा अंक फक्त खाजगी वितरणासाठी आहे.



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Progressive Education Society's

## **Modern College of Arts, Science & Commerce**

Ganeshkhind, Pune 411 016. Tel.: (020) 2563 4021, 2563 1091, Fax : 2565 0931

Progressive Education Society's Modern College of Arts, Science and Commerce, Ganeshkhind, Pune-411 016 was established in 1992 in the vicinity of Pune University, with the objective of imparting quality education to the students. It is affiliated to the University of Pune and offers various Graduate and Post Graduate courses. In a short span, the College has made a mark of its own in academic as well as extra curricular activities.

The College has been successful in keeping pace with the changing educational scenario, there by introducing new career oriented courses every year. It has firmly established itself as 'Modern' and 'Progressive'. The college has highly qualified and experienced teaching staff, who consistently strive for allround development of the students. In academic year 2016-2017, NAAC has reaccredited Modern College, Ganeshkhind with 'A Grade'. The college has received Best College Award by Pune University for the year 2012-13. The college is now identified as DST-FIST sponsored college by DST. The College has been awarded with DBT-STAR Status by DBT, Govt. of India.

### **SALIENT FEATURES**

- Prime Location (very close to University of Pune & Chaturshrungi Hills).
- Affiliated to the University of Pune.
- Reaccredited by NAAC with 'A Grade'.
- Well qualified and experienced faculty.
- Healthy academic environment.
- Well equipped laboratories with internet connectivity.
- E-teaching and e-learning methodology.
- Well stocked Library with digital library facility and internet.
- Gymnasium for staff and students.
- Placement Cell.
- Well equipped administrative office for convenience of students.
- Spacious and well equipped audio-visual hall.
- Beautiful green campus with well developed Botanical Garden.
- Wind Solar Environmental Project to generate 13 KV electricity
- Canteen facility.
- Spacious parking, playground and Indoor games.
- Adequate sports facilities.
- Encouragement students to participate in cultural activities, discussions, in-house interactions, industrial visits, training and presentations.
- High Tech computer laboratory with latest computers, latest hardware and software.
- Special focus on Industry-Institute Interface.
- College Magazine 'Akanksha', a platform for students to express their innovativeness and creativity.
- Conducts state/national level seminars/workshop & conferences.

## अनुक्रमणिका

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# The Master Navigators of Progressive Education Society, Shivajinagar, Pune-5



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Jt. Secretary, P. E. Society, Pune



**Prof. S. V. Todkar**  
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**Shri C. C. Kamble**  
Dy. Secretary, P.E. Society, Pune



**Prof. Dr. Nivedita G. Ekbote**  
Dy. Secretary P. E. Society, Pune

# Congratulations



**Dr. Nandkishor Ekbote**  
Awarded Ph.D. in Indology



**Prin. Dr. Sanjay Kharat**  
Elected as Senate Member  
Savitribai Phule Pune University



**Dr. Chintamani Ghate**  
Awarded Ph. D  
in Law



**Dr. Jyoti Gagangras**  
Elected as BOS  
Member (Sociology) SPPU



**Dr. Shampa Chakravarthy**  
Awarded Ph.D in  
English Literature



**Dr. Uttara Oak**  
Awarded Ph. D in  
Biotechnology



**Dr. Madhuri Chandanshiv**  
Awarded Ph.D in Sociology



**Prof. Moreshwar Mishi**  
Awarded M.Phil  
in Commerce



**Prof. Shamal Deshmukh**  
Awarded M.Phil  
in Mathematics



**Prof. Ragini Wadekar**  
Cleared NET



**Dr. Babita Kale**  
Awarded Ph.D  
in Chemistry

# Congratulations



Hearty Congratulations to Prof. Dr. Gajanan Ekbote Sir (Chairman, P. E Society, Pune) for being appointed as a Member, Senate, Maharashtra University of Health Science, Nashik.

# Congratulations



**Prof. Dastgir Pathan**  
Best Student Development  
Officer SPPU, Pune



**Dr. Abaso Shinde**  
Jaganath Rathi Award,  
SPPU, Pune



**Prof. Parag Shah**  
Best Teaching Staff  
P. E. Society, Pune



**Mr. Vikas Jadhav**  
Best Supporting Staff  
P.E. Society Pune



**Prof. Sonal Kulkarni**  
Cleared SET  
vii



**Prof. Jayshree Shinde**  
Cleared SET

# Congratulations

## Pride of Modern



**Apoorv Satpute**  
Participated in R.D. Parade



**Shubham Darke**  
Best NCC Cadet



**Amruta Karvande**  
Brand Ambassador, NSS -  
Govt. of Maharashtra



**Saivibhuti Patil**  
Selected for R.D. Parade



**Sarvesh Navande**  
Awarded Gold Medal by the  
Hon. Prime Minister of India

# Congratulations



**Milind Zodge Shiv Chhatrapati Awardee for Cycling Coach for year 2014-2015 (Declared on 2018, February)**



**Pawanraj Patil Shiv Chhatrapati Awardee of Gymnastics for year 2015-2016 (Declared on 2018, February)**



**Abhinandan Bhosale Shiv Chhatrapati Awardee of Cycling for year 2014-2015 (Declared on 2018, February)**



**Preetali Shinde Shiv Chhatrapati Awardee of Cycling for year 2014-2015 (Declared on 2018, February)**



**Chandrakant Manwadkar Shiv Chhatrapati Awardee of Athletics for year 2014-2015 (Declared on 2018, February)**



**Shraddha Talekar Shiv Chhatrapati Awardee of Gymnastics for year 2015-2016 (Declared on 2018, February)**



**Harshad Wadekar Shiv Chhatrapati Awardee of Weight Lifting for year 2016-2017 (Declared on 2018, February)**



# मनोगत

मॉडर्न महाविद्यालय, गणेशखिंड, पुणे या आमच्या महाविद्यालयाने नुकतेच आपले रौप्यमहोत्सवी वर्ष यशस्वीपणे साजरे केले. या रौप्यमहोत्सवी वाटचालीचे यशस्वी टप्पे चित्रित करणारी 'गरुडझेप' ही स्मरणिकाही या निमित्ताने प्रकाशित करण्यात आली. २०१७-१८ या शैक्षणिक वर्षापासून या महाविद्यालयाची सुवर्णमहोत्सवाच्या दिशेने वाटचाल सुरू झाली आहे. आगामी काळातही महाविद्यालयास असेच यश लाभो, ही सदिच्छा व्यक्त करतो.

आज शिक्षणक्षेत्रापुढे अनेक आव्हाने आहेत. विद्यार्थ्यांचा सर्वांगीण विकास जसा महत्त्वाचा आहे. तसाच त्याच्या रोजगाराचा पण प्रश्न महत्त्वाचा आहे. त्याचबरोबर प्रत्येक विद्यार्थी हा सुजाण व चारित्र्यसंपन्न नागरिक बनावा यासाठी महाविद्यालयांना प्रयत्नशील राहावे लागणार आहे. अर्थातच असे गुणवंत विद्यार्थी घडवायचे असतील तर गुणवत्तापूर्ण उच्च शिक्षण अत्यावश्यक ठरते. या नवयुगाच्या विद्यार्थ्यांसाठी, त्यांच्या उज्वल भवितव्यासाठी विविध कौशल्ये विकसित करणारी नवीन शिक्षण व्यवस्था उभारणे हे खरे आव्हान आहे. त्यासाठी स्वायत्त महाविद्यालयांची नितांत आवश्यकता आहे. जागतिक स्पर्धेच्या दृष्टीनेही ही स्वायत्तता महत्त्वाची ठरणार आहे. एकूणच महाविद्यालयांना असे स्वातंत्र्य मिळाले तर शिक्षणाचा दर्जा टिकविणे, संशोधनपर उपक्रमांना प्राधान्य देणे आणि औद्योगिक क्षेत्रातील मागणीप्रमाणे नवीन अभ्यासक्रम तयार करणे या बाबींवर लक्ष केंद्रित करता येईल असे प्रकर्षाने वाटते. स्वायत्ततेमुळे खऱ्या अर्थाने विद्यार्थीकेंद्रित महाविद्यालये आकाराला येतील. म्हणजे केवळ पदवी घेऊन बाहेर न पडता जीवनाला पूर्णक्षमतेनिशी सामोरे जाणारे सक्षम विद्यार्थी तयार होतील. महाराष्ट्रातील उत्तम शैक्षणिक कामगिरी करणाऱ्या महाविद्यालयांना अशी स्वायत्तता जर मिळाली तर अशी महाविद्यालयांचे उच्च शिक्षणातील आव्हाने अत्यंत समर्थपणे पेलतील असे वाटते. तसेच महाविद्यालयांना स्वायत्तता मिळाली तर विद्यापीठांवरील प्रशासकीय बोजा कमी होणार आहे. आपल्या महाविद्यालयास 'NAAC' च्या मूल्यांकनामध्ये 'A' grade मिळाली असल्याने आपल्या महाविद्यालयांना "स्वायत्तता" (Autonomy) मिळू शकणार आहे. त्या संधीचा फायदा आपल्या शिक्षक-शिक्षकेतर कर्मचाऱ्यांनी घ्यावा

असे वाटते. स्वायत्तता (Autonomy) मिळाल्यामुळे विद्यार्थी, पालकवर्ग, समाज सर्वांनाच त्याचा फायदा होणार आहे.

उच्च शिक्षणाच्या क्षेत्रात आमचे हे महाविद्यालय निश्चितच प्रगतीपथावर आहे. भारत सरकारकडून दिला जाणारा 'स्टार महाविद्यालयाचा दर्जा' प्राप्त केलेले हे पुण्यातील एकमेव महाविद्यालय होय. संशोधन व इतर शैक्षणिक उपक्रमांसाठी फार मोठे अनुदान त्यामुळे या महाविद्यालयास मिळाले आहे. ही अत्यंत अभिमानास्पद घटना आहे. पीएच.डी. पदवी प्राप्त करणाऱ्या प्राध्यापकांची संख्या देखील दरवर्षी वाढत आहे. शैक्षणिक क्षेत्रात विविध पातळ्यांवर उत्तम कामगिरी करणाऱ्या सर्वच प्राध्यापकांचे अभिनंदन! महाविद्यालयाचे प्राचार्य डॉ. संजय खरात हे सावित्रीबाई फुले पुणे विद्यापीठाच्या अधिसभेवर सदस्य म्हणून निवडून आले त्यांचे हार्दिक अभिनंदन!

महाविद्यालयाच्या प्रगतीसाठी अविरत प्रयत्न करणारे पी.ई. सोसायटीचे मान्यवर अधिकारी, महाविद्यालयाचे व्हिजीटर प्रा. डॉ. प्रकाश दीक्षित व स्थानिक व्यवस्थापन समितीचे अध्यक्ष प्रा. सुरेश तोडकर, महाविद्यालयाचे प्राचार्य यांचे या निमित्ताने मनःपूर्वक अभिनंदन सर्व प्रशासकीय अधिकारी व कर्मचारी यांच्या उत्तम कार्यक्षमतेमुळे महाविद्यालयाचे कामकाज सुरळीत पार पाडते, त्यांचेही मी मनापासून अभिनंदन करतो. सर्व पालक व विद्यार्थी यांच्या सहकार्यामुळेच महाविद्यालय प्रगतीपथावर आहे. या सान्यांनाच माझ्या खूप शुभेच्छा!

'यांत्रिकीकरण व मानवीजीवन' या सद्यस्थितीशी निगडित असलेल्या विषयावर आकांक्षाचा अंक प्रकाशित होत आहे. विद्यार्थ्यांचे अभ्यासपूर्ण लेखन यात वाचकांना वाचायला मिळेल याची खात्री आहे. या अंकाच्या संपादक डॉ. संस्कृती आवलागावकर व संपादक मंडळाचे हार्दिक अभिनंदन.

प्रा. डॉ. गजानन र. एकबोटे  
कार्याध्यक्ष पी. ई. सोसायटी  
शिवाजीनगर, पुणे ५



# मनोगत

‘आकांक्षा’ हा आपल्या महाविद्यालयीन नियतकालिकाचा अंक प्रकाशित होत आहे. दरवर्षी काहीतरी नवीन देण्याचा प्रयत्न या अंकाद्वारे होत असतो. याची दखल सावित्रीबाई फुले विद्यापीठाने घेतली असून सर्वोत्कृष्ट नियतकालिकाचा पुरस्कारही आम्हाला मिळाला आहे. या वर्षीही यांत्रिकीकरण व मानवीजीवन हा वास्तववादी विषय या अंकातून मांडला गेला आहे. या निमित्ताने सर्व विद्यार्थी व संपादक मंडळाचे अभिनंदन!

भारत सरकारच्या जैवतंत्रज्ञान विभागाकडून महाविद्यालयास स्टार महाविद्यालयाचा दर्जा प्राप्त झाला. महाविद्यालयाच्या पंचवीस वर्षांच्या इतिहासातील हा सर्वोच्च मानबिंदू आहे. महाविद्यालयाच्या विज्ञान शाखेच्या कामगिरीचे हे भरघोस यश आहे. या प्रक्रियेमध्ये समाविष्ट असलेल्या सर्व प्राध्यापकांचे व प्राचार्यांचे हार्दिक अभिनंदन! शास्त्र शाखेतील प्राध्यापकांनी या योजनेचे महत्व जाणून ती उत्तम रीतीने राबविलेली आहे. हे सर्व प्राध्यापक कौतुकास पात्र आहे.

महाविद्यालयात सातत्याने व उत्साहाने विविध उपक्रम राबविले जात असतात. त्यातले बरेचसे उपक्रम सावित्रीबाई फुले पुणे विद्यापीठाच्या आर्थिक सहयोगाने पार पाडतात. या वर्षीही यशस्वीपणे हे उपक्रम राबविले गेले. याशिवाय प्राणिशास्त्र विभागातर्फे आंतरराष्ट्रीय पातळीवरील परिषदही अभुतपूर्व प्रतिसादात संपन्न झाली. अनेक नामवंत अभ्यासक या निमित्ताने महाविद्यालयात आले. परिषदेच्या विषयाच्या अनुषंगाने उपयुक्त चर्चाही यावेळी करण्यात आली. संगणक विभाग, पदार्थ विज्ञान विभाग, भाषा विभाग, रसायनशास्त्र विभाग यांनी आयोजित केलेली चर्चासत्रे ही यशस्वी झाली. भाषा विभागाने आयोजित केलेल्या चर्चासत्रातील शोधनिबंध पुस्तकरूपाने प्रसिद्ध करण्यात आले. ही आनंदाची बाब होय. रसायनशास्त्र विभागातर्फे यावर्षी ‘रिफ्रेशर कोर्स’ घेण्यात आला. संपूर्ण भारतभरातून खूप चांगला प्रतिसाद लाभला. विज्ञानशाखेच्या वेगवेगळ्या विभागांतर्फे ही विविध विषयांवर कार्यशाळा आयोजित करण्यात आल्या. एकूणच महाविद्यालयाची शैक्षणिक कामगिरी उंचावत आहे हेच या उपक्रमातून सिद्ध होते.

२०२२ मध्ये आमचे महाविद्यालय नॅकच्या प्रक्रियेला पुनश्च सामोरे जाणार आहे. त्यादृष्टीने महाविद्यालयाचे प्रयत्न सुरू आहेत. गुणवत्तापूर्ण शिक्षण ही काळाची गरज आहे. त्यासाठी ‘नॅक’च्या बदललेल्या नियमावलीचे तंतोतंत पालन करणे अत्यावश्यक आहे. त्यासाठी नियोजनबद्ध प्रयत्न महाविद्यालयात सुरू झाले आहे हे चित्र निश्चितच आशादायक आहे.

आज शिक्षण पद्धतीत अमूलाग्र बदल होणे अपरिहार्य आहे. कारण जागतिक पातळीवर भारतीय विद्यापीठांचे नामांकन होत नाही ही चिंतेची बाब आहे. शैक्षणिक धोरणात बदल होत असतांना विद्यार्थ्यांच्या प्रयोगशीलतेस व सृजनशीलतेस वाव देणाऱ्या योजनांचा विचार करण्यात यावा. अभिमत विद्यापीठे व स्वायत्त महाविद्यालये हा या विकासासाठीचा उत्तम पर्याय ठरू शकेल.

२०१७-१८ या शैक्षणिक वर्षात उच्च शिक्षणाच्या क्षेत्रात प्रगती करणाऱ्या सर्व प्राध्यापकांचे अभिनंदन. मा. डॉ. गजानन एकबोटे यांची महाराष्ट्र आरोग्य विज्ञान विद्यापीठ, नाशिक येथे सिनेटसदस्य म्हणून नियुक्ती झाली. सरांचे मनापासून अभिनंदन ! महाविद्यालयाचे प्राचार्य डॉ. संजय खरात यांना सावित्रीबाई फुले पुणे विद्यापीठाच्या अधिसभेचे सदस्यत्व प्राप्त झाले. त्यांचे मनापासून अभिनंदन, डॉ. ज्योती गगनप्रास या अभ्यासमंडळ सदस्य झाल्याबद्दल त्यांचेही अभिनंदन. डॉ. चिंतामणी घाटे, डॉ. नंदकिशोर एकबोटे हे महाविद्यालयाच्या स्थानिक व्यवस्थापन समिती सदस्यांचे पीएच. डी. पदवी संपादन केल्याबद्दल हार्दिक अभिनंदन संस्थेचे कार्याध्यक्ष प्रा. डॉ. गजानन एकबोटे सरांचे बहुमोल मार्गदर्शन नेहमीच आम्हाला लाभते. त्यांची दूरदृष्टी, संघटन कौशल्य, जनसंपर्क या गुणांमुळे महाविद्यालयाची भरभराट होत आहे. प्रा. सुरेश तोडकर यांचे सहकार्य व मार्गदर्शन दैनंदिन कामकाजामध्ये खूपच मोलाचे ठरले. त्यांच्या प्रेरणेने काम करण्याचा उत्साह द्विगुणीत होतो. त्यांच्या प्रती मी कृतज्ञता व्यक्त करतो. संस्थेचे सचिव प्रा. शामकांत देशमुख, व इतर मान्यवर अधिकाऱ्यांच्या सहकार्याशिवाय ही वाटचाल अपूर्ण ठरेल. या सर्वांचेच मनापासून अभिनंदन. धन्यवाद

प्रा. डॉ. प्रकाश दीक्षित  
व्हिजीटर, मॉडर्न महाविद्यालय,  
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# मनोगत

Modern College of Arts, Science and commerce, Ganeshkhind, Pune is one of the leading educational institute in Pune city run by Progressive Education Society, Pune. The College is recently re-accredited by NAAC , Bengaluru and awarded 'A' Grade. The College had recently received 'STAR STATUS' by the Department of Science and Technology, Govt. of India.

The foundation of every 'Nation' Is the 'quality education' to its youth. The aim of education should not be only to impart information to the students and to make them degree holders or specialist in any field, but it should be character building, man making and nation making who can humanize our life by integrating emotional demands with our new knowledge. The education should train the minds of our students to think what is good and what is bad. The education should be 'Progressive' and 'Modern' and should inculcate spiritual, social and moral values amongst the students and it should help in the overall development of the students to become responsible citizen of our country and should stand globally on their own feet.

According to Swami Vivekananda, The complete education should consist of the following four steps .... I) Information, II) Knowledge, III) Wisdom, IV) Enlightenment

Education and youth are closely interlocked together for the future life of youth. Youth is the spring time of life it is a comprehensive process of building up solid personality, molding of responsible citizen into a useful manpower to benefit the fellow beings in the society. Schools and colleges should be the centers of such valuable creations; hence the teachers

should inculcate the importance of same values added things among the students, such as :

## I) MY GOAL (Plan for it)

To get success in life students must have a clear cut idea of what they want to learn, gain and achieve for their future career. Here the role of a teacher is very important and a teacher should explain and guide the students to set a 'SMART GOAL'.

## II) Communication Skills: The Student should be good in communication.

## III) Write your Resume (It speaks a lot about you):

A resume is a documentary record of your contact details, educational qualifications, skills and employment history in a nutshell. As it establishes your details it should be appealing and convincing.

## IV) TEAM WORK (Together everyone Achieves More) :

We know that two or more brains are better result oriented than one. Team work and Team culture always produces better results as it includes many skills.

## V) Time Management:

To get success in your life one should set a 'Goal' and plan it properly to get it done in stipulated time period.

"Without your Involvement you can't succeed, but with your involvement you can't fail." ..... AP J Abdul Kalam.

I take this opportunity to thank an visionary chairman Dr. G. R. Ekbote, Secretary Prof. Shamkant

Deshmukh, Joint Secretary Mrs. Jyotsna Ekbote. Dy Secretary Prof Dt. P.G. Dixit all LMC members for their valuable guidance, constant support and co-operation.

Also my special thanks to our dynamic principal Dr. Sanjay Kharat, all Vice Principals, and Mr. Prakash Renuse and all teaching and non teaching staff members of our college for their contribution, involvement, constant efforts and hard work to take college to a greater level.

My special thanks to all members of advisory committee and editorial committee of the magazine 'AKANKSHA' for making it a memorable.

Thanks a lot.

**Prof. S. V. Todkar**  
Chairman LMC



## Mission Statement

*Our Goal is  
To create and develop  
'Modern' Youth  
as responsible citizens with  
Multidimensional  
Personalities by inculcating  
among Students a blending  
of Cultural awareness,  
Compassionate and  
Progressive attitude,  
Scientific insights and Time-  
tested  
traditional values.*

## संस्था गीत

गरुडभरारी वेगाची - विकासाची - समृद्धीची ॥  
ज्ञानात जागृती देशाची, घातली साद उत्थानाची ॥धृ.॥

हे मंदिर स्थापिले शारदेचे, ज्ञानी गुणी शिक्षकांनी  
ज्ञानमयो भव, व्हा प्रोग्रेसिव्ह, मंत्र दिला गुरुवर्यांनी  
कवच हे 'मॉडर्न' शब्दाचे, क्षितिजे ही समृद्धीची  
गरुडभरारी वेगाची - विकासाची - प्रगतीची ॥

डौलात फुलविल्या, विद्याध्यास घेऊनी निर्मितीचा  
गगनी उगवला ज्ञानसूर्य, अन् तिमिर सरे अज्ञानाचा  
संचालक हे सारे शिक्षक, जोड अलौकिक त्यागाची  
गरुडभरारी वेगाची - विकासाची - प्रगतीची ॥

व्यापार ज्ञानदानाचा कोणी इथे कधी केला नाही  
संस्कारांचा विचार कोणी, अन् कधी त्यागला नाही  
विद्यार्थी व्हावा ज्ञानार्थी, कास धरु या वचनाची  
गरुडभरारी वेगाची - विकासाची - प्रगतीची ॥

नवतंत्रज्ञान मिळो सर्वांना, असू दे रंक, असो राव  
नवमंत्राचे भान मनाशी, नाही स्वार्थाचा भाव  
ना मोहाला थारा, ना आसक्ती धनसंपत्तीची  
गरुडभरारी वेगाची - विकासाची - प्रगतीची ॥

निर्मिती

प्रा. डॉ. गजानन र. एकबोटे  
कार्याध्यक्ष, प्रो. ए. सोसायटी, पुणे  
गीतकार : जयंत जोर्वेकर



# मनोगत

‘आकांक्षा’ हे विद्यार्थ्यांसाठीचे वैचारिक-व्यासपीठ २०१७-१८ चा आकांक्षा या नियतकालिकाचा अंक प्रकाशित होत आहे. त्यासाठीचे मनोगत लिहत असताना महाविद्यालयीन घडामोडींचा व उल्लेखनीय घटनांचा आढावा घेत असताना एक वर्ष मागे जाऊन जेव्हा यशापयशाचे संचित शोधतो तेव्हा जाणवते की आमच्या यशाच्या बाजूच अधिक आहेत. हे यश बघून मन उल्लासित होते व उत्साहाने नवीन योजना मनामध्ये आकाराला येऊ लागतात. या योजनांमुळे व सुख-सुविधांमुळे विद्यार्थी उत्तुंग यशाची शिखरे गाठतील अशी अशा वाटू लागते. अर्थात हा आशावाद खरा ठरण्यासाठी प्रयत्नांची शिकस्त करायची आहे. २०१७-१८ हे आमच्या महाविद्यालयाचे रौप्य महोत्सवी वर्ष होते. या २५ वर्षांतील यशाचा आलेख पाहून सर्वांनाचा आनंद होत आहे. आमच्या संस्थेचे कार्याध्यक्ष डॉ. एकबोटे सर या महाविद्यालयाची प्रगती पाहून भावूक होतात. जुन्या आठवणींना उजाळा देतात. एकेकाळी काही लोकांनी महाविद्यालयाच्या विरोधात रान उठविले, महाविद्यालयात अनेक कटू प्रसंगांना तोंड द्यावे लागले. या प्रसंगातून लावून-सुलाखून निघालेले हे महाविद्यालय आज दिमाखात उभे आहे. अर्थातच डॉ. एकबोटे सरांचे व इतर सर्व घटकांचे अपार कष्ट आहेत. शैक्षणिक क्षेत्रात भरीव कामगिरी करणारे व विद्यार्थ्यांच्या विकासात मोलाचा वाटा उचलणारे महाविद्यालय म्हणून त्यांना या महाविद्यालयाचा सार्थ अभिमान वाटतो. त्यांचा आनंदाने आम्ही सर्व शिक्षक व शिक्षकेतर कर्मचारी भारावून जातो व नवीन संकल्पना राबविण्याच्या कार्याला वाहून घेतो

महाविद्यालयाच्या यशाचा चलपट डोळ्यासमोरून तरळून जातो. सावित्रीबाई फुले पुणे विद्यापीठाचा उत्कृष्ट महाविद्यालयाचा दोनदा पुरस्कार, उत्कृष्ट N.S.S. युनिट अॅवार्ड, उत्कृष्ट विद्यार्थी कल्याण मंडळ अधिकारी पुरस्कार, महाविद्यालयाच्या ‘आकांक्षा’ या नियतकालिकाला सलग तीन वर्षे पुरस्कार, दोन शिक्षकांना जगन्नाथ राठी पुरस्कार, या शिवाय राज्य स्तरावरचा अपारंपरीक उर्जा क्षेत्रात उल्लेखनीय काम केल्याबद्दल महाराष्ट्र राज्य शासनाचा पुरस्कार (MEDA), राष्ट्रीय स्तरावर DST-FIST, DBT-STAR College Scheme इत्यादी मानांकने मिळाली. अत्युच्च शिखर

म्हणजे याच शैक्षणिक वर्षात विद्यार्थी आणि शिक्षक यांनी मूलभूत विज्ञान शाखेमध्ये खूप चांगले काम केले. ज्या विभागांना DBT-STAR College स्कीम होती त्यांनी केलेल्या उल्लेखनीय कामाचे सादरीकरण जालंधर, पंजाब येथे केले आणि आम्हा सर्वांना आनंदाचा क्षण पहायला मिळाला व DBT-STAR STATUS हा दर्जा Department of Biotechnology, Govt. of India Delhi यांनी बहाल केला. या अंतर्गत महाविद्यालयास भरघोस आर्थिक मदत झाली. महाविद्यालयाच्या रौप्य महोत्सवी वर्षाचे उद्घाटन प्रसिद्ध लेखक, समीक्षक, विचारवंत दिलीप पाडगावकर यांच्या हस्ते झाले. वर्षभर विविध कार्यक्रमांची रेलचेल होती. कार्यक्रमाची सांगता एका भव्य कार्यक्रमाने झाली ज्यामध्ये राज्याचे महसुल मंत्री चंद्रकांत पाटील, पालक मंत्री गिरीष बापट, सावित्रीबाई फुले पुणे विद्यापीठाचे कुलगुरु डॉ. नितीन करमळकर तसेच विधानसभेच्या आमदार सौ. मेधा कुलकर्णी, श्री. लक्ष्मण जगताप हे या कार्यक्रमासाठी उपस्थित होते.

संस्थेचे प्रातिनिधीत्व विद्यापीठ स्तरावर असावे असा आग्रह डॉ. एकबोटे सरांचा असतो त्यामुळेच सावित्रीबाई फुले पुणे विद्यापीठाच्या अधिसभा निवडणूकीसाठी मी उभा राहिलो आणि प्रचंड मताधिक्याने निवडून आलो. निवडणूकीचा निकाल लागून महाविद्यालयात प्रवेश केला आणि आश्चर्याचा धक्का बसला. विद्यार्थी, पालक, शिक्षक, शिक्षकेतर कर्मचारी यांनी जल्लोशात स्वागत केले. रणरागीणी ढोल पथकाच्या आमच्या विद्यार्थींनी आनंदाने ढोल वाजवित होत्या. कायमस्वरूपी स्मरणात राहणारा प्रसंग, असाच प्रसंग घडला होता, २०१५ मध्ये मला जेव्हा उत्कृष्ट प्राचार्या हा पुरस्कार सावित्रीबाई फुले पुणे विद्यापीठाने दिला होता. त्या प्रसंगाची पुन्हा आठवण झाली.

महाविद्यालय ही एक प्रयोगशाळा आहे. या प्रयोगशाळेमध्ये १९ वेगवेगळ्या देशाचे, २३ राज्याचे सुमारे पाच हजार विद्यार्थी शिक्षण घेत आहेत. वेगवेगळ्या भाषा, संस्कृती, प्रांत, विविध विद्याशाखा, आणि भविष्याची अनेक स्वप्ने घेऊन येणारे विद्यार्थी आहेत. या सर्वांशी नाते जोडतांना, सर्वांना एका व्यवस्थेत बांधताना खरतर दमछाक होते. परंतू यामध्ये खूप आनंद असतो.

मला सार्थ अभिमान वाटतो माझ्या महाविद्यालयामध्ये शिकणाऱ्या विद्यार्थी-विद्यार्थीनींचा, आमचा विद्यार्थी सर्वेश नवादे भारतातील क्रमांक एकचा NCC कॅडेट ठरला. मा. पंतप्रधानांच्या हस्ते त्याचा सत्कार झाला. आमचे अजून दोन विद्यार्थी RD परेड दिल्ली येथे सहभागी झाले. आमची विद्यार्थीनी अमृता करवंदे ही अनाथ मुलांच्या प्रश्नासाठी एकटी लढली. तिच्या लढ्याला यश आले. महाराष्ट्राचे मुख्यमंत्र्यांनी तिचे कौतुक केले आणि अनाथ मुलांसाठीच्या सरकारी नोकरीसाठी व त्यांच्या शिक्षणासाठी आरक्षण देऊ केले. मला वाटते हे प्रचंड योगदान आहे. पुढे ती NSS ची महाराष्ट्र शासनाची ब्रॅन्ड अम्बेसिडर झाली. आमच्या महाविद्यालयाची श्रीलंकेची विद्यार्थीनी महम्मद मुक्तार फातीमा शाकीरा(T.Y.B.A.) ही या वर्षीची ICCR Representative होती तिने सर्व सावित्रीबाई फुले पुणे विद्यापीठात शिकणाऱ्या ICCR विद्यार्थ्यांचे प्रतिनिधित्व केले. आमच्या सात विद्यार्थ्यांना अत्यंत सन्मानाचा महाराष्ट्र शासनातर्फे खेळात प्राविण्य मिळविणाऱ्या खेळाडूंना दिला जाणारा मानाचा शिवछत्रपती पुरस्कार मिळाला. बऱ्याच विद्यार्थ्यांना सन्मानाच्या विविध स्कॉलरशीप मिळाल्या, या सर्वांचे मनःपूर्वक अभिनंदन!

महाविद्यालयातील प्राध्यापकांनी वर्षभर अनेक नवीन उपक्रम राबविले. सायन्स अॅकॅडमीज बरोबर घेतलेल्या उपक्रमांमुळे आंतरराष्ट्रीय कीर्तीच्या संशोधकांनी महाविद्यालयात येऊन प्राध्यापक, शिक्षक यांच्याशी संवाद साधला. रसानयशास्त्र, जैवतंत्रज्ञानशास्त्र, इलेक्ट्रॉनिक्स, गणित या विषयात राष्ट्रीय स्तरावरील उपक्रम झाले. तसेच प्राणीशास्त्र, सामाजिक शास्त्रे भाषा विभाग या विभागांनी आंतरराष्ट्रीय व राष्ट्रीय स्तरावरच्या कार्यशाळा घेतल्या.

महाविद्यालयाच्या आणि पर्यायाने विद्यार्थ्यांच्या विकासासाठी अनेकविध योजना राबवितांना काही अडचणी किंवा आव्हाने समोर दिसत आहेत. एक तर ज्या विद्यार्थी घटकांसाठी उपक्रम राबवायचे तो घटक सक्रीय सहभागी होतांना दिसत नाही. त्यांच्यापुढे असणारी आव्हाने यांच्याशी परिचय करून देताना त्या आव्हानांना सामोरे जाण्या ऐवजी विद्यार्थी तिकडे पाठ फिरवतात. शिक्षक म्हणून आम्हा समोर हे खूप मोठे आव्हान दिसते आहे. विद्यार्थ्यांमधील काही घटक हे कौशल्ये, शैक्षणिक उपक्रम किंवा समाजाशी बांधल्या जाणाऱ्या उपक्रमात सहभागी न होता आत्ममग्न आणि भौतिक आनंदाच्या मागे लागत आहेत.

आम्ही शिक्षक म्हणून विद्यार्थ्यांशी connect होत नाही. औपचारिकता म्हणून वर्गाला शिकविले जात आहे, त्यात विद्यार्थी

आहे का? या संदर्भात प्रत्येक शिक्षकाने आत्मनिरीक्षण करण्याची वेळ आली आहे. मी, आम्ही, आमचा विभाग, आमच्या जबाबदाऱ्या यामधून बाहेर पडून विद्यार्थीभिमुख होणे हे आवश्यक आहे. महाविद्यालयातील सर्वच घटकांनी आपल्या हक्काविषयी आपण जागृत आहोत तेवढेच आपल्या जबाबदाऱ्याविषयी जागृत राहिले तर मिळालेल्या यशापेक्षा फार पुढचा टप्पा गाठता येईल. महाविद्यालयीन विद्यार्थ्यांचे Employability किंवा Entrepreneurship विकसित होण्यासाठी अजून नेटाने प्रयत्न प्रत्येकाच्या स्तरावरून व्हावेत, असे झाल्यास आजचे विद्यार्थी उद्याचे जबाबदार नागरिक होतील. बेरोजगारीच्या विवंचनेतून मुक्त होऊन चांगला विकसित समाज निर्माण होईल.

महाविद्यालयाच्या मर्यादांची आम्हाला जाणीव आहे. पुणे शहरातील महाविद्यालय असल्याने जागेची अडचण असणारच, त्यामुळे उपलब्ध जागा, इमारती, प्रयोगशाळा, पटांगण किंवा इतर भौतिक सुविधांना मर्यादा आहेत परंतु प्रत्येकाच्या विचारांना, विश्वासाला, नवनवीन कल्पनांना, अवगत केलेल्या ज्ञानाला, ज्ञान वृद्धीगत करण्याला, प्रयोगशिलतेला आणि विनयशिलतेला मर्यादा नाहीत आणि त्यामुळे अजून उत्तुंग यश मिळवण्याची उमेद प्रत्येकाने मनात बाळगली पाहिजे.

मॉडर्न कॉलेज गणेशखिंड हे उच्च शिक्षणाचे एक अद्ययावत केंद्र म्हणून ओळखले जाते. ती ओळख अजून वाढवायची आहे. त्याच्या सीमा फक्त पुणे शहरापुरत्या मर्यादित न ठेवता, राज्य, राष्ट्र आणि आंतरराष्ट्रीय स्तरावर घेऊन जायच्या आहेत म्हणून त्यासाठी आम्ही सर्वजण अथक प्रयत्न करण्यास कटीबद्ध आहोत. या सर्व प्रवासामध्ये आमच्या पाठीशी असणारे आमचे कार्याध्यक्ष डॉ. गजानन एकबोटे, सौ. ज्योत्सना एकबोटे आणि आमच्या बरोबरीने आमच्या कार्यात सहभागी असलेले डॉ. प्रकाश दीक्षित, प्रा. सुरेश तोडकर आणि प्रोग्रेसिव्ह एज्युकेशन सोसायटीचे सर्व नियामक मंडळ सदस्य या सर्वांचे या वेळी विशेष आभार मानतो. यांत्रिकीकरण आणि मानवीजीवन या विषयावर आधारित आकांक्षाच्या या अंकाची निर्मिती करणाऱ्या संपादक मंडळाचे हार्दिक अभिनंदन !

डॉ. संजय खरात  
प्राचार्य



# संपादकीय

**‘यंत्र आहे मी, प्राण यांत्रिक, आगतिक बळी परिस्थितीचा चौवीस तास गुलाम आहे, मानवनिर्मित यंत्राचा’**

या शरच्चंद्र मुक्तिबोध्यांच्या कवितेच्या ओळी आज प्रकर्षाने आठवत आहेत. कारण २०१७-१८ या शैक्षणिक वर्षातील आकांक्षा या महाविद्यालयीन नियतकालिकांचा अंक हा ‘यांत्रिकीकरण आणि मानवीजीवन’ या विषयावर आधारित आहे. या अंकाच्या माध्यमातून या विषयावर विविधांगाने विचारमंथन होणे अपेक्षित होते. आनंदाची बाब म्हणजे विद्यार्थ्यांनी या विषयाला यौम्य न्याय दिला आहे. हा अंक वाचतांना याची प्रचिती वाचकांना नक्कीच येईल.

आज प्रत्येक क्षेत्रात यांत्रिकीकरण झालेले आहे. तसे पाहिले तर औद्योगिक क्रांतीच्या काळात मोठ्याप्रमाणावर यांत्रिकीकरण झालेले दिसते. संगणकाच्या आगमनानंतर या यांत्रिकीकरणाचा वेग झपाट्याने वाढला. इंटरनेटच्या वापरामुळे जम जवळ आले. मोबाईल फोनही तळागाळापर्यंत पोहचला. एकंदरीत या संक्रमणामुळे मानवाचे जीवनमान बदलले. तो पूर्णपणे या यंत्राच्या आहारी गेला. आता यंत्राशिवाय मानवाच्या अस्तित्वाची कल्पनाच करत नाही. मानवाच्या विकासात या यंत्राचा मोठा वाटा आहे. यात शंका नाही. ‘डिजिटल इंडिया’ ‘मैक इन इंडिया’ या भारत सरकारच्या नव्या संकल्पनांमुळे तर या विकासाला मती प्राप्त झाली आहे. पण तरीही ‘यांत्रिकीकरण शाप की वरदान’ अशी चर्चा रंगत असते. यंत्रामुळे बैरोजगारी वाढेल अशी चिंताही व्यक्त होते. पण यंत्र हाताळायलाही प्रशिक्षित मनुष्यबळ लागते. ते जर निर्माण झाले तर ही चिंता अनाटायी ठरेल. नुकतच सौदी अरेबियांनी ‘सौफिया’ या यंत्रमानवाला नामरिकत्व बहाल केले. तेव्हा पुन्हा हे यंत्रमानव (रोबोट) मानवापेक्षा वरचढ ठरणार नाही ना? असा प्रश्न निर्माण झाला. अर्थात असे प्रश्न निकालात काढता येतात कारण यांत्रिक (कृत्रिम) बुद्धिमत्ता लाभलेले हे यंत्रमानव माणसासाठी फारच उपयुक्त आहेत. असाध्य रोगांवर उपचारासाठी, अंतराळ संशोधनासाठी, माहितीचे विश्लेषण करण्यासाठी व मैलौमैल पसरलेल्या देशांच्या सरहद्दीचे रक्षण करण्यासाठी या यांत्रिक बुद्धिमत्तेला शरण जाण्याशिवाय मानवाच्या हातात दुसरा

पर्याय नाही. या संदर्भात प्रसिद्ध शास्त्रज्ञ डॉ. बाळ फोंडके यांचे मत या वस्तुस्थितीवर अचूक प्रकाश टाकते “संगणक हे मानवी मेंदूला वरचढ ठरतात. असा सर्वसाधारण समज असला तरी तो चुकीचा आहे. अनुभवातून शिकणे, त्यातून नवीन कौशल्य आत्मसात करणे, वरवर विसंगत वाटणाऱ्या माहितीच्या तुकड्यांचं एकसाथ तर्कसंगत विश्लेषण करून त्यात सूक्ष्म असलेला रचनाबंध ओळखून काढणे आणि या सर्वांच्या आधारावर तर्कशुद्ध निर्णय घेणे, ही मानवी मेंदूची वैशिष्ट्ये अजूनही संगणकाला लाभलेली नाहीत. पण त्या त्रुटींवर मात करत संगणकाला मानवी मेंदूसारखीच कार्यपद्धती बहाल करण्याचे जोमदार प्रयत्न सुरू आहेत.” (महाराष्ट्र टाइम्स २०.२.१८) वरील विवेचनाच्या आधारे या यांत्रिक बुद्धिमत्तेची दहशत न बाळगता या बदलांना सामोरे गेले पाहिजे. अर्थातच याचा अतिरेक न होता, निसर्गाची हानी न होता आणि विवेकाची कास न सोडता ही प्रगती व्हावी, असे म्हणता येईल. विवेकबुद्धि जागृत ठेवली नाही तर मात्र ‘यंत्राचा गुलाम’ म्हणूनच माणसाची ओळख निर्माण होईल.

गेले तीन वर्षे सातत्याने सावित्रीबाई पुणे विद्यापीठाचा ‘उत्कृष्ट महाविद्यालयीन नियतकालिकाचा पुरस्कार आम्हाला लाभत आहे. ही गौरवास्पद वाटचाल आहे. या अंकांमध्ये लिखाण करणाऱ्या सर्वच विद्यार्थ्यांचे अभिनंदन!

या अंकाची निर्मिती होत असतांना अनेकांचे सहकार्य होते. सर्व विभागाप्रमुख, समिती समन्वयक व सहकारी प्राध्यापकांनी केलेल्या सहकार्यामुळे हा अंक सिद्ध होऊ शकला. सर्वांचे मनापासून आभार मानते. महाविद्यालयाचे प्राचार्य डॉ. संजय स्वरात व तीनही शाखेच्या उपप्राचार्या यांचे मौलाचे मार्गदर्शन या अंकासाठी नेहमीच लाभते. त्यांचेही हार्दिक आभार. संस्थेच्या सर्व मान्यवर अधिकाऱ्यांची अनमोल साथ आम्हाला नेहमीच लाभते. त्यांच्याप्रती मी कृतज्ञता व्यक्त करते.

वाचक या अभिनव अंकांचे स्वागत करतील अशी आशा व्यक्त करते, धन्यवाद!

**डॉ. संस्कृती आवलगावकर**

संपादक



# Congratulations

Best Student Award  
2017-18

Shubham Kathle

## मनोगत

### नमस्कार,

मी शुभम लता बाळासाहेब कथले. मूळचा उस्मानाबाद जिल्ह्यातला. गेली ५ वर्षे झाली पुण्यात शिकतोय. त्यातील ३ वर्षे या आपल्या मॉडर्न महाविद्यालयात, तृतीय वर्ष, कला शाखा, इतिहास विभाग....

महाविद्यालयाचा 'उत्कृष्ट विद्यार्थी' म्हणून हे मनोगत लिहिताना अतीव आनंद होतोय, कारण या पुरस्कारानं मला प्रसिद्धीच्या पलीकडं खूप काही दिलं. फक्त मलाच नाही, तर माझ्या कुटुंबाला, माझ्या गावाला अन् महाविद्यालयात शिकणाऱ्या माझ्यासारख्या अनेकांना, मी अशा परिस्थितीचे, अशा गावाचं नेतृत्व करतो की, जे आपल्यापैकी जवळपास ८०% विद्यार्थ्यांचे आहे. माझे आई-वडील बांगड्यांचा व्यवसाय करतात. आठवडी बाजारात पाल ठोकून दुकान लावतात. घरची परिस्थिती नाजुकच, जी आपल्या सर्वांचीच असते. 'हातावरचं पोट' म्हणतात ना, अगदी तसं!! गावात एकटं कुटुंब असल्यानं उपेक्षितांचं जगणं अनुभवलेलं. ना सन्मान मिळण्याची आशा, ना प्रतिष्ठित जीवनाची अपेक्षा. गृहीत धरणं अंगवळणी पडलेलं. गावात १२-१२ तास लोडशेडिंग. पूर्व-पश्चिम, दक्षिण-उत्तर अशा कोणत्याही दिशेने गेलात अन् तुमच्याकडे स्वतःची गाडी नसेल, तर किमान ३ किमी चालूनच गावात पोहोचावं लागतं.

हे सर्व मांडण्याचं कारण इतकंच की, आपली परिस्थिती आपल्या यशाच्या आड येत नाही अन् मॉडर्न महाविद्यालयात तर नाहीच नाही. यामुळेच हा पुरस्कार मला जास्त महत्त्वाचा वाटतो.

'गावापासून ते पुण्यापर्यंत...

शाळेपासून ते कॉलेजापर्यंत...

फर्ग्युसनपासून ते मॉडर्नपर्यंत...

अन् Student पासून ते Best Student पर्यंत' या सर्व प्रवासातल्या उणिवा मला या महाविद्यालयानं दाखवल्या अन् त्या सुधारण्याच्या अगणित संधी मला दिल्या. महाविद्यालयाला हवा तसा 'आदर्श विद्यार्थी' म्हणून मला घडवलं, वाढवलं आणि असंच घडत राहण्याचं- वाढत राहण्याचं बळ या पुरस्काराच्या माध्यमातून दिलं. पुरस्काराच्या महिनाभर अगोदर बहिणीच्या अकस्मात झालेल्या निधनानं माझ्यासह कोलमडलेल्या माझ्या कुटुंबाला उभं करण्यात या पुरस्कारानं मोठा वाटा उचलला. पण वास्तविकता माणसाला अगतिक बनवते. दि. १३ जानेवारीला बक्षीस वितरण, संक्रांतीचा आदला दिवस अन् आमचा बांगड्यांचा व्यवसाय. इच्छा असूनही पुरस्कार सोहळ्यास कुटुंबीय उपस्थित राहू शकले नाहीत. "पुरस्कारानं पोट भरत असतं, तर आम्ही बाजार बुडवून आलो असतो!!" वडिलांच्या या वाक्यातली व्याकुळता अन् अगतिकता एकाच वेळी माझ्या समोर होती. पण अशा वेळी लागणारं धैर्यही मला या महाविद्यालयानं, इथल्या शिक्षकांनी दिलं. या सर्व गोष्टींसाठी महाविद्यालयाचा नेहमी ऋणी राहीन.

आयुष्याच्या प्रत्येक टप्प्यावर या ऋणातून उतराई होण्याचा प्रामाणिक प्रयत्न असेल. भविष्यात जिथं कुठं असेन तिथपर्यंत पोहोचण्यात 'मॉडर्न'चा मोठा वाटा असेल. प्राचार्य खरात सरांचं मार्गदर्शन, इतिहास विभागाचा मायेचा ओलावा अन् इतर सर्व शिक्षकांची आपुलकी या अमूल्य गोष्टी महाविद्यालयातून मिळाल्या. या सर्वांचा मनापासून ऋणी राहीन. अशा 'विद्येच्या माहेरघराचा उंबरठा' असलेल्या आपल्या मॉडर्न महाविद्यालयाचा 'Best Student' होण्याचा मिळालेला सन्मान माझ्यासाठी सर्वोच्च सन्मान असेल. नेहमीच...!!

शेवटी थांबताना पाडगावकरांच्या काही ओळी आठवतात...

'भिऊन माझ्या सावलीला पळत होतो, नको त्या वळणावर वळत होतो, एकलेपणात हताश होऊन जळत होतो, तुम्ही मला भिजवलंत.'

हिरवंगार रुजवलंत...!

इतकं दिलंत, इतकं दिलंत

इतकं दिलंत तुम्ही मला!

माणूस केलंत तुम्ही मला!!

शतशः धन्यवाद!!

शुभम कथले  
तृतीय वर्ष-कला

## ॥ मॉडर्न गीत ॥

विद्या वैभव विलसे जेथे नाव त्याचे मॉडर्न।

उत्तमाचा ध्यास जेथे तेच असे मॉडर्न।

कानिटकरांच्या स्मृती जागवी प्रोग्रेसिव्ह मॉडर्न।

अडथळ्यांवर मात करितसे विजिगीषू मॉडर्न।

स्वरमाधुरीची तान असो वा 'विविधे'चे ते भान।

संशोधनाची जाण, प्रयत्ने पेटंटस्ची ती खाण।

मैदानावर, संगणकावर सजवी उंच कमान।

स्पर्धा, उपक्रम या सर्वांवर गाजवी राज्य मॉडर्न।

विद्यापीठीय बक्षिसांनी रांजण इथले भरले।

नॅक स्तिमित, अन् छात्रांचे जरीपटके उडाले।

उजळे प्रांगण उत्साहाने नाव त्याचे मॉडर्न।

बालक-पालक-चालक यांचे ऐक्य खुले ते मॉडर्न।

चतुःशृंगी मातेचा आशिष डॉक्टरांस लाभला।

चैतन्याचा अमृतकलश जो त्याचे नाव मॉडर्न।

रजत महोत्सवी मांगल्याचा पथदर्शी वसा मॉडर्न।

पुण्यनगरीवर, सुविध जनांवर ठसा तोच मॉडर्न।

प्रा. उज्वला प्रकाश दीक्षित  
गीतकार



चित्र : सोनिया किरण पराग

## विभाग - 9 यांत्रिकीकरण आणि मानवी जीवन

### श्रेष्ठ कोण- यंत्र की मानव?

मानवा-मानवा, तुझा प्रगतीचा ध्यास,  
 यंत्र-तंत्र-विज्ञानाची तुला नेहमीच आस ।  
 काय वर्णावा महिमा, किती देऊ मी दाखले,  
 उन्नतीच्या मार्गावर जणू सुमन शिंपले ।  
 दूरदर्शनचा शोध, दिला अगाध आनंद,  
 बाल-युवक-वृद्ध होती, मालिकेत धुंद ।  
 दूरदर्शनचा नाद, झाली पटांगणे ओस,  
 आजी-आजोबांच्या गोष्टी यांचा सुरू झाला न्हास ।  
 नवे मिळावे परंतु, जुन्याचाही करावा अंगीकार  
 मेळ दोन्हींचा साधुनी द्यावा जीवना आकार ।  
 जपावी ती माळ, ज्यात संस्कारांचे मोती,  
 त्यांच्या अमृत बिंदूचे जतन, मानवाच्या हाती ।  
 काय अजब अशी ही संगणकाची महती ।  
 किती-किती माहिती एका क्लिकवर हाती ।

मोबाईल विश्वात बालचमू असे दंग,  
 वाचन संस्कृतीचा जणू होत असे भंग ।  
 व्हाॅट्सअॅप, फेसबुक घाली सदोदित साद  
 मूर्त स्वरुपाच्या भेटी जणू होत असे बाद ।  
 मोबाईल मानावा जलद संपर्क साधन,  
 सदा सतर्क राहूनी मिळवावे ज्ञान-धन ।  
 घेता भरारी उंच, की जन्म सोफियाचा झाला,  
 तिच्या आगमनाने जगी झाला बोलबाला ।  
 अशा यंत्रबाहुलीचे, साऱ्या देशास अप्रूप,  
 बोलचाल हालचाल तिचे यांत्रिक ते रूप ।  
 तिच्या निर्मितीचा मानवा, तूच आहे ब्रह्मदेव,  
 तुझ्या तांत्रिक ज्ञानाची असे अमूल्य ही ठेव ।  
 असे सुबक रुपडे, भावनांना नसे वाव,  
 म्हणूनच मानवा, जगी तूच श्रेष्ठ राव ।

राधिका कुलकर्णी  
 एफ.वाय.बी.एस्सी.

# यांत्रिकीकरण आणि मानवाची प्रगती

शाल्मली नरेंद्र साखवळकर

एस.वाय.बी.ए



काही दिवसांपूर्वी सामाजिक माध्यमांतून एक बातमी सारखी येत होती की, सौदी अरेबिया या देशाने 'सोफिया' या यंत्रमानव स्त्रीला आपल्या देशाचे नागरिकत्व देऊ केले. तसे पाहता, ज्या देशात स्त्रियांना अजूनही मतदान करण्याचा व गाडी चालविण्याच्या अधिकारी नाहीत, अशा ठिकाणी वरील घटना म्हणजे एक प्रकारे विरोधाभासच म्हणावा लागेल. प्रश्न हा आहे की, स्त्रियांच्या बाबतीत मागासलेल्या देशात यंत्रमानवाला एवढे महत्त्व का दिले जाऊ लागले आहे? तर, त्याचे उत्तर वाढत चाललेल्या यांत्रिकीकरणात आढळून येते.

यांत्रिकीकरण म्हणजे नक्की काय? औद्योगिक क्रांतीबरोबरच हळूहळू यांत्रिकीकरणाची प्रक्रिया घडू लागली. पूर्वीच्या काळी मोठ्या प्रमाणात मनुष्यबळ वापरावे लागायचे. अनेकदा प्राण्यांचा वापर केला जायचा. दळणवळण, संपर्कक्षेत्रे यांसारख्या महत्त्वाच्या गोष्टी मनुष्यावर अवलंबून असायच्या. वाहतूक करणे किंवा लांबचा प्रवास करावयाचा असेल, तर हवामानाचा विचार करावा लागेच, शिवाय कोणते जनावर त्या प्रवासादरम्यान योग्य आहे, या सर्वांचा विचार करावा लागे. यांत्रिकीकरण म्हणजे या सर्व गोष्टींची

जागा यंत्रांनी घेतली. सेलफोन, कम्प्युटर यांसारख्या यंत्रांच्या माध्यमांद्वारे जग आणखी जवळ आले. कोणत्याही कामासाठी लागणारी मनुष्याची गरज किंवा निसर्गावर अवलंबून राहणे कमी झाले.

यांत्रिकीकरण ही काळानुसार घडणारी प्रक्रिया असून या घटनेमुळे सामाजिक, आर्थिक, राजकीय असे अनेक बदल घडून आलेले आपल्याला दिसतात. यांत्रिकीकरणामुळे मनुष्यबळ जरी कमी लागत असले, तरी मोठ्या प्रमाणात रोजगार निर्माण होऊ लागला. कमी मनुष्यशक्तीचा वापर आणि त्यामानाने रोजगारातून मिळणारे आर्थिक स्थैर्य यांतून कामगारांचे राहणीमान सुधारले. त्यामुळे शिक्षण घेण्याचे प्रमाण वाढू लागले. शिक्षणामुळे प्रचलित राज्यव्यवस्था कशी अन्यायकारक आहे, हे जनतेच्या लक्षात हळूहळू येऊ लागले. ही व्यवस्था उलटून टाकण्यासाठी अनेक ठिकाणी बंड करण्यात आले. थोडक्यात, यांत्रिकीकरणामुळे मनुष्याच्या जगण्याच्या पद्धतीत आमूलाग्र बदल घडून आला.

कोणत्याही नाण्याला ज्याप्रमाणे दोन बाजू असतात, त्याप्रमाणे

यांत्रिकीकरणामुळे होणारे फायदे आणि तोटे दोन्ही आपल्याला दिसून येतात. यात फायदा अधिकाधिक कसा घेता येईल हे शिकायचे, तर होणारा तोटा कमी कसा करायचा त्यासाठी प्रयत्न करायचे.

यांत्रिकीकरणामुळे अनेक क्षेत्रांत चांगले बदल घडून आले. त्यात सगळ्यांत महत्त्वाचे क्षेत्र म्हणजे शिक्षणक्षेत्र. आजही अनेक दुर्गम भागांत शिक्षकांचे प्रमाण अत्यल्प असते. नैसर्गिक आपत्तींमुळे अनेक ठिकाणी शाळा भरवता येत नाही. पुरेशा निधीअभावी शाळांच्या इमारती मोडकळीस आलेल्या असतात. अशा वेळी मुलांच्या शिक्षणाचा प्रश्न येतो. सध्या ई-लर्निंग हा यावरचा चांगला उपाय आहे. यात सर्व विषयांची पाठ्यपुस्तके कम्प्युटरमध्ये नोंद केलेली असतात. शाळकरी मुलांना हे विषय प्रोजेक्टरच्या माध्यमातून व्हिडिओद्वारे दाखवले जातात. त्यामुळे शिक्षकांची उपलब्धता ही अडचण कमी होऊ शकते. वैद्यकीय क्षेत्रातदेखील यांत्रिकीकरणाचा महत्त्वाचा सहभाग आहे. हृदयाशी संबंधित शस्त्रक्रिया या गुंतागुंतीच्या स्वरूपाच्या असतात. या शस्त्रक्रिया इलेक्ट्रिक उपकरणे वापरून केल्या जाऊ लागल्या. कॅन्सरसारख्या गंभीर आजारांतसुद्धा रेडिओ लहरींचा वापर करून बऱ्याचदा तो आटोक्यात ठेवण्याचे प्रयत्न केले जातात. शरीरांतर्गत होणाऱ्या आजारांत, डोळ्यांसारख्या नाजूक अवयवांच्या शस्त्रक्रियेत लॅसिक किरणांचा वापर केला जातो. रोबोटिक्स सर्जरी केली जाते. या गोष्टींमुळे शस्त्रक्रियेमधली सुरक्षितता वाढू लागली आहे.

भारताने इतर राष्ट्रांच्या तुलनेत अगदी कमी खर्चात मंगळमोहीम यशस्वीपणे पार पाडली. भारत स्वतःच्या उपग्रहांबरोबरच इतर देशांचे उपग्रही अवकाशात सोडतो. संशोधनात अगदी सूक्ष्म जीव किंवा एखादा बारीकसा कण बघून तो पदार्थ घनरूप आहे की द्रवरूप यांसारख्या अनेक गोष्टींसाठी यंत्रांचा मोठ्या प्रमाणात वापर केला जातो.

कार्बन डेटिंगच्या साह्याने एखादी वस्तू किती वर्षांची आहे, ती कोणत्या काळातील आहे, किती वर्षे जुनी आहे, हे समजते. जुनी, दुर्मिळ हस्तलिखिते कम्प्युटरमध्ये संग्रहित करून ठेवली जातात. त्यामुळे कोणालाही हे दुर्मिळ ग्रंथ सहजपणे उपलब्ध होतात. गुगल, फेसबुक यांसारख्या माध्यमांतून लोक व्यक्त होतात. स्वतःचे विचार, भावना मांडतात. आपल्याला हवी ती माहिती लगेच उपलब्ध होते.

गुन्हेगारी क्षेत्रात यांत्रिकीकरणामुळे तर बरीच प्रगती झाली.

मनुष्य स्वतःच्या शरीरातून विशिष्ट प्रमाणात उष्णता उत्सर्जित करत असतो. त्याला उष्णतेचे ठसे म्हटले जाते. विशिष्ट प्रकारचे गॉगल लावून ही उष्णता लक्षात येते. त्यामुळे गुन्हेगार कितीही हुशार असला, तरी तो टिपला जातोच. अनेक राष्ट्रांची सुरक्षाव्यवस्था ही अनेक सॉफ्टवेअर तंत्रज्ञानांचा वापर करून कडेकोट ठेवली जाते.

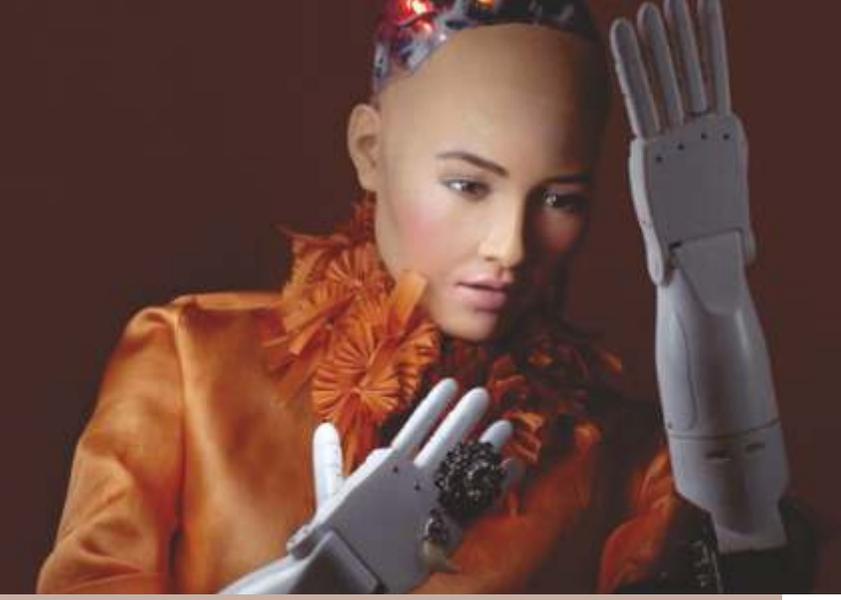
म्हणजेच यांत्रिकीकरणामुळे अगदी सूक्ष्म कणापासून ते अगदी अण्वस्त्रनिर्मिती यांसारख्या क्षेत्रांमध्ये सकारात्मक बदल घडून आले. परंतु नकारात्मक परिणामदेखील तेवढेच गंभीर स्वरूपाचे आहेत.

यांत्रिकीकरणाचा सगळ्यात महत्त्वाचा परिणाम म्हणजेच प्रदूषण. कारखाने, गिरण्या यांमुळे होणारे वायुप्रदूषण असो किंवा ध्वनिप्रदूषण, वाहनांमुळे निर्माण होणाऱ्या समस्या- यांसारख्या गोष्टींचा मनुष्याच्या जीवनावर विपरीत परिणाम होण्याची दाट शक्यता असते.

सामाजिक माध्यमांद्वारे आपण जरी स्वतःला व्यक्त करत असलो तरी आपण कशाबद्दल माहिती बघतो, आपली विचारसरणी काय आहे, आपण कोणत्या धार्मिक गटाच्या बाजूने आहे, आपण कोणाचा तिरस्कार करतो- या सर्व गोष्टींवर काही संघटनांकडून लक्ष ठेवले जाते. या संघटना आपले व्यक्तिमत्त्व कशा प्रकारे आहे याचा अंदाज हळूहळू काढतात आणि बऱ्याचदा वाईट काम करण्यास लोकांना- विशेषतः तरुणांना प्रवृत्त करतात. त्यांची माथी भडकावली जातात. यातूनच दहशतवादांसारख्या गोष्टींचा मोठ्या प्रमाणात प्रसार होतो.

यांत्रिकीकरणामुळे अनेक गोष्टी मानवाला सहज उपलब्ध होतात. त्यामुळे मानवाच्या विचार करण्याच्या शक्तीवर परिणाम होतो. वाचनाची आवड कमी झाल्याने मेंदूची विचार करण्याची ताकद कमी होते. अनेकदा देशाची गुप्त कागदपत्रे, अतिगोपनीय दस्तऐवज, सुरक्षायंत्रणा या सायबर तंत्रज्ञानाने सुरक्षित केलेल्या असतात; परंतु हॅकर्स या सर्व गोष्टी फोडण्याचा धोका असतो. त्यामुळे राष्ट्रीय सुरक्षिततेला धोका निर्माण होतो.

अशा प्रकारे यांत्रिकीकरणाचे फायदे आणि तोटे हे दोन्हीही मनुष्यजीवनावर प्रभाव पाडतात. अडचण एवढीच आहे की, आपण यंत्रांच्या वापरावर नियंत्रण ठेवले पाहिजे. मनुष्याने मला त्रास होईल असे कृत्य केलास मी त्याचा नाश करण्यास मागे-पुढे पाहणार नाही, हे सोफियाचे शब्द अनेक अर्थानी गंभीररीत्या लक्षात ठेवावे लागतील.



## यंत्राचे मानवीकरण

भामरे मोहित भगवान

टी.वाय.बी.एस्सी.

राज्यस्तरीय निबंध स्पर्धा - प्रथम क्रमांक

-कर्मवीर रामरावजी आहेंर महाविद्यालय,

देवळा, नासिक.

सध्या जग आधुनिक झाले आहे आणि सर्व जग विज्ञानाच्या बळावर खूप मोठी क्रांती करत आहे. तसेच कृत्रिम बुद्धिमत्ता आता नव्या आव्हानात्मक वळणावर पोचली आहे. सोफिया या यंत्रमानवाला सौदी अरेबियाने नागरिकत्व प्रदान केल्यामुळे जगभरात ती चर्चेचा विषय ठरली आहे. एकीकडे आर्टिफिशियल इंटेलिजन्सचं प्राबल्य वाढत असताना या यंत्रमानवाला नागरिकत्व मिळाल्यानं त्याचे पुढे काय पडसाद उमटत राहतील, याबाबत उत्सुकता आहे. ही सोफिया नक्की आहे कशी, तिला मिळालेली 'बढती' निरुपद्रवी आहे की भविष्यात यंत्रमानव बलशाली होण्याची ही एक चुणुक आहे, मानव आणि यंत्रमानव यांच्यातला भविष्यकालीन सामना कसा असेल आदी अनेक गोष्टींचा ऊहापोह.

रियाधमध्ये दहा दिवसांपूर्वीच्या दोन घोषणांमुळे संपूर्ण जगाचं लक्ष सौदी अरेबियाकडे वळलं. पहिली घटना होती, ती सोफिया या रोबोला नागरिकत्व बहाल करण्याची आणि दुसरी होती, ती संपूर्णतः रोबोचं शहर विकसित करण्याची! कृत्रिम बुद्धिमत्ता आणि तिचा निर्माता मानव यांच्यात खरंच कधी तरी संघर्ष होईल? यंत्र स्वतःच स्वतःची निर्मिती करू शकतील? कृत्रिम बुद्धिमत्तेचा भस्मासुर होईल?... अशा अनेक प्रश्नांची मालिका 'सोफिया'ला सौदी अरेबियानं नागरिकत्व बहाल केल्यानं अनेकांच्या मनात निर्माण झाली असेल. कृत्रिम बुद्धिमत्तेच्या क्षेत्रातलं हे महत्त्वाचं पाऊल आहे; पण यापेक्षा मोठ्या गोष्टी अद्याप घडवायच्या आहेत. कृत्रिम बुद्धिमत्ता हा शब्दप्रयोग सर्वप्रथम वापरला तो संगणकशास्त्रज्ञ जॉन मॅकार्थी यांनी १९५६ मध्ये, डार्टमाऊथ विद्यापीठातल्या परिषदेत बोलताना.

तेव्हापासून आतापर्यंत या क्षेत्रात फार मोठी झेप घेतली गेलीय. यांत्रिकीकरणाचे दोन टप्पे मागे पडून आता रोबोचं शहर वसवण्याकडे प्रवास सुरू झाला. जॉर्डन आणि इजिप्त या दोन्ही देशांच्या मध्ये सौदी अरेबियाचा एक भाग येतो. सुमारे २६ हजार ५०० चौरस किलोमीटर क्षेत्रात या भागात नवं औद्योगिक शहर वसवलं जाणार आहे. 'निओम' असं त्याचं नाव असेल. सौर आणि पवनऊर्जेवर सर्व व्यवहार चालतील. हे शहर पूर्णत्वाला गेल्यानंतर तिथे माणसापेक्षा रोबोची संख्या जास्त असेल.

आधुनिकता, कल्पकता आणि नवं तंत्रज्ञान याचं दर्शन या शहरातून घडणार आहे. महिलांच्या बाबतीत प्रतिगामी समजल्या जात असलेल्या देशांना सोफिया नावाच्या एक रोबोला नागरिकत्व देणं आणि रोबोच्या शहराचा आराखडा सर्वासमोर उलगडणं ही घटना अविश्वसनीय मानली जाते. रियाधमधल्या 'फ्युचर इन्व्हेस्टमेंट इनिशिएटिव्ह' परिषदेत सौदी राजपुत्र मोहंमद बिन सलमान यांनीच पाचशे अब्ज डॉलरची गुंतवणूक असलेल्या या नव्या शहराची घोषणा केली. ज्या प्रकारच्या शहराचा विचार करायला पुढारलेले पाश्चिमात्यही धजावत नव्हते, अशा या शहराची घोषणा सौदी अरेबियानं केली. निओम शहर 'ड्रोन फ्रेंडली' असेल. म्हणजे, सर्व व्यवहारांवर ड्रोनची नजर असेल. रोबोटिक्सचं ते जगातलं सर्वांत मोठं केंद्र असेल. असामान्य, स्वप्नवत् गोष्टी इथं प्रत्यक्षात उरतील. अॅल्युमिनियमच्या क्षेत्रातली मोठी कंपनी असलेल्या अल्कोआचे माजी प्रमुख क्लौस क्लेइन्फिल्ड यांची शहराचे मुख्य कार्यकारी अधिकारी म्हणून नियुक्तीही करण्यात आली, यावरून सौदीच्या कामाचा वेग लक्षात येईल.

सौदी अरेबिया फक्त खनिज तेल आणि नैसर्गिक वायूनं समृद्ध नाहीये, तर भरपूर सूर्यप्रकाश आणि जोरदार वारे या त्यांच्या जमेच्या बाजू आहेत. त्यांचाच वापर करून शून्यातून हे शहर वसवलं जाणार आहे. ऊर्जा, पाणी, जैवतंत्रज्ञान, रोबोटिक्स, सुरक्षा, लॉजिस्टिक्स, होम डिलिव्हरी अशा क्षेत्रांमध्येही निओम शहरात संशोधन होणार आहे. ज्येष्ठ नागरिकांकडे बघण्यासाठी घरी कोणी नाही, अशी परिस्थिती अनेकदा निर्माण होते. त्यांच्याकडे लक्ष ठेवण्यासाठी रोबॉची मदत घेतली जाऊ शकेल. हाही विचार कृत्रिम बुद्धिमत्तेवरील संशोधन करताना सौदी अरेबियान डोळ्यांसमोर ठेवला आहे. येत्या १३ वर्षांत म्हणजे २०३० पर्यंत निओम वसवण्याचं उद्दिष्ट ठेवण्यात आलं आहे.

सोफिया या यंत्रमानवाला हाँगकाँगमधल्या 'हॅन्सन रोबोटिक्स'चे संस्थापक डेव्हिड हॅन्सन यांनी तयार केले. ही कंपनी मानवासारखे दिसणारे, काही प्रमाणात कार्य करणारे रोबो तयार करण्यासाठी प्रसिद्ध आहे. सोफिया प्रसिद्ध हॉलिवुड अभिनेत्री ऑडी हेपबर्नसारखी दिसणारी आहे. या सोफियामुळं साऱ्या जगाचं लक्ष पुन्हा एकदा कृत्रिम बुद्धिमत्ता या विज्ञान-तंत्रज्ञान शाखेकडं गेलं आहे.

ह्याच कृत्रिम बुद्धिमत्तेच्या जोरावर भविष्यात यापेक्षाही आश्चर्यकारक कामगिरी करणारी यंत्रं निर्माण होऊ शकतील आर्टिफिशियल इंटेलिजन्सपुढची औद्योगिक क्रांती म्हणून आकार घेत आहे. एके काळी विज्ञानकथालेखकांचा हा कल्पनाविलास होता; मात्र आता ही कृत्रिम बुद्धिमत्ता आपल्या दैनंदिन जीवनात प्रत्यक्षात येताना दिसत आहे. कृत्रिम बुद्धिमत्ताप्रणालीनं गेल्या काही वर्षांपासून आपल्या आयुष्यावर मोठा प्रभाव पाडायला सुरुवात केली आहे, असं दिसतं. दैनंदिन हवामानाचा अंदाज, ई-मेल, स्पॅम फिल्टर करणं, गुगलचं सर्च इंजिन आणि आवाज ओळखणं (स्पीच रेकग्निशन), ऑपलचा सिरी अशी उदाहरण घेता येतील. या तंत्रज्ञानामध्ये महत्त्वाचं म्हणजे मशिन-लर्निंग अल्गोरिदम संगणकाला आणि यंत्रज्ञानवाला प्रत्यक्ष वेळेमध्ये (रिअल टाइम) प्रतिसाद देण्यासाठी आणि घेण्यासाठी सक्षम करतं. कृत्रिम बुद्धिमत्ताप्रणाली विकसित आणि उत्क्रांत होत असताना थोड्याफार प्रमाणात विविध स्तरांवर चर्चा आणि विरोध होतील, परंतु कार्यक्षमतेच्या दृष्टीनं समाजावर सकारात्मक प्रभाव नक्कीच पडणार.

अर्थात हे सगळं सुरू झालं असलं, तरी कृत्रिम बुद्धिमत्ता या विषयाचा विकास सुव्यवस्थित आणि कार्यक्षम नव्हता. १९५६ मध्ये एक रोमांचक, कल्पनारम्य संकल्पना म्हणून सुरुवात झाली; पण १९७० च्या दशकात कृत्रिम बुद्धिमत्तेसंबंधीच्या अनेक प्रकल्पांमध्ये प्रगतीचा अभाव असल्याची टीका झाल्यानंतर संशोधन निधी कापला गेला. मात्र, या क्षेत्रातील संशोधक त्यांचं

ध्येय प्रस्थापित करण्यासाठी अतिशय आशावादी होते. साधारण याच काळात फझी लॉजिक, कृत्रिम उत्क्रांती, न्यूरल नेटवर्क इ. उपशाखांचा पाया घातला गेला. १९८० ते ९० च्या दशकात एआयचा प्रवास मुख्यतः संभाव्यता सिद्धांताच्या आधारे सुरू होता. साधारणपणे १९९० ते २००० च्या दशकामध्ये, व्यावहारिक एआयमध्ये अधिक प्रगती चांगल्या प्रगत हार्डवेअरमुळे झाली. १९८५ मध्ये डिकमन्सनं एक द्रुतगती दृष्टी आधारित रोबो कार बनवली. ती स्वयंचलितपणे एक हजार मैलांचं अंतर ताशी १२० मैलांच्या वेगानं धावू लागली. जपानी संशोधन संस्थांनी (होंडा-सोनी) यंत्रमानव बनवले. बुद्धिबळ विश्वविजेता गॅरी कास्पारोव्हला वेगवान आयबीएम कॉम्प्युटरनं हरवलं. याचं काळात वेगवान संगणकावर भाषण ओळखणं, संख्याशास्त्रीय मशीन अनुवाद, संगणकदृष्टी, ऑप्टिमायझेशन इत्यादी गोष्टी सहजपणे करणं शक्य झालं. सामान्यतः नव्वदच्या दशकात मज्जासंस्थांच्या जाळ्यांशी (न्यूरल नेटवर्क) संबंधित असलेल्या मूलभूत सिद्धांतांना मात्र जलद संगणकांची प्रतीक्षा २००० पर्यंत करावी लागली. नवीन सहस्रकात कृत्रिम बुद्धिमत्तेचे गणिती सिद्धांत उदयास आले, तर तर्कशास्त्रविषयक संगणकविज्ञान आणि संभाव्य सिद्धांताचा एकत्रितपणे वापर करून 'इंटेलिजन्ट एजंट' बनवण्यात आले. चालू दशकात 'डीप लर्निंग'सारख्या नवीन संशोधनामुळे औद्योगिक क्षेत्रात क्रांती घडून येत आहे.

मित्रहो, हे जग कितीही यांत्रिकी झाले, तरी लोकांची मानसिकता बदलली पाहिजे. कारण सौदीत महिलांवर अनेक निर्बंध आहेत. त्यांना कुणी तरी पुरुष 'पालक' असावाच लागतो. हिजाब वा बुरखा घातल्याशिवाय त्यांना बाहेर पडता येत नाही. सौदीतल्या एखाद्या महिलेनं परदेशी नागरिकाशी लग्न केल्यास तिच्या मुलांना नागरिकत्व दिलं जात नाही. बहारिन, कुवेत, लेबनॉन आणि जॉर्डनमध्येही महिलेनं परदेशातील पुरुषाशी विवाह केल्यास तिच्या मुलांना नागरिकत्व दिले जात नाही. असं असताना एका रोबोला महिला समजून नागरिकत्व दिल्याने तिथल्या महिलांनी रोष व्यक्त केला. 'रोबोला नागरिकत्व, मात्र माझ्या चार वर्षांच्या मुलीला नाही, हा खास न्याय!' अशी प्रतिक्रिया हदील शेख हिनं व्यक्त केली. तिने लॅबनॉनी नागरिकाशी लग्न केलं आहे. सौदी अरेबिया हा सुन्नी मुस्लिमांचा कर्मठ देश आहे. गेल्या महिन्यांतच त्यांनी महिलांना मोटारी चालवण्याची, तसंच स्टेडियममध्ये सामने बघायला जाण्याची पहिल्यांदाच परवानगी दिली. सुधारणेचे वारे वाहण्याची ही सुरुवात म्हणावी लागेल.

सोफियाच्या निमित्तानं अरब देशांमध्ये महिलासमानतेची चळवळ सुरू झाली, तरी आधुनिक विज्ञानाचं ते मोठं यश असेल.

# संभाषणाचे यांत्रिकीकरण

स्नेहा चव्हाण  
एस.वाय.बी.ए.

रात्री जेवायची वेळ होती. घरातले सर्व जण जेवायला बसले होते. आईने सोन्याला विचारले, “बाळ, भाजी वाढू का?” पण सोन्याचे लक्ष नव्हते. आईने पुन्हा विचारले, तरी आईच्या बोलण्याकडे सोन्याचे लक्ष नव्हते. शेवटी सोन्याची धाकटी बहीण उठली आणि पप्पांचा मोबाईल घेऊन आली. मोबाईलवरती whatsapp चे Application उघडले आणि सोन्याला केला- “अरे सोन्यादादा, तुझ्या ताटातील भाजी संपली आहे आणि आई तुला विचारते आहे, तुला भाजी वाढू का?” तेव्हा कुठे सोन्याने तो मेसेज पाहिला आणि म्हणाला, “नको आई, माझे पोट भरले आहे.” F. Y. B.sc. मध्ये शिकणारा सोन्या आणि असे असंख्य तरुण आज मोबाईलच्या दुनियेत इतके मग्न झालेले असतात की, आईची हाकसुद्धा त्यांच्यापर्यंत पोहोचत नाही.

माणसाला माणसाशी जोडण्यासाठी whatsapp चे Application बनवले. मात्र आजची युवा पिढी या whatsapp च्या आहारी इतकी गेली आहे की, त्यांच्या संवेदना तर बधिर झालेल्याच आहेत, पण मनेही ओस पडताना दिसू लागली आहेत. आज आपण facebook, whatsapp वर अगदी मित्र-मैत्रीणींना दररोज भेटतो. न विसरता सकाळी Good morning आणि रात्री Good night हे संदेश पाठवितो. पण जेव्हा ती मैत्रीण किंवा तो मित्र प्रत्यक्षात समोर येतो, तेव्हा फक्त Hi बोलून पुढे होतो. आज whatsapp वर अगदी आपल्या लहानपणाच्या मैत्रीणीला न विसरता विचारतो, “जेवलीस का? कशी आहेस? कसा होता आजचा दिवस?” पण तेच किती मुलं आपल्या आईला विचारतात- “जेवलीस का? कशी आहेस?” आज आपण घरात आलो की, एक कोपरा पकडतो आणि chatting करते बसतो; पण किती जण आजीबरोबर, आईबरोबर मनमोकळ्या गप्पा मारतात ?

आजकाल सर्व मित्र-मैत्रीणी फक्त twitter, whatsapp किंवा FB वरच भेटतात. ज्यांच्या हातात आधी बॅट आणि बॉल असायचा, आज त्यांच्या हातात सतत मोबाईलस दिसतात. पूर्वी चित्रपट बघायला सर्वांना ओढून आणणारे आता एकट्यानेच चित्रपट बघतात आणि एकटेच हसतात. दिवाळीच्या दिवशी एकमेकांच्या घरी जाणारे हे आता मोबाईल वर एक मेसेज करून मोकळे होतात. प्रत्यक्षात भेटले की, बोलायचं काय- हा मोठा प्रश्न असतो? कारण chat वरच सगळे विषय संपलेले असतात ना! पूर्वी तास संपतोय कधी आणि मी बाजूला बसणाऱ्या मित्राशी बोलतोय कधी, असं वाटायचं. आता मात्र काळ बदलला आहे. काळाबरोबर परिस्थिती बदलली. आता असं वाटतं- तास संपतोय कधी, शिक्षक बाहेर पडतायत कधी आणि मी मोबाईल उघडतोय कधी!

आज नवे लागलेले शोध आणि त्यामुळे होणारे परिवर्तन ही खूप महत्त्वाची बाब आहे. माणसाने यंत्रणांचे शोध तर लावले, पण त्यामध्ये माणूस त्याचं अस्तित्व गमावत चालला आहे. Blue whale या Game मधून सगळ्यांनाच कळले असेल की, माणसाने यंत्र बनविले. पण आज माणूसच त्याचा गुलाम होत चालला आहे. म्हणजे आजकाल माणसं मोबाईलशिवाय त्यांच्या जीवनाची कल्पनाच करू शकत नाहीत. मोबाईल ही एक यंत्रणा मी या लेखात मांडली आहे. पण असंख्य यंत्रणा आणि त्यामुळे झालेले यांत्रिकीकरण आज खरंच खूप दुष्परिणामांना आपल्याला सामोरे जावे लागत आहे. या यंत्रणा जेवढ्या चांगल्या तितक्या वाईटदेखील आहेत. या यंत्रणांनी आपला देश प्रगती करेल यात काही शंकाच नाही; पण त्यात माणूस स्वतःची ओळख, कल्पनाशक्ती, विचारक्षमता गमावत आहे, हेही तितकंच खरं आहे.

# अजून जरा...



शांतिनी सुतार  
टी.वाय.बी.ए.

काही दिवसांपूर्वी इरिका नावाच्या Human Robot ची मुलाखत बघितली. तिला बघून डोळ्यांचे पारणे फिटावे एवढी ती सुंदर आहे, तिला ऐकून डोकं सुन्न व्हावे एवढी ती हुशार आहे. पण दिसायला अगदी तुमच्या-आमच्यासारखी मानवी. फार कौतुक वाटले तिचे अन् तिला बनवणाऱ्या जपानच्या डॉ. हिरोशी इशिमुरो यांचे. काही वर्षांपूर्वी भविष्यकाळ वाटणाऱ्या रोबोटिक युगाची नांदीच या वर्षी झाली म्हणायची. त्या बातमीनंतर खरंच डोक्यात विचारमंथन निर्माण झाली. किती अद्भुत, मोठं, गतिमान, प्रगत अन् 'यांत्रिक' जग निर्माण करण्याची स्वप्नं बघतोय ना आपण. आपलं जगणं सोपं, सुकर आणि सोईस्कर करणाऱ्या या यंत्रांचे किती आभार मानायचे? बरं, त्यांना भावना नसतात, त्यामुळे 'कृतघ्न' वगैरे होऊच शकतो आपण.

सकाळी उठल्यावर पाणी गरम करण्यापासून ते झोपताना गारवा मिळावा इथवर सगळ्या प्रकारे व्यापून टाकलंय या यंत्रांनी आपल्याला. बऱ्याचदा याबाबतची तक्रार मांडणारे लेख वाचते, व्याख्यान ऐकते; पण मला नाही तक्रार या यंत्रांबद्दल, त्यांचं माझ्या आयुष्याचा अविभाज्य भाग होण्याबद्दल. तेही एखाद्या Family Member सारखे वाटू लागलेत आता. यंत्रांचे किती फायदे आहेत अन् किती तोटे, हे विश्लेषण बरीच वर्षे चालत आलंय. पण मी जेव्हा या यंत्रयुगाबद्दल विचार करते, तेव्हा मला थोडं वेगळं मत मांडावं वाटतं.

एवढी प्रगती केलीये, एवढे फायदे उपभोगतोय आपण या

यंत्रांचे; पण माणसाची Basic वृत्ती माझ्यातही असल्याने मला 'अजून जरा' अपेक्षा आहेत या यंत्रांकडून.

सातासमुद्रापार असलेल्या आपल्या माणसाशी Video Call करून बोलणं-पाहणं शक्य करून दिलं, या यंत्रांनी आपल्याला. पण त्यांना अनुभवणं अजूनही Miss करतो आपण. मला नेहमी वाटतं-असं कुठलं तरी यंत्र बनावं, ज्याने त्या दूरदेशी असलेल्या आपल्या प्रिय माणसाला आपला स्पर्श जाणवावा. क्षणात वस्तू पाठवता याव्यात, आपण बनवत असलेल्या पदार्थांचा सुवास पाठवता यावा किंवा काही मिनिटांत तिकडे जाता यावं. परिकथेतील प्रत्येक जादू या यंत्रांनी करून दाखवावी. खूप पुढचा अन् जवळजवळ अशक्य वाटणारा विचार करतेय ना मी! पण कदाचित पुढच्या काही वर्षांत हे खुद्द आपल्या साक्षीने घडेलही.

माझ्या या कल्पनेतून, अपेक्षांमधून माणसांचं हृषापलेपणं दिसतंय असे वाटेलही. पण तरी या यंत्रांनी, या मित्रांनी हे सगळं-सगळं करावं, असे ठामपणे वाटतंय मला. कारण आता ही यंत्रे फक्त यंत्रे राहिली नसून अपेक्षांचं ओझं न वाटणारी आपली जोडीदार बनली आहेत.

ता. क. - हा पूर्ण लेख लिहिताना मला राहून-राहून मी इथे व्हॉट्सअॅपच्या Smiley का वापरू शकत नाही, याची खंत वाटत होती. माझी (आपली) यंत्रांची सवय दाखवायला हे पुरेसं आहे! नाही का?

# यांत्रिकीकरण-एक अद्भुत शक्ती

हणमंत बळीराम शिंदे  
टी.वाय.बी.ए.



यांत्रिकीकरणाची खरी सुरुवात झाली युरोप खंडात. आशिया खंडात यांत्रिकीकरण होण्यास बराच वेळ लागला. भारतात यांत्रिकीकरण यायला तर विसावें शतक उजाडलं. खऱ्या अर्थाने १९९१ ला भारताने LPG हे धोरण स्वीकारून यांत्रिकीकरणाचे स्वागतच केले. या धोरणानुसार जागतिकीकरण हे एक तत्त्व होते. या तत्त्वानुसार परकीय कंपन्या आपल्या देशात येऊन उद्योग-धंदे उभारू लागले व धंद्यात ते यंत्राचा वापर करू लागले. त्यांना माहिती होतं की, ही यंत्रं मानवापेक्षा चांगले व कमी वेळेत जास्त काम करतात. म्हणून परकीय कंपन्या आज जास्तीत जास्त यंत्रांचा वापर करतात.

संगणकाचा शोध चार्ल्स बॅबेज यांनी अमेरिकेत लावला. प्रथम तो अमेरिकेत प्रचलित झाला. नंतर तो युरोपात पसरला. २००० मध्ये म्हणजेच २१व्या शतकात भारतात आला. दूरध्वनीचा शोधसुद्धा युरोपातच ग्रॅहम बेल यांनी लावला. २०व्या शतकात भारतात दूरध्वनीची सुरुवात झाली. दूरचित्रवाणीचा शोध सुद्धा युरोपातच लागला. जॉन लॉगी बेअर्ड यांनी त्याचा शोध लावला. भारतात दूरचित्रवाणीचा शोध लागायला २० वं शतक उजाडलं.

१९५९ मध्ये दिल्ली प्रथम दूरचित्रवाणी सुरू झाली. भारतात प्रत्येक यंत्र यायला २० वं शतक उजाडलं. कारण भारतात संगणकाचा वापर होत नव्हता. २० व्या शतकात संगणक भारतात आला व भारतात यंत्रयुगाची सुरुवात झाली. राजीव गांधी सरकारने हे महत्त्वाचं पाऊल उचलून देशाला विकासाकडे नेण्याचं पहिलं पाऊल उचललं. भारतात १८५४ मध्ये पहिली रेल्वे धावली. लॉर्ड डलहौसी यांच्या नेतृत्वाखाली मुंबई ते ठाणे आणि भारतात रेल्वेचे जाळे पसरत गेले. त्यामुळेच भारतात आज मेट्रो ट्रेन, बुलेट ट्रेन यांसारख्या आधुनिक यंत्रांचा वापर केलेल्या रेल्वे सुरू झाल्या. त्याचं श्रेय हे यांत्रिकीकरण या पद्धतीलाच जातं.

आज जगात इस्त्राईलच्या शेतीचे कौतुक केले जाते, कारण त्या देशात आधुनिक यंत्रांचा वापर करून शेती केली जाते. इस्त्राईल या देशातील प्रत्येक शेतकरी हा आपल्या शेतात यंत्रांचाच वापर करतो, मग ते पेरणी यंत्र, फवारणी यंत्र वा कापणी यंत्र असो. ट्रॅक्टरच्या साहाय्याने शेतीतील सर्वच कामे केली जातात. शेतात पॉलिहाऊस करून पीक घेतलं जातं व उत्तम रीतीने उत्पादन घेतलं जातं. ही सर्व यंत्रं भारतात यायला २० वं शतक उजाडलं आहे. खरंच,

यांत्रिकीकरणामुळे शेतीचे उत्पादन योग्य रीतीने व जास्तीत जास्त घेता येते. आज शेतकऱ्यांनं जर या आधुनिक यंत्रांचा वापर जर केला नाही, तर तो खरंच उत्पादनात मागे राहिल. कारण आज जगात शेतीक्षेत्रात अनेक देशांनी खूप मोठी प्रगती फक्त या यांत्रिकीकरणामुळेच केली, असंच म्हणावं लागेल. भारतात आज खूप मोठ्या प्रमाणात शेतकरी आधुनिक यंत्रांचा वापर करताना दिसतात.

आज मानव आपल्या रोजच्या दैनंदिन जीवनात यंत्राचा सहज वापर करतो. सकाळी उठल्यापासून ते संध्याकाळी झोपेपर्यंत मानव वेगवेगळ्या यंत्रांचा वापर करतो. यंत्राचा वापर ही मानवाची गरजच बनली आहे. सकाळी उठल्यावर मानव मोबाईल, टी.व्ही., लॅपटॉप, संगणक, टूव्हीलर, मोटार, रेल्वे, विमान, लिफ्ट अशा अनेक यंत्रांचा वापर करतो. आज देशात सर्वच क्षेत्रांत यांत्रिकीकरणाचा सर्वास वापर केला जातो. मग ते शेतीक्षेत्र, सेवाक्षेत्र, उद्योग क्षेत्र असो- या तीनही क्षेत्रांमध्ये यांत्रिकीकरणाचा वापर केला जातो. संगणकासारख्या शोधामुळे आज आपली किती तरी माहिती साठवली जाते. भारतात याचा सर्वांत जास्त वापर उद्योगक्षेत्रात केला जातो, नंतर सेवाक्षेत्रात व तृतीय क्रमांकावर शेतीक्षेत्रात कमी प्रमाणात केला जातो. मोठ्या उद्योगक्षेत्रात उदा. Tata उद्योगसमूह, Reliance उद्योगसमूह अशा अनेक उद्योगांमध्ये यंत्रांचा जास्तीत जास्त वापर केला जातो. IBM सारख्या कंपनी यांत्रिकीकरण निर्माण करण्याचं काम खूप मोठ्या प्रमाणात करतात.

आज यांत्रिकीकरणामुळे मानवाला संपूर्ण व्यवहार करणं सहज शक्य होते. याच यांत्रिकीकरणामुळे जग आता जवळ आलं आहे. आपण आज सहज कोणत्याही देशातील व्यक्तीशी बोलू शकतो. देशात कुठेही सहज संदेश पाठवू शकतो. आज आपण याच यांत्रिकीकरणामुळे Whatsapp, Fesbook, Google, Fax, E-mail अशा अनेक अॅपचा वापर करून कोणालाही सहज संदेश पाठवू शकतो. याचा उपयोग मानवाच्या दैनंदिन जीवनात खूप मोठ्या प्रमाणात होतो. भारत सरकारने Digital India सारखे अभियान राबवून देशात यांत्रिकीकरणाचं जाळं निर्माण करण्याचं काम केलं जातंय. आज देशात Banking क्षेत्रात जास्तीत जास्त यांत्रिकीकरणाचा वापर केला जातो. Banking मग ते ATM, Debit Card, Credit Card, SMS Banking, Online Banking, Net Banking असो-अशा अनेक आधुनिक यंत्रांचा वापर करून नव्या सुविधा उपलब्ध केल्या जातात. कार्ड स्वाइप मशीन, पेटिएम अशा आधुनिक सुविधा दिल्या जातात. आज

कोणत्याही क्षेत्राचा विकास करायचा म्हटलं तर यांत्रिकीकरण गरजेचं आहे, त्याशिवाय दुसरा पर्यायच नाही. आज जगात विकसित देश म्हणून ज्याचा नावलौकिक झाला, त्यामध्ये USA, UK जर्मनी, जपान यांचंच नाव घ्यावं लागेल. जगातील विकसित देशांत सर्वच व्यवहार आधुनिक पद्धतीने होतात. अशा देशांत यांत्रिकीकरणाचा खूप मोठ्या प्रमाणात वापर केला जातो. देशाच्या विकासात यांत्रिकीकरणाचा सिंहाचा वाटा आहे. आज जगात चीन देशाची नाव जास्त लोकसंख्या असलेला देश म्हणून ओळख असली, तरी त्या देशाचं नाव विकसित देशांच्या यादीत प्रामुख्याने घेतलं जातं. याचं सर्व श्रेय जातं ते यांत्रिकीकरणालाच यंत्राच्या शोधामुळे व जास्तीतजास्त वापरामुळेच चीनचं नाव विकसित देशांत झालं.

काही पर्यावरणप्रिय व्यक्ती या यांत्रिकीकरणाला विरोध करतात. त्यांना असं वाटत आहे की, यांत्रिकीकरणामुळेच पर्यावरणाचा न्हास होतो. ते बरोबरच आहे; पण यांत्रिकीकरणामुळेच देशाचा विकास झपाट्याने होतो, हेही विसरता येणार नाही. देशाच्या विकासासाठी यांत्रिकीकरणाचा वापर गरजेचाच आहे.

खरंच यांत्रिकीकरण आपणाला आश्चर्य वाटेल असंच आहे. यामुळेच मानवाला त्याची आवड आहे. आज देशात अशी एकही व्यक्ती नाही की, जी यांत्रिकीकरणाचा वापर करत नाही. भारतात आज खूप कमी प्रमाणात यंत्राचा वापर केला जातो, तो प्रामुख्याने वाढविला पाहिजे. जर आपण शेतीक्षेत्रात यंत्राचा वापर केला, तर खरंच आपण विकासाच्या मार्गावर आहोत असं म्हणता येईल. आपण जर यंत्राचा वापर टाळला, तर देशाच्या विकासाला विलंब लागेल. म्हणून मानवाच्या आयुष्यात यंत्राचा वापर करणं ही काळाची गरज आहे. याच यांत्रिकीकरणामुळेच देशाचाच विकास नाही, तर मानवाचा विकास करण्याच्या प्रक्रियेत खूप मोठी मदत होते.

पूर्वी मानवाला कापड हातावर तयार करण्यासाठी किती तरी दिवस लागायचे. पण आज कापड गिरण्याच्या शोधामुळे दिवसाला किती तरी मीटर कापड आपण तयार करू शकतो. हे सगळं शक्य होऊ शकलं ते फक्त याच यांत्रिकीकरणामुळे. माणसानं कधी स्वप्न पाहिलं नव्हतं की विमान बनवू, पण ते शक्य झालं. आणि मानवाने यांत्रिकीकरणाला खरोखरच सलाम केला. मानवाने यांत्रिकीकरणाची ताकद ओळखली व त्याचा उपयोग करून घेऊ लागला, यांत्रिकीकरणाला सुरुवात केली. खरोखरच मला असे म्हणावे वाटते, यांत्रिकीकरण ही एक अद्भुत शक्तीच ठरली आहे.

# यांत्रिकीकरण और मानवी जीवन

कोमल कदम

एफ.वाय.बी.कॉम.

बड़ा ही विचित्र जमाना है। एक ओर लोग मशीन में अकल की बात कर रहे हैं, वही दुसरी ओर खुद को सरलीकरण के नाम पर विविधता खोने को मजबूर कर रहे हैं। सीधे शब्दों में कहाँ जाए तो विचारों का मशीनीकरण कर रहे हैं। बस, यह विचार और विचार कर पाने की क्षमता ही मानव को पृथ्वी की सभी प्रजातियों में सर्वोच्च बनाती है। व्यवहार नामक शब्द विलुप्त होने की ओर अग्रसर है। यह सच है की सोशल मीडिया जैसे तकनीकी आधुनिकीकरण से अपने विचार व्यक्त करने की आजादी बढ़ रही है, वहीं संस्थानों में मत रखने के अधिकार खतम किये जा रहे हैं। विविधता की कमर तोड़ कर फॉर्म और प्रक्रियाओं में पिरोया जा रहा है।

कला के आयाम बढ़ रहे हैं पर कला सिमटती जा रही है। दुनिया इंग्लिश सीख रही है और भाषाओं की विलुप्ति पर मगरमच्छ के आँसू भी बहा रही है। अपने आप को जैसे ढालना है ढालिए पर दूसरे को अपनी इच्छा अनुसार ढालने की वैचारिक तथा व्यावहारिक स्वतंत्रता तो दीजिए। पूर्ण आजादी भी बुरी है। आजादी के साथ आनेवाली जिम्मेदारी का एहसास होना अनिवार्य है पर इस भावना को समझ पाने भर की अकल भी यांत्रिकीकरण की आग में स्वाहा हो गयी। आजादी का जुमला जैसे कम्प्यूटर में डाल दिया गया हो। बस यह शब्द सुनते ही कार्यवाही करना चालू मोमबत्तियाँ ले कर चौराहे पे रवाना! बिना सोचे, बिना जाने।

वक्त की माँग है बहुमुखी व्यक्तिमत्व सँवारना। इस बारे में बात भी की जा रही है, लिखा भी जा रहा है, पर शिक्षण संस्थानों के पाठ्यक्रम में नजर नहीं आ रहा है। यह भी हो सकता है की बहुमुखी विकास का अर्थ अंग्रेजी बोल पाना और कंप्यूटर में दक्षता हासिल करना ही हो क्योंकि, जो हो रहा है उससे सिर्फ सरपट अंग्रेजी बोलनेवाले, कंप्यूटर पर धडाधड बटन दबानेवाले और 9-5 एक ही काम बार-बार करनेवाले औजार पैदा हो रहे हैं। 2005 के बाद आये गतिवाद में कब तक 90-95 का कंप्यूटरीकरण करेंगे? और विडम्बना यह है की कंप्यूटर आगे बढ़ कर लोग वहीं रह गए। ग्यानी महात्मा कह गए हैं की स्वयं को वक्त के अनुसार बदलों, पर महान लोग सिद्ध कर गए की वक्त उनके अनुसार चलता है। किसी जमाने में ऊँगली पकड कर चलना सिखाया जाता था और फिर

बेपरवाह बचपन व्यतीत करने दिया जाता। आज हालात ऐसे हैं की कॉलेज जानेवालों की भी ऊँगली पकड रखी है समाज ने।

आत्मिक स्वतंत्रता बरकरार है इसलिए मैं ऊँगली पकडने से उनका इनकार करता हूँ। आपको जो करना है किजिए, आपकी आजादी को ठेस पहुँचाना मेरे सिद्धांतों में नहीं। यह लेख जानबूझकर हिंदी में लिखा गया है। मैं अंग्रेजी के खिलाफ नहीं, मैं अंग्रेजी थोपे जाने के खिलाफ हूँ।

मशीन युग के अनेक लाभ हैं पर उसमें कुछ कमियाँ भी हैं। उदाहरण के लिए कंप्यूटर एक बहुत ही उपयोगी यंत्र है। कंप्यूटर से मानव जीवन में महत्त्वपूर्ण परिवर्तन आया है। उसके कारण सब काम आसान हो गये हैं। तीव्र गति से, परिशुद्धता के साथ काम करना संभव हो गया है। सब जगह, बैंक, दफ्तर, कॉलेज आदि में कंप्यूटर से सहज रूप से काम किया जाता है।

वह एक मनोरंजन का साधन है। अनेक विडियो, गाने, चलचित्र आदि हमारा मनोरंजन करते हैं। हम ई-मेल, फेसबुक, ट्विटर आदि सोशल मीडियाद्वारा अपने मित्रों के साथ संपर्क कर सकते हैं। अब सब संसार के लोग एक दूसरों के करीब आ गए हैं। दुनिया के अलग अलग कोनों में रहने वाले लोग जब चाहें एक दूसरों को देख सकते हैं और बात कर सकते हैं।

परंतु कंप्यूटर एक मजबूरी बन गया है। छोटी उम्र में कंप्यूटर का उपयोग करनेवाले बच्चे इतने ज्यादा क्रियाशील और फुर्तीले नहीं होंगे। उनका सामान्य जीवन से अधिक संपर्क नहीं होगा, क्योंकि वे अपना अधिकांश समय एक यंत्र के साथ बिताएँगे। बच्चे बाहर जा कर अपने मित्रों के साथ खेलने की जगह कंप्यूटर के खेल खेलना पसंद करेंगे, जिससे उनके स्वास्थ्य पर असर हो सकता है। साथ ही वे मित्रता का सुख और ताजी हवा के लाभ से वंचित रह जाएँगे।

इसलिए कंप्यूटर कुछ हद तक मनोरंजन का साधन है पर लोगों को उनके ऊपर जरूरत से अधिक निर्भर नहीं होना चाहिए।

उसी प्रकार आजकल टेलिफोन हमारे जीवन का एक अटूट अंग बन गया है। उसकी घंटी सुनकर बडी खुशी होती है कि कोई हमारा मित्र है जो हमसे बात करना चाहता है। टेलिफोन से दूरियाँ कम हो

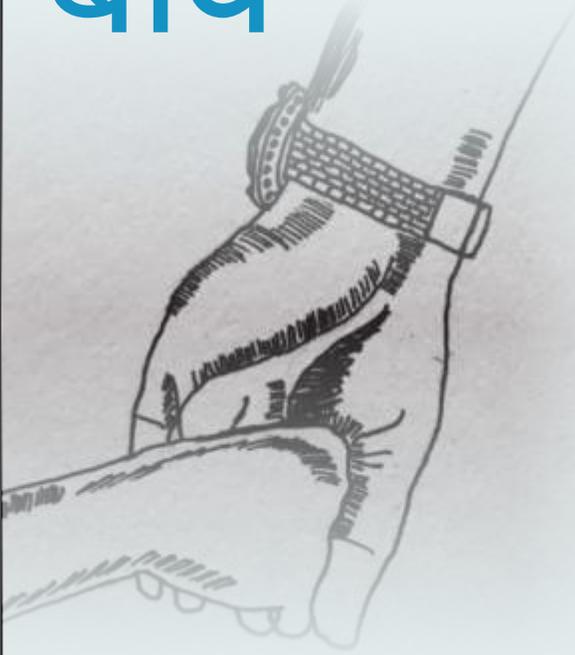
गयी हैं। हम दुनिया के किसी भी कोने में रहने वाले लोगों से तुरंत संपर्क कर सकते हैं। इमरजेंसी के समय डॉक्टर अथवा किसी अन्य प्रकार की सहायता प्राप्त करने के लिए टेलिफोन बहुत उपयोगी हैं।

परंतु कोई भी चीज एक सीमा तक ठीक लगती है। अगर हम किसी से बात नहीं करना चाहते हैं, या एकांत में रहना चाहते हैं तो वह हमारे चैन को भंग करता है। टेलिफोन की हमें इतनी आदत हो जाती है कि हमारा ध्यान हमेशा उसकी ओर आकर्षित रहता है। हम इतनी उत्सुकता से घंटी बजने का इंतजार करते रहते हैं कि हमारा किसी और काम में मन नहीं लगता। अगर किसी का फोन नहीं आता है तो हम उदास हो जाते हैं। मित्रों से देर तक बातें करना आदि हमारे लिए अधिक आकर्षक हो जाता है और उनके बिना हम

रह नहीं पाते हैं, जिससे समय का सही उपयोग नहीं कर पाते हैं। साथ ही फोन पर खर्च अधिक हो जाता है। इसलिए वह लाभदायक होने के साथ थोड़ा हानिकारक भी हो गया है।

इसलिए कहते कि, यांत्रिकीकरण होना यह मानवों के लिए अधिक लाभदायक है, परंतु उसी प्रकार वह मानवों के लिए हानिकारक भी है। मनुष्यों ने यंत्रोंको निर्माण किया है, परंतु अब इस आधुनिक युग में ऐसा दिख रहा है कि यंत्र मानवों पर हावी हो रहे हैं। मनुष्य पुरा दिन कुछ कार्य करें तो वह यांत्रिक हो कर करते है, ज्यादा श्रम नहीं करते, पुरा कार्य यंत्रोंपर निर्भर होता हैं। इसलिए कहते हैं कि यांत्रिकीकरण और मानवी जीवन दोनों भी एक दूसरे पर निर्भर है।

## बाप



बाप स्वाभिमानी बाणा, बाप कणखर कणा  
त्याच्या काळजातसुद्धा, लाजाळूची संवेदना...  
त्याची पहाडाची छाती, त्याचे हृदय गुलाब  
त्याच्या घामाच्या थेंबात, हिऱ्यामोत्याचा रुबाब...  
बाप तलवार ढाल, बाप पेटती मशाल  
बाप जागतो म्हणून, घर झोपते खुशाल

बाप घराचा तो पाया, आई कळस त्यावर...  
जेव्हा खचतो ना पाया, तेव्हा कोसळते घर  
उलाढाली करतो हा, बाप फक्त... घरासाठी  
शिव्याशाप या जगाचे, बाप घेतो सारे माथी  
घर, बायको नि मुले यांना जगविण्यासाठी...  
बाप होतो वेडापिसा, एका एका पैशासाठी...  
बाप म्हणजे जणू की, वाल्या कोळ्याची जमात  
ज्याच्या पापामध्ये कोणी, नाही वाटेकरी होत  
बाप म्हणजे रे कसा, जसा पाण्यातला मासा  
ज्याच्या डोळ्यातला थेंब, कोणा दिसणार कसा...

बाप आपल्याला रडताना कधीच दिसत नाही, पण तो त्याचे सगळे अश्रू फक्त एका क्षणासाठी राखून ठेवतो आणि तो क्षण म्हणजे...

बाप साठवतो अश्रू, वाट पाही त्या क्षणांची  
जन्मभराचे रडे तो... लेक जाताना सासरी...  
ज्याने जपले मुलांना तळहाती पाळण्यात  
अशा बापासाठी यावी थोडी आसवे डोळ्यांत...  
बाप थकल्यावरती, ज्याचे बनावा आधार  
नाही उपयोग पुन्हा, किती घातले पितर  
बाप म्हणजे जसे की, एक झाडच अबोली  
बाप म्हणजे मुलांची, जणू अव्यक्त माऊली...

पूजा सुरेश कांबळे  
एस.वाय.बी.सी.ए.

# मेक इन इंडिया

पराग बविस्कर

एस.वाय., बायोटेक्नोलॉजी

मेरा भारत महान! इस उद्गारवाचक वाक्य के साथ हमारी छाती चौड़ी हो जाती है और हमारे अंग में रक्त का संचार और तेज गती से होने लगता है। पर ना जाने क्यों ऊर्जा का संचार देशव्यापी गतिविधियों से बढ़ता हुआ नजर आता है।

भारत की विविधता, संस्कृति, एकता, विश्वास, ज्ञान, त्याग और बहुत सारे मूल्यों ने भारत को महान बनाया था, बनाया है और बनाया रहेगा। पर यह बात समझते हुए भी, भारत के प्रधानमंत्रीजी को लाल किले के प्राचिर से अपने पहले स्वतंत्रता दिवस के भाषण में 'मेक इन इंडिया' का नारा और इसे योजना के रूप में प्रस्तुत करने की जरूरत क्यों पड़ी, यह हर भारतीय के लिए गहन मनन का विषय है।

भारत की विकास गतियों को देखा जाए तो नजर आता है कि कला, ऊर्जा, शिक्षण, खेती, व्यवसाय और ऐसे अनेक विभागों में भारत ने ऊँचा स्तर प्राप्त कर रखा है और अगर भारत पहले से बना हुआ है मजु प्राप्ती से तो फिर क्या जरूरत पड़ी?

मेक इन इंडिया विषय का अर्थ गहनता से समझा जाए तो नजर आता है कि यह कोई सरलता और भारतीय सीमा से सटा हुआ विषय भर नहीं है, यह तो लाल किले से दिया हुआ विश्वपटल के लोगों को संदेश, निमंत्रण नजर आता है। यह हर उस व्यक्ति को लुभाता है और दर्शाता है जो व्यापार, निवेश के जगत में किस्मत खोजते हैं। यह संदेश है उन लोगों को आए- भारत में, जो राष्ट्र तेजी से आगे बढ़ता हुआ नजर आ रहा है, आए जहाँ युवा वर्ग के बाजूओं में दम है, हिम्मत है, ज्ञान है, कुछ करने की चाहत है, शक्ती है। बुद्धिमान हैं।

यह सब गुण इस युवा वर्ग के हर किसी को सफलता की ओर पहुँचाने की चाहत रखते हैं।

अगर इसे योजना स्वरूप देखा जाए तो इसका प्रमुख उद्देश्य भारत के बाहर जो रहे व्यापारी और बाहरी देश के प्रमुख व्यापार वर्ग के व्यापारी, उद्योगपती इन्हे रोकने का है और उसके लिए देश में प्रमुख क्षेत्रों में प्रगती और निर्माण व्यवसायों को पुनर्जीवित करना है। इस अभियान का दर्शक चिन्ह भी एक खूबसूरत सा शेर है; जो

अशोक चिन्ह से प्रेरित है, जो की भारत के हर क्षेत्र में सफलता और विकास दर्शाता है। इसका प्रमुख उद्देश्य भारत में तेज गती से बढ़ रही जनसंख्या की चिंता भी दिखाई पडती है। इनका रोजगार प्रश्न, इनके अंदर की कौशल्यनीतियों को पहचानना, उन्हें बढ़ावा देना इस योजना के प्रभावीकरण के उद्देश्य को दर्शाता हुआ नजर आता है। इसका एक और उद्देश्य घरेलु, उत्पादन में विनिर्माण को बढ़ाना भी लगता है।

भारत आने वाले समय में विश्वपटल पर उभरती हुई जगत सत्ता का अभिवचन करता हुआ नजर आ रहा है और महासत्ता के रूप में विश्वंभर के सामने प्रस्तुत होना चाहता है। इसलिए भारत विश्व वर्ग के तरुण वर्ग के भीतर तेज, आत्मविश्वास, निडरता, स्वाभिमान, कर्तव्यनिष्ठा, देशहित, विश्वकल्याण जैसी ठोस भावनाएँ प्रस्थापित करना चाहता है और उस तेज गती में बढ़ता हुआ यह एक कदम है।

अगर इस योजना के निगडित क्षेत्रों में विकास की बातें की जाए तो विभिन्न क्षेत्रों को इसके अंदर प्रमुख रूप से समाया गया है। जैसे- ऑटोमोबाईल, कपडा, केमिकल, थर्मलपावर, खनन, रेल्वे, खेती, सेहत और कई सारे।

विश्वपटल पर भारत ने नेतृत्व वाले युवा के भीतर की ज्ञानप्रभानियों को खोजना और उनको बढ़ावा दे कर भारत की ताकत को मजबूत करता हुआ भविष्य में नजर आता है।

आजादी मिलने के बाद के ६९ वर्षों में भारत ने बहुत अधिक आर्थिक और तकनीकी तरक्की की है, परंतु आज भी उसकी गिनती विकसित देशों में नहीं की जाती यह मनन का विषय है, हमें यह समझना चाहिए। आर्थिक विकास का फल हर वर्ग को समान रूप से नहीं मिल पाया है परिणाम स्वरूप अमीर और गरीब के बीच की खाई और अधिक चौड़ी दिखाई पडती है। इस खाई को भरकर स्तर समान हो ऐसा भारत हमें बनाना है और इसलिए हमें कौशल्यप्रधान नीतियों को प्राधान्य देकर उन्हें व्यवसाय रूप में उतारने की जरूरत है। यह हम मेक इन इंडिया के द्वारा हसिल कर सकते हैं।

हम ऐसी सामाजिक, आर्थिक और राजनीतिक, संस्थाओं को बढ़ा और बना सके जो स्त्री-पुरुष, गरीब-अमीर, काला-गोरा,

ऊँच-नीच के परे हो क्योंकि यही वह बाधाएँ हैं जो भारत के विविधता में एकता इस बात को सेंध लगाती हुई नजर आती हैं और राजनीति के पहले पडती हैं। संस्था ऐसी हो जो हर किसी के लिए जीवन की परिपूर्णता और न्याय सुनिश्चित कर सके।

कोई भी देश तब तक परिपूर्ण नहीं बन सकता जब तक उसके लोगों की सोच संकीर्ण ना हो और कर्म भी। अज्ञानता और निर्धनता के अवसर मिटाना यह स्वयं युवा वर्ग के हाथों में है, उनकी प्रतिभा में समाया हुआ है; बस उसे जगाने की जरूरत है।

शिक्षा के क्षेत्र में तबदली तो हुई है और भारत के कुछ शिक्षण संस्थान दुनियाभर में अपने उच्च स्तर के लिए भी जाने जाते हैं पर इसके साथ यह नकारा नहीं जा सकता कि आज भी और हमेशासे यहाँ प्राथमिक और माध्यमिक शिक्षा की हमेशा उपेक्षा होती आई है। जरूरत है तो एक कदम मेक इन इंडिया के भीतर शिक्षण प्रेमियों के रूजू होने की।

गोरों ने भारत को सत्ता का हस्तांतरण विवशता में किया लेकिन अपनी शर्तों पर किया था। पर आज भी हम उन शर्तों के आभास में जीते हुए नजर आते हैं अब जरूरत है उन विचारोंसे भी स्वतंत्र होने की, युवा के सोच को बदलने की। यह होगा दुसरा अहम कदम मेक इन इंडिया की तरफ।

हम आजादी के ७० साल बाद भी जातिवाद, असहिष्णुता, भ्रष्टाचार, आर्थिक-सामाजिक असमानता, गरिबी, साक्षरता का प्रमाण, भारत की बढ़ती हुई जनसंख्या में इनकी लगी हुई आग आज भी कही-ना-कही झुलसती हुई नजर आती है और यही मेक इन इंडिया के रस्ते की बाधा बन सकती है, हमें इन सबका यज्ञ में आहुती दे कर ही हम भारत को मॅक इन इंडिया की कगार पर मजबूती से खड़ा कर सकते हैं।

हालाकि विविधता के मामले में यह बात पूर्णतया सत्य है, सदियों से लोग यहाँ आते रहे हैं और बसते रहे हैं। भारत समुच्च्य विश्वभर में समस्त देशों को अपने परिवार की भाँती मानता है और विश्वकल्याण की भावना रखता है। इसलिए विश्वभर के लोगों को भारत में आमंत्रित करता है-आएँ और मेक इन इंडिया में हमारा साथ दिजिए।

भारत भर में हर जीव बदलाव की अनुभूति कर रहा है। इस बदलाव के लिए बाहर के बीच यह बुनियादी सवाल उठाना जरूरी है कि हम जिस सक्षम समाजवादी, जनवादी गणराज्य में जी रहे हैं वह वास्तव में कितना सक्षम, समाजवादी और कितना जातिवादी है? और अगर हम यह समझ ले तो हम एक और कदम बढ़ाएँगे मेक इन इंडिया की तरफ।

भारत विश्व की सबसे पुरानी सभ्यताओं में से एक है जिसमें बहुरंगी विविधता और समृद्ध सांस्कृतिक विरासत है। आजादी पाने के ७० वर्ष बाद भी भारत ने बहुआयामी सामाजिक और अर्थिक प्रगती की है। भारतवर्ष तो अब कृषि में आत्मनिर्भर का प्रवचन करता हुआ नजर आता है; पर अब जरूरत है किसानों को आर्थिक मजबूती की, तरुणों में वह आत्मविश्वास भरने की। किसान ही भारत का मजबूत पोशिंदा है और यह एकमात्र क्षेत्र है जहाँ हर रोज प्रगती के दृष्टिक्षेप बदलते हैं। जरूरत है तो स्वाभाविक मनबुंदों क्षेत्र में तकनीकी गतिविधियों की। सोच विचार का प्रयोग, जमीन की प्रबलता और एक किसान व्यापी देश की निर्माणी हेतू एक ओर कदम बढ़ाना पडेगा।

भारत की समृद्धी, ज्ञान, त्याग और युवा ज्ञान मानसिकता में तेज गती हि हमें मेक इंडिया की ओर बढ़ा सकती है।

भविष्य की आशा, युवा के गतिमान रक्त का संचार की ओर बढे, यही आशा इस योजना से हर युवा और हर भारतीय नागरिक की है।

**जन-जन जगो; मन-मन प्रगती करे**

**विकास हो स्त्री शक्ती का;**

**हर जीव जंतू का जीवन आनंदमय हो।**

**गरिबी-अमिरी से जन साधारण उपर उठे**

**यही भावना-कामना रखते हुए**

**हर नागरिक में भाईचारा और प्रेम हो।**

**जय हिंद।**

**।मेक इन इंडिया।**



# Digital India

Deepa Sheelvant  
T.Y.B.Sc (Comp.Science)



“India is a cradle of human race, the birthplace of human speech, the mother of history, the grandmother of legend, and the great grandmother of tradition.” - MARK TWAIN

Being the birthplace of several magnificent civilizations, India has always been an apex knowledge but post independence Era has been a time of struggle to cope up with the advancing newer ideologies of development. DIGITALIZATION has been one such face of 21st century.

“India is not, as people calling it, an underdeveloped country, but rather, in the context of history and cultural heritage, a highly developed one in an advanced state of decay” - SHASHI THAROOR

The concept of DIGITALIZATION faced scrutiny all these years due to several factors, one being its strong relation with literacy rates and accessibility issues.

According to estimates the digital literacy in India is just 6.5% and the internet penetration is 20.83 out of 100 population.

Digital India programme also found political ignorance throughout the years but Prime Minister NARENDRA MODI took a bold step and initiated digital India campaign on 1st July 2015.

He proclaimed the motto “POWER TO EMPOWER”. The programme was launched with the aim of transforming the country into a digitally empowered society and knowledge.

Digital India works with its 9 pillars :

1. Broadband highway
2. Universal access to Mobile Connectivity
3. Public Internet access programme
4. E-governance, Reforming Government through Technology
5. E-kranti, electronic delivery of Services
6. Information for all
7. I.T. for jobs
8. Early Harvest Programmes
9. Dectroivics

According to analysis, digital India plan could boost GDP upto \$1 trillion by 2025

It will play a key role in GDP growth, employment generation, labour productivity growth in number of business and revenue packages for government. Social sectors such as education, health care and banking are unable to reach out to the citizens due to obstructions and limitations such as ignorance and middlemen which are going to be strongly tackled by Digital India.

As farmers are the backbone of our nation, Digital platforms can help in knowing agricultural practices and strengthen this backbone making our country stand and proud as a digitally empowered nation.

Digitalization hence proves to be a stepping stone on our way to be a developed country.

Change is the way of nature and as a nation we shall embrace this change with full might. Let old documents be replaced by PDFS, worn out wallets be replaced by e-wallets, long ques to pay bills became easier with one touch payments, we are no longer separated and distanced by anything important to us.

One touch and the whole world is with us.

**WE ARE THE MIGHT,  
WE ARE THE DIGITAL INDIA.**

## Fool Me to cool Me

**Alfiya Attar**  
S.Y.B.Sc. (Micro)

People come and go  
You just don't feel low,  
they be they were never meant to be  
So their absence felt equal to their presence  
you see,  
They ignored you so high  
But your attention for them never sigh,  
Your love was a reality  
But all they did was just a formality,  
You hold on when they were totally down  
But they were no where when you drown,  
They were the best actors you meet  
Just move on its not too late,

You are enough real one for yourself dear  
You are not alone just get this fear,  
They be expecting from them was wrong  
Because they were never to be with you all along,  
Just break this wall of dependence  
Because you deserve independence,  
Here everything is take  
So its dangerous to sail in this lake,  
Prepare yourself not be anymore blind  
Being mad for someone who is a two face of a kind,  
Its enough being fool  
You deserve now too to be wise and cool

# Automation Curse or Blessing

Sweety Pandey

T. Y. B.Sc. (Comp.Science.)



The fear that new technology could take away jobs and lead to a greater income inequality is not a new phenomenon. During the initial days of industrial revolution people were worried that they would get replaced by machines. The best way of focusing on the human impact of automation is to first accept that it is inevitable. Since the dawn of human civilisation, mankind has been searching for ways to reduce manual effort and has been seeking out smarter ways of getting things done. But somewhere these smarter ways lead towards automation.

Similarly, automation holds the prospect of transforming future society. Even now, and even in a

society like ours where technology has not permitted to every level of our day-to-day existence as it may have in more industrialised societies, there has been a sea change in how we work. Whether its booking a cab with a tap on your smart phone or getting your bank account statements without ever visiting the bank, or ordering food, automation has given us a new way of doing things.

But don't let the above examples fool you into thinking that the benefits of automation are only for the globalised youth. On the other hand, these cut across age, gender, ethnicity and geographical barrier to make life better for everyone.

## रात्रवेडी

पौर्णिमेच्या शुभ रात्री  
हसत होता चंद्र  
दूर अंतरी कुठेतरी... लाजरी  
चादणी ती चमकत होती.  
एक होती लुकलुकणारी  
तर एक होती स्वयंप्रकाशी,  
जणु चंद्राशी लपंडाव  
ती खेळीत होती

उत्तरेत होता ध्रुव तारा  
साथ नक्षत्रांची त्याला,  
पण...  
एकटीच होती ती 'रात्रवेडी'  
आणि एकटाच होतो 'मी' सुद्धा!

अक्षय शिंदे

# Age of Mechanization

**Priyanka Kadam**

M.Sc. I (Organic Chemistry)

“Our scientific power has outrun our spiritual power. We have guided missiles and misguided men”.

Above quote stated by the Martin Luther King shows relation directly formed between mechanization and human being.

Actually, the real problem is not whether machines think, but whether men do. We become the part of the great mechanization but we have become the tool of their tools.

If we can believe advertisements, what matters to people most is the personal ownership of machinery : cooking machines, blending machines, computer machines, machine to kill the insects, deliver intimacy, send messages, driving machines, picture machines, sound machines, tooth-brushing machines, and many more mechanical extensions devices of our physical self. Indirect control over even more ambitious devices like flying machines, bombing machines, voting machines...seems to matter a lot too. Medical science has machines that will breathe for you, talk for you, hear for you, eat for you, circulate your blood and even sweat for you if you should ever happen to need them. Medical science even now has marvellous machines which will replace parts of human body or do the work of parts that fail.

Surrounded by all powerful tools, man is reduced to a ‘tool of his tools’. As the years go by we won’t be able to survive without the use of current and future technology.

The internet and the cell phones, for example, haven’t been around for a long time since millions of years. Can you now imagine living your life without them? We’ll continue to depend on technology until that time when we find ourselves lost and confused by them.

This crisis originates in human success or what we call ‘progress’: humanity’s accumulating,

accelerating success in acquiring, disseminating and applying science-based knowledge. Then, at some point within this period, something happened. To take phrase from nuclear science, human inventiveness reached critical mass, and advance led to eye, this success has come in sudden burst. In just 200 years of Industrial age, humanity became an influence of Earth’s fundamental mechanism. Now this anthropogenic impact threatens to destroy the very environmental conditions that enabled human successes.

The individual has become increasingly dependent on large-scale production and the operation of society as a whole, and relationship are far more complex and interdependent and susceptible to mechanical control than earlier period. From the outset it was clear that mechanization involved a division of labour. That demands submission to control environment and this has proceed until now it is increasingly difficult for man to be in control of any given situation.

The story of modern society is the story of mechanization of human society. The story of evolution of human life process from automation by Nature to manual operations by man. This is the story of society of intellectually degenerated human beings who are today completely dependent on a recently inherited, market-led and technology-sustained social system that can no longer be controlled. By the timemachinery breaks down, humanity would be too degenerate to care for itself. In the present context, even genetic decay of all life forms is inevitable.

One of the reasons why contemporary man is overpowered by means is because his powers of integration gradually atrophied under the pressures of the fragmented and specialist approach of the nineteenth century. Today’s broiler (hybrid) chicken-like new generations humans do not know extempore

even to light up a candle when suddenly the electricity fails. Now the crucial question is as to how long the intelligent system can go on building upon itself with more sophistication and more intelligence necessarily being incorporated into them according to the growing demands of the time.

It will soon reach a stage when the collective human intellect go away - many later trends are pointers towards the direction -leading to total system break down.

Consider an example of things that generally goes away in man-machine synchronization. A hospital x-ray technician starts an x-ray machine, then realizes the machine is in the wrong mode and corrects the setting. However, machine's computer program wasn't designed to handle a rapidly made corrections, so it didn't properly registered the new value. Instead, it delivered a massive ray to the patient. Sometime later, the patient died due to excess rays. The accident goes undiagnosed, because as far as anyone can determine, the machine worked according to the customised settings.

This age is so much unique that it stands sharply different from all the previous ages, in almost all respects - of all cultures and characteristics in human history. And, surprisingly, this age is reasonably viewed as the closing age of mankind.

"It is quite clear to me after several years in the environmental movement that all physical problems of man's impact on the environment like pollution of the air and waters, the desecration of the land, the contamination of the food chain - all start within the environment of man's mind", wrote Maurice

Strong, environmental co-chari of U.N. Commission in Global Governance.

In the age of technology which now surrounds us and which boasts of its triumphs over Nature, one thing is ever more apparent to the anthropologist - the student of man : we have not really conquered Nature because we have not conquered ourselves. In this modern age it is modern man, 'the wise' as styles himself, who is now the secret nightmare of man. But we came to admit this sordid reality too late we cannot go back nor can we do some corrections by avoiding a total breakdown of the person world. There simply exists no soft option for this today.

Has the proverbial breaking in man-machine relation already reached? There need not be any two opinions is answering this question on the affirmative. Just consider what a popular pro-science expert, Don Norman, has to say in this matter. In the singular arena of maintenance of a plethora of different electronic appliances that an average household needs and Don Norman establishes that an average household requires the upwards of 73 different electronic appliances - what his reasoning known as the Norman's law states.

This is the story of man and machines as having developed to a stage to fight against each other.

We have enough reason to believe that there is something seriously wrong with the type of leadership in the world today. The highly globalizing trend in practically every sector due to the growing mechanization on of every social affair in the world today has rendered it a purely hi-tech mechanical and scientific affair.





## Turning the pages of History Digitally

Harshada Sawashe  
S.Y.B.A.

Historical documents contain important historical information and serve as primary source. These documents are written record on paper and paper is a very fragile material. So this document needs to be preserved through modern technology of digitization.

Digitizing historical records is more important to preservation than many museums may realize. If the technology we have today existed at the time of writing of many historical documents, we would have much more information at our disposal.

Our shared history as a culture is a very valuable part of our identity, and one of the biggest elements of that communal history is the written record our forefathers have left behind of course, that written record exists largely only on paper, and paper is a notoriously fragile medium. Paper is incredibly susceptible to destruction by fire or water and is prone to disintegration if left untouched for long enough. One way or another, every bit of the written record that is written on a piece of paper in given enough time cease to exist and the writing that it preserved will be lost for good.

There is a way around this unfortunate reality. One can simply transfer what is written to a new source, be it by a photocopy or a manual copy of the original text. However, if that new version is on a piece of paper, you have simply delayed a process

that will never truly end until a new type of storage is provided.

Today's world, especially the western world, has become increasingly dependent upon computers and technology for everyday personal and business operations. Scholarly journals and book excerpts make up the bulk of digital research materials, but libraries and archives have begun to make some of their holdings available online as well.

Once placed online, digitized materials are much more accessible to researchers than are non-digitized documents. Digitized documents can be accessed from any computer with an internet connection, which can reduce or eliminate researcher travel time and expenses.

Digitizing materials also helps preserve the originals. Publicly available digital copies reduce handling and potential damage to valuable and often-fragile original items, which increases their longevity and historical value. This is especially important for documents heavily used for scholarly research.

Digitization is the best way to ensure that our written record is encapsulated in a source that will last for as long as we can conceive. Once a document's contents are entered into a digital format, not only can they easily be replicated as many times as you want and moved from device to device, but with new innovations such as document management system,

they can be protected by a global information safety net so they can never be lost or destroyed.

Optical Character Recognition can be used digitizing historical records. OCR technology allows a computer to look at a document, decipher the character it detects, and transcribe them to the program it is associated with.

OCR technology can take a dense tome, like a book of records or legal jargon, and make it so you can find precisely what you are looking for. A quick search and find function will send you to the exact part of any written material that you need. Once a document has been digitized, it can instantly be read anywhere on the globe, so that anyone with an internet connection has the capability to access any part of that shared written document.

OCR is providing a way that we can guarantee that information will continue to exist, both for ourselves and for our descendants. As a treasury or storehouse for important records in our past, OCR can benefit museums, galleries and any institution striving to maintain the integrity of records that need preservation.

The treasure of digital history present an incredible boon to historians, offering possibilities for online research and teaching that would have been unimaginable just a few years ago. For the aspiring digital historian, it also imparts another benefits. The experience of the first generation of digitizers provides a set of benchmarks and approaches that will help you convert historical documents for your own site with greater efficiency, better reproductions, and we would hope, a lower cost than the pioneers.

In India Tata Communications Media services plans to digitize documents of historical and cultural significance such as films and documentaries from the archives of Doordarshan and films Division of India which go back to 1947 including speeches of India's first Prime Minister Jawaharlal Nehru and other leaders.

A collection of photographs depicting the Indian

Army in the first World War called Girwood collection that was held by the British Library in London has now been digitized and made available on Wikimedia commons. Punjabi Sahitya Academy Reference Lab has been digitizing 150 years old manuscripts since May 2012 and has scanned and saved around 1000 manuscripts stone-printed scripts, poetry books on computer hard discs and the digitized editions will be available across the globe through the internet.

The Maharashtra state Archives has also taken up the task of microfilming and digitisation of approximately 15 crore historical documents, roughly ranging from the year 1630 and comprising letter, orders, correspondence and gazettes from the era of Chhatrapati Shivaji upto British India. The 15 crore documents range from the Mughal period to the pre-independence era. About 4 crore of these documents are in Modi script, many of which are in Pune. Although the language is Marathi, it has to be decoded and is roughly 400 years old.

Many researchers need these documents regularly and scanning ensures that not to give them the original versions of the documents. Researchers can see the originals, but will only get the scanned copies to avoid wear and tear of the originals.

Notions of authenticity, originals, and origins remain important in the professions practices of many communities. Archival theory and practice has evolved to ensure the evidential value of records. The context of a record is fundamentally important to this process. While the publication of selected archival documents has always posed problems, this is now greatly amplified in the digital age. The ease by which digital documents may be altered and then republished focuses a new importance on authenticity and originals.

#### **Reference :**

<https://lib2.colostate.edu>

<https://www.efilecabinet.com>

<https://www.archives.gov>

<https://www.medianama.com>

<https://timesofindia.indiatimes.com>

# मृत्यू जेव्हा जन्म घेतो...

जगण्याचाच मग अंत होतो,  
मृत्यू जेव्हा जन्म घेतो...  
थोर असो, चोर असो,  
कुणी दुश्मन घनघोर असो,  
नाकातला मोती असो  
गळ्यातला ताईत असो,  
संत असो, महंत असो,  
पोटात वळवळणारा जंत असो...  
प्रत्येकाची वेळ ठरलेली-  
अगदी त्या मृत्यूचीसुद्धा...  
त्याची वेळ ठरलेली  
नेण्याच्या अंतिम इराद्यानं भारलेली,  
असाच इरादा त्यानं त्या दिवशी केला...  
एका क्षणात त्यानं माझ्या बहिणीचा जीव नेला...  
त्याची appointment तिनं कधी मागितली नव्हती  
ना त्याच्या visit ची भीती डॉक्टरनी सांगितली.  
तरीपण तो आला...  
याचवेळी नेमका तो कर्तव्यपरायण झाला...  
पण शेवटी अधिसत्ता त्याची  
आपण फक्त गपगुमान ती मानायची  
राजासारखी सत्ता असून  
चोरासारखा तो आला...  
कानाखाली जोरदार तो आमच्या मारून गेला...  
आम्हाला जाग आली होती-  
उशिरानं का होईना, आम्हाला जाग आली होती,  
पण एव्हाना ती निवांत निजली होती...  
सणवार नसूनही साडी घालून सजली होती...

परत कळलं...  
सजली नव्हती, सजवली होती...  
अनोळखी वाटेनं जायला ती  
एकटीच धजवली होती...  
वाटलं...  
हाका मारून आपण मार्ग तिचा अडवावा...  
स्वतःच्या तान्हुलीकडं बघून तरी  
तिनं मार्ग परतीचा निवडावा  
तोपर्यंत देह तिचा लाकडावरती  
पडला होता...  
तिचाही आत्मा तेव्हा नक्कीच  
धाय मोकलून रडला होता...  
पण चेहरा तिचा शांत होता  
मृत्युच्या जन्मापासून तो  
तितकाच निवांत होता...  
तिचा तोच निवांतपणा बाहेर  
आक्रोश करत होता...  
आमच्यातला कणखरपणा  
त्याच सरणात मरत होता...  
खोट्याच्याच मशालीने,  
खरा आज राख बनतो...  
जन्माचाच मग अंत होतो  
मृत्यू जेव्हा जन्म घेतो...

शुभम बी.  
टी. वाय.बीए.

# ओढणी



तुला कशाला हवे असावे  
बंधन आडव्या ओढणीचे  
कदाचित ते कामच करते  
त्या नजरेच्या तोडणीचे

भाग म्हणावा कपड्याचा  
तर सुटा कशाला झाला ?  
आमच्या रुमाल घडीसारखा  
का खिशात नाही गेला ?

का गं पडाव्या तुझ्याचवरती  
विखारी ह्या नजरा ?  
नजरेत तुझ्या सुंदरतेपेक्षा  
फुलतो पापाचा गजरा

त्या गजऱ्याच्या धुंद दुर्गंधीत  
ते धुंद होऊनी जाती  
नजर ती वखवखणारी  
तुझ्या ओढणीपाशी नेती

ओढणी ती सावरून तू  
सावरते स्वतःला  
कधीकधी तर त्या नजरेतून  
लपवतेस तू मुखाला

नको लपवू मुख अन् काया  
झुकवू नको ती मान  
भिडवून नजरेला नजर  
ओढणीत भर स्वाभिमान...  
ओढणीत भर स्वाभिमान...!

तुकाराम गायकवाड  
टी.वाय.बी.ए

**“Everyone can enjoy a life of luxurious leisure if the machine-produced wealth is shared, or most people can end up miserably poor if the machine-owners successfully lobby against wealth redistribution. So far, the trend seems to be toward the second option, with **technology driving ever-increasing inequality.**”**  
— Stephen Hawking

Mic

## विभाग २ विचारवेध

### मेरा प्राण... मेरी कलम

शासन करता है शासक  
उसपे हावी है मेरी कलम  
मेरा प्राण है मेरी कलम  
राज करे राजा सिंहासन पर बैठकर  
हावी उनपर मेरी कलम  
मुखशांती प्रेमियोंका हथियार बनी  
मेरी कलम,  
मेरा प्राण है मेरी कलम

यमुना के तटस्थ लहरों को लेहरा देती है  
मस्ती ध्वज मन ही मन फैरा देती है  
सौ करोड की भोली किस्मत पर भी  
यही तो पेहरा देती है  
बदलाव क्रांती का बिगुल यही है  
यही भविष्य की रहान है  
यही प्यार की बीन कलम  
मेरा प्राण है मेरी कलम

जिसने शिवा को शक्ती दी  
जिसने भीमा को युक्ति दि,  
जिसने हवा को खंजर की धार दी  
जिसने तेज तुफान को थमा देने की ताकत रखी  
जग के उसी विधाता ने कर दी मेरे आधीन  
कलम, और इस लिए...  
मेरा प्राण बनी मेरी कलम

कोई जनता को लूटता है,  
कोई दुखियों पर टूटता है  
कोई लाख प्रचार करता है  
सच बनकर झूठा-झूठा फिरता है ।  
सत्य का परिहार करती हुई,  
लेती छीन उससे कलम  
मेरा प्राण है मेरी कलम

मेरा पास बस संचित भर है  
यह भी उसको अर्पित है  
लिखता हूँ तो मेरे आगे सारा  
ब्रह्मांड विषय भर ।  
रंग मे हसती, साथ देती, यही है

मेरे सपनों की रंगीन कलम  
मेरा प्राण है मेरी कलम  
लिखता हूँ अपने मर्जीसे  
बचता हूँ कै और दर्जी से  
आदत ना थी, ना है,  
कुछ लिखना की, निंदा, वंदन खुदगर्जी से  
अगर कोई छेडे तो, बन जाती है संगीन  
मेरी कलम...

मेरा प्राण है मेरी कलम

इस युग मे अगर चाहता तो  
मै भी लहरों के साथ बह लेता  
मै भी सत्ता सुख गह लेता  
महलों का पुजारी बन लेता  
पर मुझको इमान ना बेचने की  
सलाह देती मेरी कलम  
मेरा प्राण है मेरी कलम

तू सत्य का स्वरूप है  
तू मन चिंतन की अग्नी है  
तू पृथ्वी पर फैला सत्य का प्रकाश है  
यथार्थ का अर्जुन तू ही है  
और हमेशा मन के प्रतिद्वंदियों को  
पछाडनो का हौसला देती है मेरी कलम  
और मेरा प्राण बनी मेरी कलम

सुख दुख की साथी है ।  
जवानी बुढापे का अहसास है ।  
पाप पुण्य का हिसाब है ।  
कागज से मिलन रखती मेरी कलम  
काश, अगले जन्म वापस हम इस  
उम्मीदों भरी राह से मिले

मेरी अस्तित्व का केद्रबिंदू है  
मेरी कलम...  
मेरा प्राण है मेरी कलम

पराग पाटील  
एस.वाय.बीएससी



# Historical Heritage Preservation and Conservation

Sonia Kiran Parag  
S.Y.B.A.

“A concerted effort to preserve our heritage is a vital link to our cultural educations, aesthetic, inspirational and economic legacies - all of the things that quite literally make us who we are”

- Steve Berry

Heritage - It can be defined as, ‘property that is or may be inherited; an inheritance’, ‘valued things such as historic buildings that have been passed down from previous generations’ and ‘relating to things of historic or cultural valued that are worthy of preservation’. The emphasis on inheritance and conservation is important here, as it is the focus on ‘property’, ‘things’ or ‘buildings’. So heritage is something that can be passed from one generation to the next, something that can be conserved or inherited and something that has historic or cultural value. Heritage might be understood to be a physical object : a piece of property, a building or a place that is able to be ‘owned’ and ‘passed on’ to someone else. Heritage in fact is a very difficult concept to define. Not only buildings but language, paintings, books, stone tools, historic sculptures and monuments, oral traditions, stories, drama, music, culinary traditions, traditional sports and games, different cultures, beliefs, rites, rituals all comes under our Historical Heritage.

It is truly said by Martin Luther King Jr., that “We are not makers of History, we are made by History.”

Almost every society that has developed over the past 4,000 years has made an attempt to preserve its history in some form or another. Today we record facts and events in astonishing detail. In times past the Jewish Scribes would religiously copy manuscripts letter for letter. The Egyptians constructed large architectural structures in hopes that they would endure. The Irish maintained schools of Bards that would memorize their history. The attempts of these people who had yet to be borne was an attempt to preserve and tell an intentional message. It was an attempt to pass on the wisdom and experience of the generations that had gone before them. This one facet makes the study of history a valuable use of your time. It provides the basis for and depth of an understanding in the subjects of economics, education, geography, law, psychology, linguistics political science and foreign policy among others.

Heritage is the history, unique knowledge, valued and traditions that have developed by a combination of genes and environment over time. Heritage, whether it be national, cultural or family is an endowment of unique sets of historical knowledge but foremost, heritage is our History. It is a very large part of who and what we are, and it can determine what we will become. This intimate knowledge of self can lead you down the road of your ancestry’s mistakes or to their great exploits.

Sometimes a question arises in everybody's mind that why we should worry about the conservation about our so called old, out-dated buildings, their remains, cultural heritage, etc. Several people do not like even to have links with the past. They do not like to worry about future generation of the country. They give argues that past is dead and future is uncertain. This, however, is not right. Heritage is very important, it is reflection of the identity of the people of a nation. One identifies herself or himself with hers or his heritage, which gives a sense of pride. Our Indian cultural heritage is a mirror of our national unity.

**“India is the cradle of the human race,  
the birthplace of human speech,  
the mother of history,  
the grandmother of legend and  
the great grand mother of tradition  
Our most valuable and most constructive  
materials in the history of man are  
treasured up by in India only”**

- Mark Twain

Some of our traditions like-saying Good Morning with folded hands, touching elder's feet by the youngers, elders blessing youngers and so on represents our ethos and personality. The traditional skills arts of decoration, fairs and festivals, etc. and different varieties of dances, music, paintings, architectural styles, literature of different languages and dialects enrich our cultural landscape and heritage.

**“India is a vast country; it contains &  
multitudes”**

India has an extraordinary, vast and diverse pool of cultural heritage and ancient monuments in the form of buildings and other archaeological sites and remains. The sheer number of these historic heritages is astounding. And the fact that these momuments are the reminiscence of the living witnesses of the golden historic era of over a thousand years and of the pre-independence battles, they carry a special and a well-deserved respect in the eyes of the Indians. They are the epitome of

courage, stand testimony to the evolution and are a symbol of cultural expressions.

The Archaeological Survey of India (ASI) describes ancient monument as **“Ancient Monument means any structure, erection or monument or any tumulus or place of interment or any cave, rock-sculpture inscription or monolith which is of historical archaeological or artistic interest and which has been in existance for not less than 100 years.”** Some of these **ancient heritages** include The Taj Mahal, Agra, Qutub Minar, Delhi; Tomb at Sikandara, Qutub Minar, Sanchi Stupa, Ajantaa and Ellora caves, Red Fort at Delhi, hill forts standing in pride, etc. There are about a 1000 more such places spread all over India. Also included are other palaces, forts, epigraphs, coins, drawings, architecture, wells and sculptures.

Most of the sculptures in historic temples and tourist places have been **damaged** by vandals and inscribed gold/silver/bronze idols have been taken out of the country, the epigraphs are vanishing during construction of additional facilities in old temples and mindless applying of fresh coat of paint during renovation. Some monuments have gone missing due to encroachment, granite quarrying and construction of dwelling units near the temples and collapse of fort walls.

For the **maintenance** of ancient monuments and archaeological site and remains of national importance the ASI has divided the entire country into **24 circles**. The ASI has a large work force of trained archaeologists, conservators, epigraphist, architects and scientists for conducting archaeological research projects. Earlier a lot of laws and acts had been passed by the government to protect these monuments but major of them were done on structures that were beneficial to the contemporary society. Also the work that was carried out had a dearth of funds, enthusiasm and awareness. Later the **‘Ancient Monuments and Preservations Act 1904’** was passed with the prime objective to ensure the proper unkeep and repair of ancient buildings in private ownership excepting such as those used for religious purposes. Under this programme, the conservation work is carried out in 3 main categories.

- 1] **Chemical Preservation** : The ASI's Science Branch is responsible mainly for the chemical conservation treatment and preservation of some three thousand five hundred ninety three protected monuments besides chemical preservation of museum and excavated objectives countrywide. The main aim of Science Branch includes Material deterioration process, basic studies of intervention technologies, basic studies on minerals and diagnostic technologies.
- 2] **Structural Conservation** : The workers in the field are acquiring cumulative knowledge of several generations and gaining expertise on the ways to improve and stabilize the structures by maintaining their pristine looks. The structures are given additional strength and reinforced to undo the harms done by pollution, acid rains and other Chemicals over the years. The foundations are so improved so as to make these structures natural disaster resistant.
- 3] **Contemporary Awareness Programme** : The citizens of India in general and the students in specific are being roped in by the government to spread awareness and advertise about the preservation of the heritage. Many seminars are being organised every year where the students are lectured not only about basic steps each can take individually on this issue but are also made familiarized with the amount of money, time, expertise and labour that goes into protecting

these structures via chemical and other methods.

Some of the steps that we as students can follow to do our share in their protection are -

- 1) Prevent ourselves and others from scribbling on the walls
- 2) Participating in the regular cleanliness drives.
- 3) Being a part of the 'Adopt a Heritage' initiative.
- 4) Spreading awareness around about these monuments and their importance.

In today's competitive world, we have to preserve the monuments and showcase them to the next generation as the contribution or achievements of our ancestors. A little effort on one side can create drastic change that will make the past, the present and the future generations of the country and the world proud of India.

**“We will be remembered only if we give to our younger generation a prosperous and safe India, resulting out of Economic Prosperity coupled with Civilizational Heritage”**

- Dr. A. P. J. Abdul Kalam

#### References :

- 1) <https://www.google.co.in/amp/s/mccartyheritage.wordpress.com>
- 2) <https://www.importantindia.com>
- 3) <https://preservearticles.com>
- 4) <https://www.ukessays.com>

## Be the One

Shame be the one who doesn't keep commitment  
 Better be the one who apologises  
 Lazy be the one who haven't tried  
 Frightened be the one who is destroyed  
 Sad be the one with no-one  
 Bliss be the ignorant  
 Men serves men, God saves all,  
 Better the voice of justice for struggling all,

Disappointment is when we expect wrong  
 Weakens the one who might be strong,  
 Power is in words people never follow,  
 Hard to perceive, the path shallow,  
 “Mind if you stop?” Asked the brain  
 But the heart wants to start from the drain.

**Sarthaki Mategaonkar**  
 T.Y.B.A.

# एक कदम स्वच्छता की ओर

मयूरी वेदपाठक  
तृतीय वर्ष कला

**“ स्वच्छता ही देश का सौंदर्य है,  
इसे लाना हमारा कर्तव्य है ।”**

स्वच्छ भारत अभियान भारत सरकार द्वारा चलाया गया एक विशाल जनआंदोलन है जो की पूरे भारत में सफाई को बढ़ावा देता है। स्वच्छ भारत का सपना महात्मा गांधीजी द्वारा देखा गया था। इसके संदर्भ में महात्मा गांधीजी ने कहा था- “स्वच्छता स्वतंत्रता से ज्यादा जरूरी है।” गांधीजी के सपने से प्रभावित होकर प्रधानमंत्री मोदीजी ने महात्मा गांधीजी के 145 वे जन्मदिन के अवसर पर 2 अक्टूबर 2014 को स्वयं सड़कपर उतरकर स्वच्छ भारत अभियान की शुरुवात की तथा 2 अक्टूबर 2019 तक इस अभियान की पूर्ति का उद्देश्य रखा।

**‘सीमा पर लडना ही नहीं है देशभक्ति का नाम  
स्वच्छ बने देश, करो ऐसा काम।’**

**उद्देश्य :**

1. भारत वासीयोंको स्वस्थ रखने हेतु
2. पर्यटकों का आकर्षण बढ़ाने हेतु
3. नई बिमारी के निवारण हेतु
4. शहरी क्षेत्रों और ग्रामीण क्षेत्रों में स्वच्छ भारत अभियान अलग से चलाया गया
5. स्वच्छ भारत स्वच्छ विद्यालय- स्कूल में स्वच्छता लाने हेतु
6. इस अभियान का उद्देश्य गली-गली में साफ-सफाई करना तथा सार्वजनिक शौचालयों का निर्माण कर खुले में शौच को बंद करना है।

**‘स्वच्छता अच्छे स्वास्थ्य की पूँजी है।’**

माननीय प्रधानमंत्री जी ने दिनांक 29 जुलाई 2017 को अपने ‘मन की बात’ में ‘गंदगी भारत छोड़ो’ का संकल्प लेने के बारे में बात की। दिनांक 1 अगस्त 2017 को ‘संकल्प से सिद्धि’ अभियान को अपनाने के लिए उन्होंने राष्ट्र के लिए एक आवाहन जारी किया कि देश के सभी नागरिक वर्ष 2022 तक एक नए भारत की प्राप्ति में अपनी भूमिका निभाएँ।

स्वच्छ भारत का सपना इसके पहले महात्मा गांधी, राष्ट्रसंत तुकडोजी महाराज, संत गाडगेबाबा इन्होंने देखा था। स्वच्छ भारत अभियान राष्ट्रीय स्तर का अभियान है जिसका उद्देश्य स्वच्छता को बढ़ावा देना तथा शौचालय का निर्माण करना है। सर्वप्रथम हमे लोगों की मानसिकता बदलनी होगी। गांधीजी कहते थे कि “जब तक आप हाथ में झाड़ू नहीं लेने तब तक आप गाँव और शहर स्वच्छ नहीं कर सकते।” इसलिए हम सब युवा वर्ग को आगे आ कर इस अभियान में अपना योगदान देना चाहिए।

**‘गांधीजी के सपनों का भारत बनायेंगे,  
चारों तरफ स्वच्छता फैलायेंगे।’**

हम देखते हैं की, मनुष्य का जीवन कितना भागदौड़ का हो गया है। इस भागदौड़ में मनुष्य अपने देश के प्रति सारे कर्तव्य भूलकर सिर्फ अपने आप और परिवार के बारे में सोचता है। हमे सजना-सवॉरना, साफ-सुथरे या नए कपडे पहनना अच्छा लगता है। उसी प्रकार हम खाना बनाने में भी स्वच्छता का पुरा ध्यान रखते हैं। हम हमारा घर, आँगन में हमेशा, हर वक्त झाड़ू लगाते हैं और जमा कूड़ाकचरा किसी का ध्यान नहीं है यह देखकर बाहर फेंकते हैं। हमारे साथ-साथ अनेक लोग वहाँ कचरा डालते हैं और उससे वहाँ ढेर सारा कचरा तैयार होता है, फिर उससे गंदगी फैलती है और हमे मलेरिया, डेंग्यू जैसी बीमारी होती है। अच्छी आदत और अच्छी स्वच्छता अंगीकारनेसे हर परिवार के दरसाल 50,000 रुपये बच सकते हैं। हमें घर की स्वच्छता के साथ बाहर की स्वच्छता का भी खयाल रखना चाहिए।

**‘स्वच्छता को जो दिल से अपनाते।  
बीमारियों से वे बच है जाते।।’**

हम सब युवक-युवतियोंको आगे आकर इस अभियान में हमारा पूरा योगदान देना चाहिए। हमारे महाविद्यालय में भी 15 सितंबर से 2 अक्टूबर 2017 इन दिनों में ‘स्वच्छता यही सेवा’ सप्ताह चलाया गया। तब हमारे महाविद्यालय के सभी युवक-युवतियोंने महाविद्यालय का परिसर, बगीचा, क्लासरूम, ग्रंथालय, जिमखाना सब 2 घंटों में साफ किया और उससे हम सब को जो सफाई करने में आनंद मिला वो कुछ अलग ही था। हम सब युवावर्ग को एक हो कर इस अभियान में शामिल हो कर गंदगी को दूर भगाना होगा। हम सोचते हैं कि ‘ये मेरा काम नहीं है,’ अथवा

‘ये मैं हि क्यूँ करूँ?’ किंतु स्वच्छ भारत अभियान की शुरुवात पहले खुद से करनी चाहिए। हमे हमारा घर, आसपास का परिसर हमेशा साफ रखना होगा। यह हमारा हमारे देश के प्रति पहेला कर्तव्य होगा।

**‘जो आसपास की ना करे सफाई।**

**इससे बडी ना है कोई बुराई।।’**

स्वच्छ भारत अभियान यह एक जनआंदोलन बन गया है। हम देखते है कि हमारे आसपास के परिसर में ज्यादातर कूडाकचरा, प्लास्टिक की थैली, सडी हुई सब्जियाँ, खराब फल होते हैं और वहा पशु, पक्षी, गौमाता, कुत्ते जैसे वन्य जीव आ कर वहाँ पडी चीजे खाते हैं। कई बार सब्जियों के साथ-साथ प्लास्टिक की थैलीयाँ भी उनके पेट में जाती हैं और वे जीव मर जाते हैं। इसलिए हमे प्लास्टिक थैली खरीदने या बेचने पर दंड आकारना होगा या उन्हें रोकना होगा। ज्यादा तर दुकान, होटल, अस्पताल, बाग-बगीचा, बस आगार रेलस्टेशन, चित्रपट गृह यहाँ अधिक कचरा होता है। हम देखते है कई बार छोटे बच्चों के साथ बडे भी बस में टॉफी, चिप्स या पॅकेट बंद चीजे खाते हैं और उसके रॅपर्स, पॅकेट बस में ही डालते हैं। उसी प्रकार फेरीवाले लोग बस में आ कर फल बेचते हैं और लोग फल खरीदते हैं, खाते है और उसके छिलके बस में ही डालते है और बस को गंदा करते है।

बस आगार पर खडे हुए लोग तमाखु जैसी गंदी चीजों का सेवन करते हैं और यहाँ-वहाँ थूकते हैं और हमारी प्यारी धरती मैया को गंदा करते है। इससे बस में और बस आगार में गंदगी फैलती है, इसे हमे रोखना होगा। उन लोगों को समझाना होगा। उसी के साथ उन लोगों पर दंड आकारना होगा और उन्होंने गंदा किया हुआ परिसर की साफसफाई उनसे करवायेंगे। हमने सिर्फ उन्हे पैसे की माँग की तो वो लोग तुरंत पैसे देंगे और चले जायेंगे, फिर उन्हे अपनी गलती का एहसास नहीं होगा। वो बार-बार ऐसी गलती करेंगे। लेकिन जब हम उनसे साफ-सफाई करवायेंगे तब उन्हे अपनी गलती का एहसास होगा और वह लोग अपनी गलती सुधारेंगे। हमे बस में कचरा करनेवाले, बस आगार पर थूकने वाले लोगों को रोखना होगा और उन्हे समझाना होगा कि स्वच्छता हमारे लिए कितनी जरुरी है।

**‘थूकने को नहीं है धरती मैया**

**बदलो अपनी आदत भैया**

**न करो किसी पडौसी का इंतजार**

**देश है सबका बढाओ**

**स्वच्छता अभियान।’**

स्कूल, महाविद्यालय की छात्र-छात्राएँ गढ, किले की सैर करने के लिए जाते हैं और वहाँ भी कचरा करते है। प्लास्टिक की बोतले, कोल्डड्रिंक की बोतले, चिप्स के पॅकेट वहीं फेंक देते है। वहाँ पर लडका-लडकी का नाम लिखते है। वहाँ गढ-किले के साथ सिर्फ सेल्फी लेने तक ही यह बात मर्यादित नहीं है बल्कि वहाँ जा कर गढ-किले की साफ-सफाई हमे करनी चाहिए। किले पर उगी हुई घास, पौधे, बेल इन्हे हटाकर किले को स्वच्छ करने में अपना योगदान देना चाहिए किले को गंदा करने से हमारे ऐतिहासिक स्थल का अपमान होता है। वहाँ जाना कोई बुरी बात नहीं है, बल्कि वहाँ के परिसर में अस्वच्छता फैलाना यह बुरी बात है। हमे आगे आ कर भारत को स्वच्छ बनाना है, यही हमारा ध्येय होना चाहिए।

**‘युवा शक्ति है सब पे भारी,**

**उठाओ झाडू गंदगी बाहर करो सारी**

**स्वच्छता ही है देश का सौंदर्य**

**जिसे लाना है हमारा कर्तव्य।’**

हमें टूटी-फूटी, खराब हुई चीजे- जैसे की टिक्ही, बॅटरी, बल्ब, पंखा जैसी इलेक्ट्रॉनिक चीजे यहाँ-वहाँ न डालकर उन्हे योग्य संस्था में देना चाहिए। उसी प्रकार हमें कई चीजों की पुनर्प्रक्रिया करनी चाहिए जैसे की सडी हुई सब्जियाँ, फलों के छिलके, पेड की सुखी हुई गिरी पत्तियाँ, फूलों के हार- इनका उपयोग कर हमे खाद बनाना चाहिए और उसे हम हमारे टेरेस पर गमले में मिट्टी के साथ डाल कर घर में इस्तेमाल होनेवाली सब्जियाँ लगा/उगा सकते है।

उसी प्रकार प्लास्टिक के कप, प्लास्टिक की टूटी-फूटी चीजे, प्लास्टिक की बोतले, थैलीयाँ, चिप्स के पॅकेट, दूध, दही पॅकेट इन सभी प्लास्टिक चीजों का इस्तमाल करके सडक और नाली के लिए ढक्कन बनाने के लिए लगनेवाली सामग्री तैयार करनी चाहिए। अलग-अलग किए-हुए प्लास्टिक की थैलीयाँ क्रशर और मेल्टिंग मशिनोद्वारा ये क्रश हुए प्लास्टिक की पक्की सडके और डांबरी सडके तैयार करने के लिए उपयोग करना चाहिए इसी वजह से सडक के लिए लगनेवाले डांबर की भी बचत हो गयी और सडकों की जिंदगी बढ जाएगी। हमे इस प्लास्टिक का इस्तमाल करना चाहिए। इससे हम गंदगी को बढने से रोख सकते है।

**‘साथी रे हाथ से हाथ मिलाना**

**गंदगी को दूर भगाना।’**

नदी, तालाब और समुद्र की स्वच्छता पर भी हमें ध्यान देना

होना। कई लोग अपने धार्मिक कार्य करने के लिए नदी में फूल और कई चीजे अर्पित करते हैं और इससे नदी प्रदूषित होती है। हमें नदी में फूल जैसी चीजे नहीं डालनी चाहिए बल्कि उसका उपयोग खाद बनाने में करना चाहिए। कुंभमेले के समय नदी में कई लोग स्नान करते हैं, कपडे धोते हैं, वही प्लास्टिक थाली में खाना खाते हैं और उसे वही डालते हैं। इससे नदी में प्लास्टिक का कचरा बढ़ जाता है। हमे उन्हें समझाना होगा, वहाँ, जा कर साफ-सफाई करनी होगी और प्लास्टिक चीजे खरीदने या बेचने से रोकना होगा। अक्सर समुद्र देखने के लिए कई लोग जाते लेकिन वहाँ भी गंदगी फैलाते हैं। हमें नदी पर और समुद्र के तट पर स्वच्छता के नारे देनेवाली बोर्ड लगानी चाहिए। कूड़ा यहाँ-वहाँ न डाल कर कूड़ेदान में ही डालने के लिए कहना चाहिए।

**‘गंदगी दूर भगाएँगे  
नदियाँ स्वच्छ बनाएँगे ॥’**

उसी प्रकार हमें बस में, बस आगार, चित्रपट गृह, रेल स्टेशन पर स्वच्छता के नारे देनेवाले बोर्ड लगा कर उन्हें सूचित करना चाहिए कि गंदगी फैलाना कितना बड़ा पाप है और स्वच्छता हमारे लिए कितनी जरूरी है। उसी प्रकार हम सब युवा को गाँव-गाँव जा कर वहाँ एक-दोन दिन रहकर उन सभी लोगों को स्वच्छता का महत्त्व समझाना होगा। हमे तिरंगा रॅली निकालकर घर-घर जा कर स्वच्छता के बारे में बताना होगा और उन्हें प्लास्टिक की थैलीयाँ का इस्तमाल करने से रोकना होगा। उसी प्रकार पथनाट्य के माध्यम से भी स्वच्छता हमारे स्वास्थ्य के लिए कितनी जरूरी है यह बताना होगी। उसके लिए जनजागृती करनी होगी। इस अभियान में कई प्रसिद्ध व्यक्ति, बड़े लोग इन्होंने आगे

आ कर अपना अमूल्य समय इस अभियान के लिए दिया है तो हमे भी इस अभियान में अपना योगदान दे कर भारत को स्वच्छ बनाना है।

अब हम सब को मिलकर एक शपथ लेनी होगी कि मैं प्लास्टिक की थैली का इस्तमाल नहीं करूँगा और नाहि किसी को करने दूँगा। बल्कि कपडों से बनी जूट या पटसन की थैली का इस्तमाल करूँगा और अपना घर, गली-मुहल्ला और आसपास परिसर हमेशा साफ रखूँगा। सब को स्वच्छता का महत्त्व समझाना हमारा कर्तव्य है। सभी ने ठान लिया कि हमें हमारा गाँव, हमारा शहर, हमारा देश साफ करना है तो हमारा देश जल्द ही स्वच्छ होगा। हमें बच्चों को भी स्वच्छता की सीख देनी होगी और कूड़ा हमेशा कूड़ेदान में ही डालना होगा तभी हमारा देश स्वच्छ, सुंदर होगा।

**‘इसलिए कहती हूँ  
रखो साफ सफाई घर आँगन और  
गल्ली-मुहल्ले में ताकि  
स्वच्छ भारत का अभियान पूरा हो  
और कामयाबी हो हमारे झोले में ।’**

जब हमारा देश साफ-सुथरा, स्वच्छ और गंदगी मुक्त होगा  
तब हमारा प्यारा भारत देश ‘स्वर्ग से सुंदर’ दिखेगा।

**‘आओ एक कदम बढ़ाये  
भारत को स्वच्छ बनाये  
स्वच्छ भारत अभियान  
को सफल बनाएँ ।’**

## Life is Beautiful and Not Always Blue

Sometimes in life you feel so blue,  
But someone somewhere too is not,  
as happy as you,  
You at the borders when  
the soldier sleeps,  
Missing his loved ones  
he silently weeps,  
Some where a mother painfully signs,  
because her new-born baby didn't open  
its eyes

Some here a poor dad silently cried,  
Seeing his son begging a bowl of rice,  
In an orphanage a little girl is sad,  
When she misses her mom and dad  
When reason to smile you may not have  
any Say to yourself that you are happier  
than many

More fortunate more safe and alive  
Because life is beautiful and not always  
blue, and someone same where too is  
not as happy as you

Shloka Sharma



# प्रवास

असा कसा संपला हा प्रवास  
हे मजला कळले नाही,  
वाटेत मला भेटले सुंदर मोर,  
हिरवी झाडे, पिवळी फुले  
उंच उंच झोका, पक्ष्यांचा थवा,  
आनंदाने खेळणारे पोर,

असा कसा संपला हा प्रवास  
हे मजला कळले नाही,  
चांदण्या रात्रीचा तो दिवस,  
लखलखणारे ते तारे  
शांत असलेली ती रात्र

किड्यांचा तो किरकिर आवाज  
असा कसा संपला हा प्रवास,  
हे मजला कळले नाही,  
कोवळ्या सूर्याचा तो प्रकाश  
मनमोहक फुलांचा तो वास  
सुरेल ती वासुदेवाची गाणी,  
मधुर अशी ओवीतील वाणी,

असा कसा संपला हा प्रवास,  
हे मजला कळले नाही...

समीक्षा भांडारकर  
एफ. वाय. बी. कॉम

## माऊली सावित्रीबाई फुले



तुझ्यामुळे मिळाले आम्हा ज्ञान  
तुझ्या कष्टाची सदैव ठेवू जाण  
यशाची उंच शिखरे गाठू आम्ही  
फक्त तुझ्या आशीर्वादाचा हात  
असुदे सदैव आमच्या पाठी

आम्हा मुलींसाठी तू सोसलेस  
हाल अफाट  
आम्हीही तुझी मान  
सदैव ठेवू ताठ  
तू दिलेली शिकवण नेहमीच  
आठवू आम्ही  
ही गोड आठवण नेहमीच  
साठवू आम्ही

आम्हाला शिक्षण मिळण्यासाठी  
तू टाकलंस पहिलं पाऊल  
आमच्या भविष्यासाठीची दिलीस  
गोड चाहूल

अस्पृश्यांसाठी पाण्याचे हौद  
खुले केलेस तू,  
समता आणि सामाजिक न्याय  
मिळवण्यासाठी आयुष्य  
समर्पित केलेस तू

तू केलेल्या स्त्रीभ्रूण हत्येविरोधामुळे  
घेतला जन्म आम्ही  
आता तुझ्यामुळेच सन्मानाने  
समाजात जगतोय आम्ही

स्वतःचे जीवन पणाला लावून  
केलीस रुग्णसेवा तू  
खरंच खूप श्रेष्ठ होती माझी  
माय माऊली सावित्रीबाई फुले तू!

कोमल पाचपिंडे  
एस.वाय. बी. कॉम.

# तरुणाई आणि सामाजिक समस्यांचे भान

कामाक्षी जोशी  
टी.वाय.बी.ए.

‘ तुमच्या सहभागाशिवाय  
तुम्ही यशस्वी होणार नाही,  
आणि तुमच्या सहभागा सोबत  
तुम्ही कधी अपयशी होणार नाही ’

हे डॉ. ए. पी. जे. अब्दुल कलाम यांनी तरुण पिढीसाठी उच्चारलेले वाक्य खरोखरच तरुणांना प्रेरणा देऊन कार्य करायला लावणारे आहे. आपल्या भारत देशाला ‘तरुणांचा देश’ असे संबोधिले जातं आहे. हे खरं असलं तरी आपल्या देशात तरुण मोठ्या प्रमाणात आहेत, पण तरुणांचा सहभाग हा देशाच्या प्रगतीसाठी तेवढ्याच कसोशीने वर येताना आपल्याला दिसतो का, हा प्रश्नच!

आज वाढीच्या वयात असणारी मुले त्यांच्याच वयाच्या मागच्या पिढीतील मुलांपेक्षा तरतरीत आणि बुद्धिमान वाटतात. ती मोटार चालवितात. कम्प्यूटर हाताळतात, दूरवर फिरायला जातात. अवघड परीक्षेच्या काळात हसतमुखाने परीक्षा देतात. एवढे सगळे असले तरी आजच्या तरुणपिढीतील मुलांना स्थैर्य आणि पूर्णत्व लाभेल, असे वाटत नाही. याचे कारण एकच आहे की, मुले एकाग्रचित्त होत नाहीत. साधनेचे सातत्य त्यांच्या जीवनात आढळत नाही. दिसेल तो प्रदेश पादाक्रांत करण्याची ईर्ष्या त्यांच्या ठायी आहे, पण समग्र जीवनाचा असा विचार नाही. जीवनविषयक तत्त्वज्ञान किंवा आराखडा नाही. तरुणांच्या आकांक्षांना ऐहिकाचे रंग आहेत; पण सूक्ष्म, तरल, आंतरिक अशा प्रेरणांचा स्पर्श नाही. धर्म, राष्ट्र, स्वातंत्र्य, समता, व्यक्तिमत्त्वाचा आदर, आत्मशोध, विश्वकल्याण, विज्ञानप्रवणता अशी मार्गदर्शक नियामके नाहीत.

स्पर्धा परीक्षा द्याव्यात, अधिकारी व्हावे, इंजिनिअर होऊन परदेशात स्थिर व्हावे, जमल्यास नाटक-सिनेमात काम करावे, जलदगतीने झोतात यावे आणि सुखी व्हावे-असे मुलांना वाटत असते.

आजच्या शालेय विद्यार्थ्यांच्या गप्पा, त्यांचा दिनक्रम, भांडणे आणि त्यातही हिंसाचार यांच्या बातम्या वाचल्या की, मनात अस्वस्थता निर्माण होते. जीवनाला आशय प्राप्त करून देणाऱ्या तत्त्वांचे चिंतन, शोधन व पालन ही मागच्या पिढीतील ओढ ओसरत चालली आहे. गांधी, टागोर आणि टिळक यांच्या

जीवनाला कशाचा तरी वेध होता. आचार्य कालेलकर, जावडेकर, भागवत हे राष्ट्रीय शिक्षणाचे पुरस्कर्ते ठरले. त्यांनी पोरवयात ही वाट निवडली. वि. स. खांडेकर शिरोड्याला गेले. प्रा. गं. बा. सरदार वडिलार्जित वारसा विसरून विचारयात्रेस निघाले. डॉ. आंबेडकर पोट बांधून मोठ्या ईर्ष्येने विद्यार्जन करीत राहिले. ही झाली शिखरे; पण सपाटीवरसुद्धा प्राध्यापक, कायदेपंडित, पत्रकार होण्याची ईर्ष्या बाळगून जगणारे होतेच. कोणी गरिबी पत्करली, कोणी श्रीमंती नाकारली. कोणी शिक्षणसंस्थांचे आजीव सेवक होऊन अल्पवेतनावर संतुष्ट राहून समर्पित बुद्धीने जगले. समाजाचा विकास, समाजाबरोबरच प्रत्येक व्यक्तीचा विकास या गोष्टींना त्यांनी महत्त्व दिले. आजची तरुण पिढी या सगळ्या गोष्टी माहिती असून उभारायला तयार होताना दिसत नाही.

मुलांचे वयाचे सोळावे वर्ष धोक्याचे मानले जाते. त्याच्या आगे-मागे असणारी चार-दोन वर्षे तशीच असतात. या वयात मुले आणि मुली यांना परस्परांविषयी अनामिक आकर्षण वाटू लागते. त्यांचे केंद्रबिंदू ठरतात आणि नंतर भावनांचे हादरे बसू लागतात. विशेषतः अल्पशिक्षित आणि कसलाही ध्येयवाद नसणारी व शाळा मध्येच सोडून देणारी मुले या आवर्तात सापडतात. सिनेमात काही पाहिलेले असते, मनात चित्रपट चालूच असतो. निसर्गाने निर्माण केलेले आवेग आत कोंडलेल्या दशेत वाट शोधीत असतात. मनाचा चौक होतो आणि त्यात भावनांची दंगल उसळते. थांबणे, विचार करणे, शेवटी तगमग, असह्य होत ताण येतो. आपल्या प्रयासाचे चित्र जीवनाच्या पाटीवरून कायमचे पुसण्यासाठी क्रूरतेचा मार्ग निवडला जातो. मुलींपेक्षा मुले अधिक आततायी होतात.

प्रेयसीचा वध करणे, तिच्यावर शस्त्राने वार करणे व तिला रक्ताच्या थारोळ्यात टाकून परागंदा होणे किंवा जीव देणे- अशा दुर्घटना वारंवार घडू लागल्या आहेत. या सर्व गोष्टींचा परिणाम त्या समाजावर झालेला दिसतो. पोलिस तपास सुरू होतो, खटले चालवले जातात, आरोपीला शिक्षा होते; पण प्रश्न सुटलेला नसतो.

असे घडावेच का? आज तरुण पिढीसाठी पुन्हा जागृतीची एक लाट निर्माण करण्याची वेळ आली आहे आणि त्यातूनच सामाजिक प्रश्न सोडवण्यास मदत होणार आहे.

सामाजिक प्रश्नात सर्वांत महत्त्वाचा उद्देश व घटक हा माणूसच

आहे. समाज म्हटलं म्हणजे धार्मिक परिस्थिती, स्त्रीबदलचे प्रश्न, राजकीय चढाओढी, जातिव्यवस्था, शिक्षणाच्या एकूण सोई-सुविधांचा विकास या सर्व गोष्टी डोळ्यांसमोर येतात. प्रसारमाध्यमे, त्यांचा तरुणांकडून होणारा वापर, त्यातून निर्माण होणारी अराजकता आणि एकीकडे निर्माण होणारी सोय, या सगळ्या गोष्टींचा समाजातील व्यक्तींवर परिणाम होताना दिसतो.

आपल्या देशात काही घटनांचा उलगडा होत नाही. आपण कायद्याचा आदर करतो व त्याच्या पालनाचा आग्रह धरतो. कायद्याची प्रतिष्ठा अबाधित राहावी, म्हणून प्रसंगी मुख्यमंत्री व पंतप्रधान यांच्याविरुद्ध कायदेशीर कार्यवाही करण्याचे धैर्य दाखवतो. पण नीती, कायदा आणि समाजस्वास्थ्य यांचा भंग करून अनेक प्रकारची आगळीक करणारा वीरप्पन याच्याशी चंदनवनात जाऊन चर्चा करतो.

लोकशाहीत मतप्रतिपादनाचे व समाजपरिवर्तनाचे मार्ग उपलब्ध असताना आडमार्ग हा राजमार्ग का ठरावा? असाच आणखी एक अगम्य भाग म्हणजे राजधानीतील टोळीयुद्धे! मुंबई व दिल्ली या आपल्या राजधानीच्या नगरांतून टोळीयुद्धे वारंवार होतात. दंगली घडतात. जाळपोळी होतात. खिशात मोबाईल व हातात पिस्तुल घेऊन आलिशान गाडीतून इतमामाने वावरणारी ही तरुण गुन्हेगार पिढी आपल्या चाळीला किल्ला समजून लढते. याच वर्गातल्या तरुणांनी योग्य मार्गदर्शन घेऊन, शिक्षणाचा अवलंब करून शांततेच्या मार्गाचा अवलंब केला; तर टोळीयुद्धे, गटागटामधील संघर्ष कमी होण्यास नक्कीच मदत होईल. टोळीयुद्धे ही विशिष्ट भागात घडून आली तरी त्यांचा परिणाम भयंकर असतो. कारण त्या गुन्हेगारी कृत्याला झालेली सुरवात हे धार्मिक आणि कधी जातीशी जुळवली जाते, हे कळेनासे होते. त्यामुळे ज्या तरुणांना योग्य मार्गदर्शन, योग्य शिक्षणसुविधा मिळालेल्या आहेत; त्या सर्वांनी या गटांचा शोध घेऊन प्रश्न सोडवण्याचा प्रयत्न करणे आवश्यक आहे.

तरुणांना काम नसणे, वृद्धांना आधार नसणे, कष्टाला किंमत नसणे, प्रामाणिकपणाला अर्थ नसणे या सगळ्या गोष्टी शिक्षणाच्या मदतीने सुटू शकतात. त्यामुळे तरुण ही समाज घडवणारी पुढची पिढी असल्यामुळे तरुणांच्या मनातील भेदभावाची भावना नष्ट व्हायला हवी.

समाजजीवन ही एक शिडी मानली; तर तिला मानमान्यता, आर्थिक स्थैर्य, सुरक्षितता, प्रतिष्ठा, सत्ता, स्नेह अशा अनेक पायऱ्या असतात. यांपैकी पहिल्या पायरीलाही ज्याचे पाय लागले नाहीत, त्याला तळातला माणूस असे संबोधले जाते. त्याला घर नसेल, तर त्याची समाजातील प्रतिष्ठा कमी असते. या सगळ्या गोष्टींचा विचार प्रत्येकाने तरुणांसहित विद्यार्थ्यांनी करणेही महत्त्वाचे आहे.

सध्याच्या कॉम्प्युटरच्या युगात मुलांना मोबाईल, फेसबुक, व्हॉट्सअप आणि इतर माध्यमे अगदीच सवयीची झाली आहेत. काहीही न शिकवता पालकांना समजत नाही, पण बऱ्याच वेळा मुलेच या गोष्टी पालकांना शिकवतात. गेल्या काही वर्षांत मुलांचा मेंदू मोठ्या प्रमाणात उत्क्रांत झाला आहे आणि त्याचबरोबर मुलांच्या हिंसात्मक व आक्रमक वर्तनात सर्वांत मोठा वाटा सोशल मीडियाचा सुद्धा दिसून येतोय. तरुण पिढी सोशल मीडियाचा अधिक वापर करते त्यामुळे सोशल मीडियाचा योग्य वापर करून त्यावरून निरपेक्षतेचे संदेश पोहचवणे आवश्यक आहे.. त्यामुळे मोठ्या समुदायाला जागृत करणे सोपे होईल.

तसेच शिक्षणाच्या नावाखाली जे घडते आहे, ते तसेच घडू द्यावे काय? शिक्षणाच्या भिन्नतेमुळेदेखील बऱ्याचदा लोकांमध्ये दरी निर्माण होते. त्यामुळे सगळ्यांना समान संधी मिळणे आवश्यक आहे. देशाला स्वातंत्र्य मिळून इतकी वर्षे उलटली, पण विचारातील पारतंत्र्य संपले नाही. शिक्षणात प्रयोगशीलता हवी, विचारस्वातंत्र्य हवे. शिक्षणक्षेत्रात न्याय हेच नियामक तत्त्व राहावे. त्यामुळे सर्वांचा विकास साध्य होऊन प्रश्न सोडविले जातील.

समाज या नावाने ओळखली जाणारी एक विराट शक्ती आपल्या जीवनाला संदर्भ पुरविण्याचे, त्याला आकार देण्याचे काम करित असते. पण या शक्तीचे आकलन व संवर्धन यात आपला वाटा कोणता, याचे चिंतन आजच्या तरुणांनी करायला हवे. आपल्या सामाजिक अस्तित्वाची व कर्तव्याची आपण दखल घ्यायला हवी.

समाज, देश, संस्कृती हे शब्द लोकनेते लीलया वापरतात. लोकही त्यांना दाद देतात. पण असा कोणी विचार करित नाही की, आपापले काम सोडून अनेक लोकांनी एका जागी कोणाची तरी वाट पाहत तिष्ठत राहणे आणि सभा भरेपर्यंत नको ती गाणी मोठ्याने लावून ठेवणे, यामुळे सामाजिक प्रश्न सुटतील का? आजच्या तरुणांनी याचा विचार करणे आवश्यक आहे. केवळ गर्दी म्हणजे समाज नव्हे. विटांचा आणि वाळूचा ढीग म्हणजे घर नव्हे. क्षितिजापर्यंत पसरलेले माळरान म्हणजे शेत नव्हे.

समाजजीवनाविषयीच्या विपर्यस्त कल्पनांचा निरास घडल्याशिवाय समाजजीवनाचे खरे चित्र रेखाटता येणार नाही. समाज हा एक आकृतिबंध आहे. अनुभवातून अस्तित्वात आलेली ती एक जीवनपद्धती आहे. तिच्या रचनेमागे लक्षावधी वर्षांचा इतिहास आहे.

आपल्या समाजात जागोजाग प्रकट होणारे मनुष्यत्व म्हणजे महापुराचे पाणी आहे. अशा पाण्याचा उपयोग पिण्यासाठी, धुण्यासाठी किंवा शेतमळ्यासाठी होत नाही. जमिनीत जिरले, तर जलाशयाची धारणा घडू शकेल; पण त्यापूर्वी व त्यासाठी ते

अडवावे लागेल, वळवावे लागेल, भूगर्भात जिरवावे लागेल. जागोजाग दिसणारे माणसांचे थवे म्हणजे सामाजिकतेला वंचित झालेल्या व्यक्तींचे घोळके असतात. समाजाविषयी, देशाविषयी, तालुका किंवा प्रदेश याविषयी सतत व उगाचच बोलत राहणे आणि आपल्या ओसरीवर पडून राहणारी आळशी माणसे हीच राष्ट्राची दौलत मानणे- ही विकृत धारणा 'राजकारण' या नावाने ओळखली जाते. उत्क्रांत व विकसित समाजजीवनाची विविध अंगे आता स्पष्ट झालेली आहेत. शिक्षण, व्यापार, शेती, वैद्यक, उद्योगधंदे, आरोग्य, प्रशासन, पोलीस दल या क्षेत्रांनी समाजजीवनाची व्याप्ती ठरते. आपले क्षमतासापेक्ष व संदर्भासापेक्ष असे स्थान निश्चित करून त्यानुसार कार्यरत राहिल्यास सामाजिक प्रश्न सुटण्यास मदत होईल.

झोपडीत राहणारे गांधी, मालकीचे घर नसणारे शास्त्री, अठरा वेळा तुरुंगवास भोगणारे लोहिया, जन्मठेप हीच आपली जीवनकथा असे समजणारे सावरकर... या तत्त्वनिष्ठांचे राजकारण मागे पडले आहे. याउलट, विविध रीतींनी जोडलेले धन व सौजन्याची वस्त्रे परिधान करणारे दुर्जन या राजकीय शक्ती होऊ पाहत आहेत.

विद्यमान समाजाचा भार पेलण्याची क्षमता ज्या संस्थांत उरली नाही, त्या कालबाह्य लेखून पर्यायी संस्थांची पायाभरणी केली पाहिजे. हिंदू समाजाच्या पायांतील शृंखला तुटल्या पाहिजेत, असे सावरकर म्हणत. लग्नात जात आडवी येऊ नये. अनुरूपता ही विवाहासाठी व पात्रताही व्यवसायासाठी आवश्यक अट मानावी. विधिनियेधातून निर्माण होणारी कुपमंडूकता नष्ट व्हावी. स्त्री ही कोणाच्या पायाची दासी नसावी. दलितांच्या वाट्याला गुलामगिरी न यावी. बुद्धी आणि विज्ञान यांना डावलून अंधश्रद्धेची संस्थाने निर्माण करण्यात धन्यता वाटणे, ही मनोविकृती आहे.

समाजाशी योग्य तो संवाद साधून, समाजक्रणाचा आपला वाटा उचलून उर्वरित व्यक्तिवैशिष्ट्यांचे स्वतंत्रपणे संवर्धन करण्याची सनद प्रत्येकाच्या हाती राहावी. समाजसेवा म्हणजे व्यक्तित्वाचे अवमूल्यन नव्हे.

प्रत्येक तरुणाने आपल्या व्यक्तिमत्त्वाचा सर्वांगीण विकास करून, शिक्षणाचा उपयोग करून समाजातील अडचणींकडे/समस्यांकडे लक्ष देणे आवश्यक आहे.

## गरिबीची जादू

गरिबीची जादू अशी चालते की  
की डोंबाऱ्याच्या पोरीला एका पायावर दोरीवर नाचवते,  
डोंबारी ताशा बडवतो  
पोरीची काळजी तोंडावरची दडवतो,  
क्षणाक्षणाला ती मुलगी बापाकडं बघत असते  
तो सांगेल तसं नाचत, डोलत असते  
वा रे 'गरिबी ! तू तिला दोरावर चालायचं धाडस दिलं  
पण जीवघेणा प्रवासही दिलास की,  
तिच्या जन्माला येण्याचा धडाच दिलास की!  
डोंबाऱ्याचा खेळ पोरगी खेळत होती.  
हातात काठी व डोईवर कळशा घेऊन चालत होती  
लक्ष बांधून चालणं तिचं जगणं बनलंय  
खेळ संपल्यावर तीचं दोन आणे मागण्यासाठी धावत होती  
ती डोंबाऱ्याची लेक बापासाठी झटत होती,  
गफलत केली लोकांनी,  
खेळ झाल्यावर पैसा न देताच पांगत होती...

श्रुती कदम  
एम.कॉम.

# तीर्थीधोंडा पाणी

लोकसत्ता 'ब्लॉग बेंचर' स्पर्धेतील बक्षीसपात्र लेख

शुभम कथले  
टी.वाय. बी. ए

उधमपूर येथे अमरनाथ यात्रेकरूंच्या बसवर नुकत्याच झालेल्या दहशतवादी (खरचं भ्याड??) हल्ल्याच्या पार्श्वभूमीवर अनेकविध प्रश्नांची उकल करण्याची आवश्यकता अगदी सामान्य मध्यमवर्गीयांपासून ते बुलेटप्रूफ गाड्यांतून फिरणाऱ्या उच्चभ्रू वर्गालाही वाटू लागली आहे. कारण गरीब असो किंवा श्रीमंत-शेवटी देवदर्शन हे बहुतेकांच्या उतारवयाचं प्लॅनिंग असतं. १९९० नंतरचा अमरनाथ यात्रेकरूंच्या बसवरील हा दुसराच हल्ला म्हणूनच जरा अनपेक्षित असा.

दहशतवादाचे जगावरील सावट हे दिवसेंदिवस गडद होत आहे, यात तिळमात्र शंका नाही. एकट्या भारतात सन २०१७ मध्ये आतापर्यंत एकूण ४७० जणांना आपला जीव गमवावा लागला आहे, त्यात २२७ दहशतवाद्यांचाही समावेश आहे; परंतु अशा यात्रांमुळे दहशतवाद्यांना आयतं सावज मिळतं म्हणून यात्रा करणं बंद करावं, असं म्हणणं घाबरटपणाचं ठरेल. उलट, आपण कशात तरी यशस्वी होतोय, असा समज होऊन त्यांना आणखी बळ येईल. इथं क्रमप्राप्त प्रश्न आहे तो दहशतवादाचा अन् नंतर येतो तो लोकांच्या श्रद्धा-अंधश्रद्धांचा; ज्यायोगे दहशतवाद्यांना सावज मिळतं असा विचार प्रचलित होतोय. परंतु असं नाही की, दहशतवादी बहुतकरून धार्मिक यात्रेकरूंनाच टारगेट करत आहेत. त्यांचं ध्येय फक्त जीव घेणं आणि मग ते एक गड्डा मिळाले तर सोन्याहून पिवळं; पण म्हणून आपण एकत्र जमायचंच नाही, हे या प्रश्नावरचं उत्तर असू शकत नाही. इथून मागेही दहशतवादी हल्ले अनेक ठिकाणी झाले- मग १५-२० जणांचा चमू घेऊन जाणारी श्रीलंकन क्रिकेट संघाची बस असो किंवा बंद, सुरक्षित (?) अन् गर्भश्रीमंतांची गर्दी असलेलं हॉटेल ताज असो; लंडनसारखं आधुनिक शहर असो किंवा सिरीया, इजिप्तमधली प्राचीन शहरं... दहशतवाद्यांनी लक्ष्य केला तो मानवसंहार. त्यामुळं 'अमरनाथ यात्रेकरूंनी यात्रेला जायची गरजच काय होती?' हा प्रश्न जरा उतावळेपणाचा ठरतो.

पण सामान्य लोकांना अशा यात्रांचं आमिष दाखवण्याचं श्रेय फक्त धर्ममार्तंडांचंच नाही, तर अशा यात्रांचं आयोजन (अल्प दरात) करणाऱ्या ट्रॅव्हल्स कंपन्यांनाही द्यावं लागेल. आता धर्ममार्तंडांनी लोकांपुढं एक न्यायिक धर्म मांडावा, लोकांना

यात्रांपासून परावृत्त करावं- हा काही वाटतो तेवढा सहज विषय नाही. अन् ट्रॅव्हल कंपन्यांना असं सांगा म्हणणं मूर्खपणाचं ठरेल. मान्य आहे की सद्यःस्थितीत या धर्ममार्तंडांची भूमिका महत्त्वाची ठरू शकते. पण त्यांच्या अंगी असा विवेकवादीपणा येण्याची वाट बघण्याखेरीज आपण काहीही करू शकत नाही. म्हणून भक्तांनीच काय तो सुज्ञ अन् सुरक्षित निर्णय घ्यावा. असंही नाही की, लोकांना धर्म मार्तंडांचा हा फोलपणा माहित नाही; पण पाप प्रक्षालन करण्यासाठी लोकांना अजून कुणी मध्यस्थ मिळत नसावा. असुरक्षिता, वैमनस्य, गरिबी अन् अशाच अनेक कारणांनी निराशावादी बनलेल्या लोकांना दैववाद तारणहार वाटू लागतो अन् मग त्यातूनच अशा प्रथा, यात्रा, देणग्या, नवस अशा गोष्टींचं स्तोम माजतं.

आता प्रश्न उरतो तो धर्मपालनाचा. तर, हिमालयातील यात्रा केल्यानेच धर्मपालन होते, असं कुठल्याही धर्मग्रंथात नमूद केलेलं नसावं. धर्माचा खरा अर्थ सांगण्याचा अनेकांनी प्रयत्न केला. तो कितपत यशस्वी झाला, हा भाग अलाहिदा. गांधीजी म्हणतात, "धर्मपालन म्हणजे आत्मभान किंवा स्व-ज्ञान." आता हे जर सामान्य माणसाला इतक्या सहजासहजी कळलं असतं, तर मथुरा पाण्यात गेलीच नसती. सांगण्याचं तात्पर्य इतकंच की- धर्मपालन म्हणजे काय, हे प्रत्येकानं ज्याचं-त्याचं ठरवावं. 'पी.के.'मधल्या आमीरनं म्हणा किंवा 'ओह माय गॉड' मधल्या अक्षयनं म्हणा- धर्म म्हणजे काय अन् या धर्ममार्तंडांचं खरं काय अन् खोटं काय, हे सांगण्याचा नेमका प्रयत्न केला; पण शेवटी सिनेमेच ते. धर्मपालनाचा एवढा जबरदस्त पगडा सामान्यांवर आहे की; त्यापुढं त्यांना धोका, वैज्ञानिक दृष्टिकोन, अंधश्रद्धा अशा गोष्टींकडे लक्ष द्यायला वेळच नाहीये.

पण धर्मपालन करताना शिस्तपालनही तितकंच महत्त्वाचं आहे. केवळ नियम न पाळल्यामुळं यात्रेकरूंना आपला जीव गमवावा लागला. व्यवस्थेतील कुचकामीपणा, लोकांचा हलगर्जीपणा या सर्वांचा परिपाक म्हणून अशा हल्ल्यांना तोंड द्यावं लागतं. प्रश्न फक्त भारतातील यात्रेचा किंवा यात्रेकरूंचा नाही, तर हीच परिस्थिती विदेशात भरणाऱ्या मक्का-मदिनेच्या यात्रेची आहे अन् तीच परिस्थिती कुंभमेळ्यांचीही आहे. दोनच वर्षांपूर्वी 'सैतानाला

मारलेला दगड' किती जणांच्या जीवावर बेतला, हे वेगळं सांगायला नको. पण म्हणून हे सगळं बंद करावं का? तर, अजिबात नाही. श्रद्धा-अंधश्रद्धा ह्यांची प्रत्येकाची एक चौकट ठरलेली असते. फक्त अंधश्रद्धाळू लोकच यात्रा करतात किंवा त्यांची यात्रा करणं म्हणजे अंधश्रद्धा आहे. असं म्हणून लोकभावनेचा निरादर केल्याचा ठपका ठेवून घेण्याइतपत इथं कुणीही दुधखुळं नाहीये. त्यासाठी शासनाची सतर्कता, लोकांचं नियमपालन, शिस्तपालन, दहशतवादाविरुद्धचा एकत्रित लढा, वैज्ञानिक दृष्टिकोन या बाबीही तितक्याच महत्त्वाच्या आहेत.

हल्ल्याच्या पार्श्वभूमीवर देवालाही अन् भक्तांपुढेही एक आव्हान उभं ठाकलं आहे. आता देवाकडं जायचं- पण काही

मागायला की मरायला, हा प्रश्न यानिमित्ताने 'भक्तांपुढे' हनुमान बनून उभा आहे. आता हे भक्त गर्वहरण मान्य करतील, की हनुमानाला वळसा घालून आपली भक्ती सिद्ध करायला परत देवाच्या भेटीला जातील, हे पाहणं औत्सुक्याचं ठरेल.

**'दगडास पुजून कुठे**

**लाभती मुले, धनसंपत्ती**

**विज्ञानानाची कास धरा**

**होईल तुमची प्रगती...!!**

हे कळण्यास भक्तांना वेळ न लागो, हीच 'देवाच्या' चरणी प्रार्थना!!

## मानसिकता

एकविसाव्या शतकातील, ही पुढारलेली पिढी जोपासल्या जातात इथे, रोजच नवीन रूढी वय वर्ष अठरा सुद्धा, लागत नाही नागरिकत्वाला गाडी, मोबाईल अन् पाटर्चा सारतात, मागे सगळ्या तत्वांना संस्कार आणि संस्कृतीला, विचारणार कोण आता? प्रत्येकजण रमलाय मिळवण्यात, पैसा अन् सत्ता कित्येकदा इथे नात्यांना पण, पैशांबरोबर तोललं जातं आदर, विश्वास अन् त्याग तर, आज अस्तित्वातच नाहीत. कृष्णांना पटतात गोपीया हजारां, पण कमी राहते राधेची टाइमपास होतो आयुष्याचा अन् कमतरता खऱ्या प्रेमाची कारण एकविसाव्या शतकातील आमची पुढारलेली पिढी जोपासल्या जातात इथे, रोजच नवीन रूढी आजकाल कॉलेजच्या दिवसांत आवडते, मुलगी अशी जशी कडक उन्हात दिसावी, झुळझुळणारी नदी सासरी येते बनून हीच, राजाची राणी मालकीण होते घराची, अन् सासू मात्र नोकराणी

काही हरकत नाही, आईची झाली मम्मी पण आजीचीही होते आया, इथे नात्यांची नाही हमी सुनेच्या राज्यात आल्यावर मात्र, संपलं राज्य सासऱ्याचं नातवापासून ठेवतात दूर, दुदैव वृद्धाश्रमातल्या आजोबांचं थोरामोठ्यांची अडचण होते, कारण सुखात राहायच असतं. पायाशिवाय भक्कम इमारत बांधणं, कधीच शक्य नसतं लक्षात असू द्या एक तत्त्व, जुनं ते असतं सोनं, स्टेटस जपता जपता थोडी, जपा एकमेकांची मनं चुकांवर चुका करणं, तारुण्यपणाचं लक्षण असतं पण झालेल्या चुका सुधारणं, हे तरुणाईचंच काम असतं ही एकविसाव्या शतकातील आमची पुढारलेली पिढी सावरू शकते नक्कीच, समाजाची बिघडलेली घडी!

**तेजस्विनी बाबर**  
एम.एस्सी.द्वितीय वर्ष



## हुंडा प्रथा निर्मूलनासाठी माझ्या नजरेतील उपाय

सुचित्रा पेडणेकर  
टी. वाय. बी. ए

हुंडा... मुलगी वयात आली की बापाला लागलेली काळजी, हूरहूर! रोजच्या गरजा कशाबशा भागवत असताना अपेक्षितपणे उभरून आलेली गरज, आयुष्यभरासाठी कर्जबाजारीपणाचा ठपका, तर एकुणात आयुष्याचा जीवघेणा केलेला सौदाच!

हुंडा म्हणजे मुलाच्या आई-वडिलांसाठी त्यांच्या मनाला वाटेल तेवढा मिळालेला बोनस; म्हणूनच 'मुलगी नको, मुलगा हवा' ह्या अट्टहासामागे कारण केवळ एकच- ते म्हणजे हुंडा!

समाजाच्या या पूर्वापार विचाराला रीती-रिवाज म्हणण्याऐवजी कलंकच म्हणता येईल, कारण हाच विचार नात्यात दुरावा आणतो. खरं तर दोन जीव एकत्र झाल्यानंतर त्यांच्या नात्यातून पहिल्या पावसातल्या ओलसर मातीचा सुगंध यायला पाहिजे, पण त्याऐवजी हुंड्यासारख्या कुजकट विचारांचा दुर्गंध येतो-जणू नात्याला गालबोट लागल्याप्रमाणे!

मुलगी वयात आल्यावर हुंड्याच्या विचाराने बापाचा पडलेला चेहरा, चिंता बघून 'अगले जनम मोहे बिटिया ना किजो' ह्या मुलीने आळवलेल्या स्वराने हृदय अक्षरशः पिळवटून जाते. पण तरीही ही प्रथा जेव्हा अमानुषपणे पाळली जाते, त्या वेळी मन अगदी त्वेषाने पेटून उठते आणि ही प्रथा बंद कशी करता येईल- जेणेकरून हा आक्रोश कमी होईल, यावर विचार करू लागते.

त्याच वेळी माझ्या नजरेत बरेचसे उपाय येतात. पहिल्यांदा एक मुलगी म्हणून मला असं वाटतं की, जर या क्रूर प्रथेला

आळा घालायचा असेल; तर ती सुरुवात स्वतः पासूनच करायला हवी की- मी हुंडा देणार नाही, हुंड्याला प्रोत्साहन देणार नाही. ही खूणगाठ जरी बांधली, तरी या प्रथेला आळा बसायला वेळ लागणार नाही. अर्थातच यासाठी या गोष्टी पाळण्यासाठी आई-बाबांची साथही महत्त्वाची आहे. प्रेम आणि विश्वास हे नात्याचे दोन महत्त्वाचे पैलू; पण प्रेम आणि विश्वासाऐवजी नातं हुंड्यावर चालणार असेल, तर ते नाकारलेलं केव्हाही चांगलं! असा जर प्रत्येक मुलगी विचार करायला लागली, ह्या विचारावर खंबीरपणे वागायला लागली; तर मला नाही वाटत की, ही प्रथा बंद व्हायला फारसा वेळ लागेल.

या सगळ्यात महत्त्वाची बाब अशी की, पहिल्यांदा मुलगी शिकली पाहिजे. तिला शिकवली पाहिजे, म्हणजे तिचे म्हणणे ती ठामपणे मांडू शकेल, हुंड्यासारख्या प्रथेला विरोध करू शकेल. आजकाल तर हुंड्याचं स्वरूप बदलतंय. आज मुली शिकताहेत, मोठ्या पदांवर काम करताहेत; पण तरी अट्टहास काय, तर संपूर्ण पगार सासरच्यांकडे सुपूर्द करायचा. हल्ली लग्नात मिळालेल्या गोष्टींकडे नाही, तर मुलींच्या गलेलट्ट पगाराकडे जास्त लक्ष असते. म्हणून या चुकीच्या गोष्टींसाठी 'नाही?' म्हणायला शिकणं हाच उपाय मला प्रामुख्याने इथे सांगावासा वाटतोय. पण तरीही नाही म्हटलं- मग नाही म्हणणारी मुलगी असो किंवा हुंडा नको म्हणून सांगणारा मुलगा असो- तरी सामाजिक दबाव हा असतोच. म्हणून जर कोणी या विरुद्ध पाऊल उचलत असेल तर त्यासाठी आई-बाबांचा, भावंडांचा पाठिंबा असायला हवाच. त्याचबरोबर लोकप्रतिनिधींचाही पाठिंबा असायला हवा, असं मला वाटतं.

सरकारने तर १९६१ मध्ये हुंडा प्रतिबंध कायदा आणला खरा, पण त्याचे परिणाम काही फारसे दिसले नाहीत. म्हणून मला असं वाटतं की, हा कायदा कठोर व्हायची गरज आहे. शिवाय कायद्याची कडी याबाबत मजबूत व्हायला हवी, असं मला वाटतं. शिवाय याचबरोबर हुंडाविरोधी आवाज उठवणाऱ्यास सरकारने सवलती द्यायला पाहिजेत. कारण सवलत म्हटली की, लोक आपसूकच या विरोधात आवाज उठवायला लागतील. हाच धागा पकडून हुंड्यावर आळा घालता येईल.

आता या विरोधात फक्त सरकारच नाही, तर वेगवेगळ्या सामाजिक संघटनादेखील कंबर कसून काम करताहेत. जशा की- नारी अत्याचारविरोधी मंच, स्त्री मुक्ती संघटना, आणखीही अशा बऱ्याचशा संघटना तळागाळापर्यंत जाऊन काम करताहेत, पण तरीही त्यांची ताकद कमी पडतीय. अशा वेळेला मला वाटतं की, हा उठाव खेड्यापाड्यांतील वस्त्यांमधील, शहरातल्या गल्ल्यांमधल्या मंडळांतून व्हायला पाहिजे; म्हणजे अगदी मुळावरच घाव घातल्यासारखा होईल.

उपाययोजना सांगत असताना एक गोष्ट आवर्जून कळालीये की, हुंडा घेणारा जेवढा दोषी तेवढाच हुंडा देणाराही दोषी आणि कुठे तरी आपणही दोषी; कारण अशा लग्नांमध्ये आपण आपली उपस्थिती आवर्जून दर्शवतो. म्हणून इथे असं म्हणावंसं वाटतंय की, अशा प्रसंगांवर सामाजिक बहिष्कार घालायला हवा- जेणेकरून या प्रथेचा बीमोड होईल आणि हा बीमोड करण्यास मदतीला येतील आपली प्रसारमाध्यमे- जी की, आताच्या घडीला सगळ्यांचा श्वास बनलीय!

या विषयावर असा विचार करत असताना आणखी एक विचार डोक्यात येतो की- शाळा-कॉलेजमधून भले आपण कितीही शिकलो की हुंडा वाईट, अगदी हुंडा म्हणजे समाजाला लागलेली कीड वगैरे; पण आई-बाबांनी त्यांच्या लग्नात हुंडा घेतलाय म्हणून ही गोष्ट आपोआपच मनावर बिंबणार. अगदी आई-बाबांनी हुंडा घेतला नसला तरी समाज

आहेच विचारणारा. म्हणून इथे मला एकच उपाय दिसतोय, तो म्हणजे- 'जनजागृती'. या जनजागृतीमध्ये 'मुलगी झाली हो' यासारखी पथनाट्ये, 'दावत-ए-इश्क', 'दहेज'सारखे सिनेमे किंवा या विषयाला धरून केलेली नाटके आणि कीर्तने अशा गोष्टी सर्रास व्हायला हव्यात, असं मला वाटतंय.

आज अशी स्थिती आहे की-वधूचे वडील स्वेच्छेने, स्वतःहून खूप काही वरपक्षाला देतात. कारण त्यांच्या मते, मुलीपेक्षा काहीच मोठं नाहीये. पण त्याचा परिणाम व्हायचा तोच होतो. जर लग्नात इतकं काही मिळतंय, तर लग्नानंतर का नाही? म्हणून मला इथे आवर्जून सांगावंसं वाटतंय की, जर हुंड्यासाठी मुलगी विरोध करतीये, मुलगा विरोध करतोय; तर त्यासाठी आई-बाबांनी साथ देणं, त्यांच्यासोबत खंबीरपणे उभं राहणं गरजेचं आहे, महत्वाचं आहे. कारण समाज कालही टीका करत होता, आजही करतोय आणि उद्याही करत राहणार म्हणून आपण मूग गिळून गप्प बसणं आणि चाललंय ते चालू ठेवणं, हा तर गुन्हाच ठरेल ना? पण जसं म्हणतात ना की, आगीसाठी फक्त एका ठिणगीची गरज आहे, मग ठिणगीचं काम आपण करू म्हणजे थोडक्यात काय, आपण आपल्या मानसिकतेत बदल करू म्हणजे समाजाचीही मानसिकता हळूहळू बदलेल.

अशा बऱ्याचशा उपाययोजना मी इथे सांगतीये. केवळ सांगत नाहीये, उद्या मला अमलातही आणायच्या आहेत आणि दुसऱ्यांनीही अमलात आणण्यासाठी प्रयत्नशील राहायचं आहे. कारण एक गोष्ट मला कळून चुकलीये की, ह्या उपाययोजना अमलात आणल्या गेल्या नाहीत. तर एक दिवस असा येईल की, मुलगीच वाचणार नाही.

शेवटी जाताजाता हुंड्याची व्याख्या करावीशी वाटतेय की-

हुंडा म्हणजे मला असं वाटतंय की, हुंडके देऊन कधीच न पुसला जाणारा अश्रूंचा डाग- जो की माणुसकीला लागलाय.

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कोमेजूनी मन आता विरहात हे धुंदले  
शांभवीच्या आसवात मी तुलाच शोधले  
मज संगतीत सारे गात आभाळ होते  
ताप्यात चांदण्यांचा मन धुंद न्हात होते

आयुष्यात आज मजला हळूवार जे उमगले  
तेच विश्व आज सारे दूर चालले होते  
प्रवाह विवंचनेत आज गुंतले अशी काही  
अखेरच्या वळणावर साथ कोणाचीच नाही

गायत्री जाधव  
एफ.वाय.बी.एस्सी.





## जागतिक महिलादिनाच्या निमित्ताने

समीक्षा भांडारकर  
एफ. वाय. बी. कॉम

दि. ८ मार्च हा जागतिक महिलादिन. सन १८९० मध्ये अमेरिकेत स्त्रियांना मतदानाचा हक्क बजावता येण्यासाठी 'द नॅशनल अमेरिकन सप्रेजिस्ट असोसिएशन' ची स्थापना करण्यात आली. त्यानंतर ८ मार्च १९०८ रोजी न्यूयॉर्कमध्ये वस्त्रोद्योगातील हजारो स्त्री कामगारांनी रुटगर्स चौकात जमून 'स्त्रियांना १० तासांचा दिवस, कामाच्या जागी सुरक्षता' ह्या मागण्या केल्या. अमेरिकेतील स्त्री कामगारांनी केलेल्या कामगिरीच्या स्मरणार्थ ८ मार्च हा दिवस जागतिक महिलादिन म्हणून साजरा केला जातो. भारतात मुंबईमध्ये ८ मार्च १९४३ पासून साजरा करण्यात येतो.

स्त्री ही गरीब असो वा श्रीमंत असो, तसेच शिक्षित असो की अशिक्षित असो- तिला तिच्या दैनंदिन जबाबदाऱ्या पार पाडाव्याच लागतात. आजची स्त्री अबला नसून सबला आहे, असे तिने समाजाला पटवून दिलेले आहे; तरी आज स्त्री सुरक्षित नाही. विविध क्षेत्रांमध्ये तिची भरारी आपण बघतोच. तरीही मुलगी जन्माला आली, तर ती नकोशी होते. समाजात मुलगी झाली, तर तिची विटंबना केली जाते. पण का? स्त्रीमुळेच आपले विश्व व्यापलेले आहे. जर स्त्री नसती तर... असा विचार कुणीही करत नाही. एखाददुसऱ्या वेळेस घरची स्त्री परगावी गेली, तर घर खायला उठते. आज स्त्रीमुळे हे अवाढव्य जग आपण बघू शकतो. स्त्रीचे माता, बहीण, अर्धांगिनी (पत्नी), प्रेयसी, अशी विविध रूपे आपण बघतो. तरीही आजच्या घडीला मुलगी जन्माला आली, तर मुलीची हत्या केली जाते किंवा मुलगी झाली म्हणून तिचा द्वेष केला जातो. आज पण समाजामध्ये स्त्री गरोदर असली की गर्भलिंग चाचणी केली जाते. यामध्ये शिक्षित समाज जास्त प्रमाणात दिसून येतो. जर मुलगी होणार असे कळले, तर कळी उमलण्याआधीच तिची हत्या केली जाते. हा प्रकार कधी थांबणार?

आज जाहिराती, मासिके व वर्तमानपत्रे अशा विविध प्रसारमाध्यमांद्वारे जनजागृती केली जाते. पण याचा विचार जनतेने केलेला दिसून येत नाही, कारण स्त्रीविषयीची त्यांची मानसिकता बदललेली दिसून येत नाही. माणसाची मानसिकता बदलणार

कधी? आज आपण २१ व्या शतकात पदार्पण करतोय, पण आपली विचारसरणी पुरातनवादी! आपण स्वतःला शिक्षित म्हणून समजतो; पण शिक्षण म्हणजे नेमके काय? समाजात होणाऱ्या चालू घडामोडींचा विचार केला, तर अंगावर शहारे येतात. माणसाने शिकून काय साध्य केलंय? समाज कुठल्या स्तराला गेलाय? या भारतमातेचा लेकरांकडे बघितले तर असे वाटते की, तो हाच भारत काय- ज्या देशामध्ये छत्रपती शाहू महाराज, डॉ. बाबासाहेब आंबेडकर, महात्मा ज्योतिबा फुले, राजा राममोहन रॉय यांच्यासारखे समाजसेवक निर्माण झालेत?

आपल्या भारतीय संस्कृतीमध्ये स्त्रीला देवीचे स्थान आहे. मुलगी जन्माला आली, तर 'पहिली बेटी धनाची पेटी' असे म्हणतात. आमच्या घरी लक्ष्मी जन्माला आली असे म्हणतात. परंतु त्याच लक्ष्मीचा आपण अपमान का करतो? तिची विटंबना का करतो? कधी हुंड्याच्या नावाखाली, तर कधी मुलगा होत नाही म्हणून काही ना काही कारणाने तिची पायमल्ली होतच असते. आजही मुलगी जन्माला आली, तर तिची हत्या केली जाते किंवा कळी उमलण्याआधीच गर्भपात केला जातो. आजपण मुलींना एकटे बाहेर पाठवायला हल्लीचा पालकवर्ग तयार होत नाही. का? आपण वर्तमानपत्रांमध्ये वाचतो, दूरचित्रवाहिनीवर बघतो की कुठे ना कुठे दररोज बलात्कार होतो आहे. त्यामुळे हल्लीचा पालकवर्ग मुलींना मैत्रिणीकडे पाठवीत नाही किंवा कुठे लांब उन्हाळी शिबिराला पाठवायला घाबरतो. आपला समाज सुरक्षित नाही. समाज सुरक्षित नाही म्हणून आपण सुरक्षित नाही. आजही समाजामध्ये स्त्रियांकडे बघण्याच्या दृष्टिकोन वेगळाच असतो. मुलींना लग्नाचे आमिष दाखवून किंवा नोकरीचे आमिष दाखवून त्यांना फूस लावून परदेशात विकण्याचे प्रमाण वाढलेले आहे. देशामध्ये चारही बाजूने बलात्कार, स्त्रियांचे गर्भपात, हुंडाबळी यासारख्या घटनांनी हाहाकार माजलेला आहे. कुठे तरी याला आळा बसायला हवा. हा बदल कोण घडवून आणणार? हा समाज की समाजातील प्रतिष्ठित व्यक्ती? एखाद्या ठिकाणी बलात्कार किंवा हत्या झाली तर शासन त्यांना थोडी फार मदत करतो, पण

गेलेला जीव किंवा गेलेली प्रतिष्ठा परत येणार का? आपली शासनव्यवस्था ढासळली आहे का? आपण मोठमोठी भाषणं करतो, जाहिराती करतो- आम्ही स्त्रियांसाठी हा कायदा करू, तो कायदा करू; पण ते नियम करतो कागदोपत्री, प्रत्यक्षात अंमलबजावणी मात्र शून्य.

**महिला एकत्रीकरण** - अमेरिकेमध्ये महिला संघटनांनी एकत्रित येऊन लढा दिला, त्याप्रमाणे भारतीय महिलांनी एकत्रित येऊन लढा द्यायला हवा. यासाठी महिलांनी संघटित व्हायला हवे. ग्रामीण भागातील महिलांना प्रशिक्षण द्यायला हवे. ठिकठिकाणी महिला संघटना उभ्या करून प्रथमदर्शनी वार्डट प्रसंग ओढवला, तर प्रत्युत्तर कशा प्रकारे द्यायला हवे याचे प्रशिक्षण महिलांना द्यायला पाहिजे. तसेच शाळेत प्रत्येक मुलींना ज्युड्यो-कराट्याचे प्रशिक्षण द्यायला पाहिजे. त्यामुळे मुली आपले संरक्षण योग्य प्रकारे करू शकतील. समाजात वार्डट कृत्य करणाऱ्या नराधमाला फाशीची शिक्षा देणे योग्य आहे. पण फाशी देऊन हा प्रकार थांबणार आहे का? खैरलांजी व निर्भयासारखे प्रकार वारंवार घडत आहेत. आजची स्त्री सुरक्षित कधी होणार? भाषणे देऊन किंवा थोडी फार शासकीय मदत करून हा प्रकार थांबणार आहे का? आजच्या घडीला कित्येक स्त्रिया आपला संसाराचा गाडा एकट्या ओढताना दिसतात. आजही एखाद्या स्त्रीला नवऱ्याने सोडले किंवा नवऱ्याचा मृत्यू झाला असेल, तर मोलमजुरी करून या स्त्रिया आपल्या

मुलांना शिक्षित बनवून सुज्ञ नागरिक बनविताना दिसतात. आजही अनेक अशिक्षित व सुशिक्षित स्त्रिया देखील आपला संसाराचा गाडा एकट्या सांभाळताना दिसतात.

जर स्त्री नसती तर- झाशीची राणी, लता मंगेशकर, सानिया मिर्झा, इंदिरा गांधी, जिजामाता, अहिल्याबाई, सावित्रीबाई फुले या जन्माला आल्या असत्या का? जिजाऊने शिवबाला योग्य मार्गदर्शन केले नसते, तर हिंदवी स्वराज्याची स्थापना झाली असती का? आपणच आपल्या जन्माचे शिल्पकार आहोत. आजही प्रत्येक ठिकाणी महिलांना दुय्यम स्थान दिले जाते तिला कमी लेखले जाते. बलात्कार, स्त्रियांचे गर्भपात, हुंडाबळी यासारख्या विकाराने हाहाकार माजलेला आहे, तो थांबवायला हवा. अमेरिकेमध्ये ज्याप्रमाणे लढा दिला, त्याप्रमाणे कृती करून हे प्रकार थांबायला हवेत. नुसती पेपरबाजी करून किंवा भाषणे देऊन हे थांबणार नाही. आपल्या देशातील स्त्रीयांवरील अत्याचार जोपर्यंत थांबणार नाहीत. तोपर्यंत ८ मार्च हा जागतिक महिलादिन सार्थक होण्याचे फळ मिळणार नाही. परिस्थितीनुसार माणसाने बदलायला हवे. आपण २१ शतकात पदार्पण करतो, पण जिथल्या तिथेच आहोत. महिलांना ५० टक्के आरक्षण मिळाले; परंतु प्रत्यक्षात त्याची भागीदार महिला आहे का? तिचे स्वातंत्र्य तिला प्रत्यक्षात मिळाले का?

या प्रश्नांची उत्तरे आजही नकारात्मक मिळतात. ही परिस्थिती आता तरी बदलावी असे म्हणावेसे वाटते.

तू

किती साधी, सोपी सरळ  
कवितेसारखी अर्थपूर्ण  
मोजक्या शब्दांत वावरणारी  
पण... कधी-कधी  
तू कळतच नाहीस  
अधिकच गूढ होतेस!  
दुर्बोध कवितेसारखी  
पण कवितेचे ठीक आहे  
निदान शब्दकोश जवळ केल्यावर  
उकलत जाते थोडे तरी  
तुझं मात्र तसं नाही...  
कधी-कधी  
तुझ्या चेहऱ्यावरील  
अज्ञात भावलिपी तेव्हा  
विश्वकोशावर मात करुनी  
अनेक शब्दबद्ध न झालेल्या भावना

तुझ्या डोळ्यांत तरळत असतात  
तेव्हा निमिषात अवाक् होऊन  
मी बुडून जातोय एका प्रश्नात-  
या अनाकलनीय कवितेसाठी  
कोणता अमरकोश पालथा घालावा?  
एवढ्यात अनाहूतपणे तुझ्या  
ओठांतून शब्द निसटतात...  
खरंच तू माझ्या शब्दात मावत नाहीस...!  
हळवलेल्या त्या उत्कंठ अनुपक्षणी  
आसवांसारखे शब्द माझ्या  
ओठांवरून ओघळतात...  
खरंच तूही माझ्या  
शब्दांत सामावत नाहीस...!

चेतन झडपे  
टी.वाय.बी.ए.



## Revamping of Education System : Times for Change

“ Education is not the learning of fact, but the training of the mind to think ”

- Albert Einstein.

Errina Datta  
T. Y. B.Com (A)

India is a society of hypocrites. There, I said it! Hypocrite, pretender, deceiver, impostor - that is what we have become. We talk about empowerment, but hamper our very own daughter's, we make claims about safety and then rape our own kids, we claim to hate corruption but then ourselves bribe under the table. We are quite a mismatch of a nation & contradict ourselves every day. Here is why we are called hypocrites and rightly so.

### Outline :

- i) We claim to be feminists but don't give up any privileges that come with being a woman.
- ii) We are tired of corrupt politicians but bribe policemen to escape a fine after breaking a red light.
- iii) We are asked to stay away from strangers; but are married off to one.
- iv) We are encouraged to be different but we have to choose between medical & engineering.
- v) If a foreigner abuses an Indian, we call them racists while we continue to differentiate between North & South Indians.

- vi) We boost of different cultures & languages, but use derogatory names like Chinki & Madrasi.
- vii) We make our kids study science but shut them up when they question stereotypes.

**History** - We cannot continue teaching with the methods of the 19<sup>th</sup> Century & hope to prepare our children for 21<sup>st</sup> Century.

We are students of words : We are shut up in schools & colleges & recitation rooms, for ten or fifteen years and come out at last with a bage of wind, a memory of words, and do not know a thing” - Ralph Waldo

I've noticed a fascinating phenomenon in my 30 years of teaching : schools & schooling are increasingly irrelevant to the great enterprise of the planet. No one believes anymore that scientists are trained in science classes or political class develop our politicians or poets in English classes. The truth is that schools don't really teach anything except how to obey orders.

Background Story - Visit any school in the country. You will find loads of books in bags & bulky answers in the notebooks, waiting to be crammed. Will the

students studying in this manner become our future leaders? Certainly not! The paradigm needs to shift its focus from CAPTIVE to CREATIVE studies. Despite this robust network, the foundation of Indian Education is shaky. It is lacking in both its outreach & content primary education has been made free & compulsory for all children upto the age of 14 years, under the right to education, but many children in rural & remote areas still don't have access to it.

**Schemes & Survey** - There are govt. run Kendriya Vidyalayas, Jawahar Navodaya Vidyalayas & Independent Schools. The higher education system encompasses 700 universities & 35500 colleges. Vocational training is conducted by private industrial training centres. In schools that have been established, appropriate infrastructure is lacking. The mid-day meal scheme of the govt. was a good initiative to lure rural children to school, but in some areas, the quality of food provided was found to be substandard.

According to a recent survey, it was also found that a majority of teaching post are lying vacant in government schools. In private schools, though both the infrastructure & teaching requirements are good, the admission process especially for nursery, is a big challenge for parents.

With time, the school curriculum also needs to evolve. Our ancient language, Sanskrit has made it to the British school curriculum. As with other subjects, like Science we lay more stress on mugging up facts rather than understanding the concept. We want our students to score 'high marks' without trying to find out where their interest lie.

**Media & Bollywood** - Firstly students must be encouraged to ask, why? and how? Remember, the 2009 movie, 3 idiots. In that 'Rahcho' the character played by actor Aamir Khan, taught us that a subject can become interesting if applied practically. There should not be any involvement of rote learning. Secondly, students must be made 'all-rounders' by laying equal emphasis on sports. Thirdly, as P.M. Modi said in his independence day speech, girls' toilets and other basic facilities must be ensured in all schools. Fourthly, sex education's inclusion is the need of the hour. Fifthly, action must be taken

against man handling of students. Sixthly, efforts must be directed towards bringing up female literacy rates. Last, tolerance to different faiths and communities, along with patriotism, must be essential ingredients of the education we impart.

Value education should be the 'RAISON D'ETRE' of every institution. As Nelson Mandela said, 'Education is the most powerful weapon which you can use to change the world.' Education is a process of giving or receiving systematic set of instructions to acquire any skill, knowledge, values, thoughts and habits. Education system of India in ancient times Gurukul System was followed which was not limited to science & mathematics but cover aspects of life including values & beliefs.

**Conclusion** - Under British Raj Modern Education system was introduced where unlike of Gurukul system this system is confined to science & mathematics focused to classroom teaching. Alas! that not everyone get benefit from the system & the reason was lack of school, teachers, resources and management. Post independence witnesses that poor literacy rate of rural & urban India was a big problem. Finally to make education better, an Education was adopted by Indian Parliament in 1968. This makes education compulsory for all the children upto the age of 14. Also better training & quality of teachers. Current education system had drastically showed vast improvement has incurred due to the high tech devices like mobile & laptops. This education system enables the reach of education & lessen the dependency on the teachers. Also provide more educational institutions & the growth of opportunities.

**Drawbacks** - Indian Education System believe in learning more than understanding. They tell us to learn the facts & concepts, not focus on understanding the things.

Another major drawback of the system is the imbalance of various streams despite the availability of various fields as profession engineering, medicine and management differentiates from the other stream.

Lack of sports, art & music education. Our education system is totally based to our study of core subjects neglecting sports and art culture.

Another drawback of our system is focus on theoretical knowledge above practical knowledge. No education system is perfect but there are things that can be corrected and improvised. Education should not be about learning the facts only, moreover recently Bill Gates visited India where he spoke about to bring necessary changes in our education system.

Advantages - With the advancement of education, India has been witnessed great development in the field of economy. People are less unemployed and some of them are even self-employed. One of the best things is that child labour has gone down to great extent. Second positive aspect is focussed on theoretical knowledge. Students are being able to learn more & more theoretical concepts. This helps them to develop higher intellect compared to students from other countries.

No doubt Indian Education System is comparatively less expensive than other Western countries, which will help our student to study further.

**My Perspective** - I was among those children who get a stomach - ache before going to school on every morning. I was also amongst those children who used to get suddenly anxious before the exam. And I just don't know how I managed to pass them. Till date I ask myself what those 15 years of education actually help me anyway. Did they help me to give a good & a meaningful life? Did they make me a creative human being? Same thing happen when I went to college & when I walked out of my college I asked myself this question and I realised that the college has made me an urban parasite and I was actually clueless of the 3 basics of life which were

“Roti, Kapda & Makan”! And to tally ignorance of my highly consumeristic wasteful life.

For me I realised this education system is doing much more harm than doing good. Today's education system is creating millions of unemployed, visionless, wisdomless youth.

It is said that , “Education is the key to unlock the golden door of freedom, education is an ability to listen to almost anything without loosing your temper or self confidence. I feel,”the true purpose of education is to make educational minds, not careers.”

Education is not preparation for life, education is life itself.

I feel pity that our education system has failed to change following habits

- i) We tell our daughters how not to get raped but don't teach our sons that they shouldn't rape women.
- ii) We talk about equality of the sexes, but hardly take violence against men seriously.
- iii) We want our sons to get good jobs; but want our daughters only to get good husbands.
- iv) We worship cows but treat women worse than animals.
- v) Talking about sex is a taboo but having babies & being the 2nd most populous country is not
- vi) We are proud of our art & culture but censor the same if it's bold.
- vii) We really need to change and for which you & we entire youth is responsible.

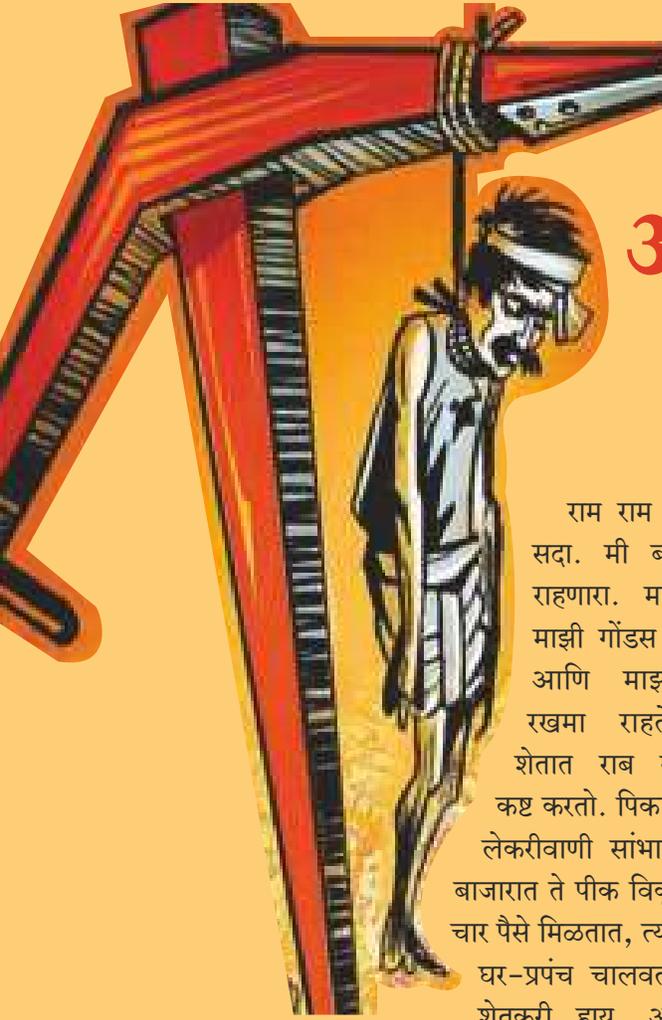
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Don't judge me when I fly,  
Don't judge me when I fall,  
What I speak, How I behave,  
It's just the surface of my soul  
What may seem right to me,  
May be even wrong to you,

After all it's a game of perspectives,  
Somebody's false is somebody's true  
So let me be set me free,  
Don't pass any judgement,  
Because only then can I be  
Truly and completely myself

**Aishwarya Bhojkar**  
F.Y.B.A.



# आत्महत्या : एक कटू सत्य

विश्वतेज जगताप

राम राम मंडळी! मी सदा. मी बाभूळगावचा राहणारा. माझ्या घरात माझी गोंडस मुलगी रमा आणि माझी बायको रखमा राहते. आम्ही शेतात राब राब-राबतो. कष्ट करतो. पिकाला पोटच्या लेकरीवाणी सांभाळतो आणि बाजारात ते पीक विकून जे काही चार पैसे मिळतात, त्यावरच माझा घर-प्रपंच चालवतो. मी एक शेतकरी हाय. आम्ही काय सांगणार आणि तुम्ही काय आमचं ऐकून

घेणार? आम्हाला तुम्हाला काय सांगायचं म्हटलं की, तुम्हाला वाटणं साहजिकच आहे की, मी तुम्हाला नेहमीच आमचं रडगाणं सांगणार. पण मंडळी, आम्हाला तुमच्यासमोर रडायची वेळच का येते हो? या प्रश्नांचं उत्तर तुमचा कुठलाच आयोग ठरवू शकत नाही. आमच्या अडी-अडचणी आम्हाला माहीत असणार, का ह्या गार वाऱ्याच्या खोलीतून बाहेर न डोकावणाऱ्या पांढऱ्या बुद्धीच्या अधिकाऱ्याला माहीत असणार? म्हणूनच आज मी आज माझ्या जीवनातला खूप भयानक पण वास्तव मांडणारा प्रसंग सांगणार आहे.

माझ्या शेतकरी बांधवांवर आत्महत्या करायची वेळ ज्या कारणामुळे आली, तीच कारणे माझ्याही नशिबी आली. दुष्काळात नद्या, नाले, विहिरी, बोरचे पाणी सगळं कोरडं पडलं होतं. त्यात भरीस भर म्हणून गेल्या वर्षीच्या पिकासाठी काढलेलं सावकाराचं कर्ज आणि त्याच चक्रीवाढ व्याज अन् त्या सावकाराचा जाच तर सगळ्याच शेतकऱ्यांच्या नशिबी आहे म्हणा. पण पीक नाही आलं, म्हणून तेही वाढत चाललेलं. घरात खायला अन्नाचा कण नाही आणि सगळीकडेच दुष्काळ असल्यामुळे हाताला काम नाही. वर सरकार तर नुसतंच गाजर दाखवतंय आम्हा शेतकऱ्यांना. मग आम्ही काय करावं हे तुम्हीच सांगा?

खूप वेळा विचार केला आत्महत्येचा. आत्महत्येचे पण धाडसच झालं नाही. असेच दिवसामागून दिवस चालले होते. हाल कमी नाही, पण वाढतच चालले होते. मग मनात आलं की आज काय पण होऊ दे, एकदाचा ह्या त्रासातून तरी सुटून मी. आणि त्या दिवशी भरल्या रात्री मी घरातला दोर बाहेर घेऊन आलो आणि घराच्या काही अंतरावर जे झाड आहे, त्या झाडावर चढू लागलो. पण रिकाम्या पोटी झाडाच्या खोडावर पाय जमवायला मला त्रास होत होता. मी अनेक वेळा प्रयत्न केला, पण मला वर चढताच येत नव्हतं आणि अचानक माझा पाय घसरला आणि मी जमिनीवर कोसळतो तसाच पडून राहिलो. मला उठताच येत नव्हतं. अचानकच मला सगळी दुनिया फिरल्यासारखी वाटली. मी डोळे बंद करून पडतो. मला काही वेळाने तशीच झोप आली. मी तसाच त्या झाडाखाली बेवारश्यासारखा पडून होतो. त्याच वेळी मला एक स्वप्न पडलं. त्या स्वप्नात मी एवढं भयानक दृश्य पाहिलं की, ते मी आजवर विसरू शकत नाही.

त्या स्वप्नामध्ये मी आत्महत्या केली होती. माझ्या बायकोचा लक्ष्मीसारखा चेहरा मी कोरड्या माळरानासारखा ओसाड पाहिला. माझ्या पोरीच्या डोळ्यांतून नुसतं पाणी येत होतं. रिकाम्या पोटी हंबरडा फोडून रडायची ताकद नव्हती तिच्यात. एक महिना एक वेळ जेवण केलेलं, ते पण अर्धपोट. दूषित पाणी ते चार मैलांवरून घेऊन यायचं आणि ते तसंच साडीच्या पदराने गाळून प्यायचं- अशी आमची दशा. काही दिवस निघून गेले. आता माझ्या बायकोच्या आणि मुलीच्या पुढ्यात येऊन पडलेला मोठा प्रश्न आणि तो म्हणजे- पोट कसं भरायचं? तुमची लेकरं शाळेत जात असतील. तुम्ही त्यांना घास भरवण्यासाठी मागे पळत असाल. तुमची मुले रोज कपडे घाण करून ते बदलत असतील. ग्लासमध्ये पाणी घेऊन ते पाणी थोडेच पिऊन बाकीचे पाणी फेकून देत असतील; पण आमची लेकरं तशी नाहीत. भाकरीचा घास घेऊन आमच्या मुलांच्या मागं-मागं पळावं नाही लागत. पाणी पिताना पाण्याचा एक थेंब त्यांच्याकडून पडत नाही. कपडे कितीबी मळले, तरी बदलू शकत नाहीत. मी होतो तेव्हा तिला हे तरी समाधान होतं की, तिचा बाप काही तरी करून एक वेळच का होईना- अर्धपोट का असेना- पण खायला काही तरी आणत होता. ज्या वेळेस माझ्या शेतीत चांगल पीक यायचं, त्या पिकाला योग्य भाव

भेतायचा; त्या वेळेस मी माझ्या बायकोला घराचा उंबरा कधी ओलांडू दिला नाही... आणि आज मी तिच्यावर काय वेळ आणली होती! पण ती खमकी होती. हार मानणं तिच्या स्वभावाला पटत नव्हतं. आमच्या बायकाच मुळात धाडसी नवरा मेल्यावर कोणत्याही बायकोला पुढचं आयुष्य शून्यातून उभं करायचं असतं, तरी पण त्या घाबरत नाहीत. आलेल्या प्रसंगाला तोंड देतात. त्या आमच्यासारख्या पळवाट काढत नाहीत. संकटाचा कसा सामना करायचा, हे पुरुषांनी बाईंकडून शिकावं.

एके दिवशी तिला कळले की, एका ठिकाणी मजुरीचं काम आहे, म्हणून ती लगेच त्या ठिकाणी कामाला जाऊ लागली. पण ते कामही तीन दिवसांसाठीच होतं. पण तिने विचार केला की, तीन दिवस तर तीन दिवस. कामाला गेली आणि आज तिचा तिसरा दिवस होता, म्हणून तिने घरातलं सगळं आवरलं आणि कामाला निघाली. ती ज्या वाटेने जात असे. त्या वाटेवर सावकराचं घर लागत होतं. ती सावकाराच्या घरासमोरून जाताना तिला सावकारानं पाहिलं आणि बोलवून घेतलं. म्हणाला की, तुझ्या नवऱ्याने माझ्याकडून जे कर्ज घेतलं होतं त्याच्या परतफेडीत त्याने मला एकही रुपया दिला नाही, ते तुला द्यायचं आहे आणि त्याने संपूर्ण कर्जाचा आकडा वाचून दाखवला. तो त्याने फुगवलेला आकडा ऐकताच तिला धक्काच बसला. ती म्हणाली की, माझ्या नवऱ्याने मला सांगितलं होतं की, सावकाराचे अर्धे पैसे मी दिलेत. मग तुम्ही असं का बोलताय? तर सावकार तिच्यावरच डाफरायला लागला. म्हणाला, मला काही माहीत नाही. एवढं कर्ज आहे. फेडणं नसलं होतं तर सांग, जमीन माझ्या नावावर करून घेतो. ती म्हणाली, ती जमीन माझ्या नवऱ्याची आहे, त्यात त्याच्या घामाचे आणि रक्ताचे थेंब पडलेत. काही पण करून मी तुमचं कर्ज फेडेन आणि ती जमीन परत मिळवेन. तिची खायची पंचाईत असून पण तिची ती जिद्द पाहून सावकार तर चाट पडला होता. हे बोलणं चालू असताना नेमकं सावकाराचं पोरग बाहेर आलं. ते खूप दुष्ट, कपटी आणि निर्दयी होतं त्याला बघताच माझ्या बायकोने माझ्या पोरीला तिच्याआड केलं. पण त्या नराधामाची नजर तिच्यावर पडलीच. माझ्या बायकोनं लगेच तिथून जायचं ठरवलं आणि ती निघाली. पण त्या नराधमाची नजर माझ्या लेकीवरून काही हटेना. त्या दोघीही पुढे चालू लागल्या.

काही अंतरावर ते चालत असतानाच सावकाराच्या पोराच्या माणसांनी सुनसान रस्ता बघून त्या दोघींची वाट अडवली. माझ्या बायकोला हाणमार करून पोरीला जबरदस्तीने उचलून गाडीवर टाकून घेऊन गेले. माझी बायको मोठमोठ्याने रडत, आक्रोश करत

त्याच जागी पडली. तिला पुढे साधं पाऊल पण उचलवत नव्हतं. ती नुसतीच आरडाओरडा करत बसली होती.

इतक्यात तिने मला मोठ्याने आवाज दिला- 'धनीSS' तेवढ्यात मला जाग आली, तर खरंच माझी बायको मला उठवायला आली होती. तिला बघताच माझे डोळे पाणावले. मला काय करू ते कळेना. तिने मला विचारले, "तुम्ही इथं काय करताय?" मी तो हातातला दोर लपवत म्हणालो की, काही नाही म्हणून. तेवढ्यात अचानक माझ्या डोळ्यांसमोर माझ्या मुलीचा चेहरा आला. मी धावत-पळत घराकडे निघालो. घराचा दरवाजा जोरात उघडला. माझ बाळ झोपलं होतं. मला तिची ती निरागस झोप नाही मोडू वाटली. मला तिला हा सगळा प्रकार नव्हता सांगायचा. मी एका बाजूला बसलो, तिच्या चेहऱ्यावर बघत. तेवढ्यात रखमाला सगळं खरं खरं काय घडलं ते सांगितलं. ती कावरी-बावरी झाली आणि माझ्या पायावर डोकं ठेवून रडत-रडत म्हणत होती. "माझी शपथ घ्या की, तुम्ही असलं वंगाळ काही करणार नाही." म्हणून मी तिला पोटाशी धरलं आणि वचन दिलं की, मी असा विचार पण मनात आणणार नाही. मी विचार केला की- मी हे काय होतो? माझ्यामुळे माझ्या बायकोवर, मुलीवर काय वेळ आली असती? आजचे दिवस उद्या जातात, पण असलं काही करायचं नाही आणि कुणाला करू पण द्यायचं नाही. मी मनात निश्चय केला की, आज माझ्या सगळ्या साथीदारांना बोलवायचं, कारण माझीच नाही तर सगळ्या गावकऱ्यांची उपासमार चालू होती. आत्तापर्यंत गावात चौदा जणांनी आत्महत्या केली होती.

सकाळ झाली. मी सगळ्यांना एकत्र बोलावलं आणि झालेला सगळा प्रकार सांगितला. सगळ्यांच्याच डोळ्यांत पाणी होतं. मी जमलेल्या माझ्या मित्रांना एकच सांगितलं की, 'आता रडायचं नाही, लढायचं. ते पण आपल्या नशिबी आलेल्या वाईट वेळेबरोबर.'

सरकारला पण हेच सांगायचं की, आम्ही ठरवलंय- आता रडायचं नाही, तर लढायचं. त्यात आम्ही कनभर आहोत, पण मनभर व्हायला वेळ नाही लागणार. आता पण आम्हीच आहोत अन् नंतरबी आम्हीच असणार, कारण एक शेतकरी हजार लोकांचं पोट भरतो; पण हजार शेतकरी एका सरकारला नाही असू शकत का? जगद्विख्यात लोकशाहीर साहित्यरत्न अण्णा भाऊ साठेनी म्हटलं आहे की, पृथ्वी ही शेष नागाच्या मस्तकावर नाही, तर ती गोरगरीब शेतकरी व कष्टकऱ्यांच्या हातावर विराजमान आहे, हे लक्षात घ्या.

# जगण्याचं मंथन

महेश शिंदे

एम.ए. प्रथम वर्ष (इकॉनॉमिक्स)

काही असो, जगण्याची हौस काही संपत नाही. रात्री आकाशातील ताऱ्यांकडे पाहत बसणं, हा काही आनंददायी अनुभव नसावा. एक तर काळोख आणि त्यात विशाल पसरलेलं आकाश अन् लाखो प्रकाशवर्षेदूरवरचे मिणमिणते तारे आपण किती क्षुद्र आहोत त्याची जाणीव करून देतात.

आपण स्वतः अडचणी तयार करतो, स्वतःच प्रश्न तयार करतो आणि त्यांचं समाधान पण स्वतःच करून घेतो. कधी-कधी समाधान होत नाही, 'एवढाच' काय तो फरक.

इतर प्राण्यांचा मेंदू विकसित नसल्याने त्यांना असे प्रश्न पडत नाहीत. त्यांना जगायचे असेल, तर ते दुसऱ्याला मारून जगतात. (संदर्भ - जीवशास्त्रातील अन्नसाखळी) आपला मेंदू नक्की कधी ते माहीत नाही, पण अचानक विकसित झाला व पाहता-पाहता मानवाने ही पृथ्वी पादाक्रांत केली. आज आपण नवीन शोध स्वतःचे जीवनमान सुधारायला लावतो (ह्याच शोधांमुळे आधुनिक जीवनशैलीने आपले जीवन ताणतणाव व समस्यांनी पोखरले आहे.) आपण प्रगती करतो, त्यामागची प्रेरणा नक्की आपल्याला कोण देतो? आपल्याकडून होणाऱ्या गोष्टी कोण आपल्याकडून करून घेतो का? उदा. - आपल्या प्रयोगशाळेत आपण उंदरांच्या अनेक पिढ्या जन्माला घालतो. त्यांच्या दृष्टीने ते त्यांचे आयुष्य जगत असतात. पण आपण त्यांच्यावर अनेक प्रयोग करतो. कारण त्यांच्यावर होणारे बदल व परिणाम पाहून आपण औषधे व अनेक गोष्टी बनवतो. त्या उंदरांना त्याची काहीही कल्पना नसते की, आज अचानक आपल्यात रोगाची साथ का आली? मला कधी कधी वाटते, माणूस कोणाचे तरी उंदीर नसेल कशावरून? काही प्रगत परग्रहावरील जीवांनी आपला मेंदू पृथ्वीवरील इतर जीवांपेक्षा काहीच्या काही जास्त प्रमाणात विकसित केला नसेल कशावरून? थोडक्यात, आपण जगतो का आपल्याला जगवले जाते? जगण्याची व त्यासाठी काहीही करण्याची दुर्दम्य आशा आपल्यात कोण निर्माण करतो?

'कुणा ना कळले त्रिखंडातल्या हात विणकरांचे.' आपण का जगतो? 'का?' या प्रश्नाला समाधानकारक उत्तर मिळेल, असे वाटत नाही. हे बरेचसे लहान मुलांच्या प्रश्नसाखळीसारखे असते. एकाच उत्तर दिले की, 'पण तसे का?' त्याचे उत्तर दिले की, मग पुन्हा तसे का?... तेव्हा अशा प्रश्नालिकेपेक्षा जे जीवन आपल्याला मिळाले आहे- कोणत्या का कारणाने असेना- त्याचा पुरेपूर उपयोग करावा, आनंदात जगावे, क्षणस्थ व्हायचा प्रयत्न करावा.

जीनेवालो को जीने का बहाना चाहिये! असे जगण्याचे

सांगण्यासारखे बहाणे हजारो आहेत. पण त्यातलं कारण एकही नाही. बहुधा मला जगायला आवडतं म्हणून जगतो. जगण्याची आसक्ती संपली की, असं जिवंत दिसणारा माणूस आणि प्रेत यात काय फरक? तेव्हा मरताना, मरणं हा आतापर्यंत न अनुभवलेला प्रवास असावा म्हणून आता जगतोय... मनापासून जगून घेतोय?

आयुष्यात सगळ्या प्रश्नांची उत्तरे देता येतात, पण 'का?' या प्रश्नाचे उत्तर बऱ्याचदा मिळतच नाही. हे जग आहे. असं आहे, तसं आहे, मी काय, कसा, कुठे, कोण- या सर्व प्रश्नांची उत्तरे आहेत. पण 'मी का आहे' या प्रश्नाचे उत्तर नाही. हे जगसुद्धा का आहे, याचे उत्तर नाही. का हा सगळा प्रपंच निर्माण झाला? याला देखील उत्तर नाही. या 'का?' वाल्या प्रश्नांची उत्तरे शोधायचा प्रयत्न करू नये, वेड लागू शकतं.

काहीसं अध्यात्मिक वाटेल, पण सर्व जण एका कधीही न संपणाऱ्या आनंदाच्या शोधात जगत असतात, जो मरेपर्यंत मिळत नाही. तसं पाहिलं तर मनुष्य आणि इतर प्राणी काही वेगळं करत नाहीत. खाणे, पिणे, झोपणे, प्रजनन आणि स्वतःचे व कुटुंबाचे संरक्षण या गोष्टींच्या अवती-भवतीच माणसाचे सुख, दुःख व आयुष्य फिरत असते. फरक हाच की- माणसं जास्त विचार करतात, निसर्गाला आव्हान देत फिरतात; इतर प्राणी हे करत नाहीत. ते निसर्गाच्या नियमाप्रमाणे जगतात, वागतात.

ज्या दिवशी 'मी का जगतो?' किंवा 'मी का आहे?' या प्रश्नांची उत्तरे मिळतील, त्या दिवशी जगण्याची इच्छा संपेल. कदाचित आपला कित्येक प्रश्नांनी केलेला गुंता सुटला नाही की, आपण आध्यात्मिक वगैरे गोष्टी पुढे करतो. ते तसंच किंवा असंच असतं, अस मानतो. म्हणजे आपल्या विचारांचं आणि जगण्याचं यांत्रिकीकरण केलं जात असेल का? किंवा होत असावं का? जगणं आणि जगण्याबद्दलच्या प्रश्नांची साखळी संपत नाही. म्हणून आपण यात्रेत हरवलेल्या बालकाप्रमाणे रडत-बोंबलत फिरावं का? तर, तसं अजिबातच नाही. आपल्याला पडलेल्या प्रश्नांचं आपण सृजनात्मक विश्लेषण करावं. प्रत्येक जीवामध्ये जगण्याची दुर्दम्य इच्छाशक्ती उपजतच असते. आपल्या जाणिवांवर, आपल्या जगण्यांवर आपण जाणीवपूर्वक निस्सीम प्रेम करावं. आपलं जीवन हे आइसकॅंडी सारखं असतं. ते खाल्लं तरी संपत नाही, खाल्लं तरी संपतच असतं. म्हणून ते असंच संपण्याअगोदर आपण त्याला टिपायला, जगायला शिकायला हवं.

We laugh, we cry... and come back for more. (source : The fault in our stars)

# The Damaru

**Komal Kharat**  
(S.Y.B.Sc. Microbiology)

India has a rich musical history which is inspired with diversity in terms of forms, styles, kinds of instruments with equally interesting background stories factual associations.

One such instrument with fascinating existence and believes is the "Damaru". The "damaru" is a small two-headed drum. It is used widely in Hinduism and Tibetan Buddhism. The "damaru" is idally known as the instrument of the deity Shiva and is said to be created by Shiva to produce spiritual sounds by which the whole universe has been created and regulated; whereas, in Tibetan Buddhism, the "damaru" is used as an instrument in "Tantric practices."

Shiva loves "damaru", unfortunately it is not used in musical compositions where one needs variations of beats after beats; but, the sound of "damaru" is the sound of "Omkaara". Amazing thing about "damaru" is that it gives same beat every-time, no variations, yet its sound can go high and low but the sound goes in the same beat. As the beat of "damaru" symbolizes the sound of "'Aum" which also has only one beat without any variations, i.e. existing since the infinity. When Shiva plays the "damaru" he plays omkaara and when he dances to it he is called the "'Nataraja."

The drum is typically made up of wood, metal, or bones, with leather drumheads at both ends. It is played single-handedly. The strikers are typically beads fastened to the ends of the leather cords around the waist of the "damaru", knots in the leather can also be used as strikers. As the player waves the drum using a twisting motion, the strikers beat on the drum-head and produce the sound.

The "damaru" is known as a power drum, and when played it is believed to generate spiritual energy. It is also believed that Sanskrit language was recognized by the drumbeats of the "damaru" and Shiva's performance of cosmic dance the "Tandava". In the shield shape of the "damaru" the triangular upward representation is believed to symbolize male procreativity whereas, downward round representation symbolizes the female procreativity. According to the beliefs, the creation of the world begins when the male and the female procreativity's meet at the midpoint of the "damaru", and the destruction takes place when they separate from each other.

Some of the mythological beliefs about the "damaru" lists as follows : some traditions tell us that drums made from wolf's skin would always sound louder than one made from sheep hide because the sheep is afraid of its natural enemy; whereas, some traditions believe that a "damaru" should only be played if one seeks to wake the dead because it is made from human skulls, this implies that communicating with spirits through the drum is quite possible.

Some of the interesting facts about the "damaru" involves it as a symbol of the Universe which is always expanding and collapsing. It also symbolizes sound. Sound is rhythm and sound energy. The whole Universe is nothing but a wave function, it is nothing but rhythms. So the "damaru" signifies the nature of Universe.

Despite of being incompetent as an instrument of today's world it is of great importance to many of the nations and their traditions especially India as it is widely worshiped along with the deity Shiva and believed to be a sacred one as its beats symbolizes the sound of "Aum."

"There is no sound louder than AUM. It cannot be ignored neither disobeyed."

# We the people of India



We the people of India  
Are of the same type  
We the people of India  
Are of the equal right  
We the people of India  
Tight in different ways  
Not realizing that  
We stand in the same race  
We have the equal status  
We are equal before law  
But why don't we understand that  
We are equally born?  
Gita, Bibal, or Kuran  
Hindu, Christian or Muslman  
God has made us equal  
But we have culture of  
different gerry and different sound  
India is the country of democracy  
India is the country of equality  
But can we say proudly that  
India is early an independent country?  
This question in our mind,  
but what we could do?  
We still are not alive  
When the question comes of our pride  
Come on Indians  
Throw back all your hesitations  
Come together, unite together  
Celebrate the humanity  
that will give one slogan  
Diversity to Integrity

Gayatri Somase

# Have Faith

Have faith dear, everything will be fine,  
I want before all, you to be mine

Approached each other for something new  
It was just introduction of me and you

They were the idiotic and silliest questions  
If was an attempt, to grab your attention  
I thought for a while of love at first sight,  
But it didn't last long, it turned into a fight

After few sunset I thought you've disappeared  
But then destiny again brought us together  
I thought its coincidence with little fear,  
But never knew dear we would come so near

Let it be ice-cream or teddybear,  
All was shared with love and care,  
Time was decided to come online,  
You were priority, and others in line.

The chamber was reserved in each other's heart  
But few fights and situations took us apart  
Nothing with me of you at all  
Just memories and impressions to recall

Two different souls from different ways,  
Days were beautiful for short phase  
Again to talk it will take years  
I'm sure you will be back, no fear

Let it be 3 years or let it be nine,  
I will wait for you on every valentine  
Have faith dear, everything will be fine

**Bhagyashree Gaukwad**

T.Y.B.sc

# The Incredible Lady

You are the one who taught me about like  
How not to fight and what is right  
You are the words of my song  
You are my love, my like my mom

Dear mom, you say me? I am illiterate  
You teach 3 of your daughters in English  
medium, Why are you also deliberate?  
I am lucky that god has given me an angel in  
form of mother,  
Oh mom, forget Dad  
I am ur greatest lover  
Ohh pretty lady Neighbours have given you  
mother Terreca as a nickname,  
Because they know you are very kind hearted  
and have a good aim.  
Mom Im sorry your heart is like a stone Because  
you send, your daughter to others house, When

she's grown.  
9 months you carried your daughter with so much  
of pain,  
Mom, you know, I get Upset when you spend time  
with aunty to friend.  
But I forget, that you will always love us at the end.  
I love the way. dad and you talk!  
From where do you bring so much of stalk!  
I love your romantic pair nobody will interrupt you  
talks because they won't dare  
Oh lady, I am giving you a pure, Sweet rose,  
Gathered by your sleepy daughter in early morn,  
This rose is that you planted in my heart  
The day, I was born  
"I love you mom"  
Self prepared

**Sana Shakh**  
S.Y. B.sc

# The Unsaid Programmer

Probably it is night outside  
Or may be its almost dawn,  
eyes dabbing with the tears  
Seems I'm done what I can

Tons of research million lines of code  
furthermost weeks of sleepless nights  
now you are something I came up with  
no more lights, now I'm switching of lights

Working with you, for you, on you  
don't know how times & time gone  
family, my love, everything I lost  
dreaming for you on & on

Today is a day, when I'm weak & down  
and you're being stronger and stronger  
I gave you what I can't have too  
now you need me no longer

Today is a day where my glory faded  
but I mode you stand on your own  
Today is day where I'm done  
and you standing against me like unknown

**Abhinav Jadhav**  
M.sc (Comp. Scie.)

# Aeris Varm Udm

माणसं वेगळी, समस्या त्याच  
डॉक्टर निराळे, औषधं तीच...  
त्याच ज्ञानेश्वरीची तिच पारायणं  
तरीही होत नाही शांतीचा सूर्योदय...  
उगम आणि उदय.  
इबल्याशा ठिणगीनं पेटतो वणवा  
मग...  
मग पोटातली आग डोळ्यांत  
अन् डोळ्यांतली अमग जिभेवर...  
त्यानंतर जिभेवरून थेट गळ्यावर...  
मग... ?  
मग होंतो रक्ताचा अभिषेक  
कुणाचं कुंकू पुसतं,

तर कुणाचं स्वप्न...  
कुणाचा राजकुमार,  
तर कुणाचं भविष्य  
कुणाचं राज्य,  
तर कुणाचा अखंड देश...  
जगाच्या नकाशावरून...  
केवळ एका ठिणगीची पिलावळ उद्ध्वस्त  
करते सगळ्या आशा-आकांक्षांना...!  
साऱ्यांच्या आशावादाला  
डोळ्यांसमोर... डोळ्यांदेखत...!  
सगळ्या-सगळ्यांच्याच...

श्याम दाताळ  
टी.वाय.बी.ए.

## परीसर्प

परीसर्प हा होता, जीवनं झालं सोनं  
दिपस्तंभ हा दिसता, गायलं प्रकाश गाणं

चंद्रसूर्यासमान आहे, मज पाठबळ आता  
सांगीन मी इतुकेच, तुम्हांला जाता जाता

जीवनाचे माझे गलबत, घेत होते हेलकावे  
देवदूत आले सावराया, नाही कसले हेवेदावे

भीती नाही कशाची, फक्त ध्यास हा शोधाचा,  
शोधूनी ज्ञानाचे पोळे, गोड घास खावा मधाचा

आहे पसंत मजला, राहणे या ऋणात  
छबी राहू दे अशीच, आमची तुमच्या मनात

प्रा. मनिषा बेले (धेंडे)  
वाणिज्य विभाग

## The Pune Diary

Ebou Jobe  
S.Y.B.A  
Gambia



“Memories of journeys never leave the mind. The most beautiful ones keep replaying leaving one yearning for a trip like that again.”

“Everyone has pre-conceived notions about a certain place before actually visiting it. But when one begins to travel, they realise that whatever they heard was so wrong as compared to what he sees in real.”

In 2017 the College (Modern College) took the initiative of arranging a heritage tour of Pune City. 17 International students got this opportunity to participate in this Pune Darshan Heritage Tour on Wednesday, 20 September 2017.

A day that we (international students) might not forget for the rest of our lives. We visited a number of monuments, heritage buildings and tourist points in and around this beautiful city of Pune. Thanks to Gauri Mam for the timeless efforts she took to make this tour a successful one for us. Tour guides were also provided for us which helped us to get detailed account of Pune’s history and heritage. We were also accompanied by a teacher from the Political Science Department.

However, our experience from this trip and the places we visited was mind blowing for us. The Pataleshwar Temple and caves was beautiful seeing a rock-cut cave temple carved in the 8th Century in the Rashtrakula period as we also learned that the cave / temple is dedicated to the Hindu God Shiva.

Another place we visited was the Darshan Museum. This was I could say the best site and historical museum we enjoyed. The museum

showcases spiritual leader sadhu TL Vaswani’s life and philosophical teachings through state of the art technology. We were definitely fascinated by it.

Our next visit was the Aga Khan Palace as we learned, it was donated by Aga Khan IV in 1969 to India and it currently houses Mahatma Gandhi’s Memorial, Samadhis and archives, of photos and portraits of Gandhi during the freedom struggle. The palace was built in 1892 by Sultan Mohammad Shah Aga Khan III in Pune.

Again another Unique place we visited was the National War Memorial Southern Command which is a war memorial in Pune Cantonment dedicated to post - Independence war martyrs. We learned that it is the only war memorial in South Asia which has been erected by citizens contributions. It was amazing to know of all of this and we got the opportunity to learn more about the history of these Martyrs.

Finally we also got to visit Dr. Ambedkar Museum on Senapati Bapat Road established on 14th April 1990 in the birth Centenary year of Dr. Babasaheb Ambedkar has become a pilgrimage for thousands of his followers, as well as tourists who come to Pune from all parts of the world. We learned that he was the leader of depressed Classes and the father of the Indian Constitution.

The Museum houses a large number of his personal belongings including the bed on which he breathed his last, the table and chair which he used while writing the constitution of India, the statue of

Bhagwan Buddha before which he bowed everyday, his rare photographs, and so much more to mention but just a few.

Other sites we visited also includes Shinde Chhatri, Shaniwar wada, Lal Mahal, Vishrambaug Wada. All these were beautiful places we visited.

We enjoyed the tour and got to learn a lot about

India and Pune and its multidiversed culture. We hope to experience and have more upcoming tours to other cities or states of India to make it a much more remarkable events for us as International student. Once again we thank the college and the staff and all those who made it a possible. On behalf of all the International students in the college I thank you for making Pune a second home for us.

## चूभें बातों की डकार

औरत बोले पुरुष को, वो चुगलीखोर है  
पुरुष भी बोले औरत को, वो चुगलीखोर है ।  
दोनो भी है चुगलीखोर, मात्रा कम-ज्यादा है  
माननेको न दोनो तय्यार, अन्याय ये घोर है ।  
चुभी जो बात मुझे, वो सामने रख दी  
मन के खयालोंकी डकार मैंने बक दी...

एकही शब्द का अर्थ हर विषय में होता है भिन्न  
खुद गुरुवर्य भी है दुविधा में खिन्न  
और याद रखने बोले हमें ऐसे कैसे विषण्ण  
दिमाग हमारा पचा नहीं, पाता ऐसा ये मिष्टान्न  
चुभी जो बात मुझे वो सामने रख दी  
मन के खयालों की डकार मैंने बक दी...

ट्रॅफिक मामाजी सिखाए हमको ट्रॅफिक के रूल  
विनावजूद पैसा माँगे, बढाने भ्रष्टाचारी धूल  
धूल बनेगी आँधी, अब गलती है दोनोंकीहि  
हमने लगायी आदत उनको अब भुगते हमही  
चुभी जो बात मुझे सामने वो रख दी

मन के खयालों की डकार मैंने बक दी  
ध्वनीप्रदूषण का बजाए डंका जश्न के नाम  
साऊन्ड्स लगाते बडे, बादशाह ठहरे बेलगाम  
पैसे की तो है बरबादी, स्वास्थ्य भी देंगे कुचल  
उपरसे बोले आजही मनाओ जश्न, किसने देखा कल,  
चुभी जो बात मुझे वो सामने रख दी  
मन के खयालों की डकार मैंने बक दी,  
गुटखा, तमाखू खा, मुँह का बन गया छाला  
कॅन्सर होता है पढकर भी अनदेखा कर डाला  
गंदगी बनाकर खिलानेसे, उत्पादन ही बंद करो  
लोगों को मार, पाप से परिचय क्यूँ, भगवानसे तो डरो  
चुभी जो बात मुझे सामने वो रख दी  
मन के खयालों की डकार मैंने बक दी।

बालिका गावडे  
टी.वाय.बी.सी.एस.

# “Coming together in Vividha”

**Ebou Jobe**  
S. Y. B. A .  
Gambia

**Coming Together is a beginning**

**Keeping together is Progress**

**Working together is Success**

This is what the Vividha meant for us as International Students. A platform that gave us the opportunity to share our cultural diversity. It was an amazing experience for us. Especially with the Exhibition-cum-sale.

This we took it as an opportunity and without any hesitation took part in it. Students from various parts of the globe (Gambia, Uzbekistan, Muzambique, Seychelles, Sri Lanka, Afghanistan and Malawi) joined us.

Sales were made and as an opportunity for us perhaps for one of the first time been a sales person and seeing business in a broader perspective. What made it more amazing is that we got to interact with several of the local students in the college many of which we would not have known had we not been for the VIVIDHA.

They too (the local students) got to know a lot about our countries and cultures. Meeting entrepreneurs was also amazing and seeing various displays of talented and mind sharing beneficial information about entrepreneurship. Such a beautiful platform it was.

In conclusion, we (international students) will take this opportunity to thank the College and the administrative department for giving us this golden opportunity and we hope to take part in more events to come. Given below is the Recipe of some of the food we prepared.

## Wonjo Juice (The Gambia)

Wonjo juice is well known in Gambia and is consumed daily or on special occasions like naming ceremonies. It has so many other names around the world such as billap, Sorrel, hibiscus, Jamaica and Zobo Juice. It is very nutritious and refreshing sweetened drink perfect for a hot spring or summer day.

The “wonjo” juice Recipe includes

- (I) 2 cups dried hibiscus flowers (wonjo leaves)
- (ii) 6 cups water
- (iii) 1/4 cup mint leaves/1tbsp peppermint flavouring/use both
- (iv) 1 tablespoon strawberry/banana/flavouring - optional
- (v) 1 cup sugar or to taste
- (vi) 1 teaspoon lemon juice - optional

## Malwi Poff Puff

The Malawi Poff Puff is that spongy, deepfried, spherical snack that originated from Malawi. It is soft and springs back to touch, you know, like when you pinch a foam sponge

Ingredients

For about 25 balls of popp puff, you will need

- (i) 2 cups (250 gm) of plain flour
- (ii) 2 teaspoons of yeast (the one used in baking bread)
- (iii) 1/2 teaspoon ground nutmeg
- (iv) 1/2 cup granulated sugar (to your taste)
- (v) 3 pinches of salt
- (vi) Lukewarm water (for mixing)
- (vii) Vegetable oil for (anyone)

## Home made Milk Rice (Sri Lanka)

Milk rice is one of the very popular rice in Sri Lanka. If you are a Sri Lankan, chances are that you have milk rice for breakfast at least once every week. It is often prepared on birthdays / anniversary / wedding etc. It plays such a huge part in Sri Lankans that it is the first dish that is tasted when transitioning from breast milk to solid food at the age of just 6 months.

### Siri Lankan Milk Rice - Ingredients

- Rice 0 2 cups (Raw rice, Parboiled rice will not b)
- coconut milk - 3 cups, thick
- Water - 4 and 1/2 cups
- salt to taste

### Fried Plantains

Fried Plantains are a traditional treat in many parts of the world. For example, Latin America through West Africa to East Africa and Caribbean such as Jamaica and in many parts of Southeast Asia and in Western Nigeria, Fried plantain may be served as a snack, a starter or as side dish to a main course, such as wite jollof rice, tomato stew or beans

### Ingredients

- 4- Ripe plantains

- Vegetable oil for deep frying
- Available at Hispanic markets and some specially provide markets and supermarkets

Given below is the name of the participants of International students who took part.

Names	Class/Year
Ebou Jobe	S.Y.B.A.
Mohammad Ajmal Stanekzay	S.Y.B.A.
Erandi Anupama Jayathissg	S.Y.B.A.
Agness Msonda	M.A. part II
Iqbal Attaye	S.Y.B.A.
Umid Abdulakhidou	S.Y.B.A.
Lucia Neidy	S.Y.B.A.
Julianne Marie	S.Y.B.A.

## मुसाफिर हूँ यारो ।

मुसाफिर हूँ यारो  
आगे की मंजिल  
मुझे ढूँढ रही है ॥१॥

कभी यादे दिलाती है,  
कभी ठुकराती है  
तो कभी पलपल  
में मुस्कराती है ॥२॥

कभी खुशी का  
न था ठिकाना  
बस मुझे  
चलते चलते  
गुजारीश करना ॥३॥

हर लम्हे पल  
पल मे मजा

लेने की चाह  
करती है ॥४॥

जिन्दगी कभी  
रूमानीसी होती  
तो कभी पलकें  
बिछाकर  
राह देखने लगती ॥५॥

बस एक ही  
ख्वाब मेंने  
शिद्दत से  
चाहा है ।  
जो कभी टहनीयो मे  
कभी शीतल  
चांदनी रात में

तो कभी पक्षियों की  
गुँज में दिखाई  
देता है ॥६॥

चलते-चलते  
बस खुशी के  
लम्हे याद करके  
चलते जाना ।  
मुसाफिर हूँ यारो  
ना घर है  
ना ठिकाना ॥७॥

सुयश शिंदे  
एस.वाय.बीए.

# Malawi

**Wakisa Mwakyanjala**  
M.Com. II  
Malawi

Country in East Africa

Capital: Lilongwe

Dialing code: +265

Currency: Malawian kwacha

Official languages: Chewa, English

**Main Cities:** Lilongwe, Blantyre and Mzuzu.

**Population:** 17.2 Million

SESA gives 6 July 1964 as the date of **Malawi's independence** from Britain under Banda as prime minister. According to that source **Malawi** only became a Republic within the Commonwealth two years after **independence**, on 6 July 1966.

**Identification:** Malawians are part of the large Bantu population that migrated northward from South Africa at around the turn of the twentieth century.

**Location and Geography:** Malawi is a landlocked country that lies east of Zambia, north and west of Mozambique, and south of Tanzania. Its area is 45,747 square miles (118,500 square kilometers). The major topographic feature is Lake Malawi, a freshwater lake that is home to hundreds of fish species found nowhere else in the world. Twenty percent of the landmass consists of water. The topography varies from the high Nyika plateau in the north to the Shire River valley in the south that is an extension of the Great Rift Valley. In the far southeast corner is Mount Mulanje, which is among the highest mountains in Africa.

The capital, Lilongwe, is roughly in the center of the country. However, the major commercial center is Blantyre, named after the birthplace in Scotland of the first European to discover Lake Malawi, the English explorer Livingston. Access to the Indian Ocean is normally by rail to the port of Beira in Mozambique.

## MALAWI AND INDIA RELATIONSHIP

The relations between India and Malawi are marked by **cordiality** and friendship and **cooperation**. The two countries hold identical views on many regional, international and **multilateral** issues. India had a resident diplomatic mission in Lilongwe in 1964, the same year of Independence of Malawi.



Malawi and India signed a *Bilateral Cooperation Agreement* in 2010. There has been bilateral *cooperation* in a number of areas such as Agriculture, computer technology and many others. The below picture depicts the picture of Indian Minister with the President of Malawi.

### Cultural Dances and Fishing

Malawians have a wide variety of traditional dances which spice up their way of life. Three of these namely: Vimbuza, GuleWaMkulu and Tchopa have been proclaimed by UNESCO as Masterpieces of Oral and Intangible Heritage of Humanity. Lake *Malawi*, rivers and smaller lakes and reservoirs provide varied *fishing* opportunities.

### MALAWI'S ECONOMY

According to World Bank overview, in 2017, Malawi's GDP growth rate was about 4.5% from

2.5% in 2016. Improved weather patterns with increased rainfall in 2017 are expected to result in higher levels of agricultural output than were recorded in 2015 and 2016. Agriculture contributes 30% of GDP. The country's headline inflation rate continues to decelerate faster than anticipated, falling to 9.3% in August 2017, compared to 22.8% in August 2016. This downward trend has largely been due to a sustained decline in food prices resulting from the increased availability of maize, and a stable exchange rate.

Sustainable growth is predicated on sound macroeconomic management and structural reforms to lay the foundations for a more resilient and diversified agriculture sector. For Malawi's economy, the weather will remain a major part of the economic cycle, with the negative impact of bad weather compounded by factors such as population growth and environmental degradation.



# India - Mozambique Relations

**Lucia Silveria**  
S.Y.B.A  
**Mozambique**

India and Mozambique enjoy close, friendly relations built upon traditional links dating back to the pre-colonial period. Traders and merchants from the Indian sub-continent came to Mozambique centuries back, even before Vasco da Gama set sail for Africa and India. These traditional links have grown from strength to strength over the years as a result of which India and Mozambique today find a lot of common ground to cooperate with each other for their mutual benefit. India consistently lent its support to Mozambique in the latter's freedom struggle. Mozambique achieved its independence in 1975 and diplomatic relations between the two countries were established in the same year. India was, in fact, among the first countries to open its Embassy in Mozambique immediately after independence. The Indian Ambassador was among those who witnessed the historic event of the Portuguese flag coming down and the new Mozambican flag going up in 1975. Mozambique opened its Mission in New Delhi in 2001.

## **Political:**

**Exchange of Visits:** The leadership of the two countries has maintained a cordial and friendly relationship. There have been regular high-level exchanges and interactions in a number of fields. The first Mozambican President Samora Machel paid a state visit to India in April, 1982, which was reciprocated by a visit to Maputo by Prime Minister Mrs. Indira Gandhi in August, 1982. President Joaquim Alberto Chissano visited India two times – in May 1988 and May 2003. President Armando Guebuza also paid a state visit to India in September-October 2010, while Prime Minister Aires Ali visited India in March 2011.

More recently, Ministerial visits from India have included : the visit of Minister of State for External Affairs, General (Dr.) V.K. Singh from 10-11 July, 2015 as Special Envoy of PM, Minister of State for

Petroleum and Natural Gas (Independent charge), Shri Dharmendra Pradhan from 8-11 April, 2015, and Minister of State for External Affairs General (Dr.) V.K. Singh (Retd) from 14-16 January 2015 to attend the Inauguration Ceremony of President Mr. Filipe Nyusi on 15 January.

On the Mozambican side, President Nyusi made a State visit to India from from 4-7 August accompanied by his Foreign Minister, Mr. Oldemiro Baloi; the Minister of Agriculture and Food Security, Mr. Jose Pacheco; the Minister of Mineral Resources and Energy, Mr. Pedro Couto and the Minister of Transport and Communication, Mr. Carlos Mesquita. Mozambican Prime Minister, Mr. Carlos Agostinho do Rosario accompanied by Mr. Ernesto Max Tonela, Minister for Trade and Industries, also visited India from 28-30 October to attend the 3<sup>rd</sup> Mozambican Foreign Minister Oldemiro Baloi had visited India from 23-29 November and Ms. Esperança Bias, then Minister of Mineral Resources had visited New Delhi from January 12 to 15, 2014 to attend Petrotech-2014, and Mr. Jose Pacheco, Minister of Agriculture and Mr. Armando Inroga, then Minister of Industry & Trade had visited New Delhi from 9-11 March, 2014 to attend the 10th CII EXIM Bank Africa Conclave. India Africa Forum Summit. Prior to that, in 2014,

## **Economic:**

**Development Assistance:** India has been assisting Mozambique in various ways including through provision of Line of Credit (LOCs). India offered credit assistance of US\$500 million to Mozambique during the State visit of Mozambican President Guebuza to India in 2010. Under this, approvals have been conveyed for all the projects proposed by the Government of Mozambique but they are in various stages of implementation. Prior to this, India had extended LOCs worth US\$140 million to Mozambique. During the last two years, two LOC

projects have been completed and handed over to the Mozambican Government - setting up of a the Technology Development & Innovation Centre (TDIC) in the Maluane S&T Park (US\$25 million)

and setting up of a solar photovoltaic panel assembly plant near Maputo (US\$13 million).

**Exchange of important business delegations:**

During the past few years, regular business delegations from India have visited Mozambique to explore and participate in Mozambique's economic development activities. A large CII delegation accompanied MOS(PK) to Maputo in July, 2013, as well as Commerce & Industry Minister in September, 2013. Another CII-Andhra Pradesh delegation visited Maputo from 11-13 December, 2013. A 25-member Pharmaceutical delegation led by Pharmaceutical Export Promotion Council visited Maputo from 9-12 March 2014. An Exim Bank delegation was in Maputo from 16-22 November 2014 for a country strategy mission. A 9-member CII delegation accompanied Shri Dharmendra Pradhan, Minister of State for Petroleum and Gas from 8-11 April 2015. Shri Anup Wadhawan, Director General of Foreign Trade led an Indian delegation comprising of over 70 Indian businessmen for the fourth edition of 'Namaskar Africa' held in Maputo from 25-26 November. High-level delegations from Mozambique have also been regularly participating in the annual CII-EXIM Bank Africa Conclaves in March in New Delhi. A 10-member Mozambican delegation hosted by FICCI attended the Advantage Healthcare India, 2015 held in Delhi from 5-7 October.

**Indian projects/investments in Mozambique:** As per the investment data released by Mozambique's Investment Promotion Centre (CPI), the approved investment by India cumulatively from 2004 to 2014 is US\$128.02 million. However, these figures do not include investments in the extractive (mining) industries. India is the 8<sup>th</sup> largest investor in Mozambique, with the EU, Portugal & South Africa occupying the first three places, in 2012. Even though the exact figures of total investments by Indian companies are not available, according to the Bank of Mozambique, the FDI was roughly estimated to be US\$1.4 billion as in 2014. In the first half of 2014, two Indian national oil companies ONGC Videsh Limited (OVL) and Oil India Limited (OIL)

completed the acquisition of 20% participating stake in Area 1 of the Rovuma gas block at a cost of US\$5.075 billion. This was in addition to 10% already held by another national oil company, Bharat Petro Resources Limited (BPRL) since 2008. International Coal Ventures Private Limited (ICVL), a consortium of SAIL, NTPC, NMDC, CIL and RINL, acquired (July 2014) 65% of stake in Benga mines and the other two coal mines (Zambeze and Tete) of Rio Tinto in Tete province for US\$50 million. Some of the other Indian companies which have investments in Mozambique are Tata Steel, JSPL, JSW, Essar, Midwest Africa, Coal India Ltd, Sunflag group etc in coal mining, Damodar Ferro in iron ore mining, Essar in port development, and Pure Diets, Rajarambapu Group, HK Jalan Group and Asian Tea company in agriculture.

**Bilateral trade relations:** According to DGCIS Kolkata figures, bilateral trade between India and Mozambique during 2014-15 was US\$ US\$2396.58 million with Indian exports at US\$2070.84 million registering an increase of 64.72% and Indian imports at US\$325.74 million registering an increase of 11.19% over 2013-14. In April-October 2015, the bilateral trade was US\$846.34 million with Indian exports and imports constituting US\$693.55 million and US\$152.79 million respectively.

**Cultural:**

**Training and scholarships for Mozambican nationals:** India has been extending training to Mozambican government nominees each year in a wide range of disciplines under the Indian Technical and Economic Cooperation (ITEC) programme. In 2015, India is providing 30 slots to Mozambique under this programme. Further, 34 scholarships for graduate, post-graduate (PG) and research studies in India are being awarded each year to qualified candidates from Mozambique under the Africa Scholarship Scheme of the Indian Council of Cultural

Relations (ICCR) and a few slots for PG studies under the Indian Ocean Rim Association (IORA). In addition, under the decisions of the India-Africa Forum Summits, CV Raman Fellowships and short-term training programmes, limited only to a first-come-first-served criterion, are also on offer to Mozambique. In all these programmes, the

Government of India covers the expenses of the nominees for their air ticket, visa, boarding & lodging, tuition fees and study material.

**Training and scholarships for Mozambican nationals:** India has been extending training to Mozambican government nominees each year in a wide range of disciplines under the Indian Technical and Economic Cooperation (ITEC) programme. In 2015-16, India is providing 30 slots to Mozambique under this programme. Further, 34 scholarships for graduate, post-graduate (PG) and research studies in India are being awarded each year to qualified candidates from Mozambique under the Africa Scholarship Scheme of the Indian Council of Cultural Relations (ICCR) and a few slots for PG studies under the Indian Ocean Rim Association (IORA). In addition, under the decisions of the India-Africa Forum Summits, CV Raman Fellowships and short-term training programmes, limited only to a first-come-first-served criterion, are also on offer to Mozambique. In all these programmes, the Government of India covers the expenses of the nominees for their air ticket, visa, boarding & lodging, tuition fees and study material. At the request of the Government of Mozambique, 25 Mozambican police personnel were imparted a combat course including anti-rioting, anti-terrorism, hostage rescue, bomb disposal etc at Maharashtra

Force One in February-March, 2013. The entire expenditure on this training was covered under the ITEC programme. Six Mozambican Police officers also underwent long-term training at the Gujarat Forensic Sciences University, Ahmedabad in 2015 under a GOI grant to the Mozambican Ministry of Interior.

**Significant cultural events:** On 21 June, 2015 the Mission organized an open event at the VIP Hotel, Maputo to celebrate the First International Day of Yoga in which around 150 persons participated including Mozambican PIOs and members of the international community. The High Commission organized an ICCR sponsored music and dance performance by the Goan group "Kepemchim Kirnnam" on 15 July at the Teatro Avenida in Maputo, to mark 40 years of the establishment of India-Mozambique diplomatic relations.

#### **Indian Community:**

There are approximately 1,500 to 2,000 persons of Indian nationality and about 20,000 persons of Indian origin, holding Mozambican/Portuguese nationalities in Mozambique. A large number of these persons of Indian origin are engaged in the wholesale and retail trade and originally hail from Gujarat, Goa, Daman and Diu.





# श्रद्धांजलीपर लेख

## स्टीफन हॉकिंग

स्टीफन विल्यम हॉकिंग! जन्म ८ जानेवारी १९४२

‘जीनिअस’ या शब्दाने वर्णन करता येईल अशी असामान्य प्रज्ञा आणि प्रतिभा, विज्ञानावरील अपार व उत्कट श्रद्धा परंतु अशा अलौकिक मानवी गुणांना जखडून टाकणारी अशी एक दुर्मिळ व असाध्य, शारीरिक व्याधी. परंतु स्टीफन यांच्याकडे होते अफाट मनोबल आणि जिद्द. गंभीर आजार आहे म्हणून निराश होऊन फक्त कुढत न बसता जिद्दीच्या बळावर कसे पुढे जाता येत याचे मूर्तिमंत उदाहरण म्हणजे स्टीफन हॉकिंग.

स्टीफन हा असामान्य बुद्धीचा वर्गातील सर्वात हुषार विद्यार्थी होता. लहानपणापासूनच साचेबद्ध आयुष्य जगणे स्टीफन यांना पसंत नव्हते. ते नेहमी जगणे स्टीफन यांना पसंत नव्हते. ते नेहमी रंगीबेरंगी कपड्यात वावरत. शाळेत त्यांना ‘आईनस्टाईन’ या नावाने ओळखले जाई. जगाने नेहमी व्हीलचेअरवर बसलेले व विचारात गुंतलेले हॉकिंग पाहिले. मात्र त्यांचे व्यक्तिमत्त्व दिलखुलास व थोडे मिशिकल देखील होते. स्वतःच्या मर्जीने ते हलू देखील शकत नसत. पण समोरच्याला जगण्याची कला शिकवून जात. गंभीर वातावरणात देखील हळूच एखादा विनोद ऐकवून सर्वांना हसायला भाग पाडत. आयुष्याची जवळजवळ ५५ वर्षे व्हीलचेअरवर जखडले गेलेले, वाचा हरवलेले हॉकिंग हे महान संशोधक तर होतेच पण त्याहुनही महत्त्वाचे म्हणजे माणुसकी जपणारे ‘जिंदादिल’ व्यक्तिमत्त्व होते. ऑक्सफर्ड विद्यापीठात शिकत असताना १९६१ मध्ये ते उन्हाळ्याच्या सुद्धीत ब्रिटनमधील रॉयल ग्रिनीच ऑब्झर्वेटरीत दाखल झाले. तिथे जगप्रसिद्ध भारतीय शास्त्रज्ञ डॉ. जयंत नारळीकर हे त्यांचे सहाध्यायी होते. तिथेसुद्धा अभ्यासाबरोबरच मौजमजा करण्यात विविध खेळ खेळण्यात स्टीफन नेहमी पुढे असे अशी आठवण डॉ. नारळीकर सांगतात. पुढे ते केंब्रिज विद्यापीठात पीएच.डी साठी आले. तिथेच वयाच्या अवघ्या २१ व्या वर्षी त्यांना ‘मोटर न्यूरॉन डिजीज’ या आजाराची लक्षणे दिसू लागली. पण त्यांनी जिद्दीने पीएच.डी. पूर्ण केली.

गुरुत्वाकर्षण (Gravity) आणि कृष्णविवर (Black Holes) या विषयावर त्यांचे संशोधन सुरू झाले. कृष्णविवरातून उर्जा बाहेर पडू शकते असे धाडसी विधानही त्यांनी केले. त्यातून बाहेर पडणाऱ्या किरणांना Hawking Radiations असे नाव देण्यात आले. पुढे सापेक्षतावाद (Relativity) आणि पंजभातिकी (Quantum Physics) यांची सांगड घालून काही कूटप्रश्न सोडविले. हळूहळू त्यांचे एक एक अवयव निकमी होत गेले. पण त्यांनी नियतीवर मात केली. ब्रह्मांडातल्या अनेक गूढ गोष्टींची उकल करण्याचा प्रयत्न केला. पुढे केंब्रिज विद्यापीठाने ‘लुकेशियन प्रोफेसर ऑफ मॅथमॅटिक्स’ हे सन्माननीय पद त्यांना बहाल केले. यापूर्वी हा मान न्यूटन या शास्त्रज्ञाला प्राप्त झाला होता. विश्वरचनाशास्त्रात त्यांनी अत्यंत मोलाची अशी पायाभूत कामगिरी केली आहे. त्यांनी अनेक शोधनिबंध लिहिले. “A Brief History of Time” आणि “The Theory of Everything” ही त्यांची पुस्तके अत्यंत गाजली. या सगळ्या वाटचालीत त्यांची पत्नी जेन वाईल हिची त्यांना मोलाची साथ होती.

अशा या सर्वमान्य शास्त्रज्ञाला ‘नोबेल पारितोषिक’ मात्र मिळू शकले नाही. कारण नोबेल पारितोषिक हे जे संशोधन पुराव्यानिशी किंवा पडताळ्यानिशी दाखवून देता येते त्याकरिताच दिले जाते. आणि हॉकिंग यांचे बहुतेक संशोधन हे सैध्दांतिक पातळीवरचे होते.

जगभरातील विज्ञानाच्या अभ्यासकांसाठी कुतुहल बनून राहिलेले डॉ. स्टीफन हॉकिंग १४ मार्च २०१८ रोजी काळाच्या पडद्याआड गेले. परंतु त्यांच्या संशोधनाच्या माध्यमातून ते सदैव स्मरणात राहतील.

प्रा. वर्षा जोशी  
विभागप्रमुख  
भौतिकशास्त्र विभाग



## ECONOMICS

### DEPARTMENTAL ACTIVITIES

1. **Seminar on Financial Literacy** – In association with the Department of Lifelong Learning and Extension, Savitribai Phule Pune University organized a seminar on “Financial Literacy” on **8<sup>th</sup> February 2018** in the college. Dr. D. S. Borkar, Shri Shau Mandir College, Parvati, Shri Dastagir Pathan, HoD, Economics and Mr. Sudhakar Kulkarni, former Bank Officer, IDBI Bank, Pune were the resource persons who spoke on “Tax Structure” and “Investment in Capital Market” respectively. About 109 students participated in the seminar.
3. **Scrap Book Competition** – A novel concept of learning through making scrap book on the syllabus related topic was introduced for the FYBA students. The competition was conducted by students preparing a scrap book on “Current Happenings in Indian Economy” by pasting the cuttings from newspapers and magazines in their first term. **30<sup>th</sup> November 2017** a presentation of their work was judged by Mr. Namdev Doke. The competition was conducted by Mrs. Shilly John.

#### The winners were :

**1<sup>st</sup> Prize** – Ms. Shivani Bundela, **2<sup>nd</sup> Prize** – Ms. Ashwini Tour, **3<sup>rd</sup> Prize** – Ms. Gayatri Lokhande

4. **International Literacy Day** – In association with Department of Lifelong Learning and Extension organized a seminar on “International Literacy Day” on **8<sup>th</sup> September, 2017**. Dr. Dhanjay Lokhande, Director and Head of Department of Lifelong Learning and Extension, Savitribai Phule Pune University, was the Chief Guest for the day. Dr. Sanjay Kharat, Principal, Dr. Manjushree Bobade, Principal, Bharatratna Dr. Babasaheb Ambedkar College, Aundh and Dr. Snehal Agnihotri, Principal, Dr. D. Y. Patil Arts Science and Commerce College, Pimpri were the resource persons and spoke on Importance of Literacy

and “Literacy- the need of the hour” respectively. 105 students attended the programme.

5. **Educational Visit** – A visit for the students of the department was organized on **23<sup>rd</sup> December 2017** to Bhimthandi Jatra. About 30 students went for the visit.

### STUDENTS ACHIEVEMENTS

1. Ms. Shraddha Talekar (MA Economics) received “Shiv Chatrapati Award” for her active participation in Gymnastics at State and National level.
2. Ms. Amruta Karvande (MA Economics):  
She has been appointed as “Gram Sudhar Sadhicha dhoot” by Government of Maharashtra and she also cleared MPSC.

### STAFF ACHIEVEMENTS

1. **Mr. Dastagir Pathan:** Awarded “**Best Students Welfare Officer Award**” for the year 2017- 18 for his exemplary work for students welfare for the last three years.
2. **Dr. Abaso Shinde:**
  - Awarded “**Jagannath Rathi Purskar**” for the year 2017-18 for his outstanding work done under Lifelong Learning and Extension activities in the last three years.
  - Presented paper at **International Conference on “Asanghatith Shramikatil Aarthik Vishamta”** at Sangamner College, on 1<sup>st</sup> and 2<sup>nd</sup> February 2018.
  - Attended Environment Conference at Ralegaon Siddhi on 27<sup>th</sup> & 28<sup>th</sup> October 2017.
3. **Mr. Bhujang Sawaishikre:** Presented papers in various National & State level conferences:
  - National Level, “Regional Disparity in India”, at Sitabai Arts, Commerce and Science College, Akola on 30<sup>th</sup> Jan 2018.
  - State Level, “Challenges of the Higher Education in India”, at RJSPM Arts, Commerce and Science College, Landewadi, Bhosri, Pune on Jan 30<sup>th</sup>-31<sup>th</sup> 2018.

- State Level, “Regional Inequality in India”, at Amruteshwar Arts, Commerce and Science College, Vinzar, Pune on 2<sup>nd</sup> and 3<sup>rd</sup> Feb 2018.
- State Level, “Issues and Challenges of Industrialization in Rural India”, at Modern College of Arts, Science & commerce, Ganeshkhind, Pune-16 in Aug 2017.
- State Level, “The Development of Language Education Policy: An Indian Perspective, a vive from Maharashtra”, at Modern College of Arts, Science & commerce, Ganeshkhind, Pune-16 on 10<sup>th</sup> Jan 2018.

#### 4. Mrs. Shilly John:

- Was invited as **Guest Speaker** for TYB.Com students on the topic “Industrial Development in India”, on 21<sup>st</sup> July, 2017 in **Indira College of Commerce & Science**, Wakad, Pune.
- Presented paper in **International Seminar on “Credit Card Fraud: A Global Perspective”**, at Modern Law College, Pune on 17<sup>th</sup> March 2018.

**Prof. Dastigir Pathan**  
HOD, Department of Economics



“International Literacy Day” on 8<sup>th</sup> September 2017, speaking on the occasion Dr. Dhanjay Lokhande, Director and Head of Department of Lifelong Learning and Extension, Savitribai Phule Pune University, seen seated from left are Prof. Dr. Satish Shirsat, Dr. Sanjay Kharat, Principal, Dr. Manjushree Bobade, Principal, Bharatratna Dr. Babasaheb Ambedkar College, Aundh, Dr. Snehal Agnihotri, Principal, Dr. D. Y. Patil Arts Science and Commerce College, Pimpri and Dr. Abaso Shinde



Students from Economics Department getting information from a Bank officer regarding self-employment.

## ENGLISH

### DEPARTMENTAL ACTIVITIES

**Spoken English Course :** The Department conducts three months Certificate Course in Spoken English. This year 46 students registered for the course.

**Film Show :** The Department organized a Film Show on 17<sup>th</sup> August 2017 on George Orwell's political satire 'Animal Farm'. More than 30 students were present to enjoy the visual story telling technique.

**Quest :** The Department launched a curiosity and creativity forum for students. This platform was inaugurated by Prof. Ashutosh Potdar, noted Playwright, Poet, Translator and Associate Professor, Department of Humanities, Flame University. 121 students were present on this occasion. The theme of the second issue of **ODYSSEY: 'FESTIVE-ALL : Fasting, Feasting and Fathoming'** was launched in this event.

**Pune International Literary Festival:** Students of the Department enjoyed an illuminating Pune International literary festival organized by MIT World Peace University. This year's theme for PILF was 'Voice of Women'. 12 students were present for the three day festival scheduled on 8<sup>th</sup>, 9<sup>th</sup> and 10<sup>th</sup> September 2017.

**One Day State Level Seminar on 'LANGUAGE,**

LITERATURE AND INNOVATIONS': The Department of Languages organized one day State Level Seminar on Language, Literature and Innovations on 20<sup>th</sup> December 2017.

**Caption Contest :** A Contest was organized on 12<sup>th</sup> January 2017 in order to enhance imaginative and analytical skills.. 2 teachers and 14 teams of students participated in this contest.

Pranjali Parite and Shivani Borse from SYBA were declared winners of the contest. First runners up were Aditi Tare from FYBA and Shrinath Shinde from SYBA. Second runners up were Apurva Jadhav and Pratiksha Pachkude from SYBA.

**How Dramatic Are You?:** A Play Reading Competition was organized on 11<sup>th</sup> January 2017 for staff members and students to encourage reading skills. Eight students participated for the same. Three plays were selected for the Competition, they are Vijay Tendulkar's "**Silence the Court is in Session**", Henrik Ibsen's The Doll's House and any of Shakespear's Soliloques were given to compete in this contest. **Vasudha Parkhi** from TYBA was the winner of the competition, **Sana Sheikh** from SY Biotech was first runner and **Pranjali Parite** from SYBA was second runners up.

**English Corner:** An activity to promote English learning on the campus, the English Corner helps students identify the common errors made in English grammar and usage and familiarizes them with words often confused. This academic year students displayed charts based on different branches of parts of speech, articles and homophones. Articles based on creative writing were also put up to promote reading and writing activity outside their syllabus.

#### **Litcarnation: A Literary Carnival**

The Department organized a Literary Carnival on 16<sup>th</sup> February 2018 in A.V. Hall of the College. A host of events based on language, literature, cinema and media were conducted in the day long festival. The Department released its second Volume of its In-house magazine ODYSSEY.

**Essay Writing Competition:** Department of English along with Hindi and Marathi departments organized the competition in January 2018. Entries

were invited from colleges all over the state from different Colleges.

#### **STAFF ACHIEVEMENT**

##### **Dr. Shampa Chakravarthy**

- Attended and participated in nine sessions of a **Faculty Development Programme**, Under UGC Development Grants organized by Modern College, Ganeshkhind during June-July 2017
- Successfully completed UGC Sponsored Short – Term Programme for IQAC Coordinators/ Members from 19<sup>th</sup>-25<sup>th</sup> March 2018 at Savitribai Phule Pune University
- Invited as a judge for the '**Marcus Cato Inter-School Elocution Competition**' in S. P. Mandal's English Medium Secondary School on 22<sup>nd</sup> July 2017.
- Published a Research Paper titled. *The Language of a Play: 'Being Within and Experiencing...'* in a book '**Revisiting Language and Literature**' having ISBN no **978-81-928564-8-3**
- Research paper titled *Looking Beyond the Image of 'Angel in the House': Feminist Readings of the Status of Women in Society* published in an International book titled **Women Issues in Developing Countries: Some Reflections**, ISBN **978-93-87631-08-3**
- Published a Research Paper titled '**Quest for Identity: Manju Kapur's 'Astha'- An Ineffectual Angel or a Rebel?**' in an International Journal of Multifaceted and Multilingual Studies. Volume V, Issue III. ISSN : 2394-207X. Impact Factor : 4.205. March 2018
- Presented a paper titled '**Quest for Identity: Manju Kapur's 'Astha'- An Ineffectual Angel or a Rebel?**' in an International Conference on Globalization and Humanities organized by Abasaheb Garware College, Pune. 14<sup>th</sup>-15<sup>th</sup> March 2018
- Attended a Two Day State Level Seminar on **Indian Diaspora : Theory, Text and Criticism** organized by Anantrao Pawar College, Pirangut, Pune. 19<sup>th</sup> – 20<sup>th</sup> January 2018

- Attended a One Day State Level Seminar on **Innovative Methods of Teaching Language and Literature** organized by Anantrao Thopte College, Bhor, Pune on 24<sup>th</sup> February 2018
- Coordinator of **LITCARNATION: A LITERARY CARNIVAL** organized by Department of English, Modern College, Ganeshkhind, Pune on 16<sup>th</sup> February 2018
- **Organizing Secretary of One Day State Level Seminar on Literature, Language and Innovations** held on 20<sup>th</sup> December 2017

#### Prof. Sandeep Sanap

- Published a Research Paper in a book 'Revisiting Language and Literature' having ISBN no.978-81-928564-8-3
- Attended a Two Day State Level Seminar on **Indian Diaspora : Theory, Text and Criticism** organized by Anantrao Pawar College, Pirangut, Pune. 19<sup>th</sup> – 20<sup>th</sup> January 2018
- **Organizing Committee member** of One Day State Level Seminar on *Literature, Language and Innovations*
- Attended a **Refresher Course in Computer Applications** at HRDC, University of Allahabad from 9/3/2018 to 29/3/2018

#### Dr. Deepanita Bhanja

- Published a Research Paper titled '*The Local and the Global: Reflecting through the pages of Jhumpa Lahiri's Fiction*' in a book 'Revisiting Language and Literature' having ISBN no.978-81-928564-8-3
- Attended a Two Day State Level Seminar on **Indian Diaspora : Theory, Text and Criticism** organized by Anantrao Pawar College, Pirangut, Pune. 19<sup>th</sup> – 20<sup>th</sup> January 2018
- **Organizing Committee member** of One Day State Level Seminar on *Literature, Language and Innovations*.
- **Organizing Committee member** of Literary Carnival 'Litcarnation' Organized by English Department, Modern College, Ganeshkhind, Pune on 16<sup>th</sup> February 2018
- Coordinator of Three-month course in **Spoken**

**English** run by the Department of English

#### Jitender Kumar

- Published a Research Paper titled *Language in the Advertising Industry: Use or Abuse?* in a book 'Revisiting Language and Literature' having ISBN no.978-81-928564-8-3
- **Organizing Committee member** of One Day State Level Seminar on *Literature, Language and Innovations*
- **Organizing Committee member** of Literary Carnival 'Litcarnation' Organized by English Department, Modern College, Ganeshkhind, Pune-16

**Dr. Shampa Chakraborti**  
HOD, Department of English



Dr. Ashutosh Potdar inaugurating 'QUEST' - A Curiosity From of English Department



Faculty and Students of English at the Pune International Literary Festival

## GEOGRAPHY

### DEPARTMENTAL ACTIVITIES

1. Organized guest lecture by Kedarnath G M from Hampi on World Tour on Bike in Sept 2018. Kedarnath is on the world tour of seven continents on bike from 2017.
2. Participated in **Plantation Drive** organized by our college with our students, planted 150 plants at Modern Paud Campus on 5<sup>th</sup> July 2017.
3. Guest lecture by Abhay Soni, IAS on UPSC Preparation by ISKCON on 10 July 2017.
4. **Welcome Function** for FYBA and SYBA students organized by TYBA students. Also felicitated topper students at this occasion.
  - A) Sneha Chavan FYBA 98 marks  
Prize Rs. 500 + Gift
  - B) Shyam Datal SYBA 84.33 %  
Prize Rs. 1000 + Gift
  - C) Vijaya Shevale TYBA 77.58%  
Prize Rs. 1000 + Gift
5. Guest Lecture on **Water Crisis** and Water Management by **Datta Deshkar** (water expert) on 20 Feb 2018.
6. **Movie Club** started on every Friday to enrich student's knowledge in education, environment, geography, science, agriculture, universe etc. Few documentaries shown to the students on various issues like Satyamev Jayate, Kachrakondi, Planet Earth, Pole to pole, Sustainable agriculture etc.
7. Trekking Club of Geography Department organized two days **Trekking at Harishchandragad** for Environmental Studies for 140 students on 11 & 12 Feb 2018. This activity was intercollegiate level. 12 students were from other colleges with 3 international students. This activity was partly sponsored by Board of students Development of S P Pune University.
8. Geography Department organized one day

**Study Tour at Krishi Vidnyan Kendra**, Nandan Dairy at Baramati and Morgaon Ganpati. About 60 students have been participated in this curriculum activity in March 2018.

9. Some students of Geography have conducted a **Village Survey** to get socio-economic and geographical knowledge with 100 households each for partial fulfillment of the practical examination in March 2018.
10. **Campus to NSS camp for 'Clean Environment'**, Cycling from college to NSS village camp Lavarde with staff and students covered 97 km distance on 27 Dec 2017.
11. Visited **IUCAA**, Indian Meteorology Department on the occasion of **National Science Day** on 28 Feb with 34 students. This visit was valuable for the students of Geography and they involved star gazing conducted by IUCAA.

### STUDENT'S ACHIEVEMENTS

12. **Satish Taur** (FYBA) stood first in the Graduate Excellence Examination (GEE) at State level.
13. **Himanshu Gabhane** (SYBA) plays various competitions in Gymnastics from University to National Level. He played National level at Kurukshetra in Jan 2018, also got 1<sup>st</sup> prize at State Level Mumbai in Feb 2018. He won 5<sup>th</sup> prize in Sr National competition at Surat in March 2018.
14. **Jishan Tamboli** (SYBA) stood third in the Graduate Excellence Examination (GEE) at State level. He also stood second in FYBA examination in the college. He also participated in many elocution and Debates organized in various colleges.
15. **Chetan Zadpe** (TYBA) got 1<sup>st</sup> prize in Poetry competition in Vividha at college level in Jan 2018. He is a Editorial Board Member of Akanskha college magazine as a student's representative. He has been involved in many social and cultural activities organized by various colleges. His team has collected clothes,

grocery and money to donate Alandi Ashram and Gurukul school.

16. **Shyam Datal** (TYBA) participated in many intercollegiate competitions in essay, poetry and elocution. He selected as University Representative (UR) for the college. He stood first in SYBA examination in the college.
17. **Tukaram Gaikwad** (TYBA) participated in various competitions. He got 5<sup>th</sup> Prize in State Level Essay Writing Competition organized by Shri Ramkrishna Mission and United Nations Information Centre, India and Bhutan in March 2018. He also got 2<sup>nd</sup> prize in Street Play organized at BMC College, Pune.
18. **Mahadev Kasare** (TYBA) was actively participated in many intercollegiate and zonal sports activities in cricket and base ball.
19. Shyam Datal, Chetan Zadpe, Tukaram Gaikwad, Karishma Kakde, Komal Kale, Shubham Kathale were actively involved in many social and co-curricular activities. They were collected few goods and donated to Gurukul School at Chinchwad, and Annapurna Anathashram at Alandi as a social cause.

## STAFF ACHIEVEMENTS

### A) Dr. Sanjay Patil

1. Attended Giri Mitra Sammelan at Mulund, Mumbai, inaugurated by Austrian Trekker Gerlinde Kaltenberg, 8000s second lady in the world, climbed 14 peaks on 7, 8 July 2018.
  2. Participated in Bahishal Workshop at Pune University in July 2017.
  3. Awarded **Bhugol Bhushan** in 12<sup>th</sup> International Conference at Pt Ravishankar University, Raipur, Chhattisgarh organized by Deccan Geographical Society of India. Also presented a paper on 'Digital India : Flagship Programme of Government of India'
  4. Participated in two days Sammelan on 27-28 Oct 2017 on Environment at **Ralegansiddhi** to discuss about various issues on environment, sustainable development and agriculture. Anna Hazare was inaugurated this sammelan.
5. **Ashtavinayak Cycling:** Participated cycling expedition of eight sacred Ganpati called Ashtavinayak on 2 to 6 Nov 2017 with Prof. Namdeo Doke, Tukaram Gaikwad (TYBA) covered 624 km in 5 days aiming the motto 'Save Petrol, Save Environment'.
  6. Participated in 10 days Faculty Development Program at **Indian Institute of Public Administration (IIPA) at New Delhi** from 4 to 15 Dec 2017 and sponsored by DST, Govt of India. And participated in two days Soft Skill Development program at Pegasus Academy at Dehradun. Also visited Forest Research Institute at Dehradun.
  7. Attended One day State Level Seminar on **Literature, Language and Innovations** organized by Language Department of our college on 20 Dec 2017.
  8. Participated '**Cultural Connect**' Program at **Hampi**, the cultural tour, organized by ISKCON, Pune for three days with staff members on 24 to 26 Dec 2017. Visited many historical places to inculcate the cultural values.
  9. Attended workshop at the **Maharashtra State Open Schooling Board (MSOSB)** to frame the syllabus of 4<sup>th</sup>, 8<sup>th</sup>, 10<sup>th</sup>, 12<sup>th</sup> standard, new initiative by Maharashtra Government as like National Open Schooling on 28 Dec 2017.
  10. Delivered guest lecture for **Bahishal** at Sharad Pawar College, at Jejuri on 29 Dec 2017.
  11. Participated in **National Conference on Quality Enhancement in Higher Education** on 23,24 Jan 2018 at Abasaheb Garware College, Pune. Paper Presented on Pune Urban Fringe: Problems and Perspectives.
  12. Participated as a Resource Person at State Level **Seminar at Takali Dhokeshwar** on New Trends in Tourism on 24 Jan 2018 and talked on New Trends in Tourism.
  13. Guest lecture at Fergusson College on '**Career Opportunities in Geography**' for BA students on 1 Feb 2018.

14. **Judge for Photography** Competition at GeoFest at S P College on 2 Feb 2018.
15. Delivered lecture on '**Travelling and Adventure**' in Bahishal series at Jedhe College on 14 Feb 2018.
16. Worked as a **Coordinator for Geography Practical Examination** of Pune District at TYBA/ TYBSc level for 2017-18.
17. Invited as a **Chief Guest at C Eyes English Medium School** at Lohgaon for Farewell and Prize distribution on 17 March 2018.
18. Participated at National Seminar on **Non-Traditional Challenges and Prospects of Cooperation in South Asia Region** organized by Geography Dept, Pune University.
19. Distributed **Bhagvadgita** to all TYBA (40) students to inculcate cultural and moral values among students at Farewell Function (Sendoff) on 10 March 2018.

**B) Prof. Motilal More** (*Assistant Professor*)

1. Participated '**Cultural Connect**' Program at **Hampi**, the cultural tour, organized by ISKCON, Pune for three days on 24 to 26 Dec 2017. Visited many historical places to inculcate the cultural values.

**Dr. Sanjay Patil**

HOD, Department of Geography



Geography Tour



Harishchandragad Trek

## हिंदी विभाग

- १) आंतरमहाविद्यालयीन राज्यस्तरीय हिंदी निबंध प्रतियोगिता का आयोजन किया गया। इस प्रतियोगिता में मयुरी सुंदर वेदपाठक कला, विज्ञान और वाणिज्य महाविद्यालय राहुरी, जि. अहमदनगर को प्रथम, ऐश्वर्या खोत-जी.आय. बागेवाडी, कला, विज्ञान और वाणिज्य महाविद्यालय, निपाणी को द्वितीय, तथा पराग सुधाकर पाटील मॉडर्न महाविद्यालय, गणेशखिंड, पुणे को सांत्वना पुरस्कार प्राप्त हुआ।
- २) आबेदा इनामदार कला, विज्ञान, वाणिज्य महाविद्यालयीन, पुणे में आयोजित आंतरमहाविद्यालयीन वाक्प्रतियोगिता में पराग सुधाकर पाटील एस.वाय (बायोटेक) ने सहभाग लिया।
- ३) डॉ. सविता सबनीस विभागाध्यक्ष के निर्देशन में संदीप बाळासाहेब पवार को सावित्रीबाई फुले पुणे विश्वविद्यालय की पीएच.डी उपाधि प्राप्त हुई।
- ४) माईस एम आय टी के वर्ल्ड पीस विश्वविद्यालय के हिंदी अध्ययन मंडल में सदस्य के रूप में नियुक्त.
- ५) हिंदी सिनेमा : साहित्य, समाज संस्कृति इस विषय पर सावित्रीबाई फुले पुणे विद्यापीठ आयोजित द्वि. दिवसीय आंतरराष्ट्रीय संगोष्ठी में सहयोग २२, २३ फरवरी १८.
- ६) 'समाज के नवनिर्माण में भाषा एवं साहित्य की भूमिका' इस विषय पर आयोजित राज्यस्तरीय संगोष्ठी में सहयोग, पूना कॉलेज, पुणे १९, २० फरवरी १८.
- ७) 'कुंभश्री' दिवाळी विशेषांक 'घरकुल' कहानी प्रकाशित.

- ८) 'कन्हड वैभव' दिवाली विशेषांक 'बडे नं. १३' कहानी प्रकाशित.
- ९) 'भाषा, साहित्य और अभिनवता' इस विषय पर एक दिवसीय राज्यस्तरीय संगोष्ठी का आयोजन किया गया। (२० दिसंबर १७) इस संगोष्ठी में सावित्रीबाई फुले पुणे विश्वविद्यालय तथा शिवाजी विश्वविद्यालय, बंबई विश्वविद्यालय से अध्यापक गण उपस्थित थे।

डॉ. सविता सबनीस  
विभाग प्रमुख, हिंदी



Yuva Saptah 2018  
Handwriting Competition



Yuva Saptah 2018  
Elocution Competition

## HISTORY

### DEPARTMENTAL ACTIVITIES

- 1) The department had organized a program on the occasion of Lokmanya Tilak's death anniversary and Anna Bhau Sathe Birth anniversary on 1<sup>st</sup> August 2017. Elocution competition was arranged for the students who spoke on various aspects of Lokmanya Tilak and Anna Bhau Sathe.
  - 2) On account of Kranti Din a documentary on Chapekar Brothers was shown to the students. 61 students participated. The program was jointly organized by History department and Central Library.
  - 3) Since last eight years, the department is consistently organizing the Modi Script Course. This year it was organized from 22<sup>nd</sup> July to 13<sup>th</sup> August 2017. Mr. Girish Mandke conducted the lectures. 34 participants of various age groups and professions enrolled for this course. Certificates were distributed at the hands of Hon. Principal Dr. Sanjay Kharat.
  - 4) A Study Tour on 18<sup>th</sup> September 2017 was organized for the undergraduate students of History (Special). 36 students accompanied by 4 teachers participated in the tour. The tour was arranged at three places near Pune- Bhuleshwar Temple, Chintamani Temple and Ramdara Temple.
  - 5) Department of History and Student Development Board, Savitribai Phule Pune University jointly organized competition Kaun Banega? History Scholar!!, an inter college competition which was held on 11 January 2018. A total of 178 students participated from various colleges.
- **Historical Documentary Film Club**  
A documentary titled 'Apocalypse- the Second World War' was shown to the students on 6 March 2018. 32 students participated in this activity.

## STAFF ACHIEVEMENT

- **Shweta Sawale**
- Presented and published paper titled '*Dalit Chalval ani Sahitya Vishesh Sandarbh Dalit Kavita*' in the State level Seminar on 'Literature, Language & Innovations' organized by Language Department, Modern College Ganeshkhind on 20 December 2017. (Book- Revisiting Language and Literature- ISBN:978-81-928564-8-3)
- **Dr. Meenakshi Tiwari**
- Presented and published paper titled '*Bhartiya Sahitya aur Akhil Bhartiya Pragatisheel Lekhak Sangh ka yogdan*' in the State level Seminar on 'Literature, Language & Innovations' organized by Language Department, Modern College Ganeshkhind on 20 December 2017. (Book-Revisiting Language and Literature- ISBN:978-81-928564-8-3)
- Published paper titled 'Literature and revolution: Rise of Progressive Writer's Movement in Indian literature' in the Research Journal 'Dnyanamay' Vol II- Issue 3, December 2016-February 2017 published by Progressive Education Society, Pune. ISSN No: 2395-7484.
- Published paper titled '*Persian literature in India and its effect on evolution of urdu literature*' in the Peer Reviewed and UGC Journal 'Genius' at the International multi disciplinary half year research journal Vol VI, Issue 1, August 2017 to January 2018, Aurangabad. ISSN: 2279-0489, Impact factor 4.248.

**Shruti Bhatkhande**  
HOD, Department of History



1 August Tilak Punyatithi and Annabhau Sathe Jayanti speech by students



'Kaun Banega History Scholar' intercollegiate quiz competition

## मराठी विभाग

### विभागीय उपक्रम

- राज्यस्तरीय निबंध स्पर्धा : निकाल: प्रथम क्रमांक (विभागून) : मोहित भगवान भामरे, कर्मवीर रामरावजी आहेर महाविद्यालय, देवळा, नाशिक. प्रथम क्रमांक : (विभागून) प्रियंका तान्हाजी शिंदे, श्री छत्रपती महाविद्यालय, जुन्नर. द्वितीय क्रमांक (विभागून) पुनम दौलत सूर्यवंशी, कर्मवीर रामरावजी आहेर महाविद्यालय, देवळा, नाशिक, तृतीय क्रमांक : आरती रावसाहेब चव्हाण जी. आय. बागेवाडी कला, विज्ञान आणि वाणिज्य महाविद्यालय, निष्पाणी उत्तेजनार्थ : हणमंत शिंदे बळीराम, मॉडर्न महाविद्यालय, गणेशखिंड, पुणे.
- भाषा, साहित्य आणि अभिनवता (Innovation) याविषयावरील राज्यस्तरीय चर्चासत्राचे आयोजन.
- मराठी भाषा गौरव दिन – भाषादिनाच्या निमित्ताने पुढील उपक्रम ग्रंथालयाच्या सहकार्याने घेण्यात आले. ग्रंथप्रदर्शन, प्रश्नमंजूषा, अनुभवकथन व नाट्यवाचन.
- स्वामी विवेकानंदाच्या जन्मदिनाचे औचित्य साधून काव्यवाचन, वक्तृत्वस्पर्धा, व हस्ताक्षर स्पर्धेचे आयोजन करण्यात आले.

शिक्षकांची कामगिरी : डॉ. संस्कृती आवलगावकर.

- ‘भारतीय स्तरावर मराठी भाषा आणि साहित्याच्या संशोधनाचे स्वरूप व अभ्यासाची दिशा’ या विषयावरील

राष्ट्रीय चर्चासत्रात निबंध वाचक म्हणून सहभाग. आयोजक  
- नानासाहेब यशवंतराव नारायण चव्हाण महाविद्यालय,  
चाळीसगाव १८ व १९ ऑगस्ट २०१७.

- २) भाषा, साहित्य आणि अभिनवता या विषयावरील राज्यस्तरीय चर्चासत्राच्या आयोजनात समन्वयक म्हणून सहभाग. २० डिसेंबर २०१७.
- ३) मॉडर्न महाविद्यालय, गणेशखिंड, पुणे यांनी घेतलेल्याल 'फॅकल्टी डेव्हलपमेंट प्रोग्राम' मध्ये सहभागी.

### प्रसिद्ध झालेले शोधनिबंध :

- १) 'खराखुरा कथाकार' - कथाव्रती अरविंद गोखले, संपादक  
- नीला उपाध्ये, ग्रंथाली प्रकाशन, मुंबई २०१८.
- २) 'आरंभळ : विदर्भाच्या मातीतील भीषण आकांत' -  
नव्वदोत्तर मराठी कथा : रंग आणि अंतरंग : संपादक  
डॉ. गजानन हे रोळे, गोदा प्रकाशन, औरंगाबाद, फेब्रुवारी  
२०१८, ISBN-978-93-81289050-1
- ३) 'लीळाचरित्र : बहुविद्याशाखीय संशोधन' - भारतीय स्तरावर  
मराठी भाषा आणि साहित्याच्या संशोधनाचे स्वरूप व  
अभ्यासाची दिशा, संपादन, डॉ. अनिता नाईक, प्रशांत  
पब्लिकेशन जळगाव. ISBN-978-93-85021-01-5
- ४) 'लीळाचरित्र आणि यादवकालीन मराठी भाषा' -  
Revisiting Language and Literature. ISBN-  
९७८-८१-९२८५६४-८-३.
- ५) 'आनंद विनायक जातेगावकर यांचे कथाविश्व' - विशाखा,  
दिवाळी अंक २०१७, वर्ष ५२, अंक ५२ वा पुष्पक  
प्रकाशन, पुणे.

**विद्यार्थ्यांची कामगिरी :** शुभम कथले, तुकाराम गायकवाड,  
चेतन झडपे हे विद्यार्थी राज्यस्तरीय काव्यवाचन स्पर्धेत सहभागी  
झाले. धनश्री बोस, रोहित प्रधान, लक्ष्मण जाधव, सुचित्रा  
पेडणेकर, पराग पाटील इ. विद्यार्थी राज्यस्तरीय वक्तृत्व स्पर्धेत  
सहभागी झाले.

**डॉ. संस्कृती आवलगावकर**  
विभाग प्रमुख, मराठी



काव्यवाचन स्पर्धा



मराठी भाषा गौरव दिन २७ फेब्रुवारी २०१८



Release of 'Revisiting language and Literature'  
by language department

## POLITICAL SCIENCE

### DEPARTMENTAL ACTIVITIES

**21 Aug 2017**

Film screening : The Boy in the Striped Pajamas for TYBA along with the Department of History. This was to supplement the syllabus on Fascism.

TYBA students attended the film screening : Animal Farm organized by the English Department. Addressed students on Democratic Socialism.

**25 Nov 2017**

Commemoration of Constitution Day. Addressed the teachers and students on 'Philosophy of India's Constitution expressed in the Preamble to the Constitution'

**3 January 2018**

Celebration of Fundamental Duties Day in the class of FYBA

**25 January 2018**

**National Voters' Day** : Essay competition, oath administration, rally to generate awareness about voting among youth, demonstration of Electronic Voting Machine for FYBA

### Personal

**June to Oct 2017**

Facilitated a credit on Value Education for FYBVoc Food Processing Technology

**23 & 24 June 2017**

Attended a workshop for writers organized by Maharashtra State Marathi Vishwakosh Nirmitee Mandal

**30 June, 1 July 2017, 7 July 2017, 14 July 2017**

Attended Faculty Development Programmes organized by the College on Communication, Skills and a Role of a Teacher in Interdisciplinary Research, Use of and IT in Research

**30 Nov 2017**

Attended a state level IQAC seminar on

Understanding New Guidelines of NAAC by the IQAC Cluster

**20 Dec 2017**

Attended a state level seminar on 'Literature, Language and Innovations' organized by the Department of Languages, Modern College, Ganeshkhind

**23 & 24 Dec 2017**

BOS Meeting of Centre for Talent Search and Excellence, Pune

**9 & 10 Feb 2018**

Participated and submitted a paper on 'Public Policy and Urbanization : A lopsided approach' at the National Conference on Public Policy, Governance and Advocacy : Towards a sustainable society organized by St. Mira's College for Girls, Pune.

**16 & 17 Feb 2018**

Participated in a National Seminar on 'Democratic Politics in India : Perspectives from Below' organized by CAS, Department of Politics and Public Administration, SPPU

**23 March 2018**

Invited as a resource person for Short Term FDP on IQAC organized by UGC-HRDC, SPPU to address on the NAAC Criterion VII Institutional Values and Social Responsibility

### STUDENT ACHIEVEMENTS

Paper presentation on a research paper on : Crisis in Political Parties : Existential or Situational by **Shivani Bundela** and **Shreyas Bhopi** of FYBA at Neetikushal, Intercollegiate Political Science Festival organized by S P College, Pune. **Aditi Tare, Pratiksha Mundhe, Saurabh Bharadwaj, Pawan Rasal** and **Payal Balwadkar** also submitted papers on different themes.

The departmental work was carried out with the support of colleague Vikas Waghmare.

**Gauri Kopardekar**

HOD, Department of Political Science



Samvidhan Din 25 November, 2017



National Voter's Day

## PSYCHOLOGY

### DEPARTMENTAL ACTIVITIES

**Disha Group Discussions:** Six group discussions were held throughout the year on the following topics : 'How to Focus and Prioritize your Goals', 'Challenges in Communicating in English', 'Anxieties, Worries and Troubles', 'Social Issues in the Present Context', 'Young adults, family and relatives' and 'Struggles of living away from family'. Each discussion was attended by 30 to 40 students who eagerly participated in the discussion.

**Disha Public Lectures:** Lectures were held on topics such as, 'Diet, Fitness and Menstrual Health', by Dr. Sonali Talavalikar, 'How to use E resources in Research in Psychology', by Librarian, Sangeeta Dhamdhare, 'Encouraging Reading Skills' and 'Understanding Feminism' by Dr. Sadhana Natu.

Amelia Ubesie, Doctoral Candidate from Penn State University, USA, gave a presentation on her Research Study about the activities of the Department of Psychology and her experience of interacting with the faculty and students.

**Three Day Workshop titled 'Releshani' by Dr. Mohan Des from Arogya Bhan, 28<sup>th</sup> Aug to 30<sup>th</sup> Aug, 2017:** Dr. Mohan Des, Social Activist conducted an intensive workshop addressing the topic of Relationships. The student turnout was huge and the response from the students was very good.

**PSY WORLD III, 19<sup>th</sup> Sept, 2017:** PSY WORLD III was inaugurated by Prof. B. R. Shejwal, Former Head, Department of Psychology, SPPU. There were many stalls, activities and Poster Presentations as well as PPT presentations. 277 students and 15 staff members attended the event.

**Release of Kaleidoscope, 15<sup>th</sup> Dec, 2018:** Dr. Sachin Shinde, PhD from London School of Tropical Medicine and Health and also an alumnus of the college released the magazine. He spoke to the students about the importance of writing and scientific writing.

**Release of Mind Scape Volume II, 29<sup>th</sup> July, 2017:** The student research compendium was released. It included ten research papers of students who have presented at various conferences such as: Chikitsa, National Academy of Psychology Conference and Christ University, Young Psychologist Competition.

**Public Lecture on the topic 'Women in Kathak' by Avantika Shukla, Wardha University:** The Women's Studies Center, SPPU and the Department collaborated to conduct this lecture.

**Umeed:** The college community mental health program was conducted thrice in the year for library staff, peons and also security staff. The sessions were on **Self Care**: which includes diet and food habits, exercise, discussion on hobbies and relaxation techniques. The response from the participants was that they enjoyed the session, it was informative and helpful

**Suicide Prevention Awareness Drive:** On 10 September, 2017, World Suicide Prevention Day, the

students of the Department undertook a drive where they visited each and every classroom and the college campus, displaying posters and spreading awareness about suicide prevention.

**State Mental Health Workshop:** The Department was a part of the Core Committee Members for planning and executing the Two Day workshop. Dr. Sadhana Natu and Dr. Suvarna Bobade made presentations and there was a stall about the Department's Peer Support Group- Disha.

**Skill development Course (2<sup>nd</sup> batch),** titled 'Skills in Psycho Social Counseling for Community Work' was conducted in collaboration with Bapu Trust, Pune. There were 34 participants.

**Gender and Development** an UG Certificate course was conducted in collaboration with Women's Studies Center, SPPU. 21 students were enrolled in the course.

**Psychology Quiz Master Mind** was conducted during Yuva Saptha, 09<sup>th</sup> January, 2018.

**Koshish Internship** - In May 2017, 25 students interned in seven different organizations for the entire month. In October- November 2017, 21 students participated in the internship program for 15 days. Five organizations gave this opportunity to the students.

**MOU was signed with Directorate of Symbiosis Schools:** This was implemented in the form of an internship program where two students of TYBA were shadowing the School Counselor at Symbiosis Police Public School for 6 months each.

**Visit from Department of Psychology, PDEA'S Waghire College, Saswad.:** 20 students and Sangeeta Devkar (faculty member) visited our department to get an exposure to all the activities that are conducted by the Department. They interacted with the students and Faculty members and were inspired to take up such initiatives in their department.

**International Women's Day:** A discussion was held with students about their ideas of celebrating Women's Day and the history and relevance of celebrating International Women's Day.

### **Student Research:**

1. National Academy of Psychology Conference at IIT Kharagpur, 29<sup>th</sup> Dec, 2017: Four students presented papers and posters.
2. Christ University, Young Psychologist Competition and Under Graduate Conference: Eight groups of students submitted abstracts and four groups attended and presented papers and posters.
3. Chikitsa, National Conference of Women's Studies Center, SPPU. Five groups of students submitted abstracts and two groups were selected and presented their papers.

**Euphoria:** Is an activity where themes and concepts in Psychology can be expressed creatively in the form of singing, dancing, poetry, art and much more. This year the theme was 'Love, Anti Love and all types of Love.' 20 students participated in this initiative and 80 students attended.

### **STUDENT ACHIEVEMENTS**

#### **Academic:**

- Hemant Raghoonauth stood first in TYBA, Indrajeet Bhosale stood second in TYBA.
- Vasudha Parkhi stood first in SYBA.
- Simran Alekar, Sanjana Pugalia, Prajakta Deshpande and Vasudha Parkhi presented papers at National Academy of Psychology Conference at IIT Kharagpur.
- Songayun Ragui and Jasleen Kaur presented a paper at Young Psychologist Competition, Christ University, Bengaluru.
- Ishitta Shinde, Prasad Balwadkar, Ajit Manikanna and Revathy Varma did poster presentation at Undergraduate Conference, Christ University, Bengaluru.
- Simran Alekar, Sanjana Pugalia, Prajakta Deshpande, Niyati Gaur, Abhinay Kamble and Gaurav Kamble presented papers at Chikitsa, Women's Studies Conference, SPPU.

**Progression:** From the Batch that passed out in 2017, 19 out of 24 students are continuing in a Master's programme. Shivani Vani is doing a

Master's Program in University of Glasgow, U. K.  
Five students are employed.

**Sports:** James Thomas : Silver Medal in Intercollegiate Boxing Championship and Inter Zonal Boxing Championship.

**NCC:** Second Year Psychology Special student Saivibhuti Patil was a part of the Cultural Program at the Republic Day Parade.

**Placement** – Megha Pardhesi got placed through the College Placement Cell at **Tata Consultancy Services**. Kamakshi Joshi worked with **R.J. Deshmukh Press**.

### STAFF ACHIEVEMENTS

**Dr. Sadhana Natu**

**Resource Person:**

1. July 2017 Conducted a Workshop on 'Goal Setting and Prioritizing' for students of MA Sociology, SPPU.
2. September 2017 Conducted a Workshop on 'Use of Psychology in Participative Pedagogies' for Faculty members of Sociology of various colleges and universities at Department of Sociology, SPPU
3. October 2017 Conducted a Session on 'Psychology of Violence' for researchers, students and activists at SPPU. It was organized by Phule Shahu Ambedkar its Students Organization
4. March 2018 Conducted a Session on my research project ' Youth Suicide in Purandar Taluka, Pune district and Exploratory study' in a National Research Workshop organized by MASUM
5. March 2018 Conducted a Session on 'Psychology at the grassroots and for the marginalized' for researchers and activists of Stree Mukti Sanghatana, Pune

**Consultancy:**

- A) POSH Committee External Expert in PGS Multi-national Company

B) IGNOU Evaluator

**Conferences:**

**National:** Led a Symposium on 'Youth and Mental Health: New and Critical Perspectives', Conducted a Pre- Conference Workshop on 'Use of Gender Analysis in Psychology Research' and Chaired a Paper Reading Session at the XXVII Annual Conference of National Academy of Psychology held at IIT, Kharagpur in December 2017

**State:** October 2017 Spoke on 'Psychosocial Perspective in Mental Health' and 'Need for Critical Analysis of Counseling Courses and building a Community Mental Health Perspective' at State Mental Health Conference organized by Disability Commissioner, Govt. of Maharashtra in Pune.

**Regional:** November 2017 Attended a Workshop on Advanced Skills in Expert Work on POSH organized by POSH at Work a Lawyers and Psychologists Collective

**Editorial and Peer Review Work:** For one National Peer Reviewed Journal 'Psychology and Developing Societies' and one International Peer Reviewed Journal 'Annual Review of Critical Psychology'

**Research Guide:** Two Ph.D. students Smita Kulkarni and Silvia Fernandes completed their work under me. Guidance to all the students who presented papers at three national workshops

**Coordination Committee Work at State Mental Health Workshop:** Member of Coordination Committee

**Subject Expert for SPPU:** for Interviews of MPhil and Ph.D. Women's Studies

**Mentoring:** of Amelia Ubesie, Ph.D. student of Public Health, Pennsylvania State University, USA for one month July 2017. She conducted a study on our activities, made a presentation about it and is writing a paper based on the study. This was an international initiative of Pan University Network in Global Health, SPPU

**Coordinator:** Organized and Coordinated a Faculty Development Program consisting of 9 sessions at College level sponsored by University Grants Commission, New Delhi.

### Ms. Nashome Crasto

- Attended State Mental Health Conference organized by Disability Commissioner, Govt. of Maharashtra in Pune.
- Attended State Level Seminar on Literature, Language and Innovations.
- Coordinated Undergraduate Women's Studies Course conducted in the college.
- Coordinated Skill development Course run by the department.

### Ms. Swati Jagtap

- Attended State Level Seminar on Literature, Language and Innovations.
- Coordinated Undergraduate Women's Studies Course conducted in the college.

**Dr. Sadhana Natu**  
HOD, Department of Psychology



Release of Kaleidoscope



PSY WORLD III was inaugurated by Prof. B. R. Shejwal, Former Head, Department of Psychology, SPPU.

## SOCIOLOGY

### DEPARTMENTAL ACTIVITIES

#### Workshops

- One Day Workshop on NET/SET Guidance Organized for the Post Graduate Students, Department Invited Dr. Sanjay Kolekar, Associate Professor Dr. Anurekha Chari, Assistant Professor Department of Sociology ((SPPU) & Our Alumni Mr. Ajit Padval as an expert. 25 Students Participated in the Workshop Dated: 27/09/2017
- Half Day Workshop Jointly Organized with Board of Students Development Savitribai Phule Pune University on 'New Avenues in Social Work' Prof. Dr. B.T. Lavani, Director Social Sciences Centre & Dr. Nilangi Sardeshpande, (freelance Researcher) Guided Students. 81 Student Participated in this interactive Workshop. Dated: 10/02/2018,
- Half Day Workshop Jointly Organized with Department of Economics on Child Abuse  
Ms. Kranti Dabir (Social Activist and Free Lancer) was invited as a Resource Person. 80 Student Participated in Workshop Dated 10 March 2018

#### Teaching Learning Initiatives–(Exhibition, Interactions, Engagements, Discussions)

These Programmes are the Part of Our ongoing Efforts to Develop Democratic & Inclusive Class room Environment.

- Gender Sensitization Programme Organized in Collaboration with 'Abhivyakti' Organization. 31 Student Participated in this Conversation Dated: 18/08/17
- Organized Presentation / Discussion & Group Work on Documentary Film Making, Dated 8/8/17, from our Department 31 Students Participated in this activity. With this we as Sociology Practitioners always trying to explore new medium of expression and providing platform for the Discussion.

- As a part of our Social Responsibility and to engage with community, from last five years we are organizing **Tribal Handicraft Exhibition Cum Sale** .this year we organized Exhibition on Dated : 14/09/17 , 300 Students ,Teaching & non teaching staff visited to the Exhibition.
- Organized Film Screening & Discussions on Different Social Processes for Undergraduate & Post Graduate Level Students.

### Hands on Training Programme & Collaborations

We encourage our Undergraduate & Post Graduate Level Students for field Projects jointly organized with Ashavan Foundation (Departmental MOU)

Our Department is one of the Collaborative Partners with Department of Sociology SPPU and Working Together with Various Projects like Smart City, Non Water Sanitization, Teaching Learning Center Activities( T LC) & Research Workshops For Students and Teachers of the Department under the banner of 'Chikitsa Setu'.

### Students Achievements

**Gayatri Lokhande and Surabhi Somam** FYBA Sociology Student Presented Research Paper Titled 'Visual Media and Gendered Images' won Second Prize in State level Seminar Organized by D. Y. Patil Arts & Commerce College Pimpri.

TYBA Sociology Student **Pratibha Pawar** and Team Won Second Prize in Street Play Competition Organized by S.P.College, Pune (Theme: LGBTQ)

FYBA Sociology Student **Abhishek Bhadane** Won First Prize in State Level Drama Competition for Script Writing Organized by Chatrapati Pratishtan Narhe .

SYBA Sociology Students **Komal Mhokar & Aishwarya Gaikwad** Selected by Department of Sociology SPPU for the Project Titled 'Non Water Sanitation'

Our International Student **Fatima Shaikh** SYBA Appointed by International Student Cell as a ICSSR International Student Representative for SPPU .

6 Students of FYBA Worked with **Ashavan Foundation** as a Student Volunteer.

### ALUMNI ACHIEVEMENTS

Gajanan Varudkar Cleared SET Examination Academic Year 2017-18 and Selected for the Post of Assistant Professor in Arts, Commerce College Talegaon .

Jyoti Mungase alumni Constituted '**Prerna Puskar**' for SYBA Students

Sandeep Patil B.A. Sociology Student alumni Selected For the Post of Assistant Professor in Latur College & Pursuing PhD in Department of Sociology SPPU.

Renu Deshpande Sociology Alumni won 1 Prize in Modern Chef Competition Organized by Vividhaa. 12 January 2017

Prajwal Vipat Alumni Selected as a Secretary on BJP Chitrapat Kamgar Aaghadi

### STAFF ACHIEVEMENT

#### 1 . Dr. Jyoti Suhas Gagangras

#### Resource Person & Convener:

Department of Sociology SPPU Organized 2 Days State Level Seminar Teaching Learning Centre Project on '**Sociology in Maharashtra Teaching and Learning Pedagogy**', Invited as a Resource Person Topic: Higher Education and Sociology 27& 28 November 2017.

Department of Sociology SPPU Organized one Day Workshop on Towards **New Paradigm in Teaching and Learning** Invited as a Speaker on Topic: **New Avenues in Teaching Sociology** Under and Post Graduate Level.29 September 2017.

Department of Sociology D.Y. Patil College Pimpri & Quality Improvement Programme SPPU Jointly Organized 2 Days State Level Workshop on '**Gender Sensitization and Women Empowerment**'.Invited as a Chairperson for Paper Presentation Session Dated : 12 & 13 January 2018.

Poona College of Arts , Science and Commerce

Pune Organized National Conference on **Role of Youth in Swachh Bharat Abhiyan**, Invited as a Convener for Technical Session Dated 3 October 2017.

Vidyarthini Munch Modern College Of Arts Science & Commerce Ganeshkhind Organized Workshop on Anti Ragging for Girl Students Invited as a Resource Person on Topic: **Anti Ragging Cell** Dated : 9 February 2018

Savitribai Phule Pune University Aarya Krida Mandal Invited as a Guest for Ganesh Festival Dated : 31 August 2017

### **Paper Presented & Published:**

**Presented Paper and Selected for Publication** in 43 All India Sociological Conference of Indian Sociological Society Lucknow University Lucknow. Titled : New Liberalism Consumption and Culture . Paper Titled : Role of Women in Administration Dated 9 to 12 November 2017.

**Presented Paper** 28 Marathi Samajshastra Parishad National Level Topic : Bhartatil Paryatan Aani Vikas Samasya aani Chintan. Paper Titled : Bhartatil Paryatan V. Mahila . Dated : 2 & 3 February 2018

Department of Sociology D. Y. Patil College Pimpri & Quality Improvement Programme SPPU Jointly Organized 2 Days State Level Workshop on Gender Sensitization Presented Paper Titled: Comparative study of Women Administrator & Entrepreneurs in Pune District: A Socio- Economic Perspective. 12 & 13 January 2017.

**Published Paper** Titled: Comparative study of Women Administrator & Entrepreneurs in Pune District: A Socio- Economic Perspective. Peer reviewed and Refereed UGC Listed Journal International Journal of Economics Law and Social Sciences (ISSN 2348165X, VOL.I, Issue –II

### **Faculty Development Programme : (FDP)**

Faculty Development Programme under UGC Development Grants Attended 9 Sessions in Modern College Ganeshkhind in June / July 2017

Attended and Actively Participated in Faculty

Development Programme Titled: Critical Pedagogies for Transformative Teaching Environments .Jointly Organized with Department of Sociology SPPU And Middlesex University London. 27 July 2017

### **2 Mr. Rajkumar Gandhale**

#### **Workshop:**

Participated in the state level workshop on “Towards a New Paradigm in Teaching and Learning” Dated- 29<sup>th</sup> September 2017, organized by Department of Sociology, SPPU

Attended state level conference organized by Department of Sociology Dated- 27<sup>th</sup> to 28<sup>th</sup> November 2017 on “महाराष्ट्रातील समाजशास्त्र : अध्यापन व अध्ययन व्यवहार”

#### **NSS Responsibilities:**

Worked as Assistant Programme Officer for NSS in Modern College of Arts, Science and Commerce for Year 2017-18

### **3 Dr. Megha Deshpande**

#### **Workshop:**

Attended university level Two Day workshop on “Research Ethics, Academic Writing and Publication” organized by Department of Sociology, SPPU Dated- 1-2 February 2017

Participated in the Three Days International Workshop on “Urban Health” organized by Department of Sociology, SPPU Dated- 23<sup>rd</sup> to 25<sup>th</sup> February 2017

Participated in the university level workshop organized by Department of Sociology, SPPU Dated- 27<sup>th</sup> July 2017 on “Critical Pedagogies for Transformative Teaching Environment”

Participated in the state level workshop on “Towards a New Paradigm in Teaching and Learning” Dated- 29<sup>th</sup> September 2017, organized by Department of Sociology, SPPU

Attended state level conference organized by Department of Sociology Dated- 27<sup>th</sup> to 28<sup>th</sup>

November 2017 on “महाराष्ट्रातील समाजशास्त्र : अध्यापन व अध्ययन व्यवहार”

#### Research Paper Presentation:

Paper presented titled “**Gender as a Barrier: In Women's Accessibility to Health Services in Urban Slums**” in National Seminar on “Gender Issues In India: Problems and Prospects” organized by Department of Sociology, Shivaji University, Kolhapur, 3<sup>rd</sup> and 4<sup>th</sup> February 2017

Paper presented titled “**Image of Empowered Woman: Rashid Jahan**” in State Level Seminar on “Gender Sensitization and Women Empowerment” organized by Dr. D. Y. Patil Arts, Commerce & Science College, Pune, 12<sup>th</sup> and 13<sup>th</sup> January 2018

#### Publication:

“**Image of Empowered Woman: Rashid Jahan**” this research paper published in peer reviewed and referred UGC Listed Journal “International Journal of Economics, Law and Social Sciences” (ISSN2348165X, Vol.I, Issue-II)

#### 4Dr. Madhuri Chandanshiv - Gadekar

#### Attended Workshop

Attended University Level Workshop on “**Critical Pedagogies for Transformative Environment**” Organized by the Department of Sociology, SPPU Pune Date 27 July 2017

Attended State Level Workshop on “**Maharashtratil Samajshatra Adhyapan wa Adhyayn Vyavahar**” Organized by the Department of Sociology, SPPU Pune Date - 27 July 2017

Attended National Conference on “**Role of Youth in Swachh Bharat Abhiyan**” Organized by Poona College, Date - 3 Oct 2017

Attended State Level Seminar on “**Literature, Language and Innovations**” Organized by Modern College of Arts, Science and Commerce Ganeshkhind Pune, Date - 20 Dec. 2017.

#### Presented Papers:

Presented Paper titled “**Bachat Gatachya**”

**Madhymatun Mahilanche Aarthik Sakshmikarn: Swayam Sayaayta Gatachi Bhoomika**” in State Level Seminar on “**Gender Sensitization and woman Empowerment**” Organized by Dr. D. Y Patil Arts, Commerce and Science College Pune. Date - 12 & 13 Jan 2018.

Presented Paper titled “**Domestic Violence of women**” in State Level Seminar on “**women Empowerment: Aavhane Aani Upay**” Organized by Dnyandeo Mohekar Mahavidyalaya, Date - 12 Jan 2018.

Awarded PhD in 2017 from BAMU, Aurangabad Thesis Titled –“**Effect of Television on Adolescence Children: A Sociological Study**” (with Reference: Beed District)

**Dr. Jyoti Suhas Gagangras**  
HOD. Department of Sociology and  
Vice - Principal, Arts



Department of Sociology Workshop on Social Work & Welfare



Street Play Winner Team, Sociology Department

## COMMERCE

### DEPARTMENTAL ACTIVITIES

#### a) Guest Lectures

- a) Careers in Commerce by Dr. Ashish Puranik Vice Principal BMCC
- b) Deductions under chapter VI A section 80C to 80U by CA Rajendra Dangi
- c) Calculation of Tax Liability and Filing of return of an individual by CA Kush Tapas
- d) New avenues of Marketing and careers in Marketing by Dr. Suhas Joshi HOD Commerce Garware College of Commerce.
- e) Computerized Auditing by Vijay Bhalerao

#### b) Marketing Carnival

Marketing Carnival was three days Mega Event conducted for marketing students. It was organized to provide platform for marketing students to hone marketing and management skills and imbibe scientific approach in students by exploring marketing knowledge and bringing innovative ideas. Following competitions were organized to achieve above objectives.

- a) Product designing competition
- b) Brand Rangoli Competition
- c) Display Advertising Competition
- d) Mad Ad Competition
- e) Audio Visual Advertising Competition

150 students participated in this event. Several innovative products like Camera Jewellery, Waste bags, Multi flavor Soap, Anywhere Wifi App etc were designed by students. This event was successfully organized by Dr. Mamata Shende.

#### c) Entrepreneurship Development Cell

Following activities were undertaken under Entrepreneurship Development Cell

#### a) Start up Business Idea Competition

It was organized for B.Com and M.COM

students. 6 teams of 13 students participated in this competition. Students came out with innovative ideas for starting business which are not there in market till date. Like online Farmers market, Fitness app, Digital Jewellery, Trash to Treasure etc.

Dr. Mamata Shende organized this event.

- b) Entrepreneurship Aptitude Test for T.Y. B.com students was conducted in association with Dynan Prabodhini
- c) Business Quiz Competition

Business Quiz competition was organized for B Com and M Com students. It was organized to test general knowledge of students about economy. 28 students participated. Dr. Mamata Shende organized this activity.

- d) Rojgar and Udyojakata workshop  
Workshop on Entrepreneurship and Employability was organized for T Y B Com students. Students were given guidance on various aspects of entrepreneurship. 73 students were participated in workshop. Manjusha Kulkarni coordinated this workshop.
- e) Lecture was organized on Working of Self Help Group by Mrs. Swati Dudhane

#### f) Inspire yourself

'Inspire yourself' audio visual session was arranged for T.Y.B.com business entrepreneurship students. The objective was to support them to tackle various stress related issues. It consisted various ways like Bhagwatgita: 7 tips/Omkar Meditation/Tips for conflict management. Vijaya Kulkarni organized the event.

- g) Dr. Sanjeevani Rahane delivered her inputs on emotional intelligence and on identifying personality through hand writing skills.

### D) Banking Club Activities

#### a) Mock Parliament

In order to understand real parliament session and make SYBCOM students to study arguments in

favor and against Bank nationalization 'Mock Parliament' was conducted . The technical inputs of parliament were given by Mrs. Gauri Kopardekar, Head of Political Science. Female students played a role of ruling party (Indian congress)by arguing nationalization inputs and Male students played a role of opposition party (Janata party) by arguing limitations of nationalization.54students participated in mock parliament.

**b) Hands on training**

It is regular practice of our faculty to impart hands on training to our last year BCOM banking and finance students at various branches of Vidya Sahakari Bank under the dyanamic leadership of Mr. Vidyadhar Ananskar Chairperson of Bank. 65 students took training at Vidya Sahakari Bank.

**c) Research paper presentation competition**

3 students from S Y BCom participated in 6th intercollegiate research paper competition at Ind search on the topic of Innovative NPA recovery practices on 10th Mar 18.

**d) Know your currency**

The various videos on printing and minting of currency were shown to SYBCOM students to make them aware about process and important aspects of Indian currency on 14th Feb18.

**e) Academic Visit**

55 students of SY Bcom visited college of agricultural banking RBI to know the major original documentary evidences in the history of banking, Mr. Moreshwar coordinated this visit.

Vijaya Kulkarni coordinated all activities of Banking Club

**d) Skills Development Course**

**Computerized Financial Accounting Programme (Tally ERP9)**

In order to increase the Skills of the Students of Commerce Faculty, we have introduced self-designed Computerised Financial Accounting

Programme (Tally ERP9) from the academic Year 2016-17. The objective of this course is to make the students acquaint of Computerised Accounting.

During the first half of academic Year 2017-18, one batch of this course of consisting of 25 students has completed course. The Course was conducted from 2<sup>nd</sup> August, 2017 to 14<sup>th</sup> September, 2017. This Course is conducted and coordinated by Moreshwar Y.M. on behalf of Faculty of Commerce.

Under this course basic concepts of accounting, company creation, computerized accounting, Inventory, taxation, report generation etc were covered.

**e) Debate Competition**

Debate competition was organized for students of Arts, Science and commerce stream on the topic 'Is Cashless Economy Suitable for India?' Four groups of students participated in this competition. Dr. Mamata Shende organized this competition.

**f) Essay Competition**

Essay competition was organized for Arts, Science and Commerce students on subjects Make in India, GST, Digital India, India 2050, Indian Railways, Revamping of Education System. Thirteen students participated. Three winners were declared. Dr. Mamata Shende coordinated the competition.

**g) Placement cell report following companies were visited and students selected under campus placement drive.**

Company Visited	Students Selected	Date
Tata Consultancy Services	7	14/12/2017
Pennyer Apps	13	8/12/2017
Global Talent Track Pvt. Ltd.	-	27/11/2017
Terrasys Info Tech. Pvt. Ltd.	-	20/12/2017

" Following is the List of selected students in year 2017-18

Name of Student	Company Name
PratibhaTangadpally	Tata Consultancy Services
Darshan Sakle	Tata Consultancy Services
Megha Pardessi	Tata Consultancy Services
Shweta Jagtap	Tata Consultancy Services
PrajaktaYadav	Tata Consultancy Services
Deepika Singh	Tata Consultancy Services
Rupali Shendge	Tata Consultancy Services
Swati Bharsakle	Penner Apps
Pooja Shitole	Penner Apps
Pratim Bhosale	Penner Apps
Ganesh C. Ghodke	Penner Apps
Keshav Pawar	Penner Apps
Ravindra Jadhav	Penner Apps
Diksha Belsare	Penner Apps
Nikhil Khare	Penner Apps
Kanhaiya Chouhan	Penner Apps
Tushar Dhumal	Penner Apps
Motiram Vadatya	Penner Apps
Sachin Susaladi	Penner Apps
Rohan Shinde	Penner Apps

**Guest lecturers arranged under placement cell activities under UGC Career and counseling Scheme 2017-18.**

Topic	Name of Resource person
Interview Techniques: How to face an interview?	Mrs. Sunita Sharma
Careers in civil services through MPSC and UPSC	Dr.Yashodhan Mithare
Resume Writing	Mrs. Snehal Yerawadekar

Career in sales and marketing	Mr. Abhay Kardeguddi
Personality Development	Lt. Col. Kumarfulay

**The campus drives and activities were coordinated by Mrs. Shraddha Awasare (Coordinator-placement cell-Faculty of commerce).**

#### H) Post Graduation Section

##### I) Research

- Eleven students presented papers in international conference at IBMR
- Two students presented papers at National Conference at Garware College of Commerce.
- One student presented paper on GST at intercollegiate competition. Research Methodology Workshop

Research Methodology workshop was conducted for M Com part II students. Dr Deobagkar, Dr. Rahane and Dr. Sathe guided the students.

##### ii) Skill Development Courses

Eighty two students participated in Hands On Training Program for 60 hours under Skill Development Advisor at various Chartered Accountant Firms.

##### iii) Linkages

- Trainers and Testers private limited  
Conducted a certificate program on Human Rights. Eighty four students of M Com part I participated.
- Department of Commerce and Research Center at SPPU.

##### iv) College Social Responsibility

Eight students participated in Jaeniv Project in which students distributed Food grains ,oil and soap and cloths to Anapurnram and Gurukulam orphanages.

##### v) Scholarships

Three students received Endowment scholarship initiated by our alumni Gollapady

and one student received scholarship initiated by Ameya Nisal.

#### a) Alumni Contribution

- i) Endowment Scholarship :1.Sandeep Gollapudy gave financial assistance to three students. Total amount is Rs. 8159. (2) Amey Nisal gave financial assistance to one student. Total amount; Rs.9000 Total amount of financial support. ..Rs.17,159
- ii) Mrs. Jasmin Shaikh gave training to students on preparation of herbal products, jewellery in Vividha exhibition.
- iii) Jasmine Shaikh was invited as judge to evaluate entrepreneurial skills in handicraft category. Mrs. Jaya Ghate was invited as judge for recipe competition in Vividha Exhibition. iv) Interactive session :open forum Mrs. Bhakti Ratnyaparakhi was invited to guide the students on career opportunities in entertainment field.

#### STUDENTS ACHIEVEMENTS

Anmol Rathod, Mrudul Sharma, Ruchi Kulkarni from F Y Bcom and Sumit Auti from T Y B Com passed CPT examination

Akshay Kokate and Girish Gunjal from S Y B Com cleared IPCC examination.

Vikas Jadhav from S.Y.B.Com passed CS Foundation examination.

Shubham Dengule and Pranit of T.Y.B.Com presented paper on Study of Impact of GST on Small Business: A Case Study of Pune City. In research paper competition at Garware College of Commerce This paper was published in Young Researchers 2017-18, ISBN no 978-81-929081-1-5. It is a matter of pride for because only 14 papers out of 104 papers were selected. Dr. Mamata Shende guided the students.

#### STAFF ACHIEVEMENTS

##### A) Dr. Shubhangi Joshi

Published a paper titled “Women Empowerment and Entrepreneurship” in UGC listed Journal (No 64656 ) International Journal of Economics and Social Sciences.( ISSN 2348165X Volume-I, Issue- II, January 2018.

Published a paper titled “Building Innovative Intrapreneurship : Need of an hour” in UGC listed Journal (NO 47023) Galaxy Link.( ISSN 2319-8508 Volume-VI, Issue I November \_April-2017-18)

Invited as a chair person for National Conference On “Women Participation in Development of Business and Economy” in Dr Sudhakar Jadhavar Arts, Commerce & Science College, Pune.

##### A) Manisha Bele

Successfully Completed Refresher course in commerce with 'A' Grade from 1<sup>st</sup> February 2018 to 21<sup>st</sup> February 2018 at Department of Commerce, Savitribai Phule Pune University, Pune-7

Publication in Aarhat Publication and Aarhat journals: E IIRJ - Peer reviewed Interdisciplinary Journal [ISSN : 2277-8721 Impact factor 5.20(EduIndex)UGC approved journal no 48178]Issue:Sept-Oct2017 titled '*Perception of Managers about Cultural Intelligence (CI) and it's relation to Individual and Organisational Performance*'

Industrial Visit to CARRARO India Pvt.Ltd., Ranjangoan on 19<sup>th</sup> February 2018

##### B) Parag S. Shah

#### 1. Conference organized, Workshop attended/organised -

- Organized a two day National Conference “Changing Business Culture : Challenges and Opportunities” (22 and 23 February, 2017)
- Attended a workshop on “Importance of National Assessment & Accreditation”. Organized by Savitribai Phule Pune University and National Assessment & Accreditation Council, (30 November, 2016).
- Organized a Ten day Soft Skill Development Programme for final year students of Arts, Science & Commerce faculties in association with Barclays Company, Global Talent Track and NASSCOM Foundation.

#### 2. Coordinator :

- Internal Quality Assurance Cell

- Soft Skill Development Programme.
- 3. **Member Board of Studies** – St. Mira's College for Girls (Autonomous)
- 4. **Visiting Faculty at -**
  - Abasaheb Garware College, Pune for 'Functional Hindi : Vocational' course.
  - St. Mira's College for Girls (Autonomous) for 'Advertising Techniques and 'Bank related Correspondence.
- 5. **Resource Person for -**
  - **Soft Skill Development Programme -** on 'Interview Techniques', 'Creativity Development', 'Positive Thinking' and 'Body Language' at-
    - (a) Abasaheb Garware College, Pune.
    - (b) T. J. College, Khadki.
    - (c) Computer Science Department, Modern College, Ganeshkhind.
- 6. **Member, editorial committee of 'Commerce Horizon'** in house research journal of Commerce Faculty (ISBN 978-81-928564-6-9)
- 7. **Translation :** Marathi translation of Annual Report (2014-15) of S. P. Pune University
- 8. **Industrial Visits organized :** Organized industrial visits of final year students of Arts, Science and Commerce at Barclays Company.
- 10. **Refresher Course :** Successfully completed Refresher Course in Commerce with 'A' Grade at Department of Commerce, S. P. Pune University (19<sup>th</sup> September, 2016 to 9<sup>th</sup> October, 2016)

**C) Dr. Mamata Shende**

Guided two students for Research Paper Competition published in Young Researchers 2017-18, ISBN no 978-81-929081-1-5 published by Garware College of Commerce.

Invited as a judge for poster competition in Yuva Saptah and for group discussion in Magnit of BBA CA department.

**D) Moreshwar Meeshi**

Successfully completed M Phil course under

the guidance of Dr. C N Rawal in A Study of Stress in Police Personnel with reference to Pune City.

**Dr. Shubhangi Joshi**

Vice- Principal, Commerce



Business Quiz Competition



Brand Rangoli Competition

## BBA (CA)

### DEPARTMENTAL ACTIVITIES

BBA (CA) Department under faculty of commerce organized many student centric activities like

**A] “MAGNIT 2018”:-** An intercollegiate competition

The department of BBA (CA) under faculty of Commerce had organized an intercollegiate event “MAGNIT 2018” on 23<sup>rd</sup> and 24<sup>th</sup> January 2018. The objective of this event was

to explore and promote talents amongst the students. This year MAGNIT event was inaugurated by the hand of **Mr. Rahul Khatavkar**, Senior Team Leader, TATA Technology Pvt. Ltd. Pune and **Dr. Prakash Dixit**, Dy. Secretary Progressive Education Society.

“MAGNIT 2018” consisted of various competitions like:

- 1) **PROXIBIT (Project Competition)**
- 2) **CANVAS (Wall Magazine Competition)**
- 3) **MANTHAN (Group Discussion Competition)**

Students from BBA (CA) course of various colleges actively participated in different competitions. These Competitions were judged by Judges from Academics. This time prizes were distributed right after each Competition by the hand of Judges of respective Competition.

List of the Winners in different competition are:

**1) The winners of PROXIBIT-Project Competition are:**

- 1<sup>st</sup>) Chintamani Khetawat and Trupti Khanjode (Modern College, Ganeshkhind, Pune)
- 2<sup>nd</sup>) Darshan Solanki and Chaitanya Sawant (H.V. Desai College, Pune)
- 3<sup>rd</sup>) Mohini Agarwal and Nikita Kondhalkar (Modern College, Ganeshkhind, Pune)

**2) The winners of CANVAS -Wall Magazine Competition are:**

- 1<sup>st</sup>) Manish Joshi (Suryadatta College, Bavdhan)
- 2<sup>nd</sup>) Samrudhini Kore (Modern College, Ganeshkhind, Pune)
- 3<sup>rd</sup>) Devika Nair (Indira College, Wakad)

**3) The winner of MANTHAN –GD Competition are:**

- 1<sup>st</sup>) Nachiket Chavan (Suryadatta College, Bavdhan)
- 2<sup>nd</sup>) Nikhil Dadhich (Modern College, Ganeshkhind, Pune)
- 3<sup>rd</sup>) Shlok Katare (Modern College, Ganeshkhind, Pune)

**B] Aptitude Test:**

To prepare students for the selection process three tests were conducted this year. The topics covered are C language, C++ language, General Aptitude, Database, JAVA.

1. “C Language Aptitude test” conducted for BBA (CA) on 22/7/2018.
2. “DBMS Aptitude test” conducted for BBA (CA) on 31/7/2018.
3. “Quantitative and Logical Aptitude Test” conducted for BBA (CA) on 31/11/2018.

**C] Guest Lecture Series:**

This year department has organized Guest lecturers wherein expert form different fields guided students on Management and IT related subjects. The details are as follows

1. “Understanding The Insights Of Entrepreneurship” by Mr. Munmun Choudhary on 11/09/2017.
2. “Ethical Hacker” by Mr. Satish Ghonmode on 25/11/2017.
3. “Hadoop Technology” by Mr. Atul Kahate on 1/12/2017.
4. “Cyber Security and Ethical Hacking” by Mr. Rahul Kamble & Mr. Brijbhushan Jha on 9/12/2017.

**D] Placement Cell:**

Students participated in different campus drives conducted in college and outside college. The list of companies are 1) Tata Business Support Service 2) Infosys 3) Campus drive organized by Modern College Ganeshkhind dt. 15/2/18.

**E] Manthan :** From this year department has started new activity “Manthan”(Group Discussion). Group discussion was conducted in the department on 11/8/2017 on the topic “Should The Present Education System Be Changed” in the presence of guest Mrs. Yogini Joshi. 10 students participated and 60 students of different classes were present for the GD.

**STUDENT ACHIEVEMENTS**

1. Aditya Dhoke Student of FYBBA (CA) won gold medal in National Level Karate

Competition which was organized by Kamgar Kalyan Kendra Rghuji, Nagpur.

2. Azim Shaikh Student of FYBBA (CA) won second prize in Pune District Senior Karate-Do championship 2017 , also participated and selected in World Karate Championship.
3. Chaudhari Rushikesh . Student of SYBBA (CA) Participated in National Level Volleyball competition which was held in Madhya Pradesh.
4. Chaudhari Rushikesh . Student of SYBBA (CA) won second prize in under (21) State Level Volleyball competition.
5. Chaudhari Rushikesh . Student of SYBBA (CA) Participated in senior state level Volleyball competition which was held in Panhala.
6. Aakash Dhobale Student of SYBBA (CA) won First prize in an intercollegiate Rodies competition organized by PCCOE College.
7. Rachana Shinde, Samrudhini Kore, Prasad Jadhav, Gaurav Kadam, Shiwani Malve ,Netra Panjare, Vijay Gore and Chetana shinde Students of SYBBA (CA) participated in an intercollegiate Rodies competition organized by PCCOE College,Akurdi.
8. Samrudhini Kore Student of SYBBA (CA) won second prize in an intercollegiate C Shuffle competition organized by PCCOE College,Akurdi.
9. Samrudhini Kore Student of SYBBA (CA) participated in an intercollegiate Crazy C Cracker competition in event Jigyasa 2018 organized by IMCC college.
10. Sunil Surendra Yadhav Student of TYBBA (CA) won Third prize in an intercollegiate Softball competition which was organized by BMCC.
11. Sunil Surendra Yadhav Student of TYBBA (CA) participated in an intercollegiate Basket ball and Cricket competition which was organized by BMCC.

#### STAFF ACHIEVEMENTS

##### 1. Suwarna Mhasekar

- i) Attended Faculty Development Programme”

organized by Modern College, Ganeshkind, Pune-16 Under UGC Development Grants in June–July 2017.

- ii) Organized Induction Program for FYBBA (CA) on 19<sup>th</sup> August 2017.
- iii) Organized project placement drive for BBA (CA) students to get exposure to their Semester six java projects with the help of alumni Machindra Kirkat of MatrixHub Tehnology on 20<sup>th</sup> December 2017.
- iv) Organized MAGNIT 2018 an intercollegiate competition on 23<sup>rd</sup> and 24<sup>th</sup> January 2018.

##### 2. Priti Deshmukh

- 1) Attended International Workshop on the topic”An Effective Use of ICT in Transforming Traditional Learning to Virtual Learning “Dt: 8<sup>th</sup> and 9<sup>th</sup> February,2018 in Modern College of Engineering, MBA Department.
- 2) Participated and also worked as a member in organizing Faculty Development Programme” in Modern College, Ganeshkind, Pune-16 Under UGC Development Grants in June–July 2017
- 3) Organized Manthan, group discussion activity on 11/8/17 on the topic “Should The Present Education System Be Changed”.

##### 3. Vinod Sarode:-

- i) Attended Faculty Development Programme” organized by Modern College, Ganeshkind, Pune-16 Under UGC Development Grants in June–July 2017.
- ii) Organized Guest Lectures and Aptitude Test for BBA(CA) Students.

**Suwarna Mhasekar**  
BBA (CA) Coordinator



Cyber Security and Ethical Hacking by Mr.Rahul Kamble & Mr. Brijbhushan Jha on 9-12-2017



Inauguration Program of MAGNIT on 24<sup>th</sup> January 2018

## BCA SCIENCE

- Dr. Pallawi U. Bulakh attended workshop of T.Y.BCA Syllabus detailing at New Arts College, Ahmednagar.
- Department of BCA conducted Parents Meeting on 20<sup>th</sup> February 2018
- Vishwtej Jagtap S.Y. BCA (Science) secured first position in one minute mobile clip competition held at Modern College, Shivaji Nagar, Pune.
- Shreya Raut (F.Y.BCA) Student presented a paper along with Prof. Dipali Meher & Dr. Pallawi Bulakh at National Conference on Advanced Computer Science & technology.

**Dr. Pallawi Bulakh**  
Co-ordinator

## BIOTECHNOLOGY (UG)

### ACADEMIC ACTIVITIES

#### 1. Workshop and trainings: A Two Day Workshop on microscopy “Microscopy:

Handling and Trouble Shooting” (5th and 6th Jan, 2018)

Speakers: Prof. B. B. Nath, SPPU, Pune;

Dr. Anuya Nisal, Sr. Scientist NCL, Pune;

Dr. Santosh Podder, Scientist, Microscopy Div, IISER, Pune;

Dr. Leena Thorat, PDF fellow, SPPU, Pune.

#### 2. Science Academies Lecture Workshop on “Understanding and Exploring the Interfaces between Biology and Biotechnology” (1<sup>st</sup> -3<sup>rd</sup> November, 2017)

#### 3. Guest Lectures

1. Mr. Meghraj Rajurkar (Manager), Serum Institute of India Ltd. Hadapsar, Pune (2<sup>nd</sup> Dec 2017) Topic-“Unit operation in Bioprocessing and Scale Up”.

2. Dr Shamik Majumdar, Scientist, IISc Bangalore (Feb 2018) “Career opportunities after graduation”.

#### 4. Educational and Industrial Visits

1) Field visit- University of Pune for biodiversity studies. S.Y. B.Sc.

2) Field visit-University of Pune and Police ground for biodiversity studies. T.Y. B.Sc.(4th Aug 2017)

3) Waste water treatment plant visit - University of Pune and Police ground for biodiversity studies. T.Y. B.Sc. (4<sup>th</sup> Aug 2017)

4) Educational visit to Kolhapur; Gokul dairy and milk processing units, Gokul Nagar for T.Y. B.Sc. Biotech students (24th Nov, 2017).

5) Raja Ram Bapu Sahkari Sakar Karkhana and Distillery, Kohlapur for T.Y. B.Sc. Biotech students (24th Nov, 2017).

6) Biodiversity Hotspot Dajipur Wildlife Santurary). for T.Y.B.Sc.Biotech students (25th Nov, 2017)

#### 5. Parents Teachers Meeting:

1) F. Y. B.Sc. (26th Aug 2017 at 1.30 – 2.30 p.m)

2) S.Y. B.Sc. (26th Aug 2017 at 11.30a.m. – 12.30 p.m.)

3) T. Y. B.Sc. (26th Aug 2017 at 11.30 – 12.30 p.m)

#### 6. Extracurricular academic student centric Activities:

1. **Audio Visual Session** A scientific movie entitled “**High altitude travel and survival in adverse conditions.**” (10th Aug 2017): with interactive session.

2. **Know thy world:** A scientific discussion platform entitled “**KNOW THY WORLD**” was conducted to enhance thinking and analytical capabilities in students. It also included general discussion about various national and international issues related to science to inculcate among students scientific and analytical aptitude.

3. **Exhibition of Large Scale Manufacturing Processes** (14th February 2018): To increase participation of students in teaching learning process; exhibition of large scale Mfg processes was organized.

#### 4. Science Exhibition (Anubhuti):

5. **Research Projects for B.Sc. Biotechnology students under DBT star scheme.**

6. **Extra practical's taken for students of F.Y., S.Y. and T.Y. B.Sc. Biotechnology under DBT star scheme**

#### STAFF ACHIEVEMENTS

1. **Dr. Rekha Gupta:** Got recognition as M.Phil. & Ph.D. guide in the subject of Biotechnology from Savitribai Phule Pune University since Nov. 2017. Published abstract at International Conference on Recent trends in Life Sciences organized by Modern College, Ganeshkhind, Pune. Topic -

2. **Dr. Pooja Rana :** Attended National Conference on “**Chemical Sciences :Interdisciplinary Approaches**” Jan 18-20th 2018 organized by the Department of

Chemistry, Modern College Arts, Science and Commerce, Ganeshkhind, Pune, sponsored by Department of Biotechnology, Ministry of Science and Technology, Government of India, NewDelhi. Attended and participated in International conference on “**Recent trends in Life Sciences**” Feb 2-3rd 2018 organized by the department of Zoology, Modern College Arts, Science and Commerce, Ganeshkhind, Pune,, Ganeshkhind, Pune, sponsored by BCUD, SPPU.

-Mrunal Pardeshi, **Dr. Pooja Rana\***, Dr. Ayesha Khan presented poster entitled “Isolation of active fractions from fresh pods extract of *Moringa oleifera* and its anti - proliferative analysis”.

-Participated in National Workshop on “**Use of Mathematical Modelling and Statistical analysis**” Jan 9th -10 th 2018 organized by the Department of Chemistry, Modern College Arts, Science and Commerce, Ganeshkhind, Pune, sponsored by DBT-CTEP, Department of Biotechnology Government of India, New Delhi

3. **Dr. Nivedita Das:** Attended National Conference on “**Chemical Sciences : Interdisciplinary Approaches**” Jan 18-20 th 2018 organized by the Department

of Chemistry, Modern College Arts, Science and Commerce, Ganeshkhind, Pune, sponsored by Department of Biotechnology, Ministry of Science and Technology, Government of India, NewDelhi.

- Nazneen Peerzade, Nida Sayyed, **Nivedita Das:** Paper published entitled “Antimicrobial and Phytochemical screening of methanolic fruit extract of *Withania coagulans* L. Dunal for evaluating the Antidiabetic activity” Pharma Innovation Journal 2018 7(1):197-204

- Attended and participated in International conference on “**Recent trends in Life**

**Sciences”** Feb 2-3rd 2018 organized by the department of Zoology, Modern College Arts, Science and Commerce, Ganeshkhind, Pune,, Ganeshkhind, Pune, sponsored by BCUD, SPPU.

#### 4. **Mrs. Vaishali Randive:**

- Registered for PhD in Savitribai Phule Pune University

- Attended and participated in International conference on **“Recent trends in Life Sciences”** Feb 2-3rd 2018 organized by the department of Zoology, Modern College Arts, Science and Commerce, Ganeshkhind, Pune,, Ganeshkhind, Pune, sponsored by BCUD,SPPU.

- Participated in National Workshop on **“Use of Mathematical Modelling and Statistical analysis.”** Jan 9th -10 th 2018 organized by the Department of Chemistry, Modern College Arts,Science and Commerce, Ganeshkhind, Pune, sponsored by DBT-CTEP, Department of Biotechnology Government of India, New Delhi

5. **Dr. Priyanka Sharma:** Attended and participated in International conference on **“Recent trends in Life Sciences”** Feb 2-3rd 2018 organized by the department of Zoology, Modern College Arts, Science and Commerce, Ganeshkhind, Pune, Ganeshkhind, Pune, sponsored by BCUD,SPPU.

- Sarita Tripathi, Anju Meshram, Renu Bhardwaj and **Priyanka Sharma** “Isolation and characterization of Brassinosteroids from *Bacopa monnieri* L. using LC-MS and UPLC and its effects on its cytotoxicity” at International Conference on Recent trends in Life Sciences.

### **STUDENTS ACHIEVEMENTS**

1. **Shweta Pardeshi (T.Y. B.Sc. Biotech) :** Cleared All India JNU entrance examination – All India Rank – 42

2. **Ridhi Tatke (T.Y. B.Sc. Biotech):** Cleared All India JNU entrance examination-All India Rank – 308

#### 3. **Aarti Chavan (T.Y. B.Sc. Biotech):**

1st prize in Handwriting Competition under Yuva Saptah 2018 at Modern College of Arts, Science and Commerce, Ganeshkhind, Pune

#### 4. **Samiksha & Shanti (T.Y. B.Sc. Biotech):**

1st prize in Mastermind Competition under Yuva Saptah 2018 at Modern College of Arts, Science and Commerce, Ganeshkhind, Pune

#### 5. **Mr. Parag Patil (S.Y. B.Sc. Biotech):**

Participated in 3-days Science Academies Lecture Workshop on Understanding and Exploring the interfaces between biology and biotechnology held at Department of Biotechnology, Modern College of Arts, Science and Commerce, Ganeshkhind, Pune  
Participated in Street Play in Vividha held on 11th to 13th January 2018 at Modern College of Arts, Science and Commerce, Ganeshkhind, Pune.

Participated in All Maharashtra Lady Taherunnisa Intercollegiate Elocution

Competition held on 20th January, 2018 at Abeda Inamdar Senior College of Arts, Science & Commerce, Pune.

Got 2nd prize in Essay competition in Vividha held on 11th to 13th January 2018 at Modern College of Arts, Science and Commerce, Ganeshkhind, Pune  
Got 3rd Prize in Debate Competition in Vividha held on 11th to 13th January 2018 at Modern College of Arts, Science and Commerce, Ganeshkhind, Pune

1st Prize in Elocution Competition in Hindi in Vividha held on 11th to 13th January 2018

1st Prize in Poetry competition under Yuva Saptah 2018 at Modern College of Arts, Science and Commerce, Ganeshkhind, Pune

**6. Ms. Sana Sheikh (S.Y. B.Sc. Biotech):**

**1<sup>st</sup>** Prize in Poetry competition under Yuva Saptah 2018 at Modern College of Arts, Science and Commerce, Ganeshkhind, Pune

**7. Ms. Dhanashri Sakhare (S.Y. B.Sc. Biotech):**

Second prize in Handwriting Competition (Hindi) under Yuva Saptah 2018 at Modern College of Arts, Science and Commerce, Ganeshkhind, Pune

Second prize in Handwriting Competition (English) under Yuva Saptah 2018 at Modern College of Arts, Science and Commerce, Ganeshkhind, Pune

Second prize in Handwriting Competition (Marathi) under Yuva Saptah 2018 at Modern College of Arts, Science and Commerce, Ganeshkhind, Pune

3<sup>rd</sup> Rank in Anubhuti poster competition in Anubhuti 2017-2018 at Modern College of Arts, Science and Commerce, Ganeshkhind, Pune

**6. Suchita Vilas Naikaware (S.Y. B.Sc. Biotech)::**

Got certificate as a Best Badminton Player in Annual Sports Competition (2017-2018), held at Modern College of Arts, Science and Commerce Ganeshkhind, Pune

Got 1<sup>st</sup> Prize in Annual Sports competition (2017-2018) in the Badminton Mix Doubles held at Modern College of Arts, Science and Commerce Ganeshkhind, Pune

Got 1<sup>st</sup> Prize in Annual Sports competition (2017-2018) in the Badminton Singles (W) held at Modern College of Arts, Science and Commerce Ganeshkhind, Pune

Got 1<sup>st</sup> Prize in Annual Sports competition (2017-2018) in the Badminton Doubles (W) held at Modern College of Arts, Science and Commerce Ganeshkhind, Pune

**7. Ms. Monika Shivaji Mohite (S.Y. B.Sc. Biotech):**

Got 1<sup>st</sup> Prize in Annual Sports competition (2017-2018) in the Badminton Doubles (W) held at Modern College of Arts, Science and Commerce Ganeshkhind, Pune

**8. Abhijeet Murde (S.Y. B.Sc. Biotech):**

Vividha

**9. Gayatri. M. Somase (F.Y. B.Sc. Biotech):**

3<sup>rd</sup> prize in Handwriting Competition(English) under Yuva Saptah 2018 at Modern College, Ganeshkhind, Pune

1<sup>st</sup> Prize in Poetry competition under Yuva Saptah 2018 at Modern College, Ganeshkhind, Pune

**Dr. Sanjay Kharat**  
Principal



Know Thy World



Exhibition of Large Scale Manufacturing

## BIOTECHNOLOGY (PG)

### DEPARTMENTAL ACTIVITIES

1. One-Day Workshop on Preparing for NET-BET-SET (For MSc Life Science Students) was conducted on 23- 09- 2017. Total 78 M.Sc students from Biotechnology, Microbiology and Zoology Departments participated in the workshop.
2. Science Academies' Lecture Workshop was organized by the Department and jointly sponsored by the Indian Academy of Sciences, Bengaluru; Indian National Science Academy, New Delhi; and the National Academy of Sciences India, Allahabad for University / College teachers, research scholars and students themed on "Understanding and Exploring the Interfaces between Biology and Biotechnology" from 01/11/2017 to 03/11/2017. Prof. Milind Watve, Professor of Biology, IISER, Pune was convener and Dr. Vinay Kumar as Coordinator. Resource persons were Prof. J. K. Pal, Dr. Sanjeev Galande, Prof. Milind Watve, Dr. Anjan Banerjee, Dr. Sanjay Nene, and Dr. Sharmila Mande. Total 105 participants from various Universities and Colleges attended the workshop.
3. One-Day Training on HPLC working and analysis was conducted for 19 M.Sc (Biotechnology) students in the Department of Botany, Savitribai Phule Pune University on 16<sup>th</sup> August 2017.
4. Guest lecture under the DBT-Star Scheme was delivered by Dr. B.D. Bhole, Former Head, Dept. of Microbiology, Abasaheb Garware College, Pune on Thursday, 14<sup>th</sup> September 2017, on Designing and Operations of Bioreactors. Total 58 M.Sc students from Biotechnology, Microbiology and Zoology Departments participated in the session.
5. Educational Visit of 42 M.Sc (Biotechnology) students was arranged to Four seasons Winery

and National Institute of Abiotic Stress Management, Baramati on 29<sup>th</sup> September, 2017..

### STAFF ACHIEVEMENTS

#### Dr. Vinay Kumar

Research Projects sanctioned:

1. Sanctioned a research project entitled "Identification of novel and conserved sodium-responsive miRNAs and their target genes modulating salinity stress during reproductive phase in rice cultivars" from Science and Engineering Research Board, Department of Science and Technology, Government of India for three years
2. Sanctioned a research project entitled "Elicitation of diosgenin production in *Helicteres isora* suspension cultures" from Savitribai Phule Pune University, Pune for two years

#### Research Publications

1. Engineered nanomaterials for plant growth and development: A perspective analysis. *Science of the Total Environment* 2018, 630:1413-1435 doi: 10.1016/j.scitotenv.2018.02.313 (Elsevier) Impact Factor: 5.1
2. Engineering crops for future: A phosphoproteomics approach. *Current Protein and Peptide Science* 2018, 19(4): 413-426. (Bentham Science, USA). doi: 10.2174/1389203718666170209152222. Impact Factor: 2.57
3. Plant small RNAs: the essential epigenetic regulators of gene expression for salinity stress responses and tolerance. *Plant Cell Reports* 2017, 37:61-75. doi: 10.1007/s00299-017-2210-4 (Springer, Berlin). Impact Factor: 2.87

#### Dr. Vinay Kumar: Chapters in Edited Books

1. Polyamines and their metabolic engineering for plant salinity stress tolerance. In: Kumar V, Wani SH, Suprasanna P, Son-Tran LP. (Eds.) *Salinity responses and tolerance in plants: Targeting sensory, ion-transport and signaling*

mechanisms (Vol. I). Springer, 2018, doi: 10.1007/978-3-319-75671-4\_13

2. RNAi Technology: Role in development of abiotic stress tolerant crops. In: Wani SH (Ed.) Biochemical, Physiological and Molecular Avenues for Combating Abiotic Stress Tolerance in Plants. Elsevier, 2018, doi: 10.1016/B978-0-12-813066-7.00008-5
3. Effects of toxic gases, ozone, carbon dioxide, and wastes on plant secondary metabolism. In: Mansour Ghorbanour and Ajit Varma (Eds) Environmental Challenges and Medicinal Plants, Springer-Verlag, Germany, 2017, doi: 10.1007/978-3-319-68717-9\_5
4. Impact of nanoparticles on oxidative stress and responsive antioxidative defense system of plants. In: Tripathi et al. (Eds.) Nanomaterials in Plants, Algae and Micro-organism: Concepts and Controversies. Elsevier, 2017, doi: 10.1016/B978-0-12-811487-2-00018-9
5. ROS induced signaling and gene-expression in crops under salinity stress. In: Khan MIR, Khan N (Ed.) Reactive Oxygen Species and Antioxidant Systems: Role and Regulation under Abiotic Stress. Springer Nature, Switzerland, 2017, doi: 10.1007/978-981-10-5254-5\_7
5. Glycinebetaine mediated abiotic oxidative-stress tolerance in plants: physiological and biochemical mechanisms. In: Sarwat Metal. (Eds.). Stress Signaling in Plants: Genomics and Proteomics Perspective, Volume 2 p111-133, Springer International Publishing, Switzerland, 2017, doi: 10.1007/978-3-319-42183-4\_5

#### **Dr. Uttara Oak**

- PhD awarded by Savitribai Phule Pune University to for the work entitled “Studies on degradation of triphenyl methane and azo textile dyes using halophilic and alkaliphilic bacteria”
- Attended International Conference entitled “Recent Trends in Life Sciences – ICRTLS

2018” on 2<sup>nd</sup> and 3<sup>rd</sup> February, 2018, organized by Modern College, Ganeshkhind, Pune-16.

#### **Dr. Mruthyunjaya. S**

##### **Publication**

- TNF- $\alpha$  and IFN- $\gamma$  Together Up-Regulates Par-4 Expression and Induce Apoptosis in Human Neuroblastomas. Biomedicines. 2017. 26:6.
- Attended International Conference entitled “Recent Trends in Life Sciences – ICRTLS 2018” on 2<sup>nd</sup> and 3<sup>rd</sup> February, 2018, organized by Modern College, Ganeshkhind, Pune-16.

#### **Dr. Amrita Srivastav**

- Won 1<sup>st</sup> prize in Poster presentation at International conference on Recent trends in life sciences, Modern College of Arts Science and Commerce, 2018.
- Won 2<sup>nd</sup> prize in Poster presentation at International conference on Recent trends in life sciences, Modern College of Arts Science and Commerce, 2018.

##### **Chapters in Edited Books**

- Polyamines and their metabolic engineering for plant salinity stress tolerance. In: Kumar V, Wani SH, Suprasanna P, Son-Tran LP. (Eds.) Salinity responses and tolerance in plants: Targeting sensory, ion-transport and signaling mechanisms (Vol. I). Springer, doi: 10.1007/978-3-319-75671-4\_13

##### **Publication**

- A critical review on Nepal Dock (*Rumex nepalensis*): A Tropical Herb with Immense Medicinal Importance. 2018, Asian Pacific Journal of Tropical Medicine (In Press)..
- Attended International Conference entitled “Recent Trends in Life Sciences – ICRTLS 2018” on 2<sup>nd</sup> and 3<sup>rd</sup> February, 2018, organized by Modern College, Ganeshkhind, Pune-16.

##### **STUDENTS' ACHIEVEMENTS**

- Pradnya Karmarkar and Shweta Pawar won 1<sup>st</sup>

prize in Poster presentation at International conference on Recent trends in life sciences, Modern College of Arts Science and Commerce, 2018.

- Ashwini Langhe and Sakshi Longani won 2<sup>nd</sup> prize in Poster presentation at International conference on Recent trends in life sciences, Modern College of Arts Science and Commerce, 2018.
- Gulafshan Iqbal won 3<sup>rd</sup> prize in Poster presentation at International conference on Recent trends in life sciences, Modern College of Arts Science and Commerce, 2018.
- Sonali Zarad and Sunita Fernandes got placement in GenomeBio Biotech Company through interviews held on 26<sup>th</sup> February 2018.
- Ayushi Mokati, Shubham Palhade and Vaibhavi Gandhi got placement in AdvantMed Pharma Company through interviews held on 6<sup>th</sup> March 2018.
- Ayushi Mokati, MSc Part II student is awarded Leela Poonawala Foundation Scholarship for the year 2016-18, Scholarship amount- Rs 2,60,000.
- Chhaya Patil , MSc Part II student is awarded Post-Graduate Indira Gandhi Scholarship for single girl child for the year 2016-18.

**Dr. Sanjay Kharat**  
Principal



Workshop on Preparing for NET-BET-SET,  
23- 09- 2017



Guest lecture by Dr. B.D. Bhole, Garware College,  
14-09-2017

## BOTANY

### DEPARTMENTAL ACTIVITIES

#### 1. Guest Lecture

Dr. Prabha Bhogaonkar, Ex Director, Govt. Vidarbha Institute of science and humanities, Amravati on topic 'Our Native Trees'

#### 2. Educational Visits

- I. F.Y. B.Sc. – Visit to Poly-house and Floriculture unit, Agriculture College, Pune – 05
- II. S.Y.B.Sc. – Modern Nursery – Social Forestry, Khandala, Dist. Pune and Mapro Industry, Wai

#### 3. Project/Exhibitions

- Science exhibition – 27 students participated in exhibition along with models and posters on various topics like Flora of Panchvati Hill, Medicinal Uses of Important Tree sp., Insectivores Plants, Important medicinal plant in kitchen garden, etc.
- Two students were participated in Zonal Level Research Competition 'Avishkar' – 2017
- Students of F.Y. B.Sc. (08) were participated in “**Botanica**” intercollegiate competition held at Botany Department, Wadia College, Pune.
- Two students of F.Y. B.Sc. were participated in Poster competition held under Vividha on 'Integrity in Diversity'.

#### 4. Extra-curricular Activities

- i. Thirty (30) students of F.Y.B.Sc. worked as Volunteer in '**Kisan Agro Exhibition**' held at Moshi, Dist. Pune from 13 – 17 December 2017
- ii. A team of 15 F. Y and S.Y. B.Sc. students regularly (every month) collected the phenological data on 366 native plant species planted at panchwati Hill by a resident group in Panchwati.
- iii. Workshop on '**Preparation of Seed Ball of Native Trees**' for SY.B.Sc. students on 11.08.2017.
- iv. Workshop on '**Modern Nursery Technique**' for SY. Bsc. Students in collaboration with Social Forestry Department at Khandala, Dist. Pune on 22.08.17
- v. '**Plant Identification**' competition was taken for F.Y. B.Sc. Students.
- vi. Organized a '**Nature trail at Taljai Hill**' in collaboration with Forest department and Biosphere on 6<sup>th</sup> October 2017 for F.Y. B.Sc & S.Y. B.Sc

#### STAFF ACHIEVEMENT

##### I. Dr. Prachi Raval

- Presented a poster in National conference on 'Chemical Sciences an interdisciplinary Approach by Department of Chemistry, Modern College, Ganeshkhind, Pune on 18-20 January 2018
- Attended a one day conference on 'Exploring rivers of Greater Pune' Department of Botany, Modern College in Collaboration with Biosphere and Kirloskar Vasundhra Film Festival, Ganeshkhind, Pune, 8.01.2018
- Attended International Conference on 'Recent trends in Life Sciences' Department of Zoology, Modern College, Ganeshkhind, Pune, from 2-3 February 2018
- Attended and Participated in Faculty Development Programme under UGC development grants organized by Modern

College, Ganeshkhind, Pune during June – July 2017.

- Attended a lecture workshop for teachers under DBT Star College Scheme

##### ii. Dr. Prachi Kshirsagar

- Presented Poster in National Conference on Biotechnology and Biodiversity organized by Department of Life sciences Shri. Shivaji Science College, Amravati on 22-23 September 2017
- Won **First Prize** for Poster Presentation in National conference on 'Chemical Sciences an interdisciplinary Approach by Department of Chemistry, Modern College of Arts, Science and Commerce, Ganeshkhind, Pune on 18-20 January 2018
- Attended a one day conference on 'Exploring rivers of Greater Pune' Department of Botany, Modern College in Collaboration with Biosphere and Kirloskar Vasundhra Film Festival, Ganeshkhind, Pune, 8.01.2018
- Presented Poster in International Conference on 'Recent trends in Life Sciences' Department of Zoology, Modern College, Ganeshkhind, Pune, from 2-3 February 2018
- Attended a Paryavaran Samelan at Maharashtra Paryavaran and Pradushan Nivaran Mandal, Ralegan Sidhi, Dist. Ahmadnagar, from 27-28 October 2017
- Attended one day Workshop on Teaching and learning skill in 'Angiosperm Taxonomy' organized by Department of Botany Savitribai Phule Pune University, Pune on 30.01.2018
- Attended two day Workshop on Teaching and learning skill in 'Plant Physiology and Biochemistry' organized by Department of Botany Savitribai Phule Pune University, Pune on 3 – 4 March 2018.

#### STUDENTS ACHIEVEMENT

- i. **Mr. Pradip Gavali** (F.Y. B.Sc.) received 1<sup>st</sup> prize in Photography presentation at inter collegiate competition held at Botany Department, Wadia college, Pune

- ii. **Ms. Shivangi Naik (F.Y. B.Sc.)** – received 3<sup>rd</sup> prize in oral presentation at inter collegiate competition held at Botany Department, Wadia college, Pune
- iii. **Ms. Samrudhi More and Anushka Patil (F.Y. B.Sc.)** – Received 3<sup>rd</sup> prize in poster presentation at inter collegiate competition held at Botany Department, Wadia College, Pune.
- iv. **Ms. Samrudhi More and Anushka Patil (F.Y. B.Sc.)** – received 1<sup>st</sup> prize in 'Anubhuti – a science exhibition' on topic 'Flora of Panchvati Hill, Pune.
- v. **Ms. Trupti Hirsheti (F.Y. B.Sc.)** 3<sup>rd</sup> prize in poster presentation competition held under Yuva Saptah on GST in college.

**Dr. Prachi Raval**  
Head, Department of Botany



Conference on exploring rivers of greater Pune



polyhouse visit 2017

## B.VOC.

### DEPARTMENTAL ACTIVITIES

#### World Food Day Celebration

World Food Day is celebrated every year around the world on **16 October** in honor of the date of the founding of the **Food and Agriculture Organization of the United Nations** in 1945. The day is celebrated widely by many other organisations concerned with **food security**, including the **World Food Programme** and the **International Fund for Agricultural Development**. In Modern College of Arts, Science and Commerce it was organised on 28<sup>th</sup> September, 2017 by Dept of B.Voc. (Food Processing Technology). The theme for the event was **“Change the future of migration. Invest in food security and rural development”**. Principal Dr. Sanjay Kharat, Prof. Dr. R. Kshirsagar, Prof. Mrunalini Badhani and Prof. Sangeeta Dhamdhare were invited for the event. Various events like Innovative Product Development, Poster Presentation, Model Making and Ad-making. Active participation of students was seen. Total 108 number of students participated in events. The events were as follows.

#### Anubhuti Science Exhibition

**“Anubhuti”** science exhibition was conducted on 10<sup>th</sup> January, 2018 at Modern College. Various competitions were arranged, which included Model making, recipe competition and Poster competition. The theme for B.Voc department was Healthy Titbits for Recipe competition and Smart Packaging for Poster completion and equipment in Food industry for Model making competition. Active participation of students was observed. Various healthy, innovative recipes were made by students. Technical models related to food industry equipments and creative salad decorations were presented by students. All the activities were judged by Vice Principal Mrs. Swati Kandarkar and Mrs. Varsha Joshi. The co-ordination of all events was done by Dr. Geeta Morwal and B.Voc staff.

#### Modern Chef

**“Modern Chef”** a recipe competition was

conducted on 12<sup>th</sup> Jan, 2017 at B.Voc department. It was organized by Modernites in collaboration with B.Voc Department. The theme for the event was use of Dish representing any Indian State. Participants were divided in various categories like teaching staff, Non-teaching staff, Alumini, P.G.Students, parents of students and B.Voc Students. All dishes were judged by Mrs. Prajwal Vipat and Mrs. Jaya Ghate.

B.Voc. students had put up stalls in VIVIDHA 2018 as follows

1. Komal Borate, Prajakta Patkar, Halde Maheswhari and Nirmal Sarika had prepared homemade chocolates, sol-kadi. They have also kept dress materials for sale
2. Aarti Harihar, Saloni Banker, Shraddha Chavan, Sayali Jadhav had prepared Chruncy sandwiches, chamcham and kept kurtis tops and T-shirt for sale.
3. Abhishek Mishra, Mayur More, Tejal Ghule, Monica Raut had prepared Buttermilk, flavored popcorns and stuffed bhel & panipuri.

#### Extra-curricular activities :

#### Sensory Evaluation Training at NAFARI

Training on Sensory evaluation was conducted by NAFARI on 15<sup>th</sup> & 16<sup>th</sup> September, 2017. T.Y. B. Voc student Ajinkya Rasane had participated in the training program. On first day basic introduction of sensory evaluation was given and it was followed by practical session. Various tests such as Flavor test, Vision test, Aroma test etc. were performed. On second day description of various advance tests, designing of score card and result interpretation was discussed. The session was then followed by practical of higher difficulty level testing.

#### Staff Achievement

#### Shweta Raichurkar

Published an article on Studies on preparation custard apple vinegar in International Journal of Advanced Engineering Research and science, Vol 4 issue 7, pg no 101-106, ISSN no 2349-6495(P) 2456-1908(O)

Name of Authors: S.J. Raichurkar and R.A. Dagadkhair

#### Mrunal Pardeshi

Presented Poster in National conference: Chemistry an inter disciplinary approach on Isolation of active fractions from fresh pods extract of *Moringaoleifera* and its antiproliferative analysis and received first prize for the same

#### Shweta Raichurkar

Co-ordinator



Judges Judging the Products



Principal Sir with Students

## COMPUTER SCIENCE

#### DEPARTMENTAL ACTIVITIES

- **Interaction 2017-2018**

“INTERACTION 2018” was a milestone in the glorious tradition of the Computer Science Department. Total 375 Students from 13 colleges participated in the event. Students not only from colleges at Pune but also from

Shrirampur, Nasik, A'nagar and Baramati participated in the event. This was the 16<sup>th</sup> year of the Interaction Event.

“**INTERACTION 2018**” was held for 3 days. On 22<sup>nd</sup> January, Project, Poster and Online Programming Test competitions were held. Dr. Swati Joshi and Mr. Sunil Joshi from SIMCA, Narhe, Pune. For Project competitions judges were Mr. Saurabh Ghatnekar and Mr. Mandar Upasani as IT Expert. For Poster competition judges were Dr. Kalyani Salla, Asst. Prof. Modern College Shivajinagar. On 23<sup>rd</sup> January 1 Minute Mobile clip and Quiz competitions were held. Judges for 1 Minute mobile Clip were Prof. Sameer Nerlekar. For Quiz competition Prof. Pradnya Pathakji from Modern College Ganeshkhind for UG and Prof. Parag Shah and Prof. Shamal Deshmukh both from Modern College Ganeshkhind for PG. On 24<sup>th</sup> January Treasure Hunt Competition were held.

Mr. Anandsagar Shiralkar founder of FTB Pvt. Ltd. & Ms Joy from Germany and Dr. Sanjay Kharat, Principal were present for Valedictory Function.

- **Soft Skill Workshop 2017**

The workshop was conducted on 22<sup>nd</sup> and 23<sup>rd</sup> August to learn and enhance Resume Writing, Interview Techniques, Interpersonal Skills and Stress Management for undergraduate and post graduate students.

- **Soft Skill Workshop 2018**

Department of Computer Science conducted *Soft Skill Workshop* on 06 February 2018. This workshop was sponsored by Board of Students' Development, Savitribai Phule Pune University.

First session was conducted by Mr. Nanasahab Lokhande on “Pranayam Rahasya”.

Second session was conducted by Mr. Umesh Mali on “Stress Management”

Mr. Kaustubh Bhadbhade an Ex-Senior Manager- Human Resources of Persistent

Systems Ltd. conducted third session of the workshop. He discussed with students his experience of requirement, various scenarios of placements students go through & give important points regarding how to design resume, how to find jobs, how to prepare for interviews, face interviews and what students must do consistently for the overall growth of individual

Mr. Sunil Rupchandani delivered a lecture on Infrastructure. Management Services and Linux.

Shadab Momin delivered a lecture on CCNA certification.

Dr. Sadhana Natu delivered a lecture on How to Improve Interpersonal relationships at the Workplace.

Mr. Minocher Patel delivered a lecture on Self Development, Good Habits, information about Adar Poonawala clean city initiative.

Mr. Shashank Kulkarni delivered a lecture on Big Data Analysis.

Mr. Rahul Kamble delivered a lecture on Job opportunities in Germany.

Ms. Archana Kapre delivered a lecture on Job Roles available for various qualification and training information.

Mr. Harish Kholam delivered a lecture on Guided students about data analysis in Industry.

- **Field Visit**

Mrs. Ashwini Pawar conducted a field visit for S.Y. BSc. Students to “CWPRS” as a part of environmental studies.

## **STAFF ACHIEVEMENTS**

- **Dr. Shubhangi Bhatambrekar**

Worked as resource person at State Level Seminar on Cyber Security & Evolving Technology at T.J College Khadki on 10<sup>th</sup> February 2018.

Worked as co-ordinator in national conference held at Savitribai Phule Pune University on

29<sup>th</sup> & 30<sup>th</sup> December 2017

Published Research Paper entitled “Analytical View of The Fundamentals of Programming for Slow Learners” in International Journal of Advance and Innovative Research Volume 4, Issue 4 ( II ) : October – December 2017 with ISSN-2394-7780 and Impact factor 3.25 2).

Published Research Paper entitled “Analytical aspects of simple processing statement in programming for slow learners” in International Journal of Information Systems Vol VIII Issue 2 Jan-May 2018 Impact factor 5.406 ISSN 2229-5429 and ISBN:978-93-5254-640-5.

- **Dr. Pallavi Bulakh**

Successfully completed FDP organized by Modern college, Ganeshkhind, Pune 16

Presented a paper titled” Learning C Programming through Games” at National Conference On The Advance Computer Science & Information Technologies (NCACSIT-2017) organized by department of computer science, modern college, Ganeshkhind, Pune 16.

Attended BCA Science Syllabus restructuring workshop at New arts college Ahmednagar.

Published a paper titled ”Cloud Personal Assistant Kit for Online Admission Process Application “ at 2018 IEEE International Conference on Current Trends Towards Converging Technologies ,Coimbatore.2018

- **Mrs. Dipali Meher**

Successfully completed FDP organized by Modern college, Ganeshkhind, Pune 16.

Presented a paper titled” Learning C Programming through Games” at National Conference On The Advance Computer Science & Information Technologies (NCACSIT-2017) organized by department of computer science, modern college, Ganeshkhind, Pune 16.

Published a paper titled ”An analytical study of use of knowledge sharing methods in

education“ at 2018 IEEE International Conference on Current Trends Towards Converging Technologies ,Coimbatore.

- **Mrs. Meenal Jabde**

Published following research papers in International Journal of Advance and Innovative Research Volume 4, Issue 4 ( II ) : October – December 2017 with ISSN-2394-7780 and Impact factor 3.25 2).

“Artificial Intelligence:Robots Replacing Humans” .

“Analytical study of Lightfidelity.” .

“DNA storage of Information” .

“Analysis of unstructured Data handle by BIGDATA: A Technology Overview” .

- **Mr. Satish Ambike**

Published Research Paper entitled “AES algorithm for cloud Data Security as SAAS” in International Journal of Advance and Innovative Research Volume 4, Issue 4 ( II ) : October – December 2017 with ISSN-2394-7780 and Impact factor 3.25 2).

Published Research Paper entitled “AES algorithm for cloud Data Security as SAAS” in International conference at Poona College.

- **Mrs. Ranjana Shevkar**

Successfully completed FDP organized by Modern college, Ganeshkhind, Pune 16.

Successfully completed Orientation Program organized by Savitribai Phule Pune University, Pune-07.

Participated in 6<sup>th</sup> National Conference on Recent Trends in Computer Science and Applications 2017 at Indira college of Commerce and Science , Pune on 22<sup>nd</sup> , 23<sup>rd</sup> Dec. 2017.

Published a research paper on 'Payment System Using Biometric Fingerprint' in International Journal of Advance and Innovative Research Volume 4, Issue 4 (II): October – December 2017 with ISSN-2394-7780 and Impact factor

3.25 2).

Designed syllabus of Android for TYBCA (science) and presented in a syllabus designing workshop at Ahmednagar.

Coauthored TYBCA (science) lab book for Android.

Designed slips of C++ for SYBCA (science)

Participated in the National Workshop on "Use of Appropriate Softwares in Mathematical Modelling and Statistical Analysis" held on 9<sup>th</sup> & 10<sup>th</sup> February 2018 organised by Department of Mathematics & Department of Statistics, Modern College of Arts, Science and Commerce, Ganeshkhind, Pune-16, Sponsored by DBT-CTEP, Department of Biotechnology, Government of India, New Delhi.

Won 1<sup>st</sup> prize in Womens doubles Badminton competition of "Guruvarya Shankarrao Kanitkar Sports Competition".

- **Sonal Kulkarni**

Published Research Paper entitled "Analytical View of The Fundamentals of Programming for Slow Learners" in International Journal of Advance and Innovative Research Volume 4, Issue 4 ( II ) : October – December 2017 with ISSN-2394-7780 and Impact factor 3.25 2).

Published Research Paper entitled "Analytical Aspects of Simple Processing Statement in Programming for Slow Learners" in International Journal of Information Systems Vol VIII Issue 2 Jan-May 2018 Impact factor 5.406 ISSN 2229-5429 and ISBN:978-93-5254-640-5.

Participated in the National Workshop on "Use of Appropriate Softwares in Mathematical Modelling and Statistical Analysis" held on 9<sup>th</sup> & 10<sup>th</sup> February 2018 organised by Department of Mathematics & Department of Statistics, Modern College of Arts, Science and Commerce, Ganeshkhind, Pune-16, Sponsored by DBT-CTEP, Department of Biotechnology, Government of India, New Delhi.

Participated in 6<sup>th</sup> National Conference on Recent Trends in Computer Science and Applications 2017 at Indira college of Commerce and Science, Pune on 22<sup>nd</sup>, 23<sup>rd</sup> Dec. 2017.

Achieved "Jyotish Visharad:".

- **Mr. Niket Tajne**

"A Methodology of Analyze Handwritten MODI Character in Digital Image", International Journal of Creative Research Thoughts – IJCRT in International Peer Reviewed Journal, Impact Factor: 5.97, ISSN: 2320-2882 Volume 6 | Issue 1 | February 2018.

Participated in National Workshop on "Use of Appropriate Software in Mathematical Modelling and Statistical Analysis" on 9<sup>th</sup> and 10<sup>th</sup> February 2017 at Modern College of Arts, Science and Commerce, Ganeshkhind, Pune.

Attended the Workshop on "SPSS for Data Anlysis" Conducted at Bharati Vidyapeeth Deemed to be Universitys Institute of Management and Entrepreneurship Development, Pune on 6<sup>th</sup> January 2018.

"Graphical Representation of Deterministic Finite Automata : An Application Approach", at National Conference on The Advance Computer Science & Information Technologies (NCACSIT 2017), Indian Academicians & Researchers Association, Volume 4, Issue 4 ( II ) : October – December 2017, Impact Factor : 3.25, ISSN : 2394 7780

"Desing of Minimal States Deterministic Finite Automaton Using Event Driven Programming Platform : A Graphical Representation Approach", at National Conference on The Advance Computer Science & Information Technologies (NCACSIT 2017), Indian Academicians & Researchers Association, Volume 4, Issue 4 ( II ) : October – December 2017, Impact Factor : 3.25, ISSN : 2394 7780

- o Attended The 87<sup>th</sup> Annual Session of the Academy (NASI), The National Academy of Sciences, India held at Savitribai Phule Pune

University from 8-10 December, 2017

- o Participated in 6<sup>th</sup> National Conference on Recent Trends in Computer Science and Applications 2017 at Indira college of Commerce and Science, Pune on 22<sup>nd</sup>, 23<sup>rd</sup> Dec 2017.

- **Mrs. Ashwini Pawar**

Published research Paper entitled "Developing Easy Approach For Executing Optimal Binary Search Tree (OBST) with Minimum Cost Analysis".

- **Ms. Dipali Tamhane**

Coauthored TYBCA (science) lab book for Android.

Designed slips of C++ for SYBCA (science)

Published a research paper on 'Payment System Using Biometric Fingerprint' in International Journal of Advance and Innovative Research Volume 4, Issue 4 (II): October – December 2017 with ISSN-2394-7780 and Impact factor 3.25 2).

Published a research paper on 'Design of Minimal States Deterministic Finite Automaton Using Event Driven Programming Platform: A Graphical Representation Approach' in International Journal of Advance and Innovative Research Volume 4, Issue 4 (II): October – December 2017 with ISSN-2394-7780 and Impact factor 3.25 2).

Participated in the National Workshop on "Use of Appropriate Softwares in Mathematical Modeling and Statistical Analysis" held on 9<sup>th</sup> & 10<sup>th</sup> February 2018 organised by Department of Mathematics & Department of Statistics, Modern College of Arts, Science and Commerce, Ganeshkhind, Pune-16, Sponsored by DBT-CTEP, Department of Biotechnology, Government of India, New Delhi.

Participated in 6<sup>th</sup> National Conference on Recent Trends in Computer Science and Applications 2017 at Indira college of Commerce and Science, Pune on 22<sup>nd</sup>, 23<sup>rd</sup> Dec. 2017.

- **Mr. Amol Patil**

Coordinator of Soft Skill Workshop organized by Department of Computer Science, Modern College of Arts, Science and Commerce, Ganeshkhind Pune and sponsored by Board of Students' Development on 6th February 2018.

Attended One day FDP on Industrial inputs for effective teaching at IMCD Nigadi, Pune

Attended The 87<sup>th</sup> Annual Session of the Academy (NASI), The National Academy of Sciences, India held at Savitribai Phule Pune University from 8-10 December, 2017

Participated in 6th National Conference on Recent Trends in Computer Science and Applications 2017 at Indira college of Commerce and Science, Pune on 22<sup>nd</sup>, 23<sup>rd</sup> December 2017.

- **Mr. Chirantan Dixit**

Published Research Paper entitled "Implementation of Web Based DSS Using Spring MVC for selection of Best Cloud Service Provider and Migration" in International Journal of Advance and Innovative Research Volume 4 Issue 4

( II ) : October – December 2017 with ISSN-2394-7780 and Impact factor 3.25 2).

Won 1<sup>st</sup> Prize for best Paper in National Conference at Modern College Ganeshkhind.

- **Mr. Yogesh Patil**

Successfully completed Ministry of Science and Technology sponsored 2 week Faculty Development Program for Entrepreneurship Development during 30<sup>th</sup> Oct 2017 to 11<sup>th</sup> Nov 2017 at ICECD Ahmadabad Gujarat.

Published research paper on "Graphical representation of deterministic finite automata: An application approach" in NCACSIT-2017 at Modern College of arts, science and commerce Ganeshkhind Pune.

Present a paper Role of Computer Science in developing to developed India...21 century an era of paradigm shift" 87<sup>th</sup> annual session of the

academy (NASI) at Savitribai Phule Pune University Pune during Dec 8-10 2017.

Participated in Teachers Congruence organized by Pune Chapter WIRC of ICSI on theme “Powering Professional:Empowering Academicians” at Pune.

Attend One day FDP on Industrial inputs for effective teaching at IMCD Nigadi, Pune.

Presented a Poem at Granthotsav-2017 at Nandurbar Organized by District Dept. Library and Dept. Higher Technical Education Maharashtra Govt.

Participated in 2<sup>nd</sup> National Teachers Congress at MIT School Government Pune.

Participated in “6<sup>th</sup> National Conference on Recent trends in Computer Science and Application” at Indira College of Commerce and Science,Pune

• **Ms. Chaitali Makashir**

Won 1<sup>st</sup> prize in Womens Singles Badminton competition of “Guruvarya Shankarrao Kanitkar Sports Competition”.

**STUDENTS ACHIEVEMENTS**

- Mr. Vaibhav Kshirsagar of FY B.Sc, has won 1<sup>st</sup> prize for Coding competition at TJ college, Pune.
- Mr. Pushpak Vilas Nemade of TY B.Sc, has successfully cleared assessment with grade 'B' for role of field Technician-Computing And Peripherals conforming to national skill qualifications Level-4.
- Mr. Shivam Rajput of TY B.Sc, has won 2<sup>nd</sup> prize in Tchno Case 2017,'C/C++' Programming Competition held at IICMR.
- Mr. Shivam Dusane SY B.Sc ,has won Photo of the Day contest conducted by International Photography Challenge.

□ **Placement Cell**

- The department has been successful in placing till now 44 students of Post Graduation and 5 students of Under Grduation in various companies like TCS, L&T, Capgemini,

Conginizant, Swift Infotech, Mind Codes System, Androzen, SSP Technology, I-mates, Omega Soft Technologies, Arxxus Technologies.

**Dr. S. S. Btatambrekar**

Head, Department of Computer Science



Soft Skill Workshop



Winner of Quiz Competition PG,  
INTERACTION 2018



Winners Of Champion Trophy,  
INTERACTION 2018

# CHEMISTRY

## DEPARTMENTAL ACTIVITIES

- Department of Chemistry conducted three days National Conference on 'Chemical Sciences: An Interdisciplinary Approach'(CSIA 2018) sponsored by Dept. of Biotechnology, Ministry of Science and Technology, Govt. of India, New Delhi during 18<sup>th</sup>-20<sup>th</sup> January 2018. Total number of participants: 185
- A fifteen days Science Academies Refresher Course in Chemistry was conducted during November 27 to December 11, 2017. Total number of participants:37. Dr. Sushma Katade was co-ordinator for the course.
- A laboratory workshop in Organic Chemistry was organized in association with Indian Institute of Science, Education and Research, Pune (IISER) for S. Y. and T.Y. B.Sc. students at IISER from 4-7 December 2017. Total number of participants: 43
- The intercollegiate Chemiad Examination organized by Department of Chemistry, S. P. Pune University was conducted on 26<sup>th</sup> February 2017.
- A seminar was arranged in association with Indian Women Scientists Association IWSA, Pune Branch and Prof. H.J. Arnikar Trust on 5<sup>th</sup> March 2018. No. of Participants: 100

## Visit to Campus/ Industries/ Institutes

- S.Y.B.Sc.Students visited National Forensic Laboratory, Pune on 30<sup>th</sup> January 2017.Total number of participants: 100
- M.Sc. students visited Central Instrumentation Facility at S. P. Pune University on 10<sup>th</sup> March 2017. Total number of participants: 44
- S.Y.B.Sc. students visited Mapro Industries, Wai and Mamata dairy on 22<sup>nd</sup> August 2017.

## Guest Lectures:

- Dr. B.G. Mahamulkar delivered a lecture series on Photochemistry and Pericyclic reactions for

T.Y. B.Sc. and M.Sc. students in Oct. 2017.

- Dr. Dilip Chate, IITM delivered a lecture on Impact of emissions mitigation on ozone induced wheat and rice damage in India on 5<sup>th</sup> March 2018
- Dr. Parag Adhyapak, C-MET delivered a lecture on Sensors for smart cities on 5<sup>th</sup> March 2018.
- Mr. Swarup Kulkarni, Reliance Industries Ltd. delivered a lecture on Careers in Chemistry to S.Y.B.Sc students on 18<sup>th</sup> September 2017.

## STAFF ACHIEVEMENTS

- Dr. Madhuri Kulkarni, Mrs. Anuradha Bhamidi, Dr. Mukula Joshi and Dr. Sushama Kale completed Science academies' Refresher course during 27<sup>th</sup> Nov- 11<sup>th</sup> December 2017 at Modern College, Ganeshkhind.
- Dr. Madhuri Kulkarni, Mrs. Anuradha Bhamidi, Mr. D.M.Thakar and Dr.Mukula Joshi completed Faculty Development Program of 9 Sessions Under UGC Development Grants in Modern College, Ganeshkhind.
- Dr. Madhuri Kulkarni participated in Science Academies' lecture workshop on "Understanding and exploring the interfaces between Biology and Biotechnology' between November 1-3 2017.
- Dr. Sushma Katade was sanctioned a minor research project titled by BCUD, SPPU and presented the work in Innovation at C.T.Bora College, Shirur on 21.11.2017.
- Dr. Sushma Katade completed 'Science Academies' Refresher Course in General Chemistry during 21<sup>st</sup> June to 5<sup>th</sup> July 2017 Latur.
- Dr. Sushma Katade was invited as a Judge for poster competition at International Conference of Ramkrishna More College, Akurdi.
- Dr. Sushma Katade participated in a national conference on Advanced Perspectives in Chemistry at SPPU on 24-25 February, 2018.

Following staff members presented papers in this

Sr. no.	Name of Staff	Title of paper
1.	Dr. Madhuri Kulkarni	Synthesis of imidazoles using wet Cyanuric chloride
	Dr. Ritu Mamgain	
	Mrs. Ketaki Saravate	
	Mrs. Revati Nagarkar	
2.	Dr. Madhuri Kulkarni	Analysis of bottled water samples in and around Pune region
	Dr. Mohini Gupte	
3.	Dr. Mohini Gupte	Adsorption of methylene blue using Ni/Fe double layered hydroxide
4.	Dr. Sushma Katade	Synthesis of series of chalcones and pyrazoline derivatives
5.	Dr. Mukula Joshi	Application of vectors in the determination of miscibility of substances
6.	Mrs. Gayatri Shrotriya	Synthesis of Low cost O-LEDs
7.	Dr. Babita Kale	Synthesis and characterization of Yashad Bhasma
8.	Mrs. Anuradha Bhamidi	Attended the confernce

- Mr. Dnyaneshwar Thakar participated in Research Based Pedagogical Tools Level-2 workshop 6-8 Dec. 2017 at INSA, New Delhi organized by IISER, Pune and Newton Bhabha Fund
- Dr. Mohini Kute and Dr. Babita Kale attended one day seminar on Frontiers in Science and Technology, arranged by IWSA, Pune on 8<sup>th</sup> March 2018.
- Mrs. Gayatri Shrotriya attended an International Workshop on Organoelectronics on 5<sup>th</sup> Dec.2017 at D. Y. Patil College, Navi Mumabai.
- Dr. Ritu Mamgain presented paper in Sanyukt rajbhasha Vaigyanik Sammelan at Agharkar Research Institute, Pune during 3<sup>rd</sup> -4<sup>th</sup> April, 2018
- Dr. Yogesh Jorapur participated in State Level CSIR SET NET Orientation Programme at S.M. Joshi College, Hadapsar 24<sup>th</sup> Aug. 2017.
- Dr. Yogesh Jorapur delivered a lecture as resource person in CSIA 2018 on Synthesis

and Applications of Ionic Liquids on 20<sup>th</sup> January, 2018.

#### Research Publications

- **Dr. Madhuri Kulkarni, Dr. Mohini Gupte Bhavna Nikumbh and Kajal Katkar (T. Y. B.Sc)**  
'Analysis of bottled water samples in and around Pune region'  
The Pharma Innovation, Vol. 7, Issue 1, 2018, 231-234.
- **Dr. Madhuri Kulkarni, Dr. Ritu Mamgain, Ketaki Saravate and Revati Nagarkar**  
'Synthesis of Imidazoles using wet Cyanuric chloride'  
The Pharma Innovation Vol. 7, Issue 1, 2018, 153-155.
- **Dr. Mukula Joshi and Swati Kandharkar**  
'Application of vectors in the determination of miscibility of substances'

The Pharma Innovation, Vol. 7, Issue 1,2018,142-144

- **Dr. Sushma Katade, Manoj Gayake and Swati Jadhav**

'Synthesis of series of chalcones and pyrazoline derivatives'

The Pharma Innovation Vol. 7, Issue 1,2018,223-225.

- **Dr. Mohini Gupte, Swati Pai and Hemangi Deo (T. Y. B.Sc)**

'Adsorption of methylene blue using Ni/ Fe layered double hydroxide'

The Pharma Innovation Vol. 7, Issue 1,2018, 190-192.

- **Dr. Mohini Gupte**

'Health hazards of popularly consumed brands of coldrinks', Dnyanodaya, 2017, 36-37.

- **Dr. Sushma Katade and Swati Jadhav**

'Synthesis and Characterization of 2-Pyrazoline derivatives from  $\alpha$ ,  $\beta$ -unsaturated ketone'

International journal of researches in biosciences, agriculture and technology, Special issue(2), vol. v, pg 361-4, 2017.

- **Dr. Babita Kale and Dr. Nilima Rajurkar**

'Synthesis and characterization of Vanga bhasma'

Journal of Ayurveda and integrated medicine, 2017,1-9.

- **Dr. Babita Kale and Dr. Nilima Rajurkar**

'Yashad Bhasma: Synthesis and characterisation'

The Pharma Innovation Vol. 7, Issue 1,2018, 119-122

### • **Dr. Diprat Khandare**

'Aggregation- induced emission based chemodosimeter approach for selective sensing and imaging of Hg(II) and Methylmercury species', Analytical Chemistry, 89, 2017, 12698-12704.

### **Awards/ Fellowships:**

- Dr. Mohini Gupte received Best Oral Presentation Award in National Conference on 'Chemical Sciences: An Interdisciplinary Approach' held under STAR-DBT during 18<sup>th</sup> - 20<sup>th</sup> January 2018.
- Dr. Dipratn Khandare Received Ph.D. in Chemistry from BITS, Pilani on 21<sup>st</sup> August, 2017.
- Dr. Babita Kale Received Ph.D. in Chemistry from Savitribai Phule Pune University on 7<sup>th</sup> October 2017.

### **STUDENTS ACHIEVEMENTS**

- Dr. Shekhar Shinde has been selected for a Post Doctoral Fellowship at Georgetown University, Washington D.C., USA.
- Mr. Aniket Hande has been selected for a Ph. D. Fellowship on a project jointly by France USA and Taiwan.
- Mr. Aniket Hande has been selected for Erasmus + scholarship at the University of Warsaw, Poland
- Mr. Sayaji More received Ph.D. Fellowship at University of Taiwan.
- Arinjay Gire bagged 5<sup>th</sup> Rank and Bishwarup Sarkar (S.Y. B.Sc.) won 10<sup>th</sup> Rank in CHEMIAD, a University Level Chemistry Examination organized by dept. of Chemistry, S.P. Pune university.
- Neha Gaikwad (T.Y.B.Sc.) qualified JAM examination of IIT.
- Kanchan Sawant (S.Y. B.Sc.) received Best Arts Circle Student award by the college.

- Swati Pai and Hemangi Deo (T. Y. B.Sc) presented a research paper in CSIA-2018.  
presented a paper in international peer reviewed journal Pharma Innovation.
- Bhavna Nikumbh and Kajal Katkar (T. Y. B.Sc) presented a paper in international peer reviewed journal Pharma Innovation.
- Snehal Shingare and Vidya Bhande (M.Sc.II) presented a research paper in CSIA -2018.
- Snehal Shingare, Atul Phapale and Vidya Bhande (M.Sc.II) presented a research paper in National Level conference at Lonavala.
- Mrs. Swati Jadhav (M.Phil.) Varsha Khilari and Gouri Navale (M.Sc. II) presented a research paper in CSIA -2018.
- Yogesh Shinde, Swapnil Jagdale and Gourav Gole (T. Y. B.Sc) bagged the Third Prize in Anubhuti.
- Ms. Sushmita Patra (M.Sc. II) presented a research paper in CSIA -2018.
- Ms. Sushmita Patra (M.Sc. II) won second prize in Vividha.
- M.Sc. Part II students participated in Laboratory Safety Workshop at Modern College, Shivajinagar on 24<sup>th</sup> February, 2018.
- M.Sc II students Participated in State Level CSIR SET NET Orientation Programme at S.M. Joshi College, Hadapsar on 24<sup>th</sup> Aug. 2017.

**Dr. Madhuri Kulkarni**  
HOD, Department of Chemistry



Study Tour IISER



Seminar with Indian Women Scientists Association

## ELECTRONICS

### DEPARTMENTAL ACTIVITIES

#### A. Workshop

- 1) Department has organized Science Academies' Lecture Workshop on “**Smat Materials and Future Technologies for Sustainable Development**”, on 16<sup>th</sup> and 17<sup>th</sup> January, 2018. **One hundred and twenty participants** from sixteen different colleges in the vicinity of the college attended the workshop. Dr. Sulabha Kulkarni from Center for Materials for Electronics Technology (CMET), Panchwati, Pune worked as convener while Prof. Vaishali Salunke from the department worked as a coordinator of the workshop. Dr. Gopinath C. Subramanian, Principal Scientist working in Catalyst Division of National Chemical Laboratory, Dr. Dilip G. Kanhere, SPPU, Pune and Dr. B. B. Kale, Director, CMET, Pune were the dignified speakers from established research institutions.
- 2) Board of Students' Development, Savitribai Phule Pune University sanctioned district level hands on training workshop of three days titled “Interfacing Sensors to Arduino Board and Applications”. **Thirty Eight** students from six different colleges from Pune District participated in the event. Mr. Z. V. Patil from BICARD training institute, Shivajinagar, Pune worked as an expert trainer for the workshop.

## B. Guest Lecture :

- 1) **Dr. Supriya Patil, from Garware College,** delivered lecture on “Optical Fiber Sensors and Applications” on 16<sup>th</sup> February 2018. She shared her research products which are applied in industries. **153 students** attended in the guest lecture.

## C. Industrial Visit:

- 1) Industry Visit to MINILEC pvt. Ltd., Pirangut was arranged by the department on 10<sup>th</sup> Aug. 2018. Along with specific product manufacturing process, students were exposed to transformer winding process, PCB manufacturing unit, spray painting unit and standard product testing methods. Sixteen Students of B.Sc. Comp.Sc. visited the industry. H. R. manager Mr. Manoj G. presented the profile of the industry and guided the students about the opportunities in their industry. CEO of the industry Mrs. Ghaisas shared success story of the industry. Also a discussion was done on the reforms that should happen in the current syllabus.
2. Extracurricular Activities:
  - Training on Circuit Assembly Techniques is imparted to all the F.Y.B.Sc. Comp.Sc. and Electronic Sc. students as an activity conducted under DBT STAR status scheme to strengthen the basic technical skills of the students.
  - Project, Poster and Model presentation was organized at department on 10/1/18, as part of Science Exhibition activity “ANUBHUTI” of Science Association of the college. Twenty Five Students of B.Sc. Electronics and Computer Sc. participated in the event.

## STAFF ACHIEVEMENTS

### 1. Dr. Saroj Hole:

- Selected as Editorial Board Members for the International Journal Of Nanoparticles & Nanotechnology
- A biographical-note is included in Famous India :Nation's Who's Who an yearly

publication by Reguerdon Inc.,1369,Kashmeri Gate, Delhi-06

### 2. Dr. Varsha Bapat:

Delivered Key Note Address as Chief guest of 3<sup>rd</sup> Convocation Ceremony of Swaraj College of Commerce and Computer Sc.

3. **Prof. Pradnya Pathakji:-** Completed orientation course with 'A' grade organized by Academic Staff College of Savitribai Phule Pune University 1<sup>st</sup> Sept. to 28<sup>th</sup> Sept. 2017

## B. Publications:

### 1. Dr. Saroj Hole:

- Presented paper on “Analytical study of diabetic control through daily meal planning and exercise” in National Conference on the Advanced Computer Science and Information Technologies organized by department of Computer Sc. of the college during 29<sup>th</sup> - 31<sup>st</sup> December, 2017.
- Paper is published on “Laser applications in various fields” at National conference at Hyderabad.

### 2. Mrs. Bhadane M.P.:

- A paper on “An Electronic Attendance System to Record Students' Presence in the college using ARDUINO UNO” in National Conference on the Advanced Computer Science and Information Technologies organized by department of Computer Sc. of the college.

### 3. Mr. Kumbhar D.S:

- A **paper** on “Development of Wireless Electronic Voting Machine as an Effective Enhancement of Voting System Security” published in an international **journal on Future Revolution In Computer Science and Communication Engineering. :ISSN No. 2454-4248 109-112 Vol. 4, Issue:4**
- A paper on “Identification of spices by Electronic Nose using pattern recognition technique” published in an international

**journal on Future Revolution In Computer Science and Communication Engineering : ISSN No. 2454-4248 pg. no. 243-250 Vol. 4, Issue:3**

- A paper on “Development of Portable Optical Sensor Based System for Detection of Phosphate in Wastewater”, published in an international conference on advances in Functional Materials held on 12,13 January 2018 held at KTHM, College, Nashik.

### C. Training Programs Attended :

All the staff members of the department attended

1. Faculty development program organized by the college during 23<sup>rd</sup> June to 1<sup>st</sup> July 2018. Lectures on the topics Role of Teachers in College Administration by Nandkumar Nikam, Role of Teachers in College Administration by Dr. Arun Adsul, How to communicate effectively with the students by Dr. Ashok Thorat and Role of Teachers in interdisciplinary Research by Dr. Bhosale were organized on 23<sup>rd</sup>, 24<sup>th</sup>, 30<sup>th</sup> June, 1<sup>st</sup> July 2017 respectively.
2. Faculty development program organized by the college on 29<sup>th</sup> September 2017. Dr. Beena Inamdar Guided the teachers on the topic “Teachers and teaching profession”.

### D. Workshops/Seminars attended :

1. **Mrs. Varsha Bapat and Mrs. Pradhnya Pathakji** attended Two Day National workshop on ‘Use of Appropriate Software in Mathematical Modeling and Statical Analysis’ organised by Department of Mathematics of the college on 9,10 February , 2018.

### E. Extension Activity:

1. Demonstration of Wireless Voting Machine was arranged for the students of Political Science on the occasion of Voter's Day.
2. Students' Council Election Procedure was assisted with the Wireless Voting Machine developed by the students of the department.
3. **Mrs. Mrinalini Bhadane** :Delivered Guest Lecture on “Computer Hardware and Peripherals” to F.Y.B.Sc. Comp. Sc. Students of

D.Y.Patil College of Arts, Science and Commerce, Pimpri .

4. **Dr. Varsha Bapat:** Delivered Guest Lecture on “Applications of Wireless Sensor Network” to S.Y.B.Sc. Comp. Sc. Students of D. Y. Patil College of Arts, Science and Commerce, Pimpri .

### STUDENTS' ACHIEVEMENT

1. **Industrial Training:** Pradyumna Shivtare a student of S.Y.B.Sc. Comp. Sc. has completed extensive training on PCB manufacturing process during 27<sup>th</sup> October to 6<sup>th</sup> Nov. 2017 from Shogini Techno arts Pvt. Ltd.,Pune.

**Prof. Vaishali Salunke**  
Co-ordinator



Convener Dr. Sulabha Kulkarni and organizing committee members of the Science Academies' Lecture Workshop “Smart Materials and Future Technologies for Sustainable Development ” organized by Department of Electronics (16<sup>th</sup>, 17<sup>th</sup> January 2018 )



Industry Visit to Minilec Pvt. Ltd.,Pirangut, Pune:10<sup>th</sup>  
Aug. 2017

## PHYSICS

### DEPARTMENTAL ACTIVITY

1. The department organized a lecture workshop on “Guidance for preparation of M.Sc. and M.Sc. Ph.D. Entrance examinations” for students from different colleges to introduce students about preparation of entrance examinations after B.Sc. Physics in collaboration with Student Development Board of Savitribai Phule Pune University on 23<sup>rd</sup> and 24<sup>th</sup> January 2018. Nearly 40 students from different colleges participated in the workshop. Dr. Viswajyoti Dey, Department of Physics, SPPU, Dr. Bhushan Patil and Prof. Pravin Dusane from Abasaheb Garware College and Prof. Dinesh Kalel, Department of Physics, modern College, Ganeshkhind were the resource persons.
2. A two day state level workshop was organized in collaboration with Savitribai Phule Pune University on “Skills and Open Ended Experimentation in Optics” on 22<sup>nd</sup> and 23<sup>rd</sup> December 2017. Nearly 50 teachers from different colleges from Maharashtra participated in the workshop.
3. Physiqia-A Talent Search Event- Interclass Subject Based Competitions like Quiz, Rangoli, Puzzle, Ludo and Cartoon making were organized for first, second, third year students and students of Biotechnology. Nearly 40 students participated in these events.
4. Demonstration lectures were arranged to uncover some basic concepts of Physics.

### Staff Achievements:

#### Mrs. Varsha Joshi-

1. Attended Three Day International Conference titled “**Nanotechnology for Human Welfare** “ (ICNHW- 2018) on 1<sup>st</sup> to 3<sup>rd</sup> February 2018 at Department of Physics, Haribhai V. Desai College, Pune
2. Attended a two day National Workshop on

“Use of Appropriate Softwares in Mathematical Modelling and Statistical Analysis” held on 9<sup>th</sup> and 10<sup>th</sup> February 2018 organized by Department of Mathematics and Statistics, Modern College, Ganeshkhind, Pune 16 sponsored by DBT-CTEP, Department of Biotechnology, Government of India, New Delhi.

3. Attended a two day State Level Seminar on “Recent Trends in Chemical Sciences (RTCS 2018) on 7<sup>th</sup> and 8<sup>th</sup> February 2018 organized by Annasaheb Waghire Science, Arts and Commerce college, Otur in collaboration with SPPU, Pune. And Chaird a session.

#### Mr. M.D. Waghmare-

1. Attended Three Day International Conference titled “**Nanotechnology for Human Welfare** “ (ICNHW- 2018) on 1<sup>st</sup> to 3<sup>rd</sup> February 2018 at Department of Physics, Haribhai V. Desai College, Pune and contributed an Abstract in the conference proceedings.

#### Mrs. Chhaya Abnave-

1. Attended Two day Science Academies' Lecture Workshop “Smart Materials and Future Technologies for Sustainable Development” organized by Department of Electronics, Modern College, Ganeshkhind on 16<sup>th</sup> and 17<sup>th</sup> January 2017.

#### Dr. Pratibha Rao-

1. Attended Two day Science Academies' Lecture Workshop “Smart Materials and Future Technologies for Sustainable Development” organized by Department of Electronics, Modern College, Ganeshkhind on 16<sup>th</sup> and 17<sup>th</sup> January 2017.
2. Won Badminton Singles and Doubles competition held by Progressive Education Society

#### Prof. Dinesh Kale

1. Worked as Resource Person at Rakhamabai Pandurang College, Palshet, Ratnagiri

## STUDENTS ACHIEVEMENTS

1. Miss. Rutica Kedare of T.Y.B.Sc. physics of 2016-17 batch was awarded a patent for her project of Green Bricks- bricks made from waste plastic bags.
2. Mr. Sarvesh Navande of S.Y.B.Sc. was selected as best cadet of Air Wing on National level and was awarded a medal at the hands of Prime Minister Mr. Narendra Modi on 28<sup>th</sup> January 2018 at New Delhi. He also was a part of Republic day parade at New Delhi.
3. Two projects of T.Y.B.Sc. students of 2016-17 were converted to research papers and are being published in reputed journals.
4. Students of S.Y.B.Sc. Presented some demonstration experiments in Optics at the State level workshop arranged for teachers from different colleges.
5. Students of T.Y.B.Sc. Participated in Model United Nation Parliament organized by IIT Bombay.
6. Nearly 20 Students of T.Y. B.Sc. attended Two day Science Academies' Lecture Workshop "Smart Materials and Future Technologies for Sustainable Development" organized by Department of Electronics, Modern College, Ganeshkhind on 16<sup>th</sup> and 17<sup>th</sup> January 2017.

### Science Exhibition Anubhuti

Students participated enthusiastically in project, model competition and poster competition of the science exhibition Anubhuti. In total 10 Experiments, Models and Posters were exhibited. 25 students participated in the exhibition. Students won prizes in poster, model and project.

### Field visit-

- S.Y.B.Sc. Study tour were arranged for S. Y. B. Sc. Students to Satara. Students visited Mapro food Processing unit, Mamata Dairy and Horticulture farm and nursery.
- T.Y.B.Sc. Study tour was arranged to Nasik and Sinner for T.Y. B.Sc. Students. Students visited

Gargoti Museum in Sinner and Sula wines.

- Students of third year visited IISER for Science Exhibition arranged on occasion of Children's Day.
- Students of T.Y.B.Sc. Physics visited Physics Department University of Pune and IIUCA on the occasion of Science day on 28<sup>th</sup> February 2018

**Mrs. Varsha Joshi**  
Head, Department of Physics



Skill Devp Course - Physics



Social Service - Physics

## MICROBIOLOGY

### DEPARTMENTAL ACTIVITIES

#### Workshops/Skilled based course/Seminars

1. A skilled based certificate course on 'Quality Control in Laboratories and Industries' was

conducted between 19/6/17 to 4/7/17 for 35 UG students.

2. **A Hands-On Training Workshop** on 'Isolation and Enumeration of Bacteriophages' was conducted under DBT-STAR college scheme between 4/1/18 to 6/1/18 for under-graduate students. Thirty-four UG and two PG students and two staff members from other colleges.
3. **University-level Workshop** was conducted **under Board of Students' Development**, SPPU on 'Life skills, Goal setting and Stress management' on 12/2/18 for 41 UG students and 56 PG students.

• **Educational and Industrial Visits:**

- 1) S.Y.B.Sc. students visited Dairy, Borgaon, Satara on 22/08/17.
- 2) T.Y.B.Sc. students visited Sula Wines, Gangotri Mineral Museum, Nashik on 18/08/17 and 19/08/17, Janakalyan Rakta Pedhi on 26/02/18 and Institute of Applied Biological Research and Development on 14/02/18.
- 3) MSc I students visited National Centre for Cell Science, S. P. Pune University Campus by on 28/02/18, Agharkar Research Institute on 9/03/18, National Centre for Microbial Resource – NCCS by on 12/03/18.
- 4) Msc II students visited PMC's Sewage Treatment Plant, near Dr. Naidu Hospital, Pune on 27/09/2017 and Institute of Applied Biological Research and Development (IABRD), Pune on 14/10/2017.

• **Guest lectures:**

Microbiology department organized lectures by eminent scientists and research scholars like Prof. Patricia Vit; Universidad de Los Andes, Merida; Venezuela, Dr. Santosh Sutar; Assistant Director/Assistant Professor; Yashvantrao Chavan School of Rural Development; Shivaji University, Kolhapur and Dr. Nikhil Bharambe, Postdoctoral Research Scholar, Case Western Reserve University, Cleveland, Ohio, USA, Dr. Suvarna Bobade Assistant Counselor, Department of

Psychology and Dr. Shrikant Pawar and Shreyas Kumbhare (NCMR- NCCS). The UG and PG students were benefited due to this interaction.

Several well placed alumni were invited to interact with UG and PG students. The alumni included Mr. Gaurav Godse, Safety Officer, Suzlon company, Mr. Rohit Joshi, Junior Editorial Associate, Crest Pre media Solutions (Springer – Nature group), Mr. Ojas Kaduskar, NIV, Mrs. Shweta Inamdar, Senior Research Associate, Product Development R&D Group, Illumina Headquarters Mr. Vishal Phalke, Mr. Pranav Pande (PhD student, INRS, Canada), Manali Mahajan and Shruti Goradiya (MS in Molecular Biology, Adelphi University, New York), Mr. Abhijeet Kulkarni, PhD student, NCMR-NCCS, Ms. Unmesha Thanekar, MS-Ph. D student (Pharmacology and Toxicology), Wright State University, Ohio, USA, Ms Krutika Lonkar, Project Assistant, Innovation Biologicals Pvt. Ltd. NCL, Venture centre.

The Postgraduate students also attended lecture by Dr. B. D. Bhole organized under DBT Star college scheme and by Sunita Sharma and Mr. Minochar Patel organized by placement cell of the college.

Selected postgraduate students attended lectures organized by different research institutes on various occasions. The speakers were Dr. Vineet Ahuja, Dr. Narayan Punekar, Biotechnology group, IIT Powai, Dr. Janesh Kumar (NCCS Scientist), Dr. Amitabh Majumdar (NCCS Scientist), Prof. Sanjeev Dhurandar ( Emeritus Prof. IUCAA), Dr. Amit Ghosh and Dr. Y. S. Shouche, Scientist G, NCMR-NCCS.

• **Competitions**

- 1) A total of 54 undergraduate students participated in the 17<sup>th</sup> State level Microbiolympiad organized by R. C. Patel College, Shirpur in association with Modern College ACS, GK, Pune and in collaboration with AMI on 9<sup>th</sup> January 2018. Among the various competitions were:-

a. **Microbiological Contest** in which 18 F.Y., 17 S.Y. and 19 T.Y.B.Sc. students participated.

b. **Microbio-Slate** in which 1 T.Y.B.Sc. student participated

c. **Microbio Canvas** in which 1 F.Y., 1 S.Y. and 3 TYBSc students participated

2) Two MSc II students participated in National level Agar Art Contest organized by Faculty of Microbiology and Biochemistry, Department of Zoology, St Berchmans College, Kerala on 20<sup>th</sup> November 2017.

• **Alumni meet**

Alumni meet was arranged on 13<sup>th</sup> January, 2018. A total of 37 alumni attended the meet.

• **Social activities of Staff Members of Department of Microbiology:**

1. Contributed Rs. 7000/- to The Thalassemia Society, Pune Chapter, Pune

2. Contributed Rs. 1000/- to Jagruti Blind Girls School, Vadgaon, Pune

3. One of the staff members contributed Rs. 5000/- for the welfare of an alumnus.

4. Contributed to Corpus Fund of the college for giving loan scholarship to financially needy students of the college.

5. Staff members participated in Tree Plantation drives on 5<sup>th</sup> July and 9<sup>th</sup> July 2017.

**STAFF ACHIEVEMENTS**

**Mrs. Sneha Ogale:**

1) Participated as subject expert on Selection Committee (appointed by SPPU) for selection of Assistant Professor at Sarvodaya Sangh's Padmashree Manibhai Desai College, Uruli Kanchan on 9/6/17.

2) Participated as Resource Person and member organizing Committee for Skill development certificate course, 'Quality Control in Industries and Laboratories'.

3) Participated in UGC sponsored Faculty

Development program from 23/6/17 to 14/7/17 at MCASC, GK.

4) Participated in Rotary Club Tree plantation (Nakshatra Van) drive on 9/7/2017.

5) Attended and coordinated DBT STAR Workshop on 'Isolation and Enumeration of Bacteriophages'.

6) Attended and coordinated Workshop on 'Life Skills, Goal Setting and Stress Management'.

7) Attended Science academies' lecture workshop on "Understanding and exploring the interfaces between Biology and Biotechnology" between November 1-3 2017.

8) Presented two Posters in National Conference on "Ingenious Trends In Life Sciences" organised by Department of Microbiology, M.C.E. Society's Abeda Inamdar Senior College, Camp, Pune-411001 on 6<sup>th</sup> and 7<sup>th</sup> October, 2017.

9) Received **Third Prize** for Poster Presented at National Conference on "Chemical Sciences: A interdisciplinary Approach" organised by Department of Chemistry, Modern College, Ganeshkhind, Pune on 18<sup>th</sup> to 20<sup>th</sup> January 2018.

10) Received **First Prize** for Poster Presented at International Conference on "Recent trends in Life Sciences" organized by Department of Zoology, Modern College, Ganeshkhind, Pune on 2<sup>nd</sup> and 3<sup>rd</sup> February 2018.

11) **Chaired one session and was in-charge of Poster session in** International Conference on "Recent trends in Life Sciences" organized by Department of Zoology, Modern College, Ganeshkhind, Pune on 2<sup>nd</sup> and 3<sup>rd</sup> February 2018.

12) Published three papers in Peer reviewed International Journals.

a. Ogale Sneha, Yadav Karan Singh and Navale Shrutika (2018). Screening of endophytic bacteria from the pharmacologically important medicinal plant *Gloriosa superba* for their

multiple plant growth promoting properties. The Pharma Innovation; 7(1): 208-214.

- b. **Ogale Sneha, Joshi Nikhil, Sukhatankar Aishwarya and Manani Priyanka (2018).** Optimization Of Chitinase Production By Bacteria From Novel Endophytic Niche Of *Gloriosa Superba* And Soil Of North-Western Region Of India. World Journal of Pharmaceutical Research; 7(4): 133-144.
- c. **Ogale Sneha, Kulkarni Aditi, Nichit Sonali and Shah Divya (2018).** Screening Of Endophytes Of *Gloriosa Superba* For Their Plant Growth Promoting Potential And Optimization Of Indole-3-Acetic Acid Production. World Journal of Pharmaceutical Research; 7(4): 156-171.
- 13) **Life member** of Association of Microbiologists India and Society of Biological Chemists (India).

**Mrs. Anupama Sonawane:**

- 1) Presented Poster at International Conference on "Recent trends in Life Sciences" organized by Department of Zoology, Modern College, Ganeshkhind, Pune on 2<sup>nd</sup> and 3<sup>rd</sup> February 2018.

**Dr. Mrs. Neelima Kulkarni:**

- 1) Attended Science academies' lecture workshop on "Understanding and exploring the interfaces between Biology and Biotechnology" between November 1-3 2017.
- 2) Participated as Resource Person and member organizing Committee for Skill development certificate course, 'Quality Control in Industries and Laboratories',
- 3) Participated in UGC sponsored Faculty Development program from 23/6/17 to 14/7/17 at MCASC, GK.
- 4) Oral Presentation at National Conference on "Chemical Sciences: A interdisciplinary Approach" organised by Department of Chemistry, Modern College, Ganeshkhind, Pune on 18<sup>th</sup> to 20<sup>th</sup> January 2018.

- 5) Presented Poster at International Conference on "Recent trends in Life Sciences" organized by Department of Zoology, Modern College, Ganeshkhind, Pune on 2<sup>nd</sup> and 3<sup>rd</sup> February 2018.
- 6) Attended and was a member of organizing committee for Workshop on 'Life Skills, Goal Setting and Stress Management' on 12<sup>th</sup> February, 2018 at Microbiology Dept, MCASC, GK.
- 7) **Chairperson:** Result analysis Committee and NAAC criterion II Committee.
- 8) **Member** of F.Y. BSc. Admission committee and Research committee.
- 9) **Life member** of Association of Microbiologists India and Society of Biological Chemists (India).
- 10) **Publication in peer reviewed journal:**

- 1) **Neelima Kulkarni, Tejashree Vaidya, Gunjan Rathi (2018)** Optimization of cellulase production by *Aspergillus* species under solid state fermentation. The Pharma Innovation; 7(1): 193-196.

**Mr. Prasad Deshmane:**

- 1) Chair person – Arts Circle
- 2) Attended and was a member of organizing committee for DBT STAR Workshop on 'Isolation and Enumeration of Bacteriophages'. Attended and was a member of organizing committee for Workshop on 'Life Skills, Goal Setting and Stress Management' on 12<sup>th</sup> February, 2018 at Microbiology Dept, MCASC, GK.

**Dr. Kavita Parekh:**

- 1) **Life member** of Association of Microbiologists India.
- 2) Member of Placement Cell.

**Dr. Sougata Ghosh:**

**Book :**

**Ghosh S., Chopade B. A. (2017).** *Dioscorea bulbifera:*

A model system in nanobiotechnology and medicine. LAP LAMBERT Academic Publishing GmbH & Co. KG, Germany. ISBN: 978-3-330-05529-2.

#### Book Chapter :

- 1) Kale S.N., Kitture R., **Ghosh S.**, Chopade B.A., Yakhmi J.V. (2017) Nanomaterials as enhanced antimicrobial agents/activity enhancer for transdermal applications: A review. Antimicrobial Architectonics From Synthesis to Applications. Elsevier Inc. Amsterdam, Netherlands.
- 2) **Ghosh S.**, Sanghavi S., Sancheti P. (2017) Metallic biomaterial for bone support and replacement. Metallic Biomaterials. Vol 2. Elsevier Inc. Amsterdam, Netherlands.
- 3) **Ghosh S.** (2017) Mesoporous silica based nano drug delivery system synthesis, characterization and applications. Nanoscience and Nanotechnology in Drug Delivery. Elsevier Inc. Amsterdam, Netherlands.
- 4) Kitture R., **Ghosh S.** (2017) Hybrid nanostructures for *in-vivo* imaging. Hybrid Nanostructures for Cancer Theranostics. Elsevier Inc. Amsterdam, Netherlands.

#### Publications (Total citations : 1018; h-index : 17; i10-index : 25) :

1. Shinde S.S., Joshi KA, Patil S, Singh S, Kitture R, Bellare J, **Ghosh S** (2018) Green synthesis of silver nanoparticles using *Gnidia glauca* and computational evaluation of synergistic potential with antimicrobial drugs. *World Journal of Pharmaceutical Research*. 7(4): 156-171.
2. Kulkarni S, Yerwa S, Thakkar B, **Ghosh S** (2018) Petroleum contaminated soil as rich source of bioemulsifier producing *Enterobacter cloacae*. *World Journal of Pharmaceutical Research*. 7(4): 173-182.
3. Bhagwat TR, Joshi KA, Parihar VS, Asok A, Bellare J, **Ghosh S** (2018) Biogenic copper nanoparticles from medicinal plants as novel

antidiabetic nanomedicine. *World Journal of Pharmaceutical Research*. 7(4): 183-196.

4. Luikham S, Malve S, Gawali P, **Ghosh S** (2018) A novel strategy towards agro-waste mediated dye biosorption for water treatment. *World Journal of Pharmaceutical Research*. 7(4): 197-208.
5. Lawande PP, Sontakke VA, Kumbhar NM, Bhagwat TR, **Ghosh S**, Shinde VS. (2017) Polyhydroxylated azetidine iminosugars: Synthesis, glycosidase inhibitory activity and molecular docking studies. *Bioorganic and Medicinal Chemistry Letters*. 27(23): 5291-5295.
6. Rokade SS, Joshi KA, Mahajan K, Tomar G, Dubal DS, Parihar VS, Kitture R, Bellare J, **Ghosh S** (2017) Novel anticancer platinum and palladium nanoparticles from *Barleria prionitis*. *Global Journal of Nanomedicine*. 2(5): 555600.
7. Shende S, Joshi KA, Kulkarni AS, Shinde VS, Parihar VS, Kitture R, Banerjee K, Kamble N, Bellare J, **Ghosh S** (2017) *Litchi chinensis* peel : A novel source for synthesis of gold and silver nanocatalysts. *Global Journal of Nanomedicine*. 3(1): 555603.

#### International conference presentations abroad :

1. **Ghosh S.** Magnetic nanoparticles functionalized with saponin as novel nanomedicine against breast cancer. 30<sup>th</sup> and 31<sup>st</sup> October, 2017. 13th Indo-Australian Biotechnology Conference, Queensland University of Technology, Brisbane, **Australia**.
2. **Ghosh S.** Phyto-genic platinum and palladium nanoparticles as novel anticancer nanomedicine. 22<sup>nd</sup> to 26<sup>th</sup> May, 2017. International Conference for Physical, Life and Health Sciences, Harvard Medical School, 77 Avenue Louis Pasteur, Boston, Massachusetts, **U.S.A.** (Speaker-Oral presentation)

#### Conference presentations (guided/presented) in India :

- 1) Sarkar B, Pawar M, Lonkar S, **Ghosh S.** Biotechnological applications of detergent degrading bacteria isolated from *Sapindus*

- mukorossi* in bioremediation. 15<sup>th</sup> and 16<sup>th</sup> December, 2017. National Conference on Green Approach towards Environment and Chemical Science (GAECS-2017), Department of Chemistry, Gramonnati Mandal's Arts, Commerce & Science College, Narayangaon, Pune. (Poster presentation) pp. 46.
- 2) Jamdade D, Waghole S, Phulwade A, **Ghosh S.** Diosgenin from *Dioscorea bulbifera* as a potent antidiabetic bioactive principle. 15<sup>th</sup> and 16<sup>th</sup> December, 2017. National Conference on Green Approach towards Environment and Chemical Science (GAECS-2017), Department of Chemistry, Gramonnati Mandal's College, Narayangaon, Pune. (Poster presentation) pp. 41.
  - 3) Rajpali D, Gaikwad V, Satav S, **Ghosh S.** Diosgenin conjugated magnetic nanomedicine as promising apoptotic inducers in breast cancer cells. 15<sup>th</sup> and 16<sup>th</sup> December, 2017. National Conference on Green Approach towards Environment and Chemical Science (GAECS-2017), Department of Chemistry, Gramonnati Mandal's College, Narayangaon, Pune. (Poster presentation) pp. 44.
  - 4) Pawar P, Bambole A, **Ghosh S.** Antibiofilm and antileishmanial activity of phytogenic Au core Ag shell nanoparticles. 15<sup>th</sup> and 16<sup>th</sup> December, 2017. National Conference on Green Approach towards Environment and Chemical Science (GAECS-2017), Department of Chemistry, Gramonnati Mandal's College, Narayangaon, Pune. (Poster presentation) pp. 54.
  - 5) Gawali PP, Thorat NN, **Ghosh S.** Potential bioemulsifier producing bacteria from petroleum contaminated soil. 15<sup>th</sup> and 16<sup>th</sup> December, 2017. National Conference on Green Approach towards Environment and Chemical Science (GAECS-2017), Department of Chemistry, Gramonnati Mandal's College, Narayangaon, Pune. (Poster presentation) pp. 52.
  - 6) Shinde SS, Satish S, **Ghosh S.** Enhanced bactericidal synergy of drug with silver nanoparticles synthesized by *Gnidia glauca*. 15<sup>th</sup> and 16<sup>th</sup> December, 2017. National Conference on Green Approach towards Environment and Chemical Science (GAECS-2017), Department of Chemistry, Gramonnati Mandal's College, Narayangaon, Pune. (Poster presentation) pp. 61.
  - 7) Shende S, **Ghosh S.** Green synthesis of novel Pt-PdNPs with anticancer and antioxidant potential. 15<sup>th</sup> and 16<sup>th</sup> December, 2017. National Conference on Green Approach towards Environment and Chemical Science (GAECS-2017), Department of Chemistry, Gramonnati Mandal's College, Narayangaon, Pune. (Poster presentation) pp. 59.
  - 8) Yerwa S, Unawane N, **Ghosh S.** Antimicrobial activity of bioactive principles from organically cultivated *Curcuma longa*. 15<sup>th</sup> and 16<sup>th</sup> December, 2017. National Conference on Green Approach towards Environment and Chemical Science (GAECS-2017), Department of Chemistry, Gramonnati Mandal's College, Narayangaon, Pune. (Poster presentation) pp. 57.
  - 9) Patil A, Gramopadhye S.S., **Ghosh S.** Anticancer and antioxidant Pt-PdNPs synthesized by medicinal plant *Dioscorea bulbifera*. 6<sup>th</sup> and 7<sup>th</sup> October, 2017, National Conference on Ingenious Trends In Life Sciences, Department of Microbiology, M.C.E. Society's Abeda Inamdar Senior College Camp, Pune. (Poster presentation) pp.17.
  - 10) Kulkarni S, Yerwa S, Thakkar B, **Ghosh S.** Petroleum contaminated soil as rich source of bioemulsifier producing bacteria. 6<sup>th</sup> and 7<sup>th</sup> October, 2017, National Conference on Ingenious Trends In Life Sciences, Department of Microbiology, M.C.E. Society's Abeda Inamdar Senior College Camp, Pune. (Poster presentation) pp.30.
  - 11) Sutar KK, Ghodekar PM, Gawali PP, **Ghosh S.** Isolation and identification of antidiabetic bioactive principle from *Dioscorea bulbifera*. 6<sup>th</sup> and 7<sup>th</sup> October, 2017, National Conference on Ingenious Trends In Life Sciences, Department

- of Microbiology, M.C.E. Society's Abeda Inamdar Senior College, Camp, Pune. (Poster presentation) pp.27.
- 12) Kaware KE, Mane R. P, **Ghosh S.** *Gnidia glauca* flower mediated synthesis of silver nanoparticles with potent antimicrobial synergy. 6<sup>th</sup> and 7<sup>th</sup> October, 2017, National Conference on Ingenious Trends In Life Sciences, Department of Microbiology, M.C.E. Society's Abeda Inamdar Senior College, Camp, Pune. (Poster presentation) pp.27.
  - 13) Pawar PA, Khadatare PA, Unawane N, **Ghosh S.** A novel strategy towards agro-waste mediated dye biosorption for water treatment. 6<sup>th</sup> and 7<sup>th</sup> October, 2017, National Conference on Ingenious Trends In Life Sciences, Department of Microbiology, M.C.E. Society's Abeda Inamdar Senior College, Camp, Pune. (Poster presentation) pp.17.
  - 14) Khandale PR, Thorat NN, **Ghosh S.** Enhanced antimicrobial activity of bioactive principles from *Curcuma longa* cultivated by organic farming. 6<sup>th</sup> and 7<sup>th</sup> October, 2017, National Conference on Ingenious Trends In Life Sciences, Department of Microbiology, M.C.E. Society's Abeda Inamdar Senior College, Camp, Pune. (Poster presentation) pp.26.
  - 15) Satish S, Shinde SS, **Ghosh S.** Saponin functionalized magnetic nanoparticles as novel apoptotic inducers in breast cancer cells. 6<sup>th</sup> and 7<sup>th</sup> October, 2017, National Conference on Ingenious Trends In Life Sciences, Department of Microbiology, M.C.E. Society's Abeda Inamdar Senior College, Camp, Pune. (Poster presentation) pp.33.
  - 16) Wadikar SV, Shah JH, **Ghosh S.** *Litchi chinensis* peel extracts with antimicrobial synergy and antidiabetic activity. 6<sup>th</sup> and 7<sup>th</sup> October, 2017, National Conference on Ingenious Trends In Life Sciences, Department of Microbiology, M.C.E. Society's Abeda Inamdar Senior College, Camp, Pune. (Poster presentation) pp.29.
  - 17) Belapurkar SP, Gandhe SC, **Ghosh S.** Phytogetic Au<sub>core</sub>-Ag<sub>shell</sub> nanoparticles with potent antibiofilm and antileishmanial activity as novel nanomedicine. 6<sup>th</sup> and 7<sup>th</sup> October, 2017, National Conference on Ingenious Trends In Life Sciences, Department of Microbiology, M.C.E. Society's Abeda Inamdar Senior College, Camp, Pune. (Poster presentation) pp.31.
  - 18) Sarkar B, Pawar M, Lonkar S, **Ghosh S.** Detergent degrading bacteria isolated from *Sapindus mukorossi* extract for agrobiotechnological applications. 6<sup>th</sup> and 7<sup>th</sup> October, 2017, National Conference on Ingenious Trends In Life Sciences, Department of Microbiology, M.C.E. Society's Abeda Inamdar Senior College, Camp, Pune. (Poster presentation) pp. 20.
  - 19) Sarkar B, Pawar M, Lonkar S, **Ghosh S.** Detergent degrading bacteria isolated from *Sapindus mukorossi* extract for agrobiotechnological applications. 14<sup>th</sup> and 15<sup>th</sup> September, 2017. National Conference on Recent Trends in Food and Agri Biotech organised by Department of Biotechnology, Sinhgad College of Engineering, Pune. (Poster Presentation) pp.34.
  - 20) Gramopadhye S.S, Patil A, **Ghosh S.** Organic farming promotes predominance of antimicrobial bioactive principles in *Curcuma longa*. 14<sup>th</sup> and 15<sup>th</sup> September, 2017. National Conference on Recent Trends in Food and Agri Biotech organised by Department of Biotechnology, Sinhgad College of Engineering, Pune. (Poster Presentation) pp.7.
  - 21) Shende S, **Ghosh S.** *Litchi chinensis* peel : An agro-waste mediated synthesis of catalytic gold and silver nanoparticles. 14<sup>th</sup> and 15<sup>th</sup> September, 2017. National Conference on Recent Trends in Food and Agri Biotech organised by Department of Biotechnology, Sinhgad College of Engineering, Pune. (Poster Presentation) pp.6.

- 22) Luikham S, Malve S, Gawali P, **Ghosh S**. Agro-waste mediated dye biosorption : A novel strategy towards bioremediation. 14<sup>th</sup> and 15<sup>th</sup> September, 2017. National Conference on Recent Trends in Food and Agri Biotech organised by Department of Biotechnology, Sinhgad College of Engineering, Pune. (Poster Presentation) pp.8.
- 23) Kulkarni TM, **Ghosh S**. *Cocos nucifera* water : A novel microbial growth promoting medium. 14<sup>th</sup> and 15<sup>th</sup> September, 2017. National Conference on Recent Trends in Food and Agri Biotech organised by Department of Biotechnology, Sinhgad College of Engineering, Pune. (Poster Presentation) pp.9.
- 24) Rajput V, Palkhe A, **Ghosh S**. Design and development of selective microbiological culture medium using *Musa paradisiaca* peels: A novel agro-biotechnological application. 14<sup>th</sup> and 15<sup>th</sup> September, 2017. National Conference on Recent Trends in Food and Agri Biotech organised by Department of Biotechnology, Sinhgad College of Engineering, Pune. (Poster Presentation) pp.38.

#### **Member of Editorial Board/Reviewer's Team**

- 1) Journal of Photochemistry & Photobiology, B: Biology
- 2) Journal of Diabetes Research
- 3) International Journal of Advances In Engineering Research
- 4) International Journal of Research in Science and Technology
- 5) Chemotherapy Research and Practice
- 6) Arabian Journal of Chemistry
- 7) Journal of Nanomedicine & Biotherapeutic Discovery
- 8) Journal of Nanomedicine and Nanotechnology

#### **Ms. Gauri Bhagat**

- 1) Coordinator of Skill based course on 'Quality Control in Laboratories and industries' held

from 19/6/17 to 4/7/17 at Microbiology Dept, MCASC, GK.

- 2) Member of Internal Exam Committee

#### **Ms. Debangi Chattopadhyay**

- 1) Attended and was a member of organizing committee for DBT STAR Workshop on 'Isolation and Enumeration of Bacteriophages' on 4<sup>th</sup>, 5<sup>th</sup>, 6<sup>th</sup> January, 2018 at Microbiology Dept, MCASC, GK.
- 2) Attended and was a member of organizing committee for Workshop on 'Life Skills, Goal Setting and Stress Management' on 12<sup>th</sup> February, 2018 at Microbiology Dept, MCASC, GK.
- 3) Member for college level extracurricular activities in 'Yuva Saptah'
- 4) Won second prize in Modern Chef Competition arranged by B.Voc department during Vividha.

#### **Dr. Manasi Tukdeo**

- 1) Attended and was a member of organizing committee for DBT STAR Workshop on 'Isolation and Enumeration of Bacteriophages'.
- 2) Attended and co-coordinated Workshop on 'Life Skills, Goal Setting and Stress Management'.
- 3) **Life member** of Association of Microbiologists India.

#### **Mrs. Rashmi Chotaliya**

- 1) Documentation Officer- Department of Microbiology for DVV
- 2) Attended and was a member of organizing committee for DBT STAR Workshop on 'Isolation and Enumeration of Bacteriophages'.
- 3) Attended and was a member of organizing committee for Workshop on 'Life Skills, Goal Setting and Stress Management'.
- 4) Departmental coordinator for college level co-curricular activities in 'Anubhuti'.

### Dr. Sayali Mahajan

- 1) Attended and was a member of organizing committee for DBT STAR Workshop on 'Isolation and Enumeration of Bacteriophages'.
- 2) Attended and was a member of organizing committee for Workshop on 'Life Skills, Goal Setting and Stress Management'.
- 3) Won second prize in Modern Chef competition arranged by B.Voc department during Vividha.

### Ms. Priyanka Parate

- 1) Attended and was a member of organizing committee for Workshop on 'Life Skills, Goal Setting and Stress Management'.
- 2) Won First prize in Modern Chef competition arranged by B.Voc department during Vividha.

### Mrs. Trupti Kulkarni

- 1) Presented Poster on '*Cocos nucifera* water: A novel microbial growth promoting medium' in **National Conference** titled 'Recent advances in Food, Agriculture Biotechnology and Bioinformatics' held on 22<sup>nd</sup> December, 2017 at Sinhagad College, Pune

## STUDENT ACHIEVEMENTS

### • Scholarships

- 1) Sanchita Gramopadhye (MScII) – DST Inspire scholarship
- 2) Divya Shah (MScII)-Lila Poonawalla scholarship
- 3) Priyanka Manani, Bhakti Thakkar and Shivani Kulkarni (MScII)–Weikfield Malhotra scholarship

### • NET/SET/ GATE Qualified Students

- 1) Jayashree Khadilkar - CSIR-NET- JRF
- 2) Yogita Patil –UGC - JRF
- 3) Nikita Patil – CSIR-NET - JRF
- 4) Pallavi Budgude – CSIR-NET
- 5) Anandita Karkhanis – CSIR-LS
- 6) Apoorva Joshi - GATE

### • MS/PhD Abroad

- 1) Priya Neurgaonkar-Department of Bioinformatics, University of Wuerzburg, Germany.
- 2) Sharvari Narendra – Northeastern University, Boston, USA.
- 3) Shrutika Navale – MS in Food Science Lincoln University, New Zealand.
- 4) Manali Mahajan - MS in Molecular Biology, Adelphi University, New York.
- 5) Shruti Goradiya - MS in Molecular Biology, Adelphi University, New York.

### • Extra Curricular Activity :-

- 1) Sharada Najan (MScI) won 3<sup>rd</sup> prize in 1<sup>st</sup> International Kyokushin Karate Championship on 8<sup>th</sup> October 2017.
- 2) Sonali Nichit (MScII) won 3<sup>rd</sup> prize in 1<sup>st</sup> International Kyokushin Karate Championship on 8<sup>th</sup> October 2017.

### • Extension Activity

- 1) MSc I students performed a street play to create awareness about the disease Thalessemia during Vividha.

### • Conferences

1. A total of **8 students** presented **posters** in **National Conference** titled 'Recent advances in Food, Agriculture Biotechnology and Bioinformatics' held on 22<sup>nd</sup> December, 2017 at Sinhagad College, Pune. Biswarup Sarkar, Manish Pawar and Sumit Lonkar from **SYBSc won first prize** while Ashwini Patil and Sanchita Gramopadhye from **MSc II won second prize**.
2. A total of **28 students** presented **posters** in **National Conference** titled 'Ingenious trends in Life Sciences' on 6<sup>th</sup> and 7<sup>th</sup> October, 2017 at Abeda Inmadar College, Pune. Ashwini Patil and Sanchita Gramopadhye from **MSc II won second prize**.
3. A total of **17 students** presented **posters** in **National Conference** titled 'Green Approach

to Environment and Chemical Science”, Department of Chemistry,' Gramonnati Mandal, ACS College, Narayangoan. Biswarup Sarkar, Manish Pawar and Sumit Lonkar from **SYBSc won first prize.**

4. A total of **3 students** presented **posters** in **International Conference** on 'Applied Nanotechnology and Nanoscience' organized by Tuljaram Chaturchand College of ACS, Baramati on 7<sup>th</sup>, 8<sup>th</sup> and 9<sup>th</sup> December 2017. Soching Luikham from **MSc II won first prize.**
5. A total of **5 students** presented **posters** at The **National Academy of Science, India (NASI)** 87th Annual Session and Symposium on “Basic Research - Its role in National Development: Savitribai Phule Pune University on 8<sup>th</sup> -10<sup>th</sup> December, 2017. Biswarup Sarkar, Manish Pawar and Sumit Lonkar from **SYBSc won first prize.**
6. A total of **29 students** presented **posters** and 3 students gave **oral presentation** at **National Conference** on” Chemical Sciences: An Interdisciplinary Approach” organised by Chemistry Department, Modern College of Arts, Science and Commerce, Ganeshkhind, Pune on 18<sup>th</sup>, 19<sup>th</sup> and 20<sup>th</sup> January, 2018. Biswarup Sarkar, Manish Pawar and Sumit Lonkar from **SYBSc won First Prize in Oral Presentation** while Sandesh Shinde, Sushmita Satish from **MSc II won second prize in Poster Presentation.**
7. A total of **15 students** presented **posters** and also gave **oral presentation** at **International Conference** on” Recent Trends in Life Sciences” organized by Department of Zoology, Modern College of Arts, Science and Commerce, Ganeshkhind, Pune on 2<sup>nd</sup> and 3<sup>rd</sup>

February 2018. Sandesh Shinde from **MSc II won first prize in oral presentation** while Dhiraj Jamdade, Shardool Patil, Dishantsingh Rajpali, Priya Vaswami from **MSc I won first prize in poster competition.**

- **Annual Science Exhibition 'Anubhuti'**

The annual Science Exhibition 'Anubhuti' was organized on 10<sup>th</sup> January 2018. A total of 85 students participated in various competitions like Projects, Models, Posters at College level and Rangoli & Salad decoration at Departmental level based on scientific themes. 29 students from FY, SY, TY and MSc I presented a total of 11 projects. 13 posters were presented by 28 students of SY and MSc I while one student from TYBSc presented a working model of fermenter. 27 students from FY, TY, MSc I and MSc II presented 13 rangolis with Microbiology as the theme.

1. Priyanka Swami, Tanvi Bahirat, Akshada Balkawade and Apurva Sonawane from FYBSc bagged **second prize in Project** competition at College level.
2. Biswarup Sarkar, Manish Pawar, Sumit Lonkar from SYBSc won **second prize in Poster** competition at College level.
3. Rutuja Sawant and Aishwarya Jadhav from M.Sc I won first prize in Rangoli competition (Departmental level) while second prize was bagged by Ratna Pal from TYBSc. Third and consolation prizes were won by Komal Khutal, Sanskruti Mukhekar from FYBSc and Sneha Lawhale, Seema Koli and Sandesh Shinde from M.Sc II, respectively.

**Prof. Sneha Ogale**

HOD, Department of Microbiology



Visit to ARI MSc I 17-18



Isolation and Enumeration of Bacteriophage



Skill based course QC in Laboratorie and Industries  
July 2017

## MATHEMATICS

### DEPARTMENTAL ACTIVITIES

#### Certificate course in Vedic Mathematics

This is a skill development course organized for under graduate students of all faculty under DBT STAR College Scheme. This course was conducted between 18<sup>th</sup> December 2017 to 18<sup>th</sup> January 2018 for 20 days. Total 50 students from different faculties registered for this course.

Mrs. Jyoti Kajale was the resource person, who taught all the basic and advanced techniques of Vedic Mathematics to solve Mathematical Problems. Mrs. Pratibha Pawar was the Coordinator of this Course.

#### Guest lecture and Felicitation of Toppers

Lecture on "Fuzzy logic and Fuzzy Mathematics: Why and What?" was conducted very effectively by Dr. Rajeev Sapre (Gogate Joglekar College, Ratnagiri) on 17<sup>th</sup> August, 2017. He explained

various applications of Fuzzy Logic and Fuzzy Mathematics.

Toppers in Mathematics subject of various classes were felicitated at the hands of Dr. Rajeev Sapre.

#### Powerpoint Presentation Competition

The Great Indian Mathematician Shrinivasa Ramanujan's birth anniversary is on 22<sup>nd</sup> December. 22<sup>nd</sup> December is celebrated as National Mathematics day to give honor to him.

On this occasion, Department has organized Powerpoint Presentation Competition for F.Y.B.Sc. and F.Y.B.Sc. (Computer Science) students. Students has participated very actively.

#### Bridge course

Bridge course for FYBSc (Biotechnology) students without Mathematics background was conducted between 7<sup>th</sup> August 2017 to 16<sup>th</sup> August 2017 under DBT STAR College Scheme.

10 students took advantage of this course. Due to this course, students were able to understand basic concepts and grasp the new concepts in syllabus easily.

Miss. Ragini Sudhir Wadkar conducted the Course.

#### Summer Training Programme in Mathematics for B.Sc.students

The Summer training programme was organized for B.Sc. students during 12<sup>th</sup> to 16<sup>th</sup> June 2017. This was a DBT funded activity and was a skill development certificate course specially arranged for advanced learners. Total 14 students attended the course.

Mrs. Swati Kandharkar was the co-ordinator of the training course.

#### Departmental Magazine

The Third Issue of Departmental Magazine "Pramey" on 'Mathematics in Music' was released on 9<sup>th</sup> February 2018. Ms. Poorva Bhat, Chief Editor and Editorial Committee of students Sagar Kandelkar (TYBSc (Microbiology)), Bhagyashree Gorhe (TYBSc (Microbiology)) and Mahesh Pawar (SYBSc) contributed for publishing this issue.

### Report of National Workshop:

Department of Mathematics & Department of Statistics has organized Two day National Workshop on “Use of appropriate Softwares in Mathematical Modelling and Statistical Analysis” on 9<sup>th</sup> & 10<sup>th</sup> February 2018 under DBT-CTEP.

### STAFF ACHIEVEMENTS

#### Mrs. Swati Kandharkar

- 1) Worked as a trainer in conducting sessions and acted as subject expert at the regional STEM workshop on 'Research based Pedagogical Tools' at the University of Kashmir Srinagar J & K from 3<sup>rd</sup> July to 5<sup>th</sup> July 2017.

The Workshop was funded by the Department of Science and Technology (DST), Government of India organized by center of excellence in science and Mathematics Education at IISER, Pune supported by MHRD, Government of India and university of Kashmir , Srinagar J&K

- 2) Published paper titled 'Application of vectors in the determination of the miscibility of the substances in International Journal the Pharma Innovation.

#### Mrs. Shamal Deshmukh.

- 1) Awarded M.Phil. degree in Mathematics in May 2017 under the guidance of Dr. V. M. Sholapurkar Head, Department of Mathematics, S. P. College, Pune.

The title of the M.Phil. dissertation was 'Negative definite functions and Operator theory.'

- 2) Attended Instructional School for Teachers on Functional Analysis organized by National Centre for Mathematics held at Bhaskaracharya Pratishthana during 23<sup>rd</sup> October to 4<sup>th</sup> November 2017

#### Miss. Ragini Wadkar

CSIR UGC NET June 2017. Qualified for lectureship AIR-53

### Miss. Jayashree Shinde

Qualified SET exam April 2017

#### Prof. Swati Kandharkar

HOD, Department of Mathematics and Vice-Principal, Science



Guest lecture on “Fuzzy Logic: Why and what?” by Dr. Rajeev Sapre



National Workshop “Use of Appropriate Softwares In Mathematical Modelling And Statistical Analysis” On 9<sup>th</sup> & 10<sup>th</sup> February 2018.

## STATISTICS

### DEPARTMENTAL ACTIVITIES

#### A) National Workshop under DBT-CTEP scheme :-

The Department of Statistics and Department of Mathematics, had jointly organized two days National workshop on “Use of Appropriate

**Softwares in Mathematical Modelling and Statistical analysis” on 9<sup>th</sup> and 10<sup>th</sup> February, 2018.**

**B) One day workshop under Board of Student's Development scheme:-**

Department Of Statistics, P.E.Society's Modern College Of Arts, Science and Commerce, Ganeshkhind, Pune-16, organized one day workshop on **“Guidance for Project Report Writing” on 15<sup>th</sup> January,2018.** It was funded by the **Board Of Student's Development, Savitribai Phule Pune University.**

**C) PUSA Quiz:-**

**PUSA** stands for **"Pune University Statistics Association"**.

It conducts various activities such as quiz competition for students of first year and second year B.Sc., F.Y.B.Sc. (Comp.Sci.) and project competition for T.Y. B.Sc. and M.Sc students. These competitions are organized for all the colleges (with Statistics course) affiliated to Savitribai Phule Pune University.

**In the year 2017-2018, PUSA Quiz was conducted on 19<sup>th</sup> January 2018.**

The information regarding this quiz competition is given in 'Students' Achievements'.

**2) Students' Achievements:**

**A) 'Anubhuti'- The science exhibition :-**

In all 8 projects done by F.Y.B.Sc.and S.Y.B.Sc. students were displayed .

**Following were the prize winning projects:**

Sr. No.	Title of the Project	Class	Names of participants
1.	Analysis of eating habits among people	F.Y.B.Sc. (Comp. Sci)	1) Gayatri Jadhav 2) Shraddha Karad 3) Rutuja Borkar 4) Pratik Yewale
2.	Statistical Analysis of Eye Sight Problem	F.Y.B.Sc.(Comp. Sci)	1) Swarali Shah 2) Ashlesha Bagal 3) Prachi Thorat 4) Shrutika Khandve
3.	Forecasting of birth rates and death rates in India	F.Y.B.Sc. (Comp. Sci)	1) Shrutika Gaikwad 2) Shubham Harshe 3) Vishesh Malik 4) Soha Deshpande

**B) PUSA Quiz:-**

**In the year 2017-2018, PUSA Quiz was conducted on**

**19<sup>th</sup> January 2018.** The table below gives the information regarding the quiz:

Sr. no.	Class	No. of students	Toppers
1.	F.Y.B.Sc. (Gen.)	11	i) Miss. Rutuja Suhas Shinde ii) Miss. Paygan Shubhangi iii) Miss. Gaikwad Seema
2.	F.Y.B.Sc. (Comp.Sci.)	40	Miss. Dhanashree Kadu D.
3.	S.Y.B.Sc. (Gen)	18	i) Mr. Pravin Shinde ii) Mr. Aakash Kusmude iii) Miss. Pallavi Shinde iv) Miss. Ashwini Bansode

## STAFF ACHIEVEMENTS

### A) Mrs. Sonia Joshi:-

- i) Paper entitled “Role of Advanced Computer Technologies in Data Science” got published in the peer reviewed international journal named as 'International Journal of Research in Science and Technology'(ISSN-2394-9554).
- ii) Attended State Level Seminar on “Data Science Using R Software” dated on 13<sup>th</sup> and 14<sup>th</sup> December,2017 at S.P.College, Pune-30.
- iii) Attended National Conference On the “Advances In Computer Science & Information Technologies” dated on 29<sup>th</sup> and 30<sup>th</sup> December,2017 at Modern College, Ganeshkhind ,Pune-16.

### B) Pournima Joshilkar:-

- I) Paper entitled “Role and Functions of Statistics” got published in the peer reviewed international journal named as 'International Journal of Research in Science and Technology'(ISSN-2394-9554).
- ii) Attended “Workshop on LaTeX” dated on October 10-14 ,2017 at IISR, Pune.
- iii) Attended National Conference On the “Advances In Computer Science & Information Technologies” dated on 29<sup>th</sup> and 30<sup>th</sup> December,2017 in Modern College, Ganeshkhind , Pune-16.
- iv) Attended National Conference For “Women In Statistics And Analytics” dated on February 14-16, 2018 at Department of Statistics, SPPU, Pune-07.

### C) Miss. Yogita Shah :-

- I) Paper entitled “Role and Functions of Statistics” got published in the peer reviewed international journal named as 'International Journal of Research in Science and Technology'(ISSN-2394-9554).
- ii) Attended State Level Seminar on “Data Science Using R Software” dated on 13<sup>th</sup> and 14<sup>th</sup> December,2017 in S. P. College, Pune-30.

- iii) Attended National Conference On the “Advances In Computer Science & Information Technologies” dated on 29<sup>th</sup> and 30<sup>th</sup> December,2017 in Modern College, Ganeshkhind , Pune-16.

### D) Miss. Aditi Mulay:-

Attended National Conference For “Women In Statistics And Analytics” dated on February 14-16 , 2018 at Department of Statistics, PPU, Pune-07.

**Prof. Swati Kandharkar**  
HOD, Department of Statistic



Participants and staff with resource person-15 Jan. 2018

## ZOOLOGY

### DEPARTMENTAL ACTIVITIES

- “CONSERVE MOTHER EARTH” An Initiative for Wildlife Conservation  
19/12/2017, Tuesday No. of participants: 39  
"Conserve the mother Earth" was the one day interaction for the students of S.Y.B.Sc. with school going children of rural areas. This program was an initiative taken for the conservation of mother earth and its wildlife. This included the visits to schools of the rural areas situated around Pune. **Students of S.Y.B.Sc.** were definitive in making them understand about What, Why and How the conservation should be effectively applied and

practiced. During the entire session the our students delivered the knowledge regarding the **conservation of wildlife** at various aspects. Our students were allowed to interact with students of Zilla parishad school, Lawarde and Zilla parishad school, Kolawade. The maximum students of the both schools are either tribal or having agricultural background. The session with no doubt would develop and boost the students to incorporate this knowledge in their future prospects.

- **ANUBHUTI 2018** - On 10<sup>th</sup> January 2018 With a view to encourage, popularize and inculcate scientific temper among the students of the college, Science association, There were projects from various groups explaining the core zoology to the most complex theories. There was an enthusiastic participation of the UG students in this competition. This event as every year added an opportunity to our students to give a scope and present their innovative ideas. Total 14 projects and No. of Participants are 37.

- **T.Y. BSc Study tour** : T.Y. BSc Study tour is a direct learning experience for a group of student. Students embark on sites visits to their destinations of choice – gram sanskruti, sula vineyards, trimbkeshwar temple, gondeshwar temple, mamacha mala, gargoti museum. Dates of visit : friday 18/08/2017 to saturday 19/08/2017. Enable students self responsibility and self dependence. Get the students involved in process of activities conducted.

- **Students' participants in international conferences/workshops/seminars**

1. Study of Diversity of Diptera,  
Mr. Pradeep Gavali, Anthony Paste, Aniket Gurram, Akash Tagare ,  
ICFLSES- 2018, 13<sup>th</sup>-14<sup>th</sup> Jan. 2018, Ramkrushn More College, Akurdi, Pune.
2. Study of micrometry of dog hair of different breeds.  
Shakera Inamdar, Sagar Kandelkar, Snehal

Baravkar, Anisha Potale, Shivani Shinde. ICRTLS-2018 2<sup>nd</sup>-3<sup>rd</sup> 2018, Modern college, Ganeshkhind, Pune-16.

3. Collection, preservation and identification of dipteran specimen of forensic importance. Meghna Deshmukh, Shakeera Inamdar ICRTLS-2018 2<sup>nd</sup>-3<sup>rd</sup> 2018, Modern college, Ganeshkhind, Pune-16 .
4. Effect of heavy metals on antioxidant enzyme of fresh water major carp *labeo rohita* from mula dam ahmednagar, Sayed Zarin Sana A, Shamim Ahmed Malik, Rahul B Gaikwad, Shakira A Inamdar, ICRTLS-2018 2<sup>nd</sup>-3<sup>rd</sup> 2018, Modern college, Ganeshkhind, Pune-16.
5. Biodegradable urban waste manegment using integrated varmi technology, Smrudhi More, Anushkka Patil, Mr. Pradeep Gavali, Anthony Paste, Aniket Gurram, Akash Tagare.
6. Significance of tardigrade [toughest animal in the world]  
Shakera Inamdar, Kewal Yampure, Amit Joseph, Makrand Patil. ICRTLS-2018 2<sup>nd</sup>-3<sup>rd</sup> 2018, Modern college, Ganeshkhind, Pune-16.

Ø **Staff participants in international conferences/workshops/seminars**

1. Dr. Shakera Inamdar (2017), Biosystematic study of Apanteles prodinae (Hymenoptera Braconidae), Bioscience Discovery, 8(2-b) Special: 96-100, ISSN: 2229-3469 (Print); ISSN: 2231-024X Online) impact factor (0.092 (Universal) 3.42).
2. Dr. Shakera Inamdar, Nilima Nakwadi, Dr Monoj Jadhav, (2017) Diversity of Butterflies in Pune city, **IJSRST**, Volume 3 | Issue 9 | Print ISSN: 2395-6011 | Online ISSN: 2395-602X, ) (impact factor- 3.587).
3. Shakera Inamdar, Sagar Kandelkar, Snehal Baravkar, Anisha Potale, Shivani Shinde. Study of micrometry of dog hair of different breeds. ICRTLS-2018 2<sup>nd</sup>-3<sup>rd</sup> 2018, Modern college, Ganeshkhind, Pune-16.

4. Shakera Inamdar, Meghna Deshmukh Collection, preservation and identification of dipteran specimen of forensic importance. ICRTLS-2018 2<sup>nd</sup>-3<sup>rd</sup> 2018, Modern college, Ganeshkhind, Pune-16.
5. Shakera A Inamdar, Sayed Zarin Sana A, Shamim Ahmed Malik, Rahul B Gaikwad, Effect of heavy metals on antioxidant enzyme of fresh water major carp *labeo rohita* from mula dam ahmednagar, ICRTLS-2018 2<sup>nd</sup>-3<sup>rd</sup> 2018, Modern college, Ganeshkhind, Pune-16.
6. Shakera Inamdar, Kewal Yampure, Amit Joseph, Makrand Patil Significance of tardigrade [toughest animal in the world] ICRTLS-2018 2<sup>nd</sup>-3<sup>rd</sup> 2018, Modern college, Ganeshkhind, Pune-16.

**Dr. Shakera Inamdar**  
HOD, Department of Zoology



**Dr. Momna Hejmadi, Professor, University of Bath, London, U.K:** Delivered a lecture on Extremophiles and DNA repair on the 2<sup>nd</sup> day of conference.



**“conserve Mother Earth”**

## CENTRAL LIBRARY

### DEPARTMENTAL ACTIVITIES

#### Library Collection

Total number of printed books in the Central Library has reached up to 30,000 of Rs. 1 crore along with millions of e-books and 4500 audio books. In the year 2017-18 library has received 527 books as donation. Under UGC Development Grant library has purchased 1027 total 1554 books of Rs. Library has subscribed 96 periodical in the library which contains national, international journals and magazines. Library has taken membership of N-List Infilbnet Consortia to access online paid & free e-journal, e-book & other scholarly publications in electronic forms. In this academic year library has subscribed J-Gate Basic Science database which gives access to more than 10 thousand e-journals with their archives and more than 2 crore.

#### Library Memberships

Library has taken institutional membership of British Library, Jayakar Library of Savitribai Phule Pune University, Bionano Froniter, Savshodhak & Maratha Chamber of Commerce & Agricultural Industries for exchange of resources.

#### Library Automation and Digitization

From January 2017 library has introduced KOHA library automation open source software which is more advanced and widely used software with international standards. For content management library is using DSpace software. Using this software library has created institutional repository and giving access to ebooks, learning material prepared by teachers, faculty publications, syllabus, previous year question papers, project reports, CDs/DVDs and audio books. Ours is pioneer college among the colleges in Maharashtra to introduce FEDGATE single search for all print and online resources of library.

#### Flipped Classroom

Our library is first library in India who created flipped classroom to educate patrons online and give

information literacy training. Flipped Classroom is accessible on <http://mcasc-informationliteracy.wikispaces.com/home>

### Research Support

Librarian provides research support personally in the library or online via email. Help regarding article formats, plagiarism check using Turnitin software, citations, creating research profile, literature search is provided on request by the librarian. Ours is first college in India who has its Google Scholar Institutional Profile which gives cumulative h-index, i10index and citations of our all faculties.

### Library Website, Blog And Facebook Page

On our college website library has given links to all necessary information about the library and library resources, services, facilities etc. Library has provided access to OPAC, Institutional repositories and databases. Library has interactive blog which updates frequently about library activities and updates. Librarian posts all library activities photos, reports, new arrivals, and notices on its facebook page.

### Library Activities

1. Organized Library orientation and information literacy sessions for all staff & students.
2. Organized Grand Book Exhibition cum Sale on 29th Nov 2017.
3. Organized Bank of Baroda Pension Scheme session on 11th Aug 2017.
4. Organized Poster Competition on 11th Jan 2018 on themes GST & Child Abuse.
5. Organized Training Session on How to access J –Gate Basic Science Database on 26 Feb 2018.
6. Celebrated birth anniversary of eminent personalities by organizing speeches, showing documentaries on their life and other activities.
7. Organized Sahid Din, Dahasatvad Hinsachar Virodhi Din, Karnti Din, Rashtriya Ekta Din, Rashtiya Ekatamta, Savidhan Din, Marathi Bhasha Din by organizing exhibitions, talks and documentaries, etc

### STAFF ACHIEVEMENTS

1. **ALISE Diversity Travel Award 2018:** Librarian Ms. Sangeeta N Dhamdhare was selected and nominated for ALISE Diversity Travel Award 2018 to attend and participate in the Association of Library and Information Science Education Conference 2018 at Denver, Colorado, USA. She was awarded by the hands of President of ALISE Prof. Dr. Dietmar Wolfram, University of Wisconsin at the Westin Westminster, Denver, Colorado, USA.
2. **Global Achiever's International Award 2017:** Librarian Ms. Sangeeta N Dhamdhare was nominated and selected for this award for the remarkable work in academic field at global level. The award was awarded at Kala Academy, Camphal, Panji, Goa by the hands of Art and Culture Minister Hon. Mr. Govind Gawade in presence of Acharya Ratanlal Sonagra, Dr. K Abdul Ghani (Green Man of India), Prof. Dr. Somnath Komarpant, Dr. Tandekar etc. on 29th May 2017.
3. **Savitribai Phule Sri Shakti Award 2018:** Librarian Ms. Sangeeta N Dhamdhare was selected and awarded this award on the Constitution Day by National Dalit Sahitya Academy, Chattisgarh, MP, India

### LIBRARY STAFF PUBLICATIONS

#### A. Papers published in International Journals

1. **Sangeeta Namdev Dhamdhare;** Egbert De Smet and Ramdas Lihitkar (2017). "Web-Based Bibliographic Services Offered by Top World and Indian University Libraries: A Comparative Study". International Journal of Library and Information Services (IJLIS) 6(1). Pages: 20. DOI: 10.4018/IJLIS.2017010104
2. **Sangeeta Namdev Dhamdhare** (2017). Impact of Innovations in Education on Rankings of Indian Universities. 10th National and International Award Conference. Samata Sahitya Academy. Goa. 29th May 2017. pp. 42-45.

3. **Sangeeta Dhamdhare**, Egbert De Smet & Ramdas Lihitkar(2018). Web-based best practices offered by top university libraries in the world versus university libraries accredited with "A" grade in India: a comparative study. *International Journal of Library Science*. Vol 16, Issue 6. 2018. ISSN: 0975-7546. pg.20-32.
  4. **Sangeeta Dhamdhare** & Egbert De Smet(2017). Universities and their web-based library services: a study of their relationship. *Humanities and Social Sciences Review*, CD-ROM. ISSN: 2165-6258 :: 07(01):61–74(2017)
  5. **Dhamdhare, S. N.** (2018). Cumulative citations index, h-index and i10-index (research metrics) of an educational institute: A case study. *International Journal of Library and Information Science*, 10(1), 1-9.
- B. Poster presented at International Conferences**
1. **Sangeeta Namdev Dhamdhare** (2018). Presented Works-in-Progress poster on "Flipped Classroom to Teach Web-Based Services Offered by Libraries to LIS Students" at the International Conference of Association of Library and Information Science Education held on 5th to 9th February 2018 at Westminster, Colorado, USA.
- C. Papers accepted at International Conferences**
2. **Sangeeta Dhamdhare** (2017). "Universities should pay attention to their library web-based services to place higher in World ranking systems". Paper accepted at the International Journal of Arts and Sciences International Conference on Education going to be held from 22 to 26 May 2017 at Harvard Medical School, 77, Avenue Louis Pasteur, Boston, Massachusetts.
  3. **Sangeeta Dhamdhare**, Egbert De Smet and Ramdas Lihitkar(2017). "Ranking of world universities correlates with their library rankings". Paper accepted at 6th International Conference on Educational and Information Technology (ICEIT 2017) to be held during March 7-10, 2017 in Cambridge, UK at Clare College.
  4. **Sangeeta Namdev Dhamdhare** (2017). "A quantitative analysis of library web-services and their rankings related to the universities context". Abstract accepted at 9th Qualitative and Quantitative Methods in Libraries International Conference during 23-26 May 2017 held at The Savoy Hotel, Limerick city, Ireland.
  5. **Sangeeta Namdev Dhamdhare** (2017). Impact of Innovations in Education on Rankings of Indian Universities. 10th National and International Award Conference. Samata Sahiya Academy. Goa. 29th May 2017. pp. 42-45.
- D. Forthcoming Publications:**
- **International Journals : 03 articles**
- E. Editorial and Reviewers**
1. Guest Editor of International Journal of Library and Information Services (IJLIS). Special Issue On: Digital Archives and Innovative Services, IGI Global, USA, DOI: 10.4018/IJLIS, ISSN: 2475-9961, EISSN: 2475-997. Vol. 7, Issue 1, January 2018
  2. Associate Editor of the International Journal Of Library And Information Science, ISSN 2141 – 2537, 2013 -2016
  3. Editorial Board member of International Women Journal of Distance Education, Turkey, ISSN 2147-0367, 2013 onwards
  4. Editorial Board member of International Journal of Library and Information Services, IGI Global, USA, 2016 onwards
  5. Editorial Board member of the Journal of Engineering and Computer Innovations (JECI), of academic journals since January 2018
  6. Editorial Review Board member of International Journal of Information Communication Technologies and Human Development (IJICTHD). ISSN: 1935-5661, EISSN: 1935-567X DOI: 10.4018/IJICTHD
  7. Editorial board member of the International Journal of Information Library and Society.

ISSN Number: 2278-0386, Publishing India Group.

12. Editorial Board Member of Global Journal of Academic Librarianship [GJAL]
13. Editorial Board Member of International Journal of Librarianship and Administration
14. Editorial Board Member of International Journal of Library Automation, Networking and Consortia (IJLANC)
15. Editorial Board Member of International Journal of Information Technology and Library Science
16. Editorial Board Member of International Journal of Digital Libraries and Knowledge Management

**Sangeeta Namdev Dhamdhare**  
Librarian



Celebrated Birth Anniversary of savitribai Phule



G-Gate Basic Science Workshop

## PHYSICAL EDUCATION AND SPORTS

### DEPARTMENTAL ACTIVITIES

This Academic year college has organized following Sports activities for the promotion of sports.

#### 1. Modern Shree State Level Body Building Competition

Every year college organizes State Level "Modern Shree" Body Building competitions This was 15<sup>th</sup> year of the competition. Dr. Prakash Dixit, Dr. Datta Mahadam, Mr. Santosh Chavjan, Mr. Mohasin Shaikh were present as the guest of the competition. Prof. Kushaba Pingale, Prof. Anil Mare and Mr. Vivek Mane worked as judge of the competition.

Akshay Wanjale was judged as Modern Shree title holder. Best poser title was earned by Pravin Gaikwad of Appasaheb Jedhe College while Best Improved Body Builder title was given to Mohanish Ahire of Nowrosji Wadia College. Detail Result of the competition is as follows,

#### 2. Intercollegiate Basketball Women Competitions

College has shoulder the responsibility of organizing Intercollegiate Basketball Competitions for women on 10th and 11th October 2017. Total teams participated in the tournament. Cummins College of Engineering, BN College of Architect & SP College has secured First, Second, and Third place respectively. Token grant of Rs. 10,500/- has been received as token grant for the organization of the tournament.

#### 3. Interzonal Basketball Women Competition

Interzonal competition was organized jointly by SPPU and college on 14th and 15th October 2017. Four teams participated from Pune City, Pune District, Nagar District and Nasik District Respectively. Pune City team got first place in this tournament. Grant of Rs 20,500/- was received from SPPU.

### Modern Shree Junior Championship

Modern Shree Junior Championship was organized on 12th January 2018 on the college ground.

The result of the same is as follows;

1. Modern Shree: Uditkumar Kadam
2. Best Poser: Chinmay Kate
3. Best Improved: Aditya Singh

### Class Championship: FYBcom

### Faculty Championship: BCom

### INTERCOLLEGIATE COMPETITIONS

College participated in 15 Individual Events and in 14 Team events. In Individual events students participated in Cycling Road (1), Cycling Track (1), Yogasane(1), Lawn Tennis (3), Archery (1), Athletics M/W (13), Rifle Shooting (1), Boxing (6),

Gymnastics (5) Weightlifting M/W (2), Wrestling (5), Badminton(10), Table Tennis(5). In team events, college participated in Volleyball Men (12), Handball Men (12), Kabaddi Men (12), Kabaddi Women (12), Kho-Kho Men (12), Baseball Women (15), Baseball Men (13), Basketball Men (12), Cricket Men (18), Cricket Women (12), Football Men (15), and Softball Men (12), Fencing (2), Hockey(14). Total players participated in Inter Collegiate events are 226.

This year our college organized inter collegiate & inter zonal Basketball competition in our college. There were 19 teams from all over Pune city participated in inter collegiate competition. The winner team was Cummins College of Engineering . And in Inter zonal competition there were 4 teams participated under Pune University. And the winner team was Pune City.

### Intercollegiate Level Performers

<b>1. Sutar Sayali Mahavir</b>	<b>FY Biotech</b>	<b>Baseball</b>
a. Intercollegiate Baseball Competition		Bronze Medal
<b>2. Tatile Nikita Vasant</b>	<b>TYBsc</b>	<b>Baseball</b>
a. Intercollegiate Baseball Competition		Bronze Medal
<b>3. Chavan Kajal Premdas</b>	<b>TYBsc</b>	<b>Baseball</b>
a. Intercollegiate Baseball Competition		Bronze Medal
<b>4. Dhuke Shweta Shivaji</b>	<b>FYBcom</b>	<b>Baseball</b>
a. Intercollegiate Baseball Competition		Bronze Medal
<b>5. Dudhale Aishwarya Santosh</b>	<b>FYBA</b>	<b>Baseball</b>
a. Intercollegiate Baseball Competition		Bronze Medal
<b>6. Najare Shreya Balasaheb</b>	<b>FYBsc</b>	<b>Baseball</b>
a. Intercollegiate Baseball Competition		Bronze Medal
<b>7. Dahikamble Sonita Uttam</b>	<b>MCom</b>	<b>Baseball</b>
a. Intercollegiate Baseball Competition		Bronze Medal
<b>8. Karanjawane Shravni Bhanudas</b>	<b>FYBcom</b>	<b>Baseball</b>
a. Intercollegiate Baseball Competition		Bronze Medal
<b>9. Ranawade Apeksha Arun</b>	<b>SYBA</b>	<b>Baseball</b>
a. Intercollegiate Baseball Competition		Bronze Medal

<b>10. Bhosale Prathibha Balaji</b>	<b>TYBA</b>	<b>Baseball</b>
a. Intercollegiate Baseball Competition		Bronze Medal
<b>11. Phalke Shwetali Sanjay</b>	<b>SYBcom</b>	<b>Baseball</b>
a. Intercollegiate Baseball Competition		Bronze Medal
<b>12. Shinde Sunil Hanmant</b>	<b>SYBA</b>	<b>Softball</b>
a. Intercollegiate Softball Competition		Bronze Medal
<b>13. Kulkarni Akshay Anant</b>	<b>TYBcom</b>	<b>Softball</b>
a. Intercollegiate Softball Competition		Bronze Medal
<b>14. Phand Priyawart Purushottam</b>	<b>TYBcom</b>	<b>Softball</b>
a. Intercollegiate Softball Competition		Bronze Medal
<b>15. Karwande Deepak Kisan</b>	<b>TYBcom</b>	<b>Softball</b>
a. Intercollegiate Softball Competition		Bronze Medal
<b>16. Dhadawad Amol Pundalik</b>	<b>MCom</b>	<b>Softball</b>
a. Intercollegiate Softball Competition		Bronze Medal
<b>17. Taware Jayvijay</b>	<b>TYBA</b>	<b>Softball</b>
a. Intercollegiate Softball Competition		Bronze Medal
<b>18. Pailwan Omkar Kisan</b>	<b>MCom</b>	<b>Softball</b>
a. Intercollegiate Softball Competition		Bronze Medal
<b>19. Tak Akshay Sanjay</b>	<b>SYBA</b>	<b>Softball</b>
a. Intercollegiate Softball Competition		Bronze Medal
<b>20. Darakhe Shubham Suryakant</b>	<b>TYBcom</b>	<b>Softball</b>
a. Intercollegiate Softball Competition		Bronze Medal
<b>21. Waghmare Vinayak Gautam</b>	<b>FYBA</b>	<b>Softball</b>
a. Intercollegiate Softball Competition		Bronze Medal
<b>22. Salve Rohan Dinesh</b>	<b>SYBA</b>	<b>Softball</b>
a. Intercollegiate Softball Competition		Bronze Medal
<b>23. Yadav Sunil Surendra</b>	<b>TYBBA(CA)</b>	<b>Softball</b>
a. Intercollegiate Softball Competition		Bronze Medal

<b>Inter Zonal Level Performers</b>		
<b>1. Jadhav Shraddha Santosh</b>	<b>SYBcom</b>	<b>Baseball &amp; Softball</b>
a. Interzonal Baseball Competition		Silver Medal
b. Interzonal Softball Competition		Gold Medal
<b>2. Kolekar Viraj Prakash</b>	<b>FYBA</b>	<b>Wrestling</b>
a. Interzonal Wrestling Competition Third Place		

<b>3. Megha Pardesi</b>	<b>TYBA</b>	<b>Baseball</b>
a. Interzonal Baseball Competition		Silver Medal
<b>4. Krushna Gholap</b>	<b>FYBA</b>	<b>Athletics</b>
a. Poona District Athletic Association Participation		
<b>5. James Thomas</b>	<b>TYBA</b>	<b>Boxing</b>
a. Inter Zonal Boxing Competition BJS College Wagholi		Silver Medal
<b>6. Mayur Doke</b>	<b>FYBcom</b>	<b>Boxing</b>
a. Inter Zonal Boxing Competition BJS College Wagholi		Silver Medal

#### State Level Performers

<b>1. Akshay Nimbre</b>	<b>MCom</b>	<b>Baseball &amp; Softball</b>
a. Softball States Sangali Participation		
b. Interzonal Baseball Competition Nasik Participation		
c. Interzonal Softball Competition Indapur		Gold Medal
d. Intercollegiate Softball Competition BMCC		Bronze Medal
<b>2. Nikhil Jagtap</b>	<b>MCom</b>	<b>Baseball &amp; Softball</b>
a. Softball States Sangali Participation		
b. Intercollegiate Softball Competition BMCC		Bronze Medal

#### National Level Performers

<b>1. Aditi Kale</b>	<b>TYBcom</b>	<b>Cricket &amp; Baseball</b>
a. West Zone Inter University Cricket SRTM Nanded Participation		
b. Maharashtra Cricket Association Invitations (States) Dhule		Gold Medal
c. Inter Zonal Cricket Competition PVP Pravanagar		Gold Medal
d. Inter Zonal Baseball Competition Baramati		Silver Medal
e. Inter Collegiate Baseball Competition Azam Camp		Bronze Medal
<b>2. Abhishek Patil</b>	<b>FYBcom</b>	<b>Weightlifting</b>
a. All India University Chandigarh Participation		
b. Inter Zonal Competition Pathrdi(Nagar)		Gold Medal
<b>3. Utkarsh Morankar</b>	<b>SYBcom</b>	<b>Gymnastics</b>
a. All India University Gymnastic Kurukshetra Participation		
b. Inter Zonal Competition PVP Pravanagar Participation		
<b>4. Himanshu Gabhane</b>	<b>SYBA</b>	<b>Gymnastics</b>
a. All India University Gymnastic Kurukshetra Participation		
b. Inter Zonal Competition PVP Pravanagar Participation		
<b>5. Mugdha Patil</b>	<b>SYBCom</b>	<b>Rhythmic Gymnastics</b>

<ul style="list-style-type: none"> <li>a. All India University Gymnastic Kurukshetra Participation</li> <li>b. Inter Zonal Competition Poona College Participation</li> <li>c. Inter Collegiate Competition Agashe College Participation</li> </ul>		
<b>6. Rushikesh Chaudhary</b>	<b>SYBBA(CA)</b>	<b>Volleyball</b>
<ul style="list-style-type: none"> <li>a. West Zone Inter University Participation Jablpur (Rajasthan) Participation</li> <li>b. Ashwamedh Inter university Maharashtra Dapoli <span style="float: right;">Gold</span></li> <li>c. Maharashtra Volleyball Association U-21 Satara <span style="float: right;">Silver</span></li> <li>d. Maharashtra Volleyball Association Senior Panhala Participation</li> <li>e. Inter Zonal Volleyball Competition Baramati Participation</li> </ul>		
<b>7. Rushikesh Patil</b>	<b>SYBcom</b>	<b>Cycling</b>
<ul style="list-style-type: none"> <li>a. All India University Road Event Bikaner Participation</li> <li>b. 33<sup>rd</sup> National Track Championship New Delhi Participation</li> <li>c. 22<sup>nd</sup> Road National Championship Jamkhandi Participation</li> <li>d. All India University Track Event(Elimination) Chandigad Participation</li> <li>e. All India University Track Event(Point Race) Chandigad Participation</li> <li>f. All India University Track Event(Team Pursuit) Chandigad Participation</li> <li>g. Best Sports Person of the Year</li> </ul>		

### Shiv Chhatrapati Awardees

This year on 18th February 2018 following students of our college has been conferred by Shiv Chhatrapati award by Maharashtra Government which includes Rs 1 Lakh Cash prize, Certificate and Memento. Their short information is as follows;

<b>1. Milind Zodage</b>	<b>Cycling</b>	<b>Shiv Chhatrapati Awarde 2014-2015</b>
<ul style="list-style-type: none"> <li>a. National Cycling Players</li> <li>b. Coach of almost 10+ National and International Players</li> <li>c. Pune University Cycling Team Captain for 3 Years General Championship</li> </ul>		
<b>2. Chandrakant Manwadkar</b>	<b>Athletics</b>	<b>Shiv Chhatrapati Award 2014-15</b>
<ul style="list-style-type: none"> <li>a. 26<sup>th</sup> National Junior Athletics Competition Gold Medal</li> <li>b. 45<sup>th</sup> Junior National Cross Country Competition Silver Medal</li> <li>c. 46<sup>th</sup> National Cross Country Competition Pune Gold Medal</li> <li>d. 54<sup>th</sup> National Athletics Competition Bronze Medal</li> <li>e. 34<sup>th</sup> &amp; 35<sup>th</sup> National Games Participation</li> </ul>		

<b>3. Abinandan Bhosale</b>	<b>Cycling</b>	<b>Shiv Chhatrapati Award 2014-2015</b>
<ul style="list-style-type: none"> <li>a. 56th School National Competition Silver Medal</li> <li>b. 15th Junior National Road Race Competition Silver Medal</li> <li>c. All India Inter University Cycling Competition Bronze Medal</li> <li>d. 16th Junior National Road Race Competition Bronze Medal</li> <li>e. 17th &amp; 18th Senior National Road Race Cycling Competition Participation</li> <li>f. 19th Senior National Road Race Cycling Competition Silver Medal</li> <li>g. 35th National Games Kerala Bronze Medal</li> </ul>		
<b>4. Preetali Shinde</b>	<b>Cycling</b>	<b>Shiv Chhatrapati Award 2014-15</b>
<ul style="list-style-type: none"> <li>a. Junior Track National Competition (2010-2011) Silver Medal</li> <li>b. 16th National Road Race Championship (2011-2012) Silver Medal</li> <li>c. 19th National Womens Road Race Cycling Competition Silver Medal</li> <li>d. 35th National Games Participation</li> </ul>		
<b>5. Shraddha Talekar</b>	<b>Gymnastics</b>	<b>Shiv Chhatrapati Award 2015-2016</b>
<ul style="list-style-type: none"> <li>a. 53rd Senior National Artistic Gymnastics (2012-13) Patiyala Gold Medal</li> <li>b. 54th Senior National Artistic Gymnastics (2013-14) Ranchi Gold Medal</li> <li>c. 35th National Games Kerala Silver Medal</li> <li>d. 55th Senior National Artistic Gymnastics (2015-2016) Gudgaon Silver Medal</li> <li>e. ICSR &amp; Best Sports Person of the Year Award of the College.</li> </ul>		
<b>6. Pawanraj Patil</b>	<b>Gymnastics</b>	<b>2015-2016 Shiv Chhatrapati</b>
<ul style="list-style-type: none"> <li>a. 53rd Senior Artistic Gymnastics Competition 2012-2013 Patiyala Bronze Medal</li> <li>b. 54th Senior Artistic Gymnastics Competition 2013-2014 Ranchi Bronze Medal</li> <li>c. 55th Senior Artistic Gymnastics Competition 2015-2016 Gudgaon Bronze Medal</li> </ul>		
<b>7. Harshad Wadekar</b>	<b>Wight lifting</b>	<b>2016-2017 Shiv Chhatrapati</b>
<ul style="list-style-type: none"> <li>a. 50th Junior National Weight Lifting Competition- 2012-13 Aasam Participation</li> <li>b. 67th National Weightlifting Championship 2014-15 Jaipur Participation</li> <li>c. 68th Senior National Weightlifting Championship 2015-16 Patiyala Silver Medal</li> <li>d. 69th Senior National Weightlifting Championship 2016-2017 Bronze Medal</li> </ul>		

**Dr. Deepak Shendkar**  
HOD, Department of Physical Education



Intercollegiate Basketball Winner Team 2017-2018



Interzonal Basketball Tournament Opening Ceremony 2017-2018



Intercollegiate badminton winner team 2017-18



Annual Sports 2017-2018 Opening at Volleyball Ground by Vice Principal Dr. Shubhangi Joshi.



Modernshree



## ARTS CIRCLE

### The Cultural Platform of the College

Arts Circle is the cultural platform of the college which is established for students to exhibit their skill and talent related to Dance, Drama, singing, poetry.

### Cultural activities conducted in academic year 2017-18

Drama, Music and Dance competitions were organized to encourage students for performing arts. External experts in the related field had judged the competitions. The winners of the competitions were felicitated in the Annual Prize Distribution Ceremony of the college. The details of competitions are as follows .

**Drama competition -Judges** Mr. Shashikant Thosar  
Mr. Sahil Kamble (Mr. Sahil Kummar)  
**Winners-** Mukta Salokhe – I Ajay Lokhande – II

**Singing/music-Judge-**Dr. Sagar Kanekar  
**Winners-**Nileshwari Mudel-I, Anuja Shinde-II,  
Ashiwarya Thombare-II, Pramod Behera-III,  
Priyanka Pawar-III

**Dance-Judge-**Ms.Teashree Gughale **Winners-**  
Shubbham Lukkad–I, Ajay Lokhande–I,Sanket  
Dhuke– II, Manish Singh– III, Akshay Shetke– III,  
Prajakta Kamble- Consolation

**Workshops were organized for enhancing the skills of students in performing arts.**

### Music

Two workshops related to music were conducted . The resource person for the workshops was Mr. Tushar Rithe a well known music teacher with expertise in the light music field.

### Drama:

Two workshops related to drama and one interactive session on acting in short films and films was organized.

The first workshop “Orientation workshop for basic skills in Drama” was conducted by resource person Deepali Awakale.

The second workshop about detailing in acting , script writing and team building was conducted by Mr. Madhav Jogalekar,

Mr. Shashikant Thosar, Mr. Sahil Kamble ( Mr. Sahil Kummar) had conducted interactive session on acting in short films and films

### Dance

Workshop and dance competition was organized in which students were guided by Ms. Teashree Gughale

As a result of encouragement , training sessions and workshops conducted in the college, many students had participated in different competitions organised by external agencies and some of the students have won the prizes in these competitions .

### STUDENTS ACHEIVMENTS

- Best student of Arts Circle-Kanchan Sawant for contribution in Music and Drama .
- Elite' singing competition organized by Lions Club Pune - First prize - Satish Shirsath, **Third prize** among girls-Nileshwari Mudel, Consolation – Kanchan Sawant
- Vedant' competition organized by B. J. Medical college, Pune. First prize-Kanchan Sawant, Saivibhuti Patil
- Explorica 2017 singing competition organized by Maharshi Karve Shikshan Samsthas Shri Siddhivinayak College-2<sup>nd</sup>rank Saurabh Kulkarni
- Minerva, competition organized by ISB and M college of commerce-Runner up prize-Satish Shirsath
- Samrath Ashok Sangha- Special appreciation for singing - Satish Shirsath
- Alacrity, National Level Competition organized by AISSMS IOIT- First prize in singing - Satish Shirsath
- Super singer competition conducted by radio city-Prize -Nileshwari Mudel

- Savitri Jyotiba Samata Utsav-Natyavishkar competition based on social reformers organized by 'Milun Saryajani' team including Ms. Vidya Bal And Mr. Madhav Vaze- Special appreciation to the team
- IIPAR International Theater Festival Natyavachan-' Raigadala Jevha Jagg Yete' - Vachik Naipunya-Prathamesh Sawant and Gauri Thoke
- Samatha Karandak, Satara-Drama -Emptyness- Abhinay Naipunya -Esha Vetel

Program Loknayak was jointly organized by publicity committee of college and arts circle in association with TV9 Marathi regional news channel to spread the importance of folk music and to bring folk song lyricist and singers in limelight, and the same was telecasted on the channel.

Apart from this students had also performed in the following program and their performances were well appreciated by the participants and guests.

- Anandostave - Jubilation organized by progressive education society
- Silver Jubilee Function of P.E.S. Modern College Ganeshkhind .
- VIVIDHHA – event organized By P.E.S. Modern College Ganeshkhind and Modernites –Alumni Association
- National Conference organized by Chemistry Department
- International Conference organized by Zoology Department.
- Event organized by Psychology Department

Committee members, Coordinators of different activities and alumni had great contribution in organizing all the events and activities.

**Prof. Prasad Desmane**  
Co-ordinator



Drama Workshop



Students Achievements in Elite singing competition



Participation in Cultural Program

## Alumni Association - Modernites

Modernites is a registered alumni association of P.E. Society's Modern College of Arts, Science and Commerce Ganeshkhind Pune. It aims at enhancing employability and entrepreneurial skills amongst youth by collaborating with the college for various events so as to bridge the gap between academia and corporate. In the academic year it has contributed in the following way.

### Endowment Scholarships

Alumni of various faculties have supported to the deserving students by way of scholarships and awards through a interview process of selecting deserving candidate out of nominations received. It has facilitated them to continue their higher education .The total amount of scholarships under Modernites is RS 41,789/only.

#### 1. Atal Scholarship

Anand Parchure our science alumnus has instituted scholarship which is known as 'ATAL SCHOLARSHIP'. Total amount of RS.15,000 which is equally distributed amongst the following students.

1. Mr. Shubham Katala, BA 2. Ms.Gunthe Kusum, BA, 3.Mr.Shankar Gunjkar, B.COM, 4. Ms. Dhangar Tejal, BCOM, 5. Mr. Meshram Santosh, BA

#### 2. Nisal Scholarship

Amey Nisal our commerce alumnus has instituted scholarships which is known as 'NISAL SCHOLARSHIP' .Total scholarship is RS.9,000 which is equally distributed amongst the following students.

1.Mr.Yogesh Kotkundwar..BA, 2. Ms. Abhilasha Gaikwad..MCOM, 3. Mr. Gaikwad Tukaram..BA

#### 3. Gollapudy scholarship

Mr. Sandeep Gollapudy of commerce faculty has instituted two scholarships. The first scholarship was instituted in the memory of his father and the second is in the name of his mother which is popularly

known as 'Gollapudy scholarship.' It is given out of the accrued interest out of the fixed deposit kept in the name of him and the principal. The first scholarship is given to the deserving student of commerce faculty only and the second scholarship is given to the deserving student of any faculty.

Gollapudy scholarship II of Rs. 8,159 is distributed equally amongst the following students.

1 .Vaijanath Sawrtoe, Bsc 2. Shivshakar Mhetre..BA  
3. Bandal Yogesh, BCOM Gollapudy scholarship I of Rs.2,130/only is given to the following student of Mcom second year.

1. Mr. Kharade Ganesh

#### 4. Prerana Puraskar

In the academic year the alumnus of the Arts Faculty Ms. Jyoti Mungse instituted 'PRERNA PURASKAR' to the deserving student of second year Arts faculty. The student was selected through a interview process. She has kept life time fixed deposit in the name of her father and principal of Rs. 40,000/only. The selected student-Mr. Kailash Salve received Rs. 2,500 and memento as a Prerana Pursakar during the prize distribution ceremony.

#### 5. Janeev Scholarship

One of the alumnus of Arts faculty has given the scholarship of Rs. 5,000/only which is known as 'Janeev Scholarship'. The following students received the scholarship.

1.Mr. Shinde Rohidas Balu. SYBA. Eco..  
2.Yogesh Kotkondawar. SYBA. Socio

#### Vividhaa an exhibition cum sale

It is one of the objectives of association is to inculcate entrepreneurial culture amongst youth. So far this association has encouraged 10 entrepreneurs through this platform. Association also helps our youth to acquire employability skills and business skills. In order to inspire youth towards entrepreneurship Modern college Ganeshkhind in collaboration with Alumni association organizes VIVIDHAA Exhibition cum sale on the occasion of Swami Vivekand Jayanti. During this event Rs. 39,900 as membership corpus to support this event

was raised. Board of Students Welfare Savitribai Phule Pune University has also supported the collaborative effort of College and alumni association.

In the academic year 2017-18 Modern college has organized collaborative platform of exhibition cum sale-“VIVIDHAA” on the theme Diversity to Integrity. Our college seeks the expertise of alumni association for training and exhibiting the entrepreneurial talents through exhibition. All the events were organized in the line of this theme.

#### **A. Training And Mentoring:**

Our alumnus Ms. Jasmin Shaikh gave training to the interest students how to prepare herbal products and its packing. She had also guided on preparation of jewellery. During training our students got orientation on sources of various raw material supply agencies, deciding its costing, profit margin and marketing. She has agreed to design the short term courses on her expertise areas in future also.

#### **B. EXHIBITION CUM SALE:**

The students who got training and the other interest students participated in enrolling their names for exhibition cum sale by forming a group four students. They had exhibited their talents in the areas of Handicrafts, jewellery, food and beverages, dress materials, writing skills and investment awareness in the area of life insurance Company etc. As this year the theme of vividhaa was Diversity to integrity therefore out of state of students and foreign students also had their active participation especially in the food category which is the specialty of their state. We had given one stall to social institute

Around 124 students participated in this event. The performance of the students was judged by evaluating them on various parameters. The winners were awarded under the category of food Maharashtra and food of out of Maharashtra and handicrafts. The stall evaluation was done by alumni like Ms. Jasmin Shaikh and Mrs. Vanita Jadhav.

The inauguration of the event was at the hands of Mr. Nandakumar Sutar chief executor of Sakal Newspaper Ltd. On 11<sup>th</sup> Jan 2018. The function was

compeered by Prof. Parag Shah. He had appreciated the contribution of alumni association at such college platforms as mentors of youth.

#### **C. MODER CHEF:A RECEIPE COMPETITION**

Our college is unique to organize this competition for all stake holders of the college like students, alumni, teachers, non-teaching staff and parents in association with BVOC department. The participants were supposed to demonstrate their recipe skills by preparing any famous food items that represent the different states. There was a huge response of about 75 participants. This competition was coordinated by Mrs. Mrunal Pardeshi and Mrs. Kiran Kolharkar. The evaluation was done by our alumni Mrs. Jaya Ghate and Prjwal Vipat

#### **D. POSTER COMPETITION**

On the theme of DIVERSITY TO INTEGRITY the poster competition was organized. Students presented different thoughts and ideas through the poster presentation. This competition was coordinated by Prof. Abnave Chhaya.

#### **E. C. OPEN FORUM**

Every year 'Open forum: Yashogatha' A dialogue with well placed alumni in various fields' is organized to provide an opportunity to the present students to discuss with alumni on the various issues on the respective areas. This year it was organized on 12th Jan 2018. The invitee alumni were Mrs. Bhakti Ratnaparakhi comedychi bullet train T.V. Serial fame, Mr. Moshin Shaikh Reporter Pudhari newspaper, Mrs. Shashikala Patil, PSI Mumbai, Dr. Shrikant Pawar Scientist NCCS Pune and Dr. Rakesh Joshi Academician. This platform was coordinated by Prof. Vaishali Shitole and her team. The interview was taken by second year student of Microbiology Ms. Tejaswini Baber and second year student of Arts Faculty Mr. Sidharth Shelke.

#### **F. RANGATARANG A CULTURAL PLATFORM**

Arts circle of our college had organized Rangatarang a cultural program for the present students of the college. They performed songs, one act play and drama. This program was coordinated by Prof.

Deshmane Prasad Incharge of Arts Circle. About 60 students performed their art.

### G. STREET PLAY

On our theme three groups have performed street plays to spread the message on how diversity leads to integrity. The team of Physics Department won the competition. This event was coordinated by Prof. Deepali Tamhane and Prof. Vedant Mule. Our alumnus Mr. Nikhil Khaire was the judge of this event.

### H. ALUMNIMEET

Alumni meet under the banner of ALUMNI POWER was organized on 13th Jan 2018. Around 300 alumni were present for the meet. The present students of Arts circle presented the cultural event of 'COLOURS OF MODERN' during this event and Mr. Rahul Khatavkar, Mrs. Vidya Hajare, Mr. Vishal Mundata alumni expressed their feelings towards college.

This program was coordinated by Dr. Jyoti Gagangras, Mr. Kiran Desai, Vice President of Modernites and Ms. Vijayalaxmi Kulkarni.

The total direct and indirect corpus raised by Modernites in the academic year is Rs. 81,689/only.

**Ms. Vjiayalxmi Kulkarni**  
Secretary-modernites

**Mr. Kiran Desai**  
Vice President-modernites



## All India Essay Writing Competition

(SRCM & United Nations Information Centre, India & Bhutan)

Shri Ramchandrar Mission in association with United Nations Information Centre, India & Bhutan, had organized 'All India Essay Writing Competition' in which 32 students from different faculties of the College participated. Topic for the essay competition was on the quote of famous physicist and cosmologist Late Dr. Stephen Hawking; *"The greatest enemy of knowledge is not ignorance, it is the illusion of knowledge"*.

**Mr. Tukaram Gaikwad, from TYBA stood 5<sup>th</sup> at All India Level.**

Mr. Laxminarayan B. Sharma, FYBSc. (Comp. Sc.), Ms. Joshi Kamakshi C., TYBA, Ms. Tapkir Nikita R., FYBSc., Ms. Devyani Vijay Shinde MSc. (Comp. SC.) other winners.

Mr. Sarang Matapurkar of SRCM was in-charge for the competition. Dr. Jyoti Gagangras, Vice-Principal (Arts), Dr. Abaso Shinde and Ms. Chaitali Makashi motivated the students to participate in the competition. Dr. Sanjay Kharat, Principal was a constant inspiration for the students.

**Dr. Abaso Shinde**  
Co-ordinator



All India Essay Writing Competition Winner

## 'Pride of Modern' -The Best Student Trophy Competition

A prestigious competition of the college, 'Pride of Modern'-The Best Student Award is awarded to a student who is academically sound, and has made remarkable contribution in sports, cultural and co-curricular activities. He must also be soft-spoken, polite, well-behaved, responsible and an asset to his alma-mater.

The candidates are judged on the basis of an aptitude test followed by a Preliminary Interview. Shortlisted students are then interviewed by a panel comprising of an external expert, the Principal and the Vice Principals of all the three streams. This year we had with us Dr. Prakash Dixit as our external expert.

Based on the scores given by the Panel of interviewers, Shubham Kathale of T.Y.B.A. was declared the proud recipient of the Best Student Trophy for the academic year 2017-2018.

The award comprises of a Rolling Trophy, a memento, a certificate and cash award of Rs.1000/-.

**Dr. Shampa Chakraborti**  
Chairperson, Best Student Award Committee

## Board of Students Development

Following schemes for the development of the students in our college under Board of Students Development, S.P. Pune University, were implemented during the academic year 2017-18.

### 1. Karmaveer Bhaurao Patil Earn and Learn Scheme:

In this scheme 72 students worked in the college office, library, science departments, laboratories, nursery and garden during the college hours. There were 29 girl students and 43 boy students who worked for about 2 to 3 hours. They were paid Rs.45/- per hour. The students earned and got the experience of working and realize the significance of labour.

### 2. Vidyarthini Vyaktimatva Vikas Yojana:

Activities for women empowerment and personality

development for girl students were conducted in the college by Vidyarthini Manch.

A Two days program was organized on personality development on 21 December 2017. First session was conducted by Mr. Dattaray Jagdale who spoke on “*Importance of Mahila Udyog Lizzat Papad*” and motivated the students to develop entrepreneurial skills. Second session was taken up by Mrs. Madhavi Sood and discussed with students about the importance of communication skills and development. On 30<sup>th</sup> December 2017, First session was on Women related diseases and homeopathic treatment was conducted by Dr. Shama Mahajani Khadilkar. Second session was taken up by Dr. Suvarna Bobade and Dr. Sadhana Natu conducted a session on pre-marriage counseling.

Another program was organized on 21<sup>st</sup> and 30<sup>th</sup> December 2017 for the girls. Dr. Jyoti Gagangras, Vice-Principal, Arts, delivered a lecture on “*Anti Ragging*” in the first session. In the second session, Dr. Sadhana Natu, Head, Department of Psychology spoke on “*Sexual Harassment*”. Around 155 girls attended the program.

### 3. Nirbhay Kanya Abhiyan:

Following three programs were organized under this scheme-

**Karate Training:** On 5<sup>th</sup> February 2018, in the first session, Mrs. Sharada Najan and Sonali Nichit provided the training session on self defense and other basic Karate skills. During the second session Alka Joshi guided the student to raise the voice against eye teasing and sexual abuse.

**Anti-Ragging:** On 8<sup>th</sup> February 2018, Dr. Jyoti Gagangras addressed the students on the topic of Anti-Ragging. Around 131 girl students participated in the program.

In the second session Advocate Sunita Jangam created the awareness among students about the laws of women rights against violence and exploitation. Around 100 girl students participated in the program.

### Modern Plant Nursery:

To create and realize the importance of plants in environment, a Nursery was established in the month of December 2017. Indian plants like Kadulimb, Tamarind, Gulmohar, Jamun, Kailashpati Kavati, Bakul, Bel, Ashwagandha etc. That are on the verge of getting extinct are planted in the nursery. Various other decorative plants from the nursery are given to Banks, government offices, colleges etc. on rental basis. Prof. Rajkumar Gandhale from Department of Sociology and Dr. Prachi Kshirsagar from Department of Botany are in-charge of the nursery. 10 Earn and Learn students work in the plant nursery

### Other Activities organized under Board of Students Development:

1. Students Economics Conference
2. Environmental Study through Trekking
3. Workshop on Guidance for Project Report Writing
4. Job Fair for UG & PG Students of Arts, Science and Commerce
5. Life Skills, Goal Setting and Stress Management
6. Swar Madhuri
7. Growing Importance of Media and New Challenges
8. New Avenues in Social Work
9. Hands On Training Workshop on Arduino Board and its Applications
10. Literary Carnival
11. INTERACTION 2017
12. Soft Skills Workshop
13. Kaun Banega History Scholar?
14. Exhibition Shivakalin Weapons
15. Guidance Lecture Series in Physics for Preparation of IIT Exams
16. MAGNIT

17. Entrepreneurship Development Program and Be an Entrepreneur

**Programs conducted as per Government & UGC guidelines:**

1. **Van Mahotsav:** Staff and students of the college planted around 160 saplings of various varieties like kadulimb, gulmohar, tamrind etc. on 05<sup>th</sup> July 2017 at Modern Agriculture and Biotechnology College Kule, Dakhane, Paud Road, Pune.

2. **Anti-Ragging:** An Anti-Ragging committee at the college level was formed for the academic year 2017-18. The committee worked throughout the year and attended and resolved the ragging cases.

3. **Swachh Bharat Abhiyan:** This program was organized from 23<sup>rd</sup> September to 29<sup>th</sup> September 2017 during the Navaratri festival. NSS volunteers collected flower and garlands offered to the goddess Chatushrungi and used them as organic fertilizers to the plants and trees on the hill of Chatushrungi.

4. **National Unity Day:** Sardar Vallabbhai Patel birth anniversary was celebrated on 31<sup>st</sup> October 2017. Dr. Sanjay Kharat, Principal spoke on the occasion. Earn and Learn and NSS students participated in the program. Library Department of the college organized the program.

5. **National Constitution Day:** On 26<sup>th</sup> November 2017, the National Constitution Day was celebrated. Gauri Kopardekar, Head, Department of Political Science was the keynote speaker.

6. **Marathi Bhasha Gaurav Din:** On 27<sup>th</sup> February 2018, Book exhibition, Poetry Reading and Quiz competition was organized by Dr. Sanskriti Awalganekar, Department of Marathi and Library. The play "Raigadala Jewha Jag Yete" was read on this occasion. A quiz on Marathi language and literature was also organized.

7. **College Magazine - "Akanksha",** the college magazine, Participated in District and University Level College Magazine competition for the year 2017-18

**Sandeep Sanap**  
Co-ordinator



## Annual Report of Competitive Examinations Guidance Cell (CEGC)

### Inauguration of the Cell : 10<sup>th</sup> July 2017

Inauguration of the Cell at the hands of IAS Mr. Abhay Soni , Mr. Bhushan Prabhu, Mr. Manjunath Jadhav , Innovative Head, Gita Youth Society for Transformation( GYST) and Vice Principal Dr. Jyoti Gagangras. Mr. Abhay Soni guided the students on UPSC Syllabus, its exam pattern, different study techniques, etc. He gave information about different posts in Civil services where students are placed through UPSC exam. Through his experience sharing he made students aware about skills required for success. He also suggested students to have academic approach while using social media. Vice Principal Dr. Jyoti Gagangras motivated students to actively participate in various competitive exams

and increase the number of Maharashtra people working in civil services.

**Study Circle :** Ms. Yogita Shah, member of the cell guided students on Mathematics and Statistics while Mr. Govind Kamble, member of the cell provided guidance to students on Mental Ability through the study circle throughout the year. This helped students in solving problems and papers. Also individual queries were solved.

**Grand Book Exhibition : 29<sup>th</sup> November 2017**

The cell has organized a Grand Book Exhibition with collaboration with college Library. The book vendors /dealers made the variety of books available for students and staff at considerable discount rates.

**National Level General Knowledge Test : 5<sup>th</sup> January 2018**

The Cell conducted National level General Knowledge Test jointly with Bharati Vidyapeeth's Y.C. Mohite College, Pune. 23 students participated in the exam.

**State Level Graduate Excellence Examination : 11<sup>th</sup> February 2018**

The Cell conducted State level Graduate Excellence Examination jointly with Centre for Talent Search and Excellence, Wadia College, Pune. 24 students appeared for this exam.out of which 6 students received state level prizes. The details are as follows

**RESULT of GEE -2018**

Sr.	Name of the student	Class	Rank	Prize Details
1	Taur Satish Pandurang	FYBA	1st	State Scholarship
2	Hange Deepak Bhagwat	SYBA	2nd	State Scholarship
3	Tamboli Jishan Jamal	SYBA	3rd	State Scholarship
4	Nikam Sujit Mansing	FYBA	-	Special Prize

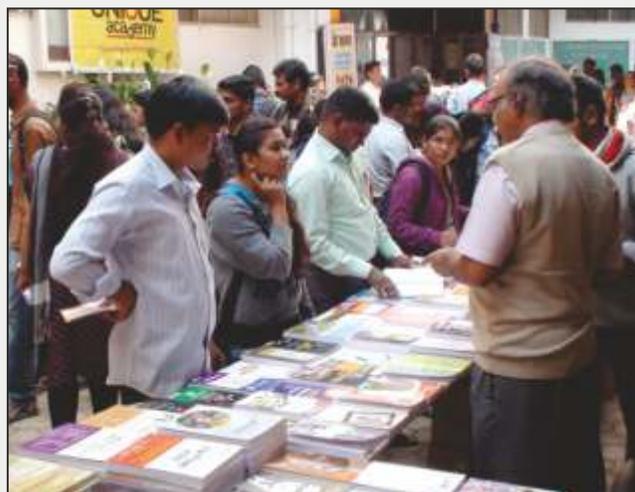
5	Bundela Shivani Patipal Singh	FYBA	-	Consolation Prize
6	More Maya Bhausahab	SYBA	-	Consolation Prize

Committee Members Prof. Motilal More , Prof. Chhaya Abnave, Prof. Yogita Shah and Prof. Vinod Kamble participated actively in conducting all the above mentioned events.

**Mrs. Jayshree Jain**  
Co-ordinator CEGC



Inauguration of Competitive Examination Guidance Cell



Grand Book Exhibition

## Counseling Cell

The Counseling Cell has been operational for 25 years. It offers a range of services like Individual One on One Psychological Counseling, conducting Study Skills and Life Skills, workshops, conducting sessions on vocational guidance and premarital education. These activities are conducted by the Department of Psychology.

The details about this year's functioning are as follows:

### STUDENTS ACHIEVEMENTS

- In the academic year 2017-18, 24 students from Arts, Science and Commerce faculty benefited from one on one counseling services.
- The total number of one on one counseling sessions conducted were 50 sessions.
- Life Skills, Goal Setting and Stress Management' by Dr. Sadhana Natu was conducted for 91 students from Microbiology.
- Study Skills Workshop' was held for 78 students of Biotechnology by Dr. Suvarna Bobade.
- Pre Martial Counseling' by Dr. Suvarna Bobade was conducted for Vidhyartini Manch was attended by 32 students.

### STAFF ACHIEVEMENTS

- A session on 'Work Life Balance: Dealing with Stress and becoming a Professional' was conducted for the female staff of the college by Dr. Sadhana Natu.
- A session on 'Conflict Resolution at the Workplace' was conducted for the faculty members of Department of Computer Science by Dr. Sadhana Natu.

### AWARENESS ACTIVITIES

- Putting up Posters in English and Marathi providing information about the Counseling Cell at all locations across college.
- World Suicide Prevention Awareness Drive in college.

- A stall of the counseling cell was put up at PSY WORLD the Psychology Fair where information about counseling services was provided. Students could also come and register themselves, ask queries and clarify their doubts.
- Few students conducted a small survey about the awareness of the counseling cell among students from all 3 faculties.
- A stall providing information on Disha, the Peer Counseling group was put up at the State Mental Health Conference organized by Disability Commissioner, Govt. of Maharashtra in Pune.

### Outreach:

- Ummeed - The college community mental health program was conducted thrice in the year for library staff, peons and also security staff. The sessions were on **Self Care**: which includes diet and food habits, exercise, discussion on hobbies and relaxation techniques.

Thus in total 225 students, 35 staff members and 20 tertiary staff benefitted from the services provided by the Counseling cell.

- Dr. Sadhana Natu was assisted by Dr. Suvarna Bobade in Counselling and conducting workshops.

**Dr. Sadhana Natu**

Senior Counselor and Head Counseling Cell.



Staff and Students of Department of Psychology conducting sessions with Library Staff under the College Community Mental Health program Ummeed.



Students of Department of Psychology spreading Awareness through Posters for World Suicide Prevention Day, 10<sup>th</sup> September, 2017.

## Faculty Development Program Funded by UGC, New Delhi.

Modern College of Arts, Science and Commerce organized a Faculty Development Program for its staff which was funded by UGC, New Delhi. Dr. Sadhana Natu coordinated the Program and curated the topics and invited appropriate resource persons with guidance from Principal Dr. Sanjay Kharat. Assistance was provided by Mrs. Dipali Meher and Mrs. Preeti Deshmukh. Experts from different field were called to conduct workshops and orient and update the staff on the new and upcoming challenges and trends in the field of pedagogy. There were Nine sessions conducted ranging on varied topics from interpersonal relationships to globalization of higher education. Brief information about the sessions is given below

### Session I:

**Topic:** Teachers and Administration **Resource Person:** Principal Nandkumar Nikam

### Session II:

**Topic:** Interpersonal Relationships and Harmony In The Workplace

**Resource Person:** Dr. Sushama Bhosale

### Session III:

**Topic:** Role of Teachers in Administration: Current Challenges

**Resource Person:** Dr. Arun Adsul

### Session IV:

**Topic:** Administrative Responsibility of Teachers in Institutional Functioning

**Resource Person:** Prof. Shamkant Deshmukh Secretary, P. E. Society, Vice Principal Modern College Shivaji Nagar

### Session V:

**Topic:** How to communicate Effectively with Students **Resource Person:** Principal Dr. Ashok Thorat

### Session VI:

**Topic:** Role of Teachers in Interdisciplinary Research **Resource Person:** Hon. Dr. Wasudeo Gade (Former Vice Chancellor SPPU, Pune)

### Session VII:

**Topic:** Globalization of Higher Education

**Resource Person:** Hon. Dr. G.R. Ekbote (Chairman, P.E. Society, Pune)

### Session VIII:

**Topic:** Interdisciplinary Research: Need of the Hour **Resource Person:** Dr. Nilangi Sardeshpande Researcher, (CEHAT- SATHI)

### Session IX:

**Topic:** Innovations in Teaching Pedagogy

**Resource Person:** Dr. Aditya Abhyankar, Dean Technology, HOD, Department of Technology, Savitribai Phule Pune University

**Dr. Sadhana Natu**  
Co-ordinator



Hon. Chairman Dr. G. R. Ekbote speaking on 'Globalization of Higher Education' at the Faculty Development Program.



Former VC, SPPU, Dr. Vasudev Gade speaking on 'Importance of Interdisciplinary Research' at the Faculty Development Program

## Gender Champions Club

- **Gender and Development** an UG Certificate course was conducted in collaboration with Women's Studies Center, SPPU. There were 21 students enrolled in the course.
- **Public Lecture: Women in Kathak by Avantika Shukla, Wardha University:** The Women's Studies Center, SPPU and the Department collaborated to conduct this lecture.
- **'Understanding Feminism'** by Dr. Sadhana Natu: A workshop was held to introduce and clear misconceptions about Feminism.
- **'Social Issues in the Present Context':** A group discussion was held with Marathi and English medium students from F.Y, S.Y and T.Y about their concerns regarding social issues including gender issues.
- **International Women's Day:** A discussion was held with students about their ideas of celebrating Women's Day and the history and relevance of celebrating International Women's Day.

**Dr. Sadhana Natu**  
Associate Professor and Head,

## International Students' Cell

The college hosts a number of foreign students from African and Asian countries. We specially organize events to welcome the international student community. The college conducts a variety of programmes to help these international students to mingle with the local student population and thus, tries to facilitate their assimilation. For the academic year 2017-18, 31 students from 16 Countries are studying in the college.

**24 August 2017 :** Meeting with Mrs. Anuja Chakravarty, Sr. Regional Director, ICCR, Pune along with all the ICCR students from the college. Different concerns faced by the students viz. police verification charges, visa related issues, food and city transport, hostel facility were discussed at length. Mrs. Chakravarty appealed students to join the facebook page of ICCR to be in touch with the office and other international students.

**20 September 2017 :** A new initiative of arranging a heritage tour of Pune city was planned by the college. 17 international students got an opportunity to participate in this Pune Darshan Heritage Tour. This was possible due to financial support given by the UGC. Our international students visited a number of monuments, heritage buildings and touristic points in and around Pune City. It was a guided tour in which students got a detailed account of Pune's history and heritage. A teacher from the department of Political Science accompanied the students. Following heritage places were covered in the tour : Pataleshwar Temple & Caves, Darshan Museum, Agakhan Palace, National War Memorial, Shinde Chhatri, Shaniwar Wada, Lal Mahal, Vishrambaug Wada and Dr. Ambedkar Museum on Senapati Bapat Road. The tour combined some museums where audio-visual presentations were organized so as to narrate the historical account while some places were selected as caves and temples displaying cultural heritage of the city. The students enjoyed the tour together as it was facilitated by professionally trained guide and as a comfortable minibus was provided for their transport.

**January 2018:** Vividhaa : A complimentary stall : delicacies were sold, enthused response

Akanksha, the college magazine reserves a special section for these students to introduce their homeland and their culture to their Pune friends

### Student Achievement

Ms. Fathima Shakira, a student of the Second Year in Arts faculty, an ICCR scholar from Sri Lanka was selected as a student representative of the International Students' Centre, SPPU. She ably co-ordinated the International Youth Festival organized by the centre. She had participated in the youth festival in basketball event where her team under her captaincy was the 2<sup>nd</sup> runner up in the tournament.

**Gauri Kopardekar**

Co-ordinator, International Students' Cell



Shaniwar Wada visit



War Memorial

## Indian Red Cross Society

- The Indian Red Cross Society, (Youth Red Cross Society) organized a **One day workshop for Counselors on 12<sup>th</sup> August 2017** in the College. Prof. R.V. Kulkarni, Prof. Kiran Khachekar were Chief Guests and Dr. Sanjay Kharat, Principal, presided over the function. Professors from various colleges participated in the workshop.
- The college in association with **Help the Blind Foundation** distributed **scholarships** to the students on 12<sup>th</sup> December 2017. **Dr. S.N. Umrani, Pro-VC**, Savitribai Phule Pune University, Pune, gave the scholarships of **Rs.5,000/- each to Mr. Mangalbedekar Jalindar Tulsidas, Mr. Kamble Shyam Sudhakar and Mr. Kusalkar Kiran Balu. Ms. Anita Gangadhar Daund received scholarship worth Rs.10,000/-.**
- Dr. Abaso Shinde, Co-ordinator, Youth Red Cross Society participated in a camp for **Disaster Management, First-Aid and Leadership at Khanapur** from 23<sup>rd</sup> to 25<sup>th</sup> January 2018.
- The College received **2<sup>nd</sup> Prize in the inter-collegiate Street Play Competition** organized by Indian Red Cross Society, Pune District. Various other competitions were held in which two students participated in Elocution competition and six students participated in Poster competition. In Essay writing competition fourteen students participated and **Ms. Kamakshi Chandrkant Joshi of TYBA got 1<sup>st</sup> Prize.**

**Dr. Abaso Shinde**

Co-ordinator



A7 Workshop on Indian Red Cross Counselors Training Workshop

## Lifelong Learning and Extension

- A programme on the occasion of **International Literacy Day** was organized on **8<sup>th</sup> September 2017** the College in association with Department of Lifelong Learning and Extension of Savitribai Phule Pune University, Pune. About 105 students attended the programme.

Dr. Dhanjay Lokhande, Director and Head of Department of Lifelong Learning and Extension of Savitribai Phule Pune University, spoke about the differences in literacy rate of various countries. Dr. Manjushree Bobade, Principal, Bharatratna Dr. Babasaheb Ambedkar College, Aundh, Pune was the Chief guest. According to her being literate means to do something innovative for the society which would benefit the society to improve the standard of living. Dr. Snehal Agnihotri, Principal, Dr. D. Y. Patil Arts Science and Commerce College, Pimpri, Pune was the other speaker for the day. She spoke on “Literacy- the need of the hour”.

Dr. Sanjay Kharat, Principal, Dr. Jyoti Gagangras, Vice-Principal, Arts, and Mr. D.R. Pathan, Head, Department of Economics gave their support and guidance for organizing the programme successfully.

- A seminar on “**Employment and Entrepreneurship**” was organized in association with Department of Lifelong Learning and Extension, Savitribai Phule Pune University, Pune in the college on **6<sup>th</sup> February 2018**. About 75 students participated. Mr. Suresh B. Umaap, Divisional Officer, Maharashtra Centre for Entrepreneurship, Shivajinagar, Pune, was the Chief guest. He spoke on various policies related to employment and entrepreneurship. Dr. Dhanjay Lokhande, Director and Head of Department of Lifelong Learning and Extension of Savitribai Phule Pune University, Pune and Dr. Sanjay Kharat, Principal graced the occasion and gave their views on entrepreneurship.

- A seminar on “**Financial Literacy**” in association with Department of Lifelong Learning and Extension, Savitribai Phule Pune University, Pune was organized in the college on **8<sup>th</sup> February 2018**. Dr. D. S. Borkar, Shri Shau Mandir College, Parvati, Shri Dastagir Pathan, HoD, Economics and Mr. Sudhakar Kulkarni, former Bank Officer, IDBI Bank, Pune were the resource persons who spoke on “Tax Structure” and “Investment in Capital Market” respectively. About 109 students participated in the seminar.

**Dr. Abaso Shinde**  
Co-ordinator



Seminar on Employment & Entrepreneurship, Mr. Suresh B. Umaap being welcomed by Dr. Sanjay Kharat, Principal

## NCC

National Cadet Corps is a Tri-Services Organization comprising the Army, Navy and Air Force, engaged in grooming the youth – “The Leaders of Tomorrow” – into disciplined and patriotic citizens.

### Aims and Objectives:

National Cadet Corps is a novel initiative undertaken by the college which aims at inculcating the significance of discipline, patriotism and core values in the young students of our college.

Presently there are 26 students in the college who have sought admission to NCC.

All these students have to participate in weekly parades taken at NCC Head Quarters and at NDA. In

these weekly parades the NCC cadets have to undergo different types of activities like exercises, drills, physical training as well as they have some lectures on discipline and how to perform better in NCC.

Many of these NCC cadets have attended ATC camps held at different places across India. Some of them attended a camp held at Kanhe Phata in October 2013. The cadets participate in a variety of activities in such camps and get a lot to learn from these camps. They participate in competitions, debates and many other activities apart from regular parades and physical training. In a way NCC camps prove very useful to these cadets in the overall process of their personality development.

### Achievements of Cadets:

**1. Sarvesh Navande:** S.Y.B.Sc. (Gen), was awarded GOLD MEDAL by the Hon. Prime Minister of India for being selected as the best cadet, Air Force Wing, Directorate of NCC at the PM Rally Ceremony on 28<sup>th</sup> January 2018. He was also selected for Republic Day Parade on 26<sup>th</sup> January 2018 at New Delhi and also selected for International Youth Exchange Program by NCC.

**2. Saivibhuti Patil:** SYBA, selected for Republic Day Parade on 26<sup>th</sup> January 2018 at New Delhi

**3. Apoorv Satpute:** : SYBA, selected for Republic Day Parade on 26<sup>th</sup> January 2018 at New Delhi

**Prof. S. K. Sanap**  
Co-ordinator



Sarvesh Navande was awarded Gold Medal by the Hon. Prime Minister of India for being selected Best Cadet



Saivibhuti Patil selected for R.D.Parade

## NSS

### Regular activities

The NSS activities for the academic year started on 5<sup>th</sup> July with the /Maharashtra Government initiative to plant 2 crore plants in Maharashtra. As part of our contribution in this initiative our NSS volunteers planted 150 plants at the village Dakhane, near Paudon 7<sup>th</sup> July 2017

The volunteers of the new year NSS unit were selected in first week of August 17.

A blood donation camp was organized on 19<sup>th</sup> August 17 in collaboration with Rotary Club, Baner, Pune and Acharya Anandrishiji Blood Bank and 128 units of blood were donated for the noble cause of social responsibility.

A lecture was organized in the college by the senior Police Inspector of Chaturshrungi Police station for NSS volunteers as a part of Road safety week.

During Navratri Mahotsav from 21 to 30 Sept'17, our 20 NSS volunteers daily collected flowers and garlands offered to Goddess Chaturshrungi and used it as organic fertilizer to the trees on the Chaturshrungi Hill.

College campus cleaning drive was undertaken on the occasion of Mahatma Gandhi Jayanti on 2<sup>nd</sup> October 17

Special winter camp (14 to 20 December 2017)

This year's special winter camp was organized at village Lawarde, near Lawasa city.

### Day 1

The camp was inaugurated at the hands of D.R. Tej Niwalikar sir. Principal Dr. Sanjay Kharat and Sarpanch of the village Lawarde along with the villagers were present for the inauguration ceremony.

### Day 2

Dr. Deepak Shendkar gave Volunteers physical training lessons and explained importance of exercise in our daily life. In work session volunteers undertook the leveling of school ground.

In the afternoon session Dr. Sanjay Patil and Dr. Subhangi Bhatambrekar talked on Environment Preservation and conservation and cyber security respectively.

### Day 3

The volunteers took to village cleaning in the morning session and explained the villagers the importance of cleanliness.

In afternoon session Dr. Joyti Gagangras and Dr. Subhangi Joshi guided volunteers on Motivation and Mr. Murarji Das spoke on leadership development in youth.

The volunteers collected about 9 big bags of plastic through the village.

### Day 4

All village temples were cleaned by the volunteers.

In the afternoon session Prof. Sandeep Sanap guided the volunteers on communication skills.

Dr. B. Sonwane and Mr. Kiran Desai guided the volunteers on experience of NSS and today's youth and social responsibilities respectively.

In the evening an Eye Checkup camp was organized for the villagers by Dr. Mahesh Pawar and Lion's club of Pune.

### Day 5

The volunteers surveyed the village traditions and medical plant in the village area. Dr. Bhugaonkar and Dr. Shakira Inamdar guided the volunteers on Indian trees and powerful India respectively.

### Day 6

The volunteers took the work of bunding on the village runnel. In the evening the volunteers organized get together for women.

Apart from this daily routine full of diverse activities the volunteers also performed every evening at the camp on the various issues like liquor ban, dowry ban, child marriage, environmental awareness, importance of education and government schemes etc. through cultural and educational programmes and skits.

### Day 7

The valedictory program of the camp was organized by the villagers. Honorable Sarpanch, Gram sevak and senior citizens of the village, Principal Dr. Sanjay Kharat were present for the program. The villagers being very happy at the throughout performance of our NSS volunteers, offered valedictory lunch and next year invitation to the college.

**Kumad Sapkal**  
Program Officer

**Rajkumar Gandhale**  
Asst. Program Officer



7<sup>th</sup> July 17 tree plantation Program



Eye Check-up Camp



19<sup>th</sup> August 17 Blood Donation Camp (128 units donated)



NSS Unit - Group Photo



Voters day celebration



N.S.S. Special winter camp 14 December to 20 December 17

## Placement Cell Report

### Activities Conducted During This Academic Year:

In this academic year various placement related activities were conducted in the college to make student realize the industrial environment and the skillset they need to have in order to be employable. Observing the demand for the B.A. and B.Com students, more focus was given to B.A and B.Com students who are mostly required in Banking and Service Industries. It is observed that most of the students in these courses lack in Communication and Presentation skills. Due to this fact they are low in confidence and are unfit to get a job. There was a need to make them aware about the opportunities in specific Fields. Placement cell members decided to introduce the students to industry demand and to make them aware about the expectations of industry from the employees.

### Placement cell activities:

- 1) **Pre-placement Lecture sessions were arranged through UGC sponsored Scheme for Career Development Scheme.** Experts from various field were invited to conduct sessions on Resume Writing, Interview techniques, Personality Development, Careers in Sales and Marketing and careers in Civil services for Arts and Commerce students. Also, Sessions on Resume Writing, Interview techniques, Careers in Life Science, Structural Biology etc. Following tables shows the details about the sessions conducted during the period.

**Following lecture sessions were arranged for the final year students of Arts, Science and Commerce during the period 17<sup>th</sup> July 2017 to 21<sup>st</sup> August 2017.**

### Commerce Stream All T.Y. B.Com

Sr. No	Topic to be covered	Name of the Speaker
1.	"Interview Techniques: How to face an interview?"	Mrs. Sunita Sharma, Freelance Trainer, Nandi Foundation, Pune
2.	Personality Development	Lt. Col. Kumar Fulay, Founder, Colonel's Club
3.	" Resume writing"	Mrs. Snehal Yerawadekar, Freelance Trainer
4.	Careers in Sales and Marketing	Mr. Abhay Kardeguddi, Founder Director NIVA Growth Consultants

### Arts Stream All T.Y. B.A

Sr. No	Topic	Name of the Speaker
1.	" Resume writing"	Mrs. Snehal Yerawadekar, Freelance Trainer
2.	"Interview Techniques: How to face an interview?"	Mrs. Sunita Sharma, Freelance Trainer, Nandi Foundation, Pune
2.	"Careers in Civil Services through MPSC and UPSC.".	Dr. Mithare, H. V. Desai College , Pune
4.	"Careers in Sales and Marketing"	Mr. Abhay Kardeguddi, Founder Director NIVA Growth Consultants

### Science Stream All T.Y. B.Sc.

Sr. No	Topic	Name of the Speaker
1.	" Resume writing"	Mrs. Snehal Yerawadekar, Freelance Trainer
2.	"Interview Techniques: How to face an interview?"	Mrs. Sunita Sharma, Freelance Trainer, Nandi Foundation, Pune
3.	Glimses of Structural Biology	Dr. Nikhil Bharambe, Postdoctoral Research Scholar, Case Western Reserve University, Cheveland , Ohio, USA.
4.	"Scope in the field of Life Science"	Dr. Nikhil Bharambe, Postdoctoral Research Scholar, Case Western Reserve University, Cheveland , Ohio, USA
5.	"Careers in Life Science"	Dr. Sunita Jadhav, Head , Department of Zoology, S.P. College

1) **Interactions with well placed alumni and staff:**

- a. Dr. Shrikant Pawar (Tech. Officer A), Mr. Shreyas Kumbhare, (JRF-ICMR), NCMR, Pune: AMI and its activities.
  - b. Dr. Nikhil Bharambe, Post Doctoral Research Scholar, Case Western Reserve University, Ohio: How to prepare for competitive exams and interviews.
  - c. Mr. Abhijit Kulkarni, Ph. D Student, NCMR, Pune: How to appear for entrance exams with special reference to JGEEBILS.
  - d. Ms. Krutika Lonkar, Project Assistant, NCL Venture Centre: Scope of Microbiology; scope beyond M.Sc. Microbiology in Research and industry.
  - e. Miss Unmesha Thanekar, MS\_Ph. D student (Pharmacology and Toxicology), Wright State University, Ohio, USA, M.Sc II alumni [14-15 Batch]: Importance of research projects and publications for PhD applications.
  - f. Ms. Shruti Goradiya and Ms. Manali Mahajan M.Sc II alumni 14-15 Batch]: How to apply for PhD abroad.
  - g. Mrs. Shweta Inamdar, RGH, Illumina : Next Generation Sequencing.
  - h. Mr. Vishal Phalke, Senior Scientist, Aquatech Asia Pvt Ltd: Waste management systems.
- 2) Life skills workshop on life skills, goal setting and stress management for PG and UG students.
- 3) Informing students and ex-students about opportunities in Research, industry and teaching via Whatsapp groups and advertisements.

**1<sup>st</sup> MEGA JOB FAIR : 23<sup>rd</sup> August 2017**

Modern College of Arts, Science & Commerce, Ganeshkhind, Pune-in association with **Skill Development, Employment & Entrepreneurship Guidance Centre, Pimpri, Pune-17, Government Of Maharashtra had organized a Mega Job Fair, a**

one day event organized on **23<sup>rd</sup> August 2017, Wednesday. This was open to** both fresher's and experienced professionals. The main purpose of this Job fair is to help in making the task of the companies easier in hiring talent and provide opportunities to youth, to drive their career in right perspective. Job Fair was inaugurated at the hands of Dr. A.D. Shaligram ( Offg. Registrar, SPPU, Pune) and Mr. Sharad Aangane (Director, District Skill Development and Employment Guidance Cell, Pune.). Mrs. Anupama Pawar (Asst. Director, District Skill Development and Employment Guidance Cell, Pune.) guided the students on this occasion and informed them to register on their website for getting employability opportunities. Principal Dr. Sanjay Kharat explained the need of skill based education and its importance in getting job opportunities. Dr. Varsha Bapat (Chairman Placement Cell) , Coordinator of this event briefed the objective of this Job Fair.

The Job Fair was open from 9 am to 5pm and no registration fees were charged for the candidates as well as the participant Companies. There were 28 Companies registered for this Job fair. There were 3600 vacancies from these companies at various levels and with varied eligibility norms starting from 10<sup>th</sup> pass to Post Graduation in various streams. During this Job fair 1668 candidates registered and 662 were selected by different companies. Resumes from 668 candidates were collected and forwarded to the respective companies.

**JOB FAIR : February 2018**

Modern College of Arts, Science and Commerce Ganeshkhind, Pune-16 organized Job Fair in association with Board of Students' Development, Savitribai Phule Pune University, Pune-7, on 15<sup>th</sup> February 2018.

Job Fair was organized by Placement cell of Modern College of Arts, Science and Commerce, Ganeshkhind. Placement co-ordinator Dr. Varsha Bapat and her team made all the necessary arrangements for the Job Fair under the guidance of Principal Dr. Sanjay Kharat. Companies from IT, Pharmaceutical, Business Management, Food,

Banking, NGO, Journalism & Media, Insurance company, Service Industries and Manufacturing Industries were invited as an employers for Job Fair. Placement Cell had approached to more than 30 companies from which 22 agreed to be part of this Job fair.

Job Fair was inaugurated at the hands of Registrar of Savitribai Phule Pune University, Prof. A.D. Shaligram, Dr. Sanjay Kharat ,Principal, Modern College of Arts, Science and Commerce Ganeshkhind welcomed all the employers and students on the occasion of Job Fair. At the time of addressing the audience, Dr. A.D. Shaligram insisted the need of inculcating different skills for the best employment and entrepreneurship. He also praised the organizers for taking initiative in such activities and creating wonderful platform for placement of students from different faculties under one roof. Principal Dr. Sanjay Kharat also insisted on skill based education in order to increase the opportunity of employability.

During the Job Fair 17 companies registered and were allocated separate Laboratories for the Interview sessions. More than 318 students registered for the event and 200 students were selected in first round.

5 students of B.Sc (Computer Science and 44 Students from M.Sc (Computer Sc.) and MCA (Science) were placed in Companies including : Capgemini, L & T Infoech, Cognizant, Swift Infotech, TCS, Maxgen Technology, Androzen, Sun Soft Technologies, SSP Technology, I-mates, Techno Cipher IT Solutions, Omega Soft, Softzeal Technology Pvt Ltd, Magneto It Solutions Pvt Ltd, Matrix HUB Technology, E-Max Solutions etc.

- 13 Students from final year B. Com stream were selected in Tata Consultancy Services and and Pennyer Apps. Pune.
- Thus , total number of campus placements this year is about 315.

**Dr. Varsha M. Bapat**  
Placement Head



Inaugural Function of the Job Fair



2<sup>nd</sup> Job Fair : 15<sup>th</sup> February 2018



A session on Personality Development by Lt. Col. Kumar Fulay, Founder, Colonel's Club



Candidates waiting for their interview session at the Job Fair

## Prize Distribution Ceremony Report

The 13<sup>th</sup> January 2018, It was a day of pride for all of us at Modern College of Arts, Science and Commerce when we all celebrated the achievements and the exemplary work of our students in various fields. The Ceremony took place under the true mentorship of our honored Chairman, Business Council P.E. Society, Dr. Gajanan R. Ekbote. It was Dr. Prakash Dixit whose gracious presence made the ceremony more meaningful by motivating our students and staff members. The ceremony began with the welcome address from Principal Dr. Sanjay Kharat His enthusiasm was at its best while enumerating the accomplishments. The zeal to excel and see his institution grow has inspired all at the campus.

The ceremony had the motivating and engaging presence of the Chief Guest Professor Dr. (Captain) C. M. Chitale, former Head, PUMBA, S.P. Pune University who threw light on the need for individual SMART goals : its accomplishment in a disciplined manner. He with all enthusiasm shared the joys and interacted with the audience and winners.

**Mr. Shubham Kathale** (T.Y. B.A. History) was awarded Best Student Trophy. The day also marked the beginning of two prizes sponsored by our alumni Ms. Jyoti Mungase : Prerana Puraskar which was

given to Mr. Kailas Salve (S.Y.B.A.) and Jaaniv Puraskar by Ms. Nutan Waghmare which was given to Mr. Rohidas Shinde and Mr. Yogesh Kotkandwar.

Ms. Chaitali Makashir and Sneha Chavan (S.Y.B.A) did the comparing of the programme. Mrs. Gauri Kopardekar, Mrs. Revati Nagarkar and Dr. Deepak Shendkar announced the names of the Prize winners. The vote of thanks was given by the coordinator Dr. Madhuri Kulkarni.

The ceremony would not have been successful without the encouraging support from the committee members, teaching and non- teaching staff and students.

**Dr. Madhuri Kulkarni**  
Co-ordinator



Best student trophy Shubham Kathale TYBA History



Best student trophy Shubham Kathale TYBA History

## Science Academies' Refresher Course in Chemistry

National Science Academies' Refresher Course in Chemistry was conducted at Department of Chemistry PES Modern College of Arts, Science and Commerce, Ganeshkhind, Pune-411016 during November 27-December 11, 2017. This is the first college in Pune arranging

The date wise details are reported in the time table.

Sr No	Date	Topic	Resource person
1	27/11/2017	Nano science <sup>1</sup> H-NMR	Prof. K. N. Ganesh Prof. Dilip D. Dhavale SPPU Pune
2	28/11/2017	Biological Inorganic Chemistry <sup>1</sup> H-NMR	Prof. C. P. Rao, IIT Mumbai Prof. Dilip D. Dhavale SPPU Pune
3	29/11/2017	Synthetic Organic Chemistry Asymmetric Synthesis	Prof. Srinivas Hotha, IISER, Pune Prof. Santosh Gharpure, IIT, Mumbai
4	30/11/2017	<sup>13</sup> C-NMR X-ray Crystallography	Prof. Dilip D. Dhavale SPPU Pune Prof. R. Vaidhyanathan IISER Pune
5	01/12/2018	Intro. to Quantum Mechanics Organometallic Reagents	Prof. S. R. Gadre SPPU Pune Prof. M. Periasamy, Hyderabad
6	02/12/2018	Structure & Chemical Bonding Medicinal Inorganic Chemistry	Professor S. R. Gadre, SPPU Pune Professor A. S. Kumbhar, SPPU Pune
7	03/12/2018	2D NMR, COSY, NOESY,	Prof. Dilip D. Dhavale SPPU Pune
8	04/12/2018	Problem Solving X-ray Crystallography	Professor S. R. Gadre, SPPU Pune Dr. R. Vaidhyanathan, IISER Pune
9	05/12/2018	Stereochemistry Material Chemistry	Prof. M. S. Wadia Prof. Sulabha Kulkarni, C-MET Pune
10	06/12/2018	Stereochemistry Higher Education Policy	Prof. M. S. Wadia Dr. Sanjay S. Kharat, Modern College
11	07/12/2018	Problem Solving Infrared Spectroscopy	Prof. M. S. Wadia Prof. Vaishali Shinde SPPU Pune
12	9/12/2018	Medicinal Chemistry Small Scale Experiment	Dr. Sanjeev Kulkarni, Lupin Pune Prof. V. D. Bobade, HPT -RYK Nasik
13	10/12/2018	Mass Spectrometry Reactions Combinatorial Chemistry	Prof. V. D. Bobade, HPT RYK Nasik Dr. Srinivas Hotha, IISER, Pune
14	11/12/2018	Advance Spectroscopy Problem Solving	Prof. V. D. Bobade, HPT-RYK Nasik Prof. Vaishali Shinde SPPU Pune

There were 72 applications received, out of which, 40 were selected and 39 participants (30 teachers & 09 students) have actually completed the course. Out of 39 participants, 22 were outstation (07 from

Maharashtra & 15 were other than state of Maharashtra) and 17 local participants.

**Dr. Sushma R. Katade**  
Coordinator



Science Academies' Refresher Course in Chemistry

## Science Association

**Purpose:** Science Association is established to develop students' interest in science, to facilitate understanding of science through different activities, to inculcate research and scientific aptitude in the students and to give exposure to different topics in science through **learning by doing**.

**Formation** of Science Association in this academic year is as below .

**Chairperson:** Mrs. Vaishali Salunke, Electronic Sc.

**Members:** Mrs. Ketaki Sarwate, Chemistry

Mrs. Shweta Raichurkar, B.Voc.

Ms. Ragini Wadkar, Mathematics

**Activities conducted:** Essay competition, Quiz, Exhibition "Anubhuti" ( Project, Poster and Model) are the activities conducted by the association.

Essay writing competition was organised to evoke students' comprehensive, linguistic and communication skills. Topics for the essay competition were Science Past, Presence and Future, Smart Phones Curse or Boon, Green Technologies. Description on given topics in English language, maximum of thousand words were accepted. Students participation from Arts, Commerce faculty along with the Science faculty was welcomed. **Twelve students** shared their views through essay writing competition.

Quiz Competition was scheduled on 9<sup>th</sup> January 2018. Baseline questioner on 11<sup>th</sup> and 12<sup>th</sup> science class syllabus was framed by the committee members. **Twelve Students** participated and enjoyed the knowledge fest. Akash Tagare and Anthony Paste an F.Y.B.Sc. students were the winners.

The purpose of science exhibition "ANUBHUTI" is to give glimpse of research to students, to encourage innovative ideas, to improve presentation skills of the students and to promote interdisciplinary activities. The exhibition includes Project, Model and Poster Competition. **Three hundred and eighty eight students participated** through presentation of **41 projects, 53 posters and 09 models**. Internal judges assessed the activity.

Winners for the Project, Poster and Model competition from three separate groups viz. A (Physics, Electronics, Mathematics, Statistics and Computer Sc.), B (Biotechnology, Chemistry Botany, Zoology and Microbiology) and B.Voc. were selected. Students developed innovative projects/posters using their Findings/Surveys on social, local, and Moral issues. To demonstrate different technological advancements/issues Fine Models were prepared by the students. Diversity of microflora from Pashan lake and Mula River, Flora of Panchwati Hill, Jeevamrut: Bio-fertilizer and bio-pesticide, Electronic Attendance System, Application of group theory in R.N.A, Prey-Predator Interaction and Natural Selection were the original and applied topics/themes. Healthy TITBIT: Recipe competition, Model competition on equipment used in food technology, Poster competition on smart packaging and smart food were the competitions organised in an innovative manner by B.VOC (Food Technology) department. Guava Balushahi, Apple Burfi were the innovative healthy food items prepared by the participants.

**Outreach:** Participants of Science Exhibition 'Anubhuti' shared their knowledge with thirty Six school students.

**Outcome:** During their participation they worked in a team and shared their knowledge with the peers and teachers. Systematic and Scientific approach. Team

spirit and boosting of confidence were the values added due to execution of the activity.

**Mrs. Vaishali Salunke**  
Chairperson  
Science Association 2



Project Competition



Project Competition

## Staff Academy

Staff Academy was inaugurated by Faculty Development programme on July 2017 by the hands of Dr. Arun Adsool former Vice-chancellor, SPPU and the topic of discussion was "Role of Teachers and Responsibilities"

From 1st July to 7th July 2017- Celebration of Van Mahotsav at Modern College of Agriculture and

Biotechnology at Hadshi- Paud Road by involvement in tree plantation programme.

Dr. Beena Inamdar, former Principal, Symbiosis College, Pune. discussed topic "Teachers and Teaching Profession" on 29/09/2017.

"Health and Importance of water" practically demonstrated by Mr. Pandurang Bhore and his team on 09/12/2017.

On 8<sup>th</sup> March 2018 was a celebration of "International Women's day" hosted by R.J. Sangram (Big FM radio station and his team). There was a demonstration over the self defense. Mr. Shubham arranged Zumba dance for the staff and also arranged games for the staff.

**Dr. Shakera Inamdar**  
Chairman  
Staff Academy

## Soft Skill Development Center

Apart from necessary educational qualification, employers look for some skill sets while recruiting people. Feedback from many employers reveals that there is a shortage of skilled personnel. Many candidate possess limited or no skills. To overcome this situation, our college is running in-house programme to train final year students in soft skills so that they can contribute to their companies soon after being placed.

Majority of the people don't know how to speak fluently in public or about etiquette. So skill and personality development training is a necessity for the youth. Students from vernacular medium schools come to our college for higher education and find it difficult to cope. These students have brilliant technical skills but are unable to communicate their ideas. So, it is really important to bridge the gap between thoughts and practical work. Everyone needs to know how to speak better and present themselves on different occasions. Every year our college organizes soft skill workshops and training sessions on communication skills and etiquette.

**Workshop :** This year a Soft Skill Workshop was organized in December, 2017. Industrial Partner Barclays sponsored the workshop in association with Global Talent Track and NASSCOM Foundation. A range of topics like communication skills, campus to corporate, stress management, out-of-the-box thinking, team building, leadership qualities, interview techniques and personality development were covered during the workshop. Interactive sessions made the students realize that by being sharp and having clearly defined goals they can track their success easily. It also raised their self confidence as they were able to recognize their ability and competence in achieving the goals set by themselves. Students believe that these skills will be useful during the placement period. About 76 final year students from Science Faculty and 45 final year students from Arts and Commerce faculty (Total 121 students) have benefited from this workshop.

**Parag Shah**

Coordinator, Soft Skill Development Programme



## स्वरमाधुरी शास्त्रीय व नाट्यसंगीत गायन स्पर्धा

प्रोग्रेसिव्ह एज्युकेशन सोसायटीच्या मॉडर्न कला, विज्ञान व वाणिज्य महाविद्यालय व विद्यार्थी विकास मंडळ सावित्रीबाई फुले पुणे विद्यापीठ यांच्या संयुक्त विद्यमाने आयोजित कै. शंकरराव कानिटकर स्मृती करंडक शास्त्रीय व नाट्यसंगीत गायन स्पर्धा 'स्वरमाधुरी' गुरुवार दि. ४ जानेवारी २०१८ रोजी माध्यम प्रायोजक विद्यावाणी यांच्या सहकार्याने पार पडली. पी.ई.

सोसायटीचे संस्थापक कै. शंकरराव कानिटकर यांच्या स्मृती प्रित्यर्थ १९९३-९४ या शैक्षणिक वर्षापासून ही स्पर्धा घेतली जाते. या स्पर्धेअंतर्गत गायकांना प्रोत्साहन देण्यासाठी अनेक नामवंत कलाकार येऊन गेले आहेत. स्पर्धेच्या आयोजनासाठी विद्यार्थी विकास मंडळाने २००५-०६ पासून आणि विद्यावाणी या एफ.एम. वाहिनीने सन २००२-०३ पासून सहकार्य दिले आहे. या स्पर्धेचे उद्घाटन संस्थेचे उपकार्यवाह डॉ. प्रकाश दीक्षित यांनी केले. कार्यक्रमाच्या समारोप प्रसंगी शास्त्रीय संगीत गायिका सौ. शैला दातार या प्रमुख पाहुण्या होत्या तसेच विद्यावाणी संचालक श्री. आनंद देशमुख हे ही या प्रसंगी उपस्थित होते. यावर्षी परीक्षक म्हणून सौ. जयश्री रानडे, श्री. हेरंब चिंचणीकर, डॉ. प्रज्ञा अक्कलकोटकर, सौ. ललिता आठले हे लाभले होते. शास्त्रीय गायन व नाट्य संगीत स्पर्धेमध्ये प्रत्येकी सहा स्पर्धकांनी भाग घेतला होता. सर्व स्पर्धक इतर महाविद्यालयामधून आले होते.

### स्पर्धेचा निकाल

#### शास्त्रीय संगीत :

१. शुभम खंडाळकर, भारती विद्यापीठ, पुणे - प्रथम क्रमांक
२. जिज्ञेश वझे, भारती विद्यापीठ - द्वितीय क्रमांक
३. प्रज्योत म्हैसकर, ललित कला केंद्र पुणे - द्वितीय क्रमांक
४. पुजल जाफी, संगीत विभाग, मुंबई विद्यापीठ - तृतीय क्रमांक
५. श्रुती बजूरबरुवा, एस.एन.डी.टी. पुणे - तृतीय क्रमांक

उत्तेजनार्थ : अक्षता गोखले, कावेरी महाविद्यालय, पुणे  
नाट्यसंगीत

१. जिज्ञेश वझे, भारती विद्यापीठ - प्रथम क्रमांक
२. शुभम खंडाळकर, भारती विद्यापीठ - द्वितीय क्रमांक
३. श्रिया खोडके, एस.एन.डी.टी. पुणे, तृतीय क्रमांक

प्रा. प्रेरणा सुरु  
समन्वयक





## Yuva Shaptah

National Youth Day (Yuva Diwas or Swami Vivekananda Birthday) is celebrated with the great joy and enthusiasm in India every year on 12th of January. This year 155<sup>th</sup> birth anniversary celebrated. It has been celebrated consistently from last 23 years in the college. On 12<sup>th</sup> January 2018. Dr. Gauri Khopardekar delivered speech on Swami Vivekananda's thinking for nation. Vice Principal Madam Dr. Shubhangi Joshi also shared his views on this occasion. Shreya Raut and Samiksha Kumbhar and Sweety Pande students from science faculty also delivered speech on this occasion. Prof. Ranjana Shevkar and her team coordinated for this.

Our college held various competitions under Yuva Saptah. The competitions held on 9<sup>th</sup> January were Poetry Reading, Mehendi, Short Film and Psychology Quiz

The poetry reading competition was arranged in Marathi, Hindi and English. The number of participated students was 44. From these 26 students presented poem in Marathi. 5 students in Hindi and 13 students in English. 30 poems were self-composed by the students which were appreciated by judges Ashlesha Mahajan and Abhishaj Sanjeev. Dr. Sanskruti Awalgaoonkar with her team members coordinated the competition.

In short film competition total groups were 9 and number of student's participated were 19. The topics

given for the competitions are technology and Youth, environment issues such as ecological, social, political, climate change etc, digital India, EVE teasing, Quality of Education, Road Safety, Smart city. Miss Pradnya Patil and Mr. Rahul Dandekar were the judges for this competition. Mr. Amol Patil and his team members coordinated the event. The winning film names are "The real hero", "Dark Dram", "The Silent noise".

In Mehendi competition there were 17 participants. Mrs. Deepti Sevekari beautician and Dr. Pallawi Bulakh from Modern College were the judges for this completion. Prof. Vaishali Salunke and her team members coordinated for this competition.

Total 16 teams of 29 students participated in psychology quiz. Dr. Sadhana Natu and Nashome madam and her team members coordinated this event.

On the next day Elocution, Rangoli, Handwriting competitions were held.

For elocution competition the topics were Students Inside or Outside the classroom, Status of language today and its changing nature, Students and College Election, Farmers Subsidy, Thoughts of Swami Vivekananda and today's youth. There were 16 participants for this competition. This competition was held in English, Hindi and Marathi languages. Mrs. Swati Mahalank Reporter and Dr. Megha Deshpande were judges for this competition. Dr. Savita Sabnis with her team members coordinated the competition.

Total 81 students participated in Handwriting competition. Prof. Parag Shah and Prof. Pradnya Pathakji from Modern college were judges for this competition. Prof. Shamal Deshmukh with her team members coordinated the competition.

For Rangoli competition the theme was Free Style. Total 28 students participated for this competition. Mr. Sheelratan Bangale, Drawing Teacher of Modern High school and Dr. Geeta Morwal were judges for this competition. Dr. Geeta Morwal with her team members coordinated for this competition.

For Poster Competition the topics were GST and Child Abuse. Under which 20 posters were presented by 40 students. The judges were Mrs. Hemlata Dabholar President of Inner Wheel Club (largest Women Social Organization) and Dr. Mamta Shende. Prof. Sangeeta Dhamdhare with her team members coordinated the competition.

The winners of all competitions under Yuva Saptah 2018 were felicitated on the same time after the competition.

**Dipali Meher**  
Co-ordinator



Menendi competition



Swami Vivekanand Birth Anniversary Celebration



Rangoli Competition



Swami Vivekanand Birth Anniversary Celebration



Psychology Quiz Competition

### International Conference on “Recent Trends in Life Science”

International Conference on “Recent Trends in Life Sciences” organized by the Department of Zoology, Modern College, Ganeshkhind, Pune-16 and sponsored by SPPU Pune under QIP on 2<sup>nd</sup> and 3<sup>rd</sup> February 2018. The theme of the conference included Biodiversity, Biotechnology, Biophysics and Bioinformatics, Nanotechnology, Agro bio science, Botanical science, Wetland Conservation and management, Environmental science Earth and Geological science, Food and Nutrition, Microbial Medical sciences, Animal behavior sciences, E-learning, Networking in life science Molecular taxonomy. The aim of this conference was to bring on board students, teachers, stake holders & scientists on a common platform who are avid readers, do research and active conservation specialists. This international conference allowed exchanging thoughts, provoking debates, which would lead to constructive & novel research and conservation principles applicable to Indian scenario. Besides, this, the conference provided exposure to the academicians, researchers, consultants and policy makers on high quality research.

The International Conference in Recent Trends in Life Sciences-2018 received 34 entries for poster presentation; of which 18 posters were presented on 2/02/16 while 13 posters were presented on 3/02/18. Oral presentation participate total 13 entries from national and international level.

**Dr. S. G. Deshpande, Senior Scientist (retd.),** Entomology Division, N.C.L., Pune and member, External Expert Committee for DBT STAR scheme implementation at the college, was the **judge for the poster competition** on both the days. During the prize distribution function, Dr. S. G. Deshpande applauded the efforts of the students and staff members in carrying out good quality research and also for their presentation skills. The assessment was based on the following criteria: Subject content, Subject knowledge and Presentation skills. Mrs Sneha Ogale, Co-ordinator of poster presentation.

The Inauguration of the conference was carried out by the auspicious hands of Guest of Honour

Prof. W. N. Gade, former Vice Chancellor, S.P.P.U. The Chief Guests were Dr. Nanda Bahadur Singh, Professor, Tribhuvan University, Nepal and Dr. R. S. Pandit, Head, Department of Zoology, S.P.P.U. The Dignitaries present were Prof. P. G. Dixit, Deputy Secretary and Visitor, Modern College Ganeshkhind; and Dr. S. G. Deshpande, Scientist from NCI, Pune. The welcome speech was given by our respected Principal, Dr. S. S. Kharat. The felicitation of the guest was followed by Release of Proceeding.

#### Invited Speaker:

1. **Dr. Nanda Bahadur Singh, Professor, Central Department of Zoology, Tribhuvan University, Kathmandu, Nepal.** Key note address delivered by Dr. Nanda Bahadur Singh, on Recent Emerging Trends & Techniques in Life Sciences along with more focus on Ethno-resistant genes and molecular ethnobiology of Nepalese Indigenous populations.
2. **Dr. Momna Hejmadi, Professor, Department of Biology and Biotechnology, University of Bath, London, U.K.** Delivered a lecture on Extremophiles and DNA repair and emphasized the role of photolyases in extremophiles
3. **Dr. N.K. Subhedar, Professor, IISER, Pune.** Delivered plenary talk on Reward processing mechanisms in the brain.
4. **Dr. R.S. Pandit, H.O.D. Department of Zoology, SPPU, Pune.** Delivered a lecture on recycling of agricultural wastes, microbial diversity, methods of degradation and his research on *Helicoverpa argemigera*..
5. **Dr. B.B. Nath, Professor Department of Zoology, SPPU, Pune.** Delivered a talk on Nanotoxicity and environmental concerns :Genetic & Biochemical exploration using *drosophila* as translational research model, and signified the use of *drosophila* as a genotoxic model for nanoparticle research

6. **Dr. Dr. S. B. Jogdand, Associate Scientist, Y.M.College, Erandwane, Pune.** Spoke about House dust mites (HDM) migration, manifestation of HDM allergy, different sources of mites and their impact on environment/seasons, newly reported seven genera of HDM at Pune, Management of allergy programmes.

7. **Dr. Dynaneshwar Waghchore, Ashwamedhagritech, Kopergaon, Maharashtra**

Spoke about nematodes and their life cycle, damage of plant roots, treatment of biopesticides, advantages of biopesticides and role of Ashwamedh for agriculture.

8. **Mr. Dharmaraj Chetri, Mid-Western University, Surkhet, Nepal.** Spoke on current status of sickle cell disease in Tharu people of Nepal about genetic inheritance and their geographical occurrence.

9. **Dr. S. G. Deshpande, Retired Scientist NCI, Pune.** Spoke about pesticides, biopesticides, their use, control and economical importance.

Oral Paper Presentation Competition was Judge by Dr. Rinku D. Umrani, Scientist, Agharkar Research Pune. Six students from various institutes presented their work during Oral session. Oral presentations were followed by poster presentations session. Thirty five Students from all over the places participated in the Poster competition. Dr. S.G. Deshpande, Scientist from NCL, Judged the posters.

The Valedictory function started with the welcome speech of honorable Principal Dr. S. S. Kharat. **Prof. Dr. R. S. Mali** Former Vice Chancellor of North Maharashtra University, Jalgaon was the Chief guest during valedictory session. Summary report of the conference was delivered by Dr. Ravindra V. Kshirsagar. A total of 140 students, teachers and researchers from International, National and Local institutes had participated in the conference. Seventy abstracts and fourteen full length papers were published in the Proceeding. Thus the conference concluded on a success note.

**Dr. Shakera Inamdar**  
Coordinator



The inauguration of the conference was carried out by the auspicious hands of Chief Guest Prof. W.N.Gade, former Vice Chancellor, S.P.P.U.



Cultural Program during International Conference on "Recent Trends in Life Sciences"



Release of the Proceeding of International Conference Chief Guest Prof. W. N. Gade, Former Vice Chancellor, S.P.P.U. on "Recent Trends in Life Sciences"

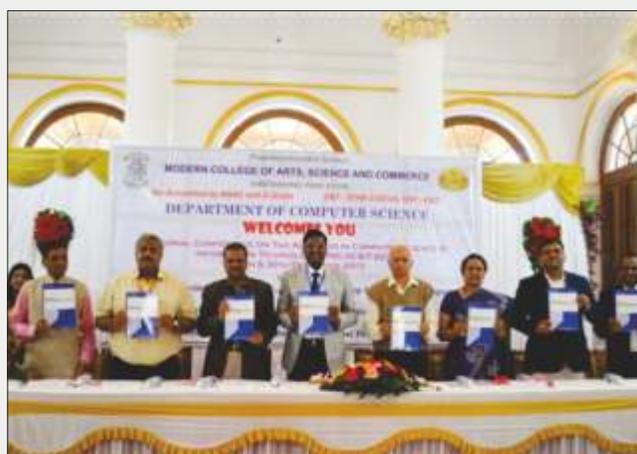
## Computer Science Department National Conference

- The Inaugural ceremony of two-day National Conference on Advance computer science and information technologies took place on 29 december 2017 at Savitribai Phule Pune University Pune's Sant Dnyaneshwar Sabhagriha in the presence of Dr. Arvind D. Shaligram Of. Registrar Savitribai Phule Pune University Pune, Dr. Prakash G. Dixit Deputy Secretary Progressive Education Society Pune, Prof. S. S. Deshmukh Secretary Progressive Education Society Pune.
- The ceremony glimpsed with a word from Hon. Dr. Nitin Karmalkar the Vice Chancellor Savitribai Phule Pune University Pune, gave his word on his experience and the important role of research in social life. Dr. Karmalkar also addressed the adversities we face today with the global surge of Socio-eco balance, technological pros and cons, intolerance around the world and the harsh reality that stands in the face of this kind of vital conferences that changing the world. In this conference, eminent personalities over the country participated as Speaker, Researcher, Participants and students. Total 32 research paper published in International Journal of Advance and innovative research with IISN No.2394-7780 Volume 4, Issue 4(II) published by Indian Academicians and Researchers Association. Total 117 participants were benefited by conference among of that 2 were foreign participants.
- Principal Dr. Sanjay Kharat Conference Convener addresses the important of quality improvement program and its executions over the country and also gave warm wishes.
- From whole Computer Science Department for conference's Success at university premises, says lot of thanks to Hon. Vice Chancellor Dr. Nitin Karmalkar for give permission in his

premises as new bonding in between institution and university.

- On Valedictory function. Dr. Nitin Karmalkar the Vice Chancellor Savitribai Phule Pune University Pune, Prakash G. Dixit Deputy Secretary Progressive Education Society Pune, Principal Dr. Sanjay Kharat Conference Convener, Dr. Shubhangi S. Bhatambrekar Conference Coordinator, Head, Department of Computer Science Modern College of Arts, Science & Commerce, Pune gave vote of thanks with immense guided quote over the conference.

**Dr. Shubhangi Bhatambrekar**  
Coordinator



National Conference 2017-2018



National Conference 2017-2018



## National Conference on Chemical Sciences: An Interdisciplinary Approach (CSIA-2018)

18<sup>th</sup> -20<sup>th</sup> January 2018

This conference was organized by Dept. of

Chemistry and sponsored by Department of Biotechnology, Ministry of Science and technology, Government of India, New Delhi. Total 104 post graduate and undergraduate students and 70 participants from all over India participated in the conference. The lectures organized were as follows:

Sr. No.	Date	Speaker	Title of the talk
1.	18/01/2018	Dr. Anil Kumar, F.N.A.Sc. IIT, Rurkee	Bio molecules(s)-Mediated Greener Nanostructures / Nanohybrids- a Study of their Multifunctional features
2.	18/01/2018	Dr. D.D. Dhavale, F.N.A.Sc., F.A.Sc., S.P. Pune University	Fluorinated peptides as reverse turn inducers and ion transporters.
3.	18/01/2018	Prof. D. S. Rawat, F.R.Sc., Dept. of Chemistry, Delhi University	Hybridisation in Medicinal Chemistry
4.	18/01/2018	Dr. A. A. Natu, IISER, Pune	Interdisciplinary Approach
5.	19/01/2018	Prof. Dr. C.T. Arvind Dean, Environmental and Atmospheric sciences, M. G. University, Kottayam, Kerala	Green Chemistry: Principles and Applications
6.	19/01/2018	Dr. Srinivasa Reddy Shantiswarup Bhatnagar Awardee, Senior Scientist NCL, Pune	Application Oriented Organic Synthesis toward Societal Importance
7.	19/01/2018	Dr. Harinath Chakarpani Asso. Prof. IISER, Pune	Chemistry and biology of reactive species
8.	20/01/2018	Dr. Sanjeev Kulkarni, Ex Vice President NDDD, Lupin Ltd., Pune	Uncertainties in Drug Discovery
9.	20/01/2018	Dr. Satish Ogale, (F.N.A.Sc., F.A.Sc. IISER, Pune	Clean Energy Solutions for Better Tomorrow: The Magic of Chemistry and Nanoscience
10.	20/01/2018	Dr. Yogesh Jorapur, (In-house Speaker)	Synthesis and Application of Ionic Liquids
11.	20/01/2018	Prof. Vaishali Shinde, Prof., Dept. of Chemistry, S.P.P.U., Pune	Biopolymer Based Theranostic Agents for Targeted Anticancer Drug Delivery

Abstract book with 54 abstracts and 22 papers published online in UGC listed international peer reviewed journal were unveiled at the inauguration. 12 oral presentations and 38 poster presentations were evaluated. The conference was concluded in presence of Prof. S.P. Gejji (Head, Dept. of Chemistry, S.P.P.U., Pune), Prof. G. Chinchankar (Member, National advisory committee, DBT), Dr.

S. G. Deshpande, NCL, Prof. Kisan Kodam, SPPU, Prof. Suresh Todkar (Chairman, LMC), Dr. Prakash Dixit (Visitor, LMC) and Dr. Sanjay Kharat (Principal, Modern College ACS, Ganeshkhind, Pune).

**Dr. Madhuri S. Kulkarni**  
Co-ordinator



Unveiling of Abstract book at Inauguration of National Conference

Nagpur, Dr. Sadanand Bhosale and Dr. Muktaja Matkari were invited as Resource Persons for the Seminar. Delegates from different Colleges from the state of Maharashtra presented research papers on different aspects of language, literature and its innovative use in teaching and learning process. Around 55 delegates were present in the seminar. The research papers presented during the Seminar is being published in a book form with ISBN.

**Dr. Shampa Chakraborti**  
Organising Secretary

**Dr. Savita Sabnis**  
**Dr. Sanskriti Awalgaonkar**  
Co-ordinator



Prof. G. Chinchankar (Member, National advisory committee, DBT) being felicitated by Dr. Sanjay Kharat.



Release of the Proceeding at the One Day State level Seminar on 'Literature Language and Innovations'

## One Day State Level Seminar on 'literature, Language And Innovations'

The Department of Languages organized a One Day State Level Seminar on **Literature, Language, and Innovations** on 20<sup>th</sup> December 2017. Chief Guest Prof. Nagnath Kottapalle, Former Vice Chancellor Dr. BAMU, Aurangabad inaugurated the Seminar. He lucidly expressed the need to promote fresh and true ideas among student communities so that they can dare to think beyond the text. The Keynote Speaker was Prof. Raj Rao, renowned writer and former Head, Department of English, SPPU, Pune. Dr. Supriya Sahasrabuddhe, Dr. Vinita Virgandham and Dr. Kapil Singhel from



Dr. Raj Rao addressing the audience as the keynote Speaker of the seminar of Department of Language

## State Level Workshop Skills and Open Ended Experimentation in Optics

A two day state level workshop on “Skills and Open Ended Experimentation in Optics “ was organized by Department of Physics Progressive Education Society's Modern college of Arts, Science and Commerce Ganeshkhind, Pune-16 on 22<sup>nd</sup> and 23<sup>rd</sup> December 2017. The workshop was sponsored by Savitribai Phule Pune University under Quality Improvement Programme. The workshop aimed at training physics teachers the fundamentals and experiential skills in optics and give provide hands on training.

The workshop was inaugurated at the hands of eminent scientist Professor Dr. Satishchandra Ogale, Professor of Physics, Centre for Energy Science, IISER Pune. Dr. Sanjay Kharat, Principal, addressed the delegates in his welcome speech. Dr. Prakash Dixit, Deputy Secretary of Progressive Education Society presided over the function.

Prof. Satishchandra Ogale delivered Key Note Address on “New Research in Optics” In First session Dr. Vijay Raybagkar, Ex- Principal SSR College, Silvasa Pune delivered a brief lecture regarding contents of the two day workshop.

Dr. K.M. Gapchup, Ex-head, Department of Physics Abasaheb Garware College, Pune, Dr. Vijay Raybagkar Ex- principal SSR College, Silvasa, Prof. A.V. Deshpande Ex-head of Department of Physics, Modern College, Shivajinager, Pune, Dr. S. G. Kulkarni and Mr. R. P. Mulay Department of Physics, Fergusson College, Pune, were the Resource persons for the hands on training sessions of the workshop. Nearly 50 Teachers from various institutes in Maharashtra attended the workshop.

Our students of S.Y. B.Sc. Physics demonstrated innovative experiments Optics during the workshop to the participant teachers. Mrs. Varsha Joshi, Head, Department of physics was coordinator of the workshop. Prof. Jinendra Joshi of English Department was the compeer for the inaugural function. Mr. M. D.Waghmare, Mrs. Chhaya

Abnave, Dr. Pratibha Rao, Mr. Dinesh Kalel and non teaching staff helped in organizing this workshop. The T.Y. B.Sc. Physics students worked as volunteer for the workshop.

**Mrs. Varsha Joshi**  
Coordinator



State Level Workshop on “Skills and Open Ended Experimentation in Optics” under quality improvement Programme of SPPU. Inauguration at the hands of Prof. Dr. Satish Ogale

## Three days' Hands-on Training Workshop on 'Isolation and Enumeration of Bacteriophages'

Under the aegis of DBT-STAR college scheme, Microbiology department, PES Modern College of Arts, Science & Commerce, Ganeshkhind, conducted a hands-on Training Workshop on 'Isolation and Enumeration of Bacteriophages', from 4/01/18 and 6/01/18, for under-graduate students and staff members. Keeping in view her immense experience, Dr. Sangeeta Ahiwale, Associate Professor, Rayat Shikshan Sanstha's Mahatma Phule Mahavidyalaya, Pimpri, Pune, was invited to conduct this workshop which included both lectures and hands-on training.

At the inauguration, Principal, Dr. Sanjay Kharat encouraged the students to participate wholeheartedly so as to enhance their skill-sets and to carry out research activities. Mrs. Sneha Ogale, Head,

Dept. of Microbiology, while introducing the theme of the workshop, said that strategies employing bacteriophages are being devised to control drug resistant pathogens and for the cleanup of polluted waters harboring drug resistant bacteria. Hence there is a need to learn the techniques of isolation, enumeration, characterization, handling and storage of bacteriophages. Mrs. Swati Kandharkar, Vice-Principal (Science) gave her best wishes for the workshop and Dr. Kavita Parekh compered the event. The participants were exposed to various aspects about river water (as a source of host bacteria and their phages) sample collection, processing, isolation of host bacteria and their phages, phases of growth of phages, one step growth curve experiment, enumeration of phage, plaque morphologies, interpretation of results and discussion. Thirty-six T.Y.B.Sc students (Microbiology and Botany) and five staff members participated in the workshop. In addition to Modern College Ganeshkhind, students and staff members from H.V. Desai College, DY Patil College and Abeda Inamdar College participated in the workshop.

**Prof. Sneha Ogle**  
Co-ordinator



Felicitation of resource person in bacteriophage workshop

## Workshop Organised By Microbiology Department

### One day workshop on 'Life Skills, Goal Setting and Stress Management'

The Microbiology Department, PES Modern College of Arts, Science & Commerce, Ganeshkhind, conducted a one day workshop on 'Life Skills, Goal Setting and Stress Management' on 12/02/18, for students and staff members. This workshop was funded by **Board of Students' Development, Savitribai Phule Pune University.**

The workshop was conducted in three sessions wherein prominent resource persons addressed the students. Dr. Sadhana Natu, Head, Psychology Department, Modern College of Arts, Science and Commerce, Ganeshkhind spoke on life skills, how to manage time, ethics and values. Dr. Satish Patil, Director, Green Vision Life Sciences Pvt. Ltd spoke on Goal Setting and its importance in life. Dr. PM Alegaonkar, Ex-Dean Faculty of Education, Savitribai Phule Pune University addressed the students on Stress Management in everyday life.

Dr. Prabhakar Desai, Director, Board of Students' Development, Savitribai Phule Pune University, Pune was chairperson for the inauguration and motivated the students to think ahead. Principal, Dr. Sanjay Kharat encouraged the students to participate whole-heartedly so as to enhance their skill-sets. Mrs. Sneha Ogale, Head, Dept. of Microbiology, while introducing the theme of the workshop emphasized on the importance of soft skills in career enhancement. Mr. Prasad Deshmane compered the event. The participants were exposed to various concepts of goal setting, stress management and life skills. A total of 110 post graduate and graduate students and all staff members of Microbiology Department participated in the workshop. In addition to Modern College Ganeshkhind, students from Mahatma Phule Mahavidyalay, Sinhgad College Of Science, Ambedkar College, Appasaheb Jedhe College and Arihant Junior College participated in the workshop.

**Prof. Sneha Ogle**  
Co-ordinator



validictory function

## One Day Workshop

### On “GUIDANCE FOR PROJECT REPORT WRITING” January 15, 2018

Department Of Statistics, P.E.Society's Modern College Of Arts, Science and Commerce, Ganeshkhind, Pune-16, organized one day workshop on “Guidance for Project Report Writing” on 15<sup>th</sup> January, 2018. It was funded by the Board Of Student's Development, Savitribai Phule Pune University. Students from various faculties attended this workshop.

Total no. of student's attended the workshop is 70.

The presence of distinguished personalities such as Dr. Chitra Sohani (Advisor-Bajaj Initiative for Education), Prof. Swati Kandharkar (Vice Principal-Modern College, Ganeshkhind, Pune-16), Prof. Varsha Joshi (Ex-Student's Development Officer- Modern College, Ganeshkhind, Pune-16) graced the inaugural function of the workshop.

Dr. Chitra Sohani (Advisor-Bajaj Initiative for Education) was the resource person for first session of the workshop . She divided all the students into 4 groups and distributed different sub points regarding project report writing among them. It was an interactive session. She used power point slides to discuss her views with students.

Dr. Prakash Dixit (Head-Department of Statistics, Modern College, Shivajinagar, Pune-5), conducted the second session of the workshop. By using power point slides ,he discussed about various topics that can be taken as projects by students. He also guided

students that how to prepare a full proof report for the project.

Students were highly benefitted by this workshop .They enjoyed and responded very well with the resource persons.

**Mrs. Sonia Joshi**

Department of Statistics.

Modern College, Ganeshkhind, Pune-16.



National Workshop “ Use Of Appropriate Softwares In Mathematical Modelling And Statistical Analysis”

On 9<sup>th</sup> & 10<sup>th</sup> February 2018 .

## National Workshop On “Use of Appropriate Softwares In Mathematical Modelling And Statistical Analysis”

The Department of Statistics with Mathematics department, had jointly organized two days National workshop on “Use of Appropriate Softwares in

**Mathematical Modelling and Statistical analysis” on 9<sup>th</sup> and 10<sup>th</sup> February, 2018.**

It was sponsored by Department of Biotechnology, New Delhi, under CTEP scheme. This workshop was organized for teachers and research scholars from all the fundamental as well as applied science faculties from various institutes all over India.

The workshop was full of short time hands-on training sessions by eminent personalities as the resource persons from various domains of Science and Technology.

The presence of Dr. Vijay Narkhede (Joint Director, Higher Education, Pune Region), Dr. Sanjay Kharat

(Principal, Modern College, Ganeshkhind, Pune-16), Prof. Suresh Todkar (Chairman LMC, P.E.Society) graced the inaugural function of the workshop.

The chief guest of workshop, Dr. Vijay Narkhede

delivered his key note address to the participants. In his key note address, he highlighted the various applications of software packages in data analysis.

The following teachers/scholars delivered their expertise in the workshop :

Sr. No.	Name of the person	Designation	Name of the Institute
1.	Dr.Girish Arabale	Incubatee	National Chemical Laboratory, Pune
2.	Dr.Amiya Bhowmick	Assistant professor	Institute of Chemical Technology, Mumbai.
3.	Dr. Shalini Teke	Associate Professor	S.P.College,Pune
4.	Mrs. Turkunde T.B	Assistant professor	S.P.College,Pune
5.	Dr.Radhika Somwanshi	Associate professor	Nutan Maratha College, Jalgaon
6.	Dr. Ganesh Bagler	Assistant professor	Indraprastha Institute of Information Technology, Delhi
7.	Mr.Siddharth Bhalerao	Research Scientist	Onerix Labs India Pvt. Ltd.

### Science Academies' Lecture Workshop on

*“Smart Materials and Future Technologies for Sustainable Development”*

held at Department of Electronics on

Science Academies are an apex bodies from Department of Science and Technology ,Govt. of India working in the field of science Education. Joint Science Education Panel of the Science Academies generously sanctioned a Lecture Workshop on **“Smart Materials and Future Technologies for Sustainable Development”** to the Department of Electronics ,Modern College Ganeshkhind, Pune-16 vide sanction letter no: **IASc/SEP/LW/January/2017 dated 15 December 2017.**

The **purpose** behind organizing this workshop was to avail guidance from expertise in the field and make the students aware about recent trends, fundamental science and technology behind the smart materials. Make students aware about the future scenario of environment and their role and responsibility to transform the economy trend from

carbon to Hydrogen. **Dr. Sulabha Kulkarni**, F.A.Sc., F.N.A., F.N.A.Sc. from Centre for Materials for Electronics Technology (C-MET), Panchawati, Pashan Road, Maharashtra worked as a **Convener** of the workshop. **Mrs. Salunke Vaishali**, Head, Department of Electronics of the college worked as **coordinator** of the workshop.

**120 participants** and organizing committee members attended the workshop. They were from **sixteen different colleges** viz. Sir Parashurambhau (S.P.) College, Tilak Rd., Department of Instrumentation, Environment Sc.,Physics, Electronics of Savitribai Phule Pune University, Haribhau Desai, Fergusson College, Sinhagad College of Science, Vadgaon, Dr. D. Y. Patil ACS College, Pune Institute of Computers Technology(PICT), SNJB'S SPHJ Science College, Vishkarma Institute of Technology(V.I.T.), Modern College, Shivajinagar, Modern College of Ganeshkhind , New Arts, Commerce and Science College, Nagar, PVP College, Pravaranagar. Seventy one Male and Forty nine Female, of which 74 graduate, 30 post graduate, 04 research students and

13 teachers participated in the event. Fifty Students and teachers of the college participated in the workshop.

The workshop was inaugurated at the hands of Dr. Sulabha Kulkarni On 16<sup>th</sup> January 2018. **Inaugural session** on “An overview of Smart Materials and applications” was delivered by her. **Second session** titled “Smart Nano Materials for Solar Energy Conversion” was delivered by **Dr, Chinkonda S. Gopinath, F.N.A.Sc., Principal Scientist, Catalysis Division, NCL, Pune, on 16<sup>th</sup> January 2018.** He emphasized on the need of harvesting solar energy. He shared his research findings while developing the Artificial Leaf. **Third session** was delivered on “Smart Materials and Future Information Technologies” by **Dr. Dilip G. Kanhere, F.A.Sc.,** from Savitribai Phule Pune University, on 17<sup>th</sup> January. He discussed the states of matter and explained fourth state i.e. soft condensed matter. His key note was to change the approach of simply following phenomenology and being empirical, we should find the science behind the phenomenon and convert it into technology. **Fourth session** of the lecture workshop was “Smart Materials for Smart Cities” delivered by **Dr. B. B. Kale, Director, Centre for Materials for Electronic Technologies, Panchwati, Pashan, Pune.** He mentioned the aspects of Smart Cities. He explained the meaning of research. How the human life will be eased in smart cities and role of flexible Electronics in enabling the smart cities was elaborated by him.

In all, the speakers started with the fundamental concepts like zero, one and two dimensional materials and smoothly switched to their research areas and current technologies used for synthesis and characterization of smart materials. They explored the simple ideas for making nano structures and mentioned simple experiments those can be easily carried out. They appealed the students to join them in their research areas and guided them about the career opportunities and paths (scholarship schemes) available to move into this field.

A **concluding session** was presided over by the college **Principal Dr. Sanjay Kharat.** He guided the participants about the meaning of **sustainable**

**development.** He explained the role of smart citizens in smart cities. Coordinator, Mrs. Salunke Vaishali took an overview of the workshop. Participants shared their views about the workshop.

**Analysis of Feedback** taken from the participants expresses that the resource persons spellbound them with the knowledge they imparted. Graduate students expressed that they got their concepts cleared about Nano-technology and Nano materials. Post graduate students oriented towards research in the field of nano materials while some decided specifically to work in the field of hydrogen evolution techniques, Flexible batteries.

Overall it was an amazing experience to work with the Science Academies and Academy Fellows.

**Mrs. Vaishali Salunke**  
Coordinator



Convener Dr. Sulabha Kulkarni, Coordinator and organising committee members of the Department of Electronics Department



Principal Dr. Sanjay Kharat, addressing the participants during Concluding session of Science Academies' Lecture Workshop organised by Electronics Department

## Kirloskar International Vasundhara Film Festival, 2018 A Conference on 'Exploring the Rivers of Greater Pune'

Under DBT Star Scheme Department of Botany, PES Modern college of Arts, Science and Commerce, Ganeshkhind has organized a one day conference on 'Exploring the Rivers of Greater Pune' in collaboration with Biosphere (NGO), Pune, Maharashtra on 8<sup>th</sup> January 2018 on the occasion of Kirloskar Vasundhara International Film Festival during 4<sup>th</sup> to 8<sup>th</sup> January 2018.

Thirteen expert panellist were discuss on one dais about Biodiversity, Biogeography, Conservation strategies, Ecological Restoration, Pollution, Action Plans, Development and Awareness pertaining to the Rivers of Greater Pune. Total 55 participants were present during the conference.

**Prachi Kshirsagar**  
Co-ordinator



Inuagrination of Conference



Expert Team in conference

## Report on Students' Economics Conference

Department of Economics of the college, in association with Board of Students' Development, Savitribai Phule Pune University, Pune organized University level **Students' Economics Conference on "Changing Tax Structure in India", on 12<sup>th</sup> February 2018** in the college. A conference compendium was published of 15 research papers from students of various colleges in Pune. Student participants were 60 in number including from other colleges.

**Dr. Sanjay Kharat, Principal** gave the welcome address by speaking on the importance of changing tax structure and need for a deeper study about the changes. **Dr. Prabhakar Desai, Director, Board of Students' Development, Savitribai Phule Pune University**, Pune graced the occasion for valedictory function. He gave his opinion on the significance of taxes and the changing structure in India. Dr. Desai got very much incited with the concept of Economics Conference for Students and said that this conference was a maiden venture under the university.

**Dr. Kailash Bavale, Co-ordinator, Dr. Dhanajay Gadgil Shashwat Gram Vikas Kendra, GIPE (Deemed University)**, Pune was the resource person for the first session. He talked about how India can put its stand at international level by changing the taxations structure after demonetization. The reformed tax structure of GST has tried to remove various shortcomings of the previous tax regime.

In the second session, **Dr. Subhash Patil, Head, Department of Economics, SNDT Women's College, Karve Road, Pune** gave his views on reforms in Indian tax structure and GST.

In the third session **Mr. Vijay Dhambak from ICICI Foundation**, Pune talked on the importance of Financial Literacy among the people.

**Best Paper Award** was declared and the winners were:

1<sup>st</sup> Prize – Ms. Monika Verma and Sneha Saju, Indira College, Wakad

2<sup>nd</sup> Prize – Mr. Babasaheb Kale, Ramkrushna More College, Akrudi

3<sup>rd</sup> Prize – Ms. Sonali Dhere, Modern College of ASC, Ganeshkhind

Students Mr. Ajay Rathod, MA-I and Ms. Komal Sonune, MA-II were the anchors. The conference coordinator **Dr. Abaso Shinde** gave the vote of thanks.

**Dr. Jyoti Gangangras, Vice-principal, Arts and Mr. Dastagir Pathan, Head, Department of Economics** along with the staff of the department, gave their full support.

**Dr. Abaso Shinde**  
Co-ordinator

**Mr. Dastagir Pathan**  
HoD, Economics



Ms. Gayatri Lokhande of FYBA receiving 3rd prize at the hands of Dr. Prabhakar Desai, Director, Board of Students' Development SPPU



Release Function of Proceedings of Students Economics Conference

## एक दिवसीय कार्यशाळा-समाजशास्त्र विभाग

समाजशास्त्र विभाग (मार्डन महाविद्यालय, गणेशखिंड, पुणे व विद्यापीठ विद्यार्थी विकास मंडळ (SPPU) यांच्या संयुक्त विद्यमाने 'Growing Importance of media and new challenges' या विषयावर एक दिवसीय कार्यशाळेचे आयोजन करण्यात आले होते. या कार्यशाळेच्या उद्घाटन प्रसंगी रेडीओ सिटी वरील सुप्रसिद्ध आर. जे. अपूर्वा जाधव उपस्थित होत्या. त्यांनी यावेळी सोशल मिडीयातील आव्हाने या विषयावर मार्गदर्शन केले. यावेळी निर्भया या स्वयंसेवी संघटनेच्या चांदणीमंडम उपस्थित होत्या.

कार्यशाळेच्या दुसऱ्या सत्रात लोकमतचे पत्रकार श्री. केदार कदम उपस्थित होते. त्यांनी पत्रकारितेचा इतिहास, बदलत्या काळातील पत्रकारिते समोरील आव्हाने या विषयावर मार्गदर्शन केले. कार्यशाळेच्या तिसऱ्या सत्रात चैत्राली देशमुख उपस्थित होत्या त्यांनीही सामाजिक प्रसारमाध्यमे, बदलत्या काळातील त्यांचे महत्त्व, छापील प्रसार माध्यमांचे महत्त्व या विषयावर उपस्थितांना मार्गदर्शन केले. या कार्यशाळेसाठी पदवी व पदव्युत्तर पातळी वरील ८० विद्यार्थी उपस्थित होते.

कार्यशाळेसाठी महाविद्यालयाचे प्राचार्य डॉ. संजय खरात यांनी मार्गदर्शन केले. उपप्राचार्या व समाजशास्त्र विभाग प्रमुख डॉ. ज्योती गगनग्रास यांनी कार्यशाळेचे संयोजन केले. प्रा. राजकुमार गांधले, डॉ. मेघा देशपांडे व डॉ. माधुरी चंदनशिव यांनी समन्वयक म्हणून काम केले. प्रा. मंजुषा कुलकर्णी यांनी कार्यशाळेस सहाय्य केले.

**डॉ. ज्योती गगनग्रास**  
समन्वयक



Dr. B. T. Lavni Director Bharti Vidyapeeth, Prin. Dr. Sanjay Kharat & Dr. Jyoti Gagangras

## एक दिवसीय कार्यशाळा – समाजशास्त्र विभाग

पदवी व पदव्युत्तर, समाजशास्त्र विभाग (मार्डन महाविद्यालय, गणेशखिंड, पुणे) आणि विद्यार्थी विकास मंडळ (SPPU) यांच्या संयुक्तविद्यमाने 'समाजकार्यातील नवीन आयाम' या विषयावर एक दिवसीय कार्यशाळेचे आयोजन करण्यात आले होते.

या कार्यशाळेचे प्रास्तविक करतांना प्राचार्य डॉ. संजय खरात यांनी 'समाजकार्यामध्ये नवीन संधी आहेत, विद्यार्थ्यांनी त्या कडे डोळस पणे पाहिले पाहिजे' असे मत व्यक्त केले. समाजशास्त्र व विभागप्रमुख व कला शाखेच्या उपप्राचार्या डॉ. ज्योती गगनग्रास यांनी यावेळी विभागांतर्गत उपक्रमांची माहिती दिली. कार्यक्रमाचे प्रमुख पाहुणे प्रा. बी. टी. लवाणी (डायरेक्टर, समाजकार्य विभाग, पुणे) यांनी समाजशास्त्रातील नवीन आयाम या विषयावर मार्गदर्शन केले तर डॉ. निलांगी देशपांडे यांनी समाजशास्त्रातील 'रोजगाराच्या संधी' या विषयावर व्याख्यान दिले. वेगवेगळ्या NGO समाजामध्ये कशा कार्यरत आहेत व त्यामध्ये किती मोठ्या प्रमाणात काम करणे शक्य हे त्यांनी आपल्या व्याख्यानातून सांगितले.

कार्यशाळा यशस्वी होण्यासाठी प्राचार्य डॉ. संजय खरात, समाजशास्त्र विभागप्रमुख व उपप्राचार्या कलाशाखा डॉ. ज्योती गगनग्रास यांनी मार्गदर्शन केले व समाजशास्त्र विभागातील प्राध्यापक श्री. राजकुमार गांधले, डॉ. मेघा देशपांडे, विभागातील डॉ. माधुरी चंदनशिव यांनी या कार्यशाळेसाठी परिश्रम घेतले.

**डॉ. ज्योती गगनग्रास**  
समन्वयक



Dr. Nilangi Sardeshpande Guided one Day Workshop on New Avenue in Social Work



Dr. Shubhangi Joshi V.P Commerc Apurva RJ & Chandani Madam in One Day Workshop on Social Media



## Our Strength





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Dr. Ambedkar Jayanti : Speaker Dr. Harsh Jagzap (Political Science Dept., SPPU)



Graduation Ceremony – Group Photo



One day State Level Workshop organised by IQAC on Revised Guidelines of NAAC and signing of MOU with multiple colleges.



Akanksha – 1<sup>st</sup> Prize (SPPU)



Dr. Abaso Shinde Awarded Jaagannath Rathi Award (SPPU)



Cap Inauguration



Job Fair (2018)



'Janiv' Donation to Orphanage (Annapurna Ashram, Alandi)

# भावपूर्ण आदरांजली

दैरवणे ते चैहरे जे प्रांजळाचे आरसे ।  
गौरटे की सावळे या मौल नाही फारसे ॥

तेच डोळे दैरवणे जे कोंडीती साऱ्या नभा ।  
वौकिती दुःखे जनांच्या सांडिती नेत्रप्रभा ॥

दैरवणे ते औठ की जे औविती मुक्ताफळे ।  
आणि ज्यांच्या लाघवाने सत्य हीते कौवळे ॥

दैरवणे ते हात ज्यांना निर्मितीचे डोहळे ।  
मंगलाने मंघलेले सुंदराचे सौहळे ॥

दैरवणी ती पाऊले जी ध्यासपंथे चालती ।  
वाळवंटातूनसुद्धा स्वस्तिपद्मे रेखिती ॥

दैरवणे ते स्कंध ज्या ये सूळ नेता स्वैच्छया ।  
लाभला आदेश प्राणां निश्चये पाळाक्या ॥

दैरवणी ती जीवने जी तृप्तीची तीर्थोदके ।  
चांदण ज्यातून वाहे शुभ्र पाऱ्यासारखे ॥

दैरवणा देहान्त तौ जो सामरी सुर्यास्तसा ।  
अग्निचा पैरुन जातौ रात्रमर्भो वारसा ॥

\_ बा. भ. बौरकर



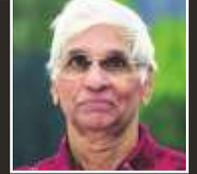
Reema Lagoo



Girija Devi



Gangadhar  
Pantawane



H. M. Marathe



Shashi Kapoor



Khadiwale  
Vaidya



Patangrao  
Kadam



Arjan Singh



Yash Pal



Bhalchandra Vaidya



Sudha  
Karmarkar



Arun Date



Shirish Pai



Sridevi



Stephen Hawking



Dr. Gajanan Ekbote (Chairman, P. E Society) felicitating Dr. Dinesh P. Amalnekar (Brain-Pool Invited Scientist, Hanyang University, South Korea) on occasion of Graduation Ceremony



Dr. Gajanan Ekbote (Chairman, P. E Society) felicitating Shri. Chandrakantdada Patil (Revenue Minister of Maharashtra) on occasion of Silver Jubilee Function



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