**COLLEGE OF ENGINEERING, PUNE**

**ANNUAL REPORT**

**2016-2017**

# Vision, Mission and Goals

**Vision**

To be a Value based globally recognized Institution ensuring academic excellence and fostering Research, Innovation and Entrepreneurial Attitude.

**Mission**

* To be a student centric institute imbibing experiential, innovative and lifelong learning skills, addressing societal problems.
* To promote and undertake all-inclusive research and development.
* To inculcate entrepreneurial attitude and values amongst Learners.
* To strengthen National and International, Industrial and institutional collaborations for symbiotic relations.
* To mentor aspiring Institutions to unleash their potential, towards nation building.

**Core Values (S T E E R)**

* **S**trength
* **T**ruth
* **E**ndurance
* **E**thics
* **R**everence for All

**Goals: COEP @ 2022**

* To be a globally recognized Engineering institution in top 500 bracket.
* To attain 25 % growth in terms of intake capacity with UG:PG ratio of 50:50 and 200 % Growth in research leading to Ph.D’s
* To accomplish 200 % growth in research outcomes in terms of Quality Publications in Tier-I journals & conferences, Patents, Sponsored R&D Projects, Technology Products, Books & Monograms etc.
* To establish 5 collaborative Finishing Schools to impart high-end technical skills for enhancing employability and 2 industry-partnered Incubation Centers for encouraging entrepreneurship.
* To have a 25 % of Student Population opting to be either the First Generation Entrepreneurs and/or pursuing higher studies at Institutes of repute.
* To be a Multi-faculty Campus, establishing 5 multidisciplinary research centers in diversified areas, and 5 interdisciplinary academic programs.
* To be 100 % self-sustainable campus, wherein accommodation is provided for All students and at least 30% faculty.
* To attract foreign faculty from reputed Universities/Industries to the tune of 5 % of total faculty strength.
* To design and develop Digital Ecosystem, to collaborate, communicate and connect with stakeholders.
* To mentor 10 aspiring institutes with potential to transform towards an elite status.

**Published by**

**Prof. Dr. B. B. Ahuja**

Director

College of Engineering Pune

Wellesley Road

Shivajinagar Pune-411005

**Compiled and Edited by**

Mr. Atul B. Patil, Assistant Professor, COEP

Mrs. Snehal S. Hirve, Public Relations Officer, COEP

**Photo Courtesy**

COEP Students and Staff, COEP

**CONTENTS**

|  |  |
| --- | --- |
| **Descriptions** | **Page Nos.** |
| **Administration** |
| Board of Governors | 1-2 |
| Finance Committee | 3 |
| Building & Works Committee | 4 |
| Senate Members | 5-7 |
| Institute Functionaries | 8-9 |
| **Director’s Message** | 9-17 |
| **Academic Activities**  |
| Programmes Offered | 18-20 |
| Contributed Talks  | 21-30 |
| Member ships and Affiliations | 31-36 |
| National and International Visits | 37-44 |
| Conferences, Symposia, Workshops organized and Attended & Organized | 45-67 |
| **Research & Development Activities** |  |
| Publications | 68-91 |
| Patents | 92 |
| Sponsored Research Projects | 93-94 |
| **Infrastructure** |
| Lab Equipments | 95-142 |
| Library | 143 |
| **Placements** | 144-145 |
| **Personnel** | 146-147 |
| **Accounts at a Glance** | 148-149 |
|  |

**GOVERNANCE**

**BOARD OF GOVERNORS**

|  |  |
| --- | --- |
| **Members** | **Designation** |
| **Dr. F. C. Kohli**Former ChairmanT.C.S. Ltd., MumbaiAir India Building, 11th FloorNariman Point, Mumbai 400 021 | Chairman |
| **Mr. Sitaram Kunte**Principal SecretaryDepartment of Higher & Technical EducationMaharashtra State, Mumbai 400 032 | Member |
| **Mr. Vikas S. Patil**Managing DirectorSavi Infrastructures & Properties Pvt. Ltd.,Pune- 411030 | Member |
| **Dr. Rajendra Hiremath**ChairmanSynergy Infrasys Management Pvt. Ltd., Pune | Member |
| **Mr. Prataprao Pawar**Chairman, Sakal MediaSakal Papers Ltd., 595, Budhwar Peth, Pune 411 002 | Member |
| **Mr. Sanjay Inamdar**Co-Founder BIELCollege of Engineering Pune, Shivajinagar, Pune – 411005 | Member |
| **Prof. Nitin R. Karmalkar**Vice Chancellor,Savitribai Phule Pune University,Ganeshkhind, Pune – 411007 | Member |
| **Prof. B. N. Chaudhari**Deputy Director & Professor (Dept. of Electrical Engineering)College of Engineering PuneShivajinagar, Pune – 411005 | Member |
| **Prof. D. B. Talange**Professor and Head(Dept. of Electrical Engineering)College of Engineering PuneShivajinagar, Pune – 411005 | Member |
| **Prof. B. B. Ahuja**Director & Professor (Dept. of Production Engineering & Industrial Mangement) College of Engineering PuneShivajinagar, Pune – 411005 | Member Secretary |
| **Members** | **Designation** |
| **Mr. Atul Kirloskar**Chairman,Kirloskar Oil Engines Ltd.,LK Road, Khadaki, Pune 411 003. | Invitee  |
| **Prof. B. S. Sonde**Former VC Goa University,Professor Emeritus IISc,274. Shree Anandnagar, 18th Cross,Electronics City, P.O. Hasur Road,Bangalore 560100. | Invitee |
| **Prof. S. G. Dhande**Former Director, Indian Institute of Technology,Kanpur 208016.  | Invitee |
| **Prof. G. B. Pant** Former Director, Indian Institute of Tropical Meteorology (IITM),C903 Padma Vilas,Pashan Baner Link Road, Pashan, Pune 411021. | Invitee |
| **Mr. S. R. Mirashi**PresidentAlumni AssociationCollege of Engineering PuneShivajinagar, Pune – 411005 | Invitee |
| **Dr. Kiran Patil**Deputy Secretary,Higher and Technical Education,Mantralaya Mumbai – 411001. | Invitee |
| **Dr. D. R.  Nandanwar**Joint Director, Technical Education,Regional Office, Pune 411016 | Invitee |

**FINANCE COMMITTEE**

|  |  |
| --- | --- |
| **Members** | **Designation** |
| **Shri. Prataprao Pawar**Chairman, Sakal Media GroupSakal Papers Ltd.,595, BudhawarPethPune 411 002 | Chairman |
| **Dr. B. B. Ahuja**Director & Professor Production Engineering & Industrial ManagementCollege of Engineering PuneShivajinagar, Pune – 411005 | Member Secretary |
| **Dr. Rajendra Hiremath**ChairmanSynergy Infrasys Management Pvt. Ltd., Pune | Member |
| **Prof. B. N. Chaudhari**Deputy Director & Professor (Dept. of Electrical Engineering)College of Engineering PuneShivajinagar, Pune – 411005 | Member |
| **Mr. V. B. Gonte**Accounts OfficerCollege of Engineering PuneShivajinagar, Pune – 411005 | Member |
| **Mrs. Anisha Dhongade**Junior Accounts ManagerCollege of Engineering PuneShivajinagar, Pune – 411005 | Member |

**BUILDING & WORKS COMMITTEE**

|  |  |
| --- | --- |
| **Member** | **Designation** |
| **Mr. Atul Kirloskar**Managing DirectorKirloskar Oil Engines Ltd.LK Road, Khadki, Pune 411003 | Chairman |
| **Dr. B. B. Ahuja**Director & Professor Production Engineering & Industrial ManagementCollege of Engineering PuneShivajinagar, Pune – 411005 | Member |
| **Mr. Vikas S. Patil**Managing DirectorSaviInfrastructures& Properties Pvt. Ltd.Pune- 411030 |  Member  |
| **Prof. Uday Athavankar** Professor of Industrial Design I IT Mumbai | Member |
| **Mr. Salil Randive** Chinay Randive & Associate C/o. Piraymal Sons Pvt. Ltd.1st Floor, Army-Nevy Building M.G.Road Near Kalaghoda Mumbai 400001. | Member |
| **Superintendent Engineer, PWD**Central Building, Pune-411001. | Member(Ex- officio) |
| **Joint Director of Technical Education**Shivajinagar, Pune, Maharashtra 411005 | Member(Ex- officio) |
| **Prof. B. G. Birajdar**ProfessorCivil EngineeringCollege of Engineering PuneShivajinagar, Pune – 411005 | Member Secretary |

**SENATE MEMBERS**

|  |  |
| --- | --- |
| **Name** | **Designation** |
| Prof. Bharatkumar Ahuja | Chairman, (Director, COEP) |
| Prof. Mukul Sutaone | Member Secretary,(Dean Academics, COEP)  |
| Prof. Y. P. Nerkar | Member (Ex-Officio)- Coordinator, Faculty of Engineeering, SPPU, Pune) |
| Prof. R. R. Joshi |  Members |
| Prof. B. G. Birajdar |
| Prof. (Mrs.) S. R. Pathak |
| Prof. S. S. Bhosale |
| Prof. P. M. Raval |
| Prof. S. N. Sapali |
| Prof. D. W. Pande |
| Prof. B. N. Chaudhari |
| Prof. D. B. Talange |
| Prof. S. S. Dambhare |
| Prof. (Mrs.) P. P. Rege |
| Prof. A. M. Sapkal |
| Prof. S. T. Vagge |
| Prof. M. J. Rathod |
| Prof. N. B. Dhokey |
| Prof. S. D. Agashe |
| Prof. C. Y. Patil |
| Prof. S. L. Patil |
| Prof. J. V. Aghav |
| Prof. (Mrs.) Jibi Abraham |
| Prof. (Mrs.) N. R. Rajhans |
| Prof. M. K. Ranjekar |
| Dr. S. D. Kulkarni |
| Dr.(Mrs.) S. N. Madhekar |
| Dr. (Mrs.) A. D. Thube |
| Dr. M. S. Randive |
| Mr. S. M. Mukhopadhyay |
| Mr. R. P. Thanedar |
| Dr. B. M. Dawari |
| Dr. Y. A. Kolekar |
| Dr. S. A. Meshram |
| Dr. N. A. Hedaoo |
| Dr. K. K. Tripathi |

|  |  |
| --- | --- |
| **Name** | **Designation** |
| Dr. C. M. Sewatkar |  Members  |
| Dr. V. K. Tripathi |
| Dr. M. P. Khond |
| Dr. M. R. Nandgaonkar |
| Dr. Madhuri G Karnik |
| Dr. S. S. Pardeshi |
| Dr. S. S. Ohol |
| Mr. R .N. Ladhwe |
| Mr. V. K. Haribhakta |
| Dr. P. R. Dhamangaonkar |
| Dr. A P. Bhattu |
| Dr. (Mrs.) S. S. Bhavikatti |
| Dr. N. K. Chougule |
| Dr. (Mrs.) V. S. Rajguru |
| Dr. (Mrs.) A. A. Dharme |
| Dr. S. R. Kurode |
| Dr.(Mrs.) S. P. Ghanegaonkar |
| Dr. R. T. Ugale |
| Dr. R. A. Patil |
| Dr. S. P. Mahajan |
| Dr. P. P. Bartakke |
| Dr. S. P. Butee |
| Dr. R. K. Goyal |
| Mrs. N. R. Anand |
| Dr. (Mrs.) R. P. Mudhalwadkar |
| Dr. D. N. Sonawane |
| Dr. U. M. Chaskar |
| Dr. P. D. Shendge |
| Dr. V. S. Inamdar  |
| Dr. (Mrs.) V. Z. Attar |
| Dr. V. K. Pachghare  |
| Dr. (Mrs.) Y. V. Haribhaktta |
| Dr. S. B. Mane  |
| Mr. S. P. Gosavi |
| Dr. B. Rajeev |
| Dr. (Mrs.) A. V. Mulay |
| Dr. M. D. Jaybhaye |
| Dr. (Mrs.) M. Y. Khaladkar |
| Dr. (Mrs.) C. M. Deshpande |
| Dr. J. A. Kher |
| Dr. J. W. Dadge |

|  |  |
| --- | --- |
| **Name** | **Designation** |
| Dr. Mukund Kale |  External Members |
| Dr. S. S. Sundarrajan |
| Mr. S. P. Dixit |
| Dr. I. S. Mulla |
| Mr. J. Ramanand |
| Dr. Suresh Phadke |
| Dr. Shrikant Lele |
| Hitesh Giri | Student Members |
| Anand Sabne |
| Tushar Vende |
| Aditya Barve |

**INSTITUTE FUNCTIONARIES**

|  |  |
| --- | --- |
| **Name of the Official** | **Designation** |
| Prof. B. B. Ahuja  | Director |
| Prof. B. N. Chaudhari | Deputy Director |
| Prof. M. S. Sutaone | Dean Academics |
| Prof. S. L. Patil | Dean Student Affairs |
| Prof. D. W. Pande | Dean R & D  |
| Prof. R. R. Joshi | Dean Quality Assurance |
| Prof. M. J. Rathod | Dean Alumni & International Affairs |

|  |
| --- |
| **Heads of Departments** |
| **Name** | **Department** |
| Dr. J. A. Kher | Applied Science |
| Prof. S. S. Bhosale | Civil Engineering |
| Dr. (Mrs.) V. S. Inamdar | Computer Engineering & Information Technology |
| Prof. D. B. Talange | Electrical Engineering |
| Prof. (Mrs.) P. P. Rege | Electronics & Telecommunication Engineering |
| Dr. C. Y. Patil | Instrumentation & Control Engineering |
| Dr. K. V. Dalvi | Mathematics |
| Dr. C. M. Sewatkar | Mechanical Engineering |
| Prof. N. B. Dhokey | Metallurgy & Material Science |
| Dr. J. W. Dadge | Physics |
| Dr. Rajiv B. | Production Engineering & Industrial Mangement |

|  |
| --- |
| **Heads of other committees / centres** |
| **Name** | **Designation** |
| Dr. (Mrs.) V. Z. Attar | Controller of Examination |
| Dr. S. A. Meshram | Corporate Relations Officer |
| Dr. U. M. Chaskar | Training & Placement Officer |
| Dr. Vibha Vyas | Chairman, Library Committee  |
| Dr. P. R. Dhamangaonkar | Vice President, Gymkhana |
| Dr. S. S. Pardeshi | Vice President, Boat Club |
| Mr. S. S. Kumbhar | Incharge of Central Computing & Networking  |

|  |
| --- |
| **Facilitators** |
| **Name** | **Designation** |
| Mr. G. B. Joshi | Administrative Officer |
| Mr. C. R. Bamble  | Registrar |
| Mrs. Anisha Dhongade  | Accounts Manager |
| Mr. P. C. Gholap | Accounts Officer |
| Mr. V. B. Gonte | Accounts Officer |
| Mrs. A. N. Deshpande | Asst. Physical Director |

**ANNUAL REPORT BY THE DIRECTOR**

**GRADUATION CEREMONY OF THE ELEVENTH BATCH OF B. TECH. AND THIRTEENTH BATCH OF M.TECH. GRADUATES**

**(YEAR 2016-17)**

Honourable Chairman, Board of Governors of the College of Engineering Pune, Dr. F. C. Kohli, distinguished Chief Guest, Vice Chancellor of Savitribai Phule Pune University, Dr. N. R. Karmalkar, Members of the Board of Governors, Members of Academic Senate, all the graduating students and their family members, faculty, staff, students, media persons, ladies and gentlemen, on behalf of COEP, I take this opportunity to welcome you all on the occasion of the 11th graduation ceremony at COEP.

Today, a total of 1105 students are being awarded passing certificates of which 817 are B. Tech. in 10 engineering disciplines, 288 are M. Tech. in 22 specializations. I congratulate all of them for their success and for making their parents and us feel proud.

I am glad to present before you a brief report for the academic year 2016-17. COEP has constantly been pursuing excellence in both academic as well as non-academic fronts, adhering to the commitment of the institute to develop technologically superior manpower with social concerns.

Continuing the legacy of being “BIG on Heritage” and “BOLD on Technology” in the country, over the last decade with the Vision of Board of Governors of COEP, our education system has evolved to reach and hold a unique position of pride in the technical education system in the country. This transformation for providing quality technological and scientific education and an environment conducive to new and path breaking research and development in frontier areas of engineering, technology and science with an excellent Governance model is not only acknowledged by the State Government but also by the Central Government. As a result, the Ministry of Human Resource Development, Govt. of India through their notification dated 16th December 2015, announced COEP as the Mentor Institute for the newly established Indian Institute of Information Technology (IIIT) Pune. We are also a Mentor Institute under the AICTE’s ‘Margadrashan’ programme for 10 Mentee Colleges and under TEQIP-Phase-III for 1 Institute namely GS Institute of Technology and Science- Indore-Madhya Pradesh.

The institute is acclaimed as one of the leading institutes of the country by various industry bodies such as NASSCOM, CII and FICCI and was ranked at the 24th position amongst top 100 engineering institutes as per the results of National Institutional Ranking Framework 2017. The Institute has been recognized along with all IITs by the HRD Ministry to execute “Unnat Bharat Abhiyaan” programme for the empowerment of villages by technology interventions.

The World Bank has recently announced to release a funding of Rs. 7 crore initially as the part of TEQIP Phase III Programme. The pursuit of technological excellence in a highly collaborative environment is the hallmark of COEP.

The launch of Swayam pico Satellite in space by ISRO on 22nd June 2016 has further strengthened the resolve of students to scale space heights and venture into future frontiers of unknown technologies. Such is the conviction and intellect of our students.

An elite institution of reckoning in the country today has influenced the lives of those that entered its portals. As of now, COEP has 13 academic departments and 2 Centers of excellence namely Signal and Image Processing and Smart Renewal Energy Systems supported by TEQIP. The Institute offers 10 Under-graduate courses in engineering and 24 Post-graduate courses in engineering, besides Ph.D. degree programmes in all the disciplines and One year PG Diploma courses in ERP and Additive Manufacturing. COEP has more than 4000 students enrolled to its various courses. COEP, today, has 245 regular faculty including Professor Emeritus of which 119 posses PhD degrees and many are working towards it. In addition there are 90 reputed experts from industry as Adjunct Faculty to cater to the needs of all our programmes. All the 9 eligible undergraduate and 17 post graduate programmes run by the institute have recently been accredited by the National Board of Accreditation in the new outcome based tier-I format earning the honour of being the only institute to have achieved this feat in India so far. Two new PG Programmes have been added w.e.f. AY 2016-17, one in Electrical Engineering department titled "Power Electronics, Machines and Drives" and the another in Computer Engineering department titled "Information Security". The nomenclature and curriculum of the three existing PG programs have been changed w.e.f. AY 2016-17.

All undergraduate, postgraduate and Ph.D. students get full opportunity to participate in co-curricular and extra-curricular activities leading to a holistic personality development. The faculty members of the Institute are encouraged to undertake sponsored research and industrial consultancy and always look forward to a healthy and productive interaction with the industry. Students and faculty are encouraged to make use of MOOCs and other online resources such as NPTEL, Coursera, Edx, PurdueNext, etc.

The year 2016-17 brought along with many accolades for the institutes and we are proud to mention some of the major awards and recognitions received by our students and faculty.

**Awards and Recognitions won (by students)**

* The college annual magazine “Antarya" won the “Best Magazine 2016 Award” given by Savitribai Phule Pune University on 15th August 2016.
* Students of COEP stood first at "InNerve 2k 2016", the national level Hackathon organized by Army Institute of Technology, Pune from 7th to 9th October 2016.
* Team Velocirarcers won the 1st Runner Up Award along with awards in 6 other categories at Efficacy 2016 held from 12th- 16th October 2016 for designing and fabricating their own hybrid tricycle.
* Students from COEP won Wipro Earthian 2016 Sustainability Competition held on 18th December, 2016.
* Team Octane stood over all 4th in Formula Bharat 2017 held in January, 2017.
* COEP students Aashish Tattikota and Soumyaditya Kar were awarded the third prize at Digimize 2017 (an event sponsored by Hitachi Consulting) on 30th January, 2017.
* COEP Team Nemesis had a roaring success at BAJA SAE held from 16th to 21st February, 2017 by winning the overall championship 2017.
* Team Roboclimb won the Silver award of INR 2.5 lakh at Sparkle 2017 held from 18th & 19th February, 2017.
* Team Robocon of COEP, for the first time has secured the 1stposition at ABU National Robocon 2017 organised by MIT Academy of Engineering, Alandi and Doordarshan at Balewadi Sports Complex from 2nd to 4th March 2017. The team will now represent India at the Asia-Pacific Robot Contest, International Robocon 2017 to be held in Tokyo, Japan.
* Team Swayam was awarded the Gandhian Young Technological Innovation (GYTI) Award 2017 under the category of “Frugal Innovation on 5th March, 2017.
* Team Sunrisers was the 1st runners up at Asia-level competition called Electric Solar Vehicle Championship Professional 2017 held from 28th March to 2nd April, 2017.
* Team REVOLUTION was awarded the First prize of Rs. One Lakh for their Project, “Budget Decoded App under category Urban Governance”, Team EARTHIANS was awarded the First prize of Rs. One Lakh for their Project, “Integration of Transport System under category connecting dots: Mobility” and Mr. Yuvraj Jadhav, a student of M. Tech. Automotive Technology was awarded the Second Prize of Rs. Sixty thousand for his project under the category- Rural Education refinements at 'Transform Maharashtra' on 1st May, 2017.
* COEP students showed excellence in academics during the entire year 2016-17 by getting admissions to top universities in the US, the UK, Germany, etc.
* Many of our students have been figuring amongst the top rank holders in GATE, CAT, UPSC Administrative and Engineering Services Exams, to name a few.
* Vishal Saley stood 7th in GATE 2017 inComputerEngineering*.*
* Rankings at UPSC  examination 2017: Vishwanjali Gaikwad-11th; Dinesh Gurav-160th; Kiran Khare -221th; Akash Yadav-346th; Mahesh Chaudhari – 423th; Santosh Sukhdeve-546th Shubham Thakare- 686th; Rohan Ghuge-736th; Dhiraj More- 756th ; Sarang Pofale -892th; Manoj Mahajan- 903th ; Sumit Kumthe-962th; Rahul Raising- 947th; Shivam Dhamanikar- 968th; Dhammapal Khandagale-1020th; Sadanand Kasllu -724th and Preetam Turerao-1031th
* COEP’s Street Play Team has won at 14 of the 16 nationwide competitions in the last few years.
* Several start-ups by graduating students and present students have led to a culture of innovation and entrepreneurship on the campus with some of these startups winning awards at various national and international competitions.
* COEP start up Robolab Technologies was selected as one of the 25 fastest growing Tech-Companies by Insight Success Media and recognized as the “Best Startup” by Economic Times in 2017.

# Honours for faculty

* Dr. P. R. Dhamanagonkar was awarded the Dronacharya Award for The Best Faculty Advisor at Efficycle 2016 for guiding the team Velociracers.
* Dr. Mukul Sutaone (Dean-Academics) and Dr. Sandeep Meshram (Corporate Relations Officer) were awarded at the hands of Chairman-AICTE Dr. Anil Sahasrabudhe; for being the Winner of Poster Presentation,“Meeting Challenges in Technology Education:  COEP Case Study”at the 12th FICCI Higher Education Summit-2016 held from 10th -12th November, 2016.
* Dr. M. P. Khond was given the “Best Faculty award” by Savitribai Phule University on 29th January 2017 and by Cognizant on 25th May 2017.
* Dr. Mrs. Priti Rege received the SVC Aiyya Award on 27th May 2017.

**Recognition to the Institute**

* The institute was awarded the AICTE- CII Survey 2016 Award for the category of “Best Industry-Linked Engineering Institute in Electrical & Allied Engineering (Degree)” on 8th November, 2016.

**Academic Reforms and Activities**

* The institute was granted an extension of Autonomy from the year 2016 to 2022 by the University Grants Commission.
* The institute was granted an approval as a Research Centre by Savitribai Phule Pune University for the next five years from 2016 to 2021.
* The institute was granted funds at the tune of Rs. 5 crore for the construction of new library building by the Maharashtra Government.
* The UGC expert committee visited the institute from 16th to 17th June 2017 for conferment of a Deemed University Status to COEP.
* Academicians from IITS and other institutes of high repute were invited at every department of the college to conduct a gap analysis and academic audits.
* Experts from various industries were invited to co- teach in all the semesters by the respective departments.

 **Important Programmes and Events:**

* The institute has more than 32 clubs and societies that organized more than 220 social, cultural, technical activities throughout the year.
* The 10th Annual Technical Festival, Mindspark was held from 23rd to 25th September 2016 with great savor and enthusiasm.
* For the first time, Impressions 2016: an Inter Collegiate Cultural Festival was organized on 10th & 11th December, 2016.
* The intercollegiate Sports Fest- Zest 2017 was held from 26th to 29th January 2017, raising sportsmanship culture at the institute
* The 89th Regatta was held on 26th March, 2017.
* The Annual social gathering was held from 28th to 29th March, 2017.
* The Ignited Innovators of India Programme of Social Entrepreneurship was conducted with a sponsorship from Eaton Corporation for the 6th year under which more than 250 socially relevant projects were undertaken by more than 50 colleges.
* Several colleges were invited to COEP for studying the good Governance Practices at COEP.
* A large number of eminent personalities namely Bharatratna Dr. C. N. R. Rao, Dr. Anil Awchat, Dr. Vijaya Wad, Prof. Robert H. Bishop, Prof. Leonid Fridman, Dr. Tom Lee, Prof. Mark Niedre, Prof. Desineni Naidu, Dr. Baba Kalyani, Dr. Anil Kakodkar, Dr. Srikumar Banerjee, Dr. Vijay Mohanan Pillai, Dr. Raghunath Mashelkar, Mr. Rahul Bajaj, Prof. Deepak Pathak, Shri. Praksh Javadekar, Honorable Minister of Human Resource Development, Government of India, Shri. Vinod Tawde, Honorable Minister for Higher and Technical Education, Government of Maharashtra, Mrs. Supriya Sule and many other visited the institute and interacted with students.
* Shri. Vinod Tawde, Honorable Minister for Higher and Technical Education, Government of Maharashtra released Rs. 50 Lakhs for the next satellite for which the students are working.

**Major National and International Conferences / Workshops / Lectures organized:**

* The institute was one amongst the 29 centres in the country to host the Smart India Hackathon 2017 grand finale during 1st- 2nd April 2017 which was one of the world’s biggest open innovation models.
* 27 COEP faculty underwent a special Induction programme (Induction Phase I)- Pedagogy from 27th June to 8th July 2016 at COEP conducted by National Institute of Technical Teachers' Training and Research (NITTTR), Bhopal
* Industry Academia Meet as part of the Inauguration of Silver Jubilee Celebration (Year 2016-17), of the Department of Computer Engineering & Information Technology at College of Engineering Pune was held on 20th August, 2016.
* The Department of Production Engineering and Industrial Management organized the 6th International and 27thAll India Manufacturing Technology, Design and Research Conference, AIMTDR 2016 from 16th to 18th December, 2016.
* The Department of Computer Engineering and Information Technology organized the IEEE International Conference on Computing, Analytics and Security Trends (CAST-2016) from 19th to 21st December, 2016.
* Indian Council of Chemists in collaboration with the Department of Applied Science, COEP and H. V. Desai College organized a National Conference in Chemistry and Allied Sciences from Thursday, 22nd December to Saturday, 24th December 2016 at COEP and H. V. Desai College.
* An Alumni Meet was organized by the Department of Computer Engineering and Information Technology as part of its Silver Jubilee Celebration on 24th December 2016. Dr. P. K. Sinha was the Chief Guest for the function.
* An Alumni Meet for the 1991 batch was organized on 25th December 2016 by the Alumni Association of COEP.
* The new Vision- Mission Statements were disseminated to the Stakeholders on 7th January, 2017.
* Several Seminars, Workshops and Faculty Development Programmes were conducted throughout the year under TEQIP-II.

**Infrastructural Development**

* The construction of proposed building of BHAU Institute of Innovation, Entrepreneurship and Leadership is completed.
* Several renovation works were undertaken such as smart renewable energy system lab at the Electrical Department, new canteen, new library building, etc.
* The Danfross Refrigeration & Airconditioning (RAC) Laboratory donated (equipment worth Rs. 45 Lacs) by Danfross Industries Pvt. Ltd. was inaugurated on 10thAugust, 2016.

**Memorandums of Understanding (MOUs)**

* A total of 11 MOUs with different Universities and organizations were signed during the academic year. Prominent among them being MOUs with 3DPLM Software Solutions Ltd., Schindler India Private Ltd., HSBC Software Development (India) Private Ltd., to name a few.
* These organizations have extended their support for conducting various academic, non- academic, research, internships, placement drives for students at COEP.

 **Training & Placement and Industry Interaction**

* Students participated in summer internship and more than 250 B. Tech. students completed their internship in various industries. More than 50 M. Tech. students have joined for internship cum dissertation at various industries.
* B. Tech. and M. Tech. students participated in various competitions organized by Credit Suiss, KPIT, TCS, Wipro, Infosys, VMware, and won prizes.
* The placement season started on 10th August 2016, with some premium companies like D. E. Shaw, Arcesium, Bajaj Auto, Morgan Stanley, Raukten, Credit Suisse, ARAI, VM Ware, BMW, Amazon, Ebara Corporation. etc. visiting the institute. TCS/ INFOSYS/ COGNIZANT recruited 120 students (40 B. Tech. and 80 M. Tech.)
* 210 companies visited the campus and overall 85% of the B. Tech. students and & 47% of the M. Tech. students were placed from the batch that graduated in June / July 2017. Maximum packages offered for these students were 29.00 Lakhs p.a. by Arcessium, 28.00 Lakhs p.a. by D.E. Shaw, 21 Lakhs p.a. by Ebara Corporation, 16.17 Lakhs p.a. by Morgan Stanley, 16 Lakhs p.a.  by Infosys,16 Lakhs p.a.  by Deutsche Bank, 15 Lakhs p.a. by Amazon, 13 Lakhs p.a. by Citi Coporation and Goldman Sachs  were among others.
* AMCAT assessment test was conducted for all the third year B Tech. and first year M. Tech. students.
* A special training was conducted for students lacking English and Communication skills. Mock sessions on communication, how to face interviews, soft skills, Cracking GDs were conducted by John Deere, Wipro, Infosys, Imagination Technology and Alumni of COEP.

**College Ranking as per the Results of Various Surveys**

|  |  |  |
| --- | --- | --- |
| **Sr. No.** | **Name of the Survey**  | **Ranking** |
| 1 | Competitive Success Review- Global Human Resource Development Centre(CSR-GHRDC) | 6th amongst the top 11 Engineering Colleges of Super Excellence |
| 1st amongst the top 8 institutes in Maharashtra |
| 2 | Outlook MDRA | 10th amongst the top 100 Engineering Institutes  |
| 3 | i3RC Times  | 11th amongst the top 150 institutes |
| 4 | The Week Hansa Research Survey | 23rd amongst the top 125 Engineering Institutes  |
| 5 | Data Quest Cyber Media Research & Services Ltd (DQ-CMR) | 7th  amongst the top 100 institutes |
| 6 | Chronicle  | A+++ grade |

**Some of the Future Plans of COEP**

* Ensuring Top-of-the Class Physical Infrastructure, comparable to elite institutes (like IITs/IIMs) of the country.
* Building conducive environment for education, research, and innovation by
	+ Strengthening 50 Existing UG/PG laboratories.
	+ Establishing 8 New laboratories for New PG Courses.
	+ Establishing Nano Machining and Smart Materials Center of Excellence.
	+ Inducting full time Ph. D. programme and instituting 50 fellowships.
* Empowerment of the available human resource, and hunt for the world Class human resource, for accelerating the academic growth by...
	+ Training Faculty and Staff
	+ Inviting foreign faculty to stay for a semester or a year on sabbatical
	+ Instituting the Professor Chairs of Excellence [1 per department]
	+ Handholding 50 good engineering colleges in India to excel like COEP

In a nutshell, COEP is progressing steadily towards its goal to excel amongst the community of engineering colleges and become a full fledged university and gain the status of national importance in the field of engineering education through dedicated efforts of its faculty, staff, students and thevaluable guidance from the Board of Governors.

Thank you.

Jai Hind and Jai Maharashtra

The Director

College of Engineering Pune

**PROGRAMMES OFFERED**

* **Undergraduate Programmes Offered**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sr. No.** | **Faculty / Department** | **Sanctioned Intake** | **Actual Admitted \*** |
| 1 | Civil Engineering  | 60 | 71 |
| 2 | Planning | 60 | 58 |
| 3 | Mechanical Engineering | 120 | 147 |
| 4 | Electrical Engineering | 60 | 69 |
| 5 | Electronics & Telecommunication Engineering | 60 | 74 |
| 6 | Metallurgy and Materials Science | 60 | 64 |
| 7 | Instrumentation & Control Engineering | 30 | 33 |
| 8 | Computer Engineering | 60 | 75 |
| 9 | Information Technology | 60 | 73 |
| 10 | Production Engineering(Sandwich) | 60 | 67 |
| Total | 630 | 731 |

**\*** Includes Supernumerary seats.

* **Postgraduate Programmes Offered**

|  |  |  |
| --- | --- | --- |
| **Department / Specializations** | **Sanctioned Intake** | **Actual admitted** |
| Civil Engineering | Construction Management | 18 | 18 |
| Structural Engineering | 18 | 18 |
| Geo-Tech Engineering | 18 | 18 |
| Town & Country planning | 31 | 25 |
| Environment & Water Resource Engineering | 18 | 18 |
| Mechanical Engineering | Thermal Engineering | 18 | 18 |
| Design Engineering | 18 | 18 |
| Automotive Technology | 36 | 36 |
| Electrical Engineering | Embedded Control Systems | 18 | 18 |
| Power Electronics and Power System | 18 | 18 |
| Power Electronics Machines and Drives | 24 | 24 |
| Electronics & Telecommunication Engineering | Wired & Wireless Communication  | 18 | 18 |
| Signal Processing | 18 | 18 |
| Digital System | 18 | 18 |
| VLSI & Embedded Systems  | 18 | 18 |
| Metallurgy and Materials Science | Materials Engineering | 18 | 17 |
| Process Metallurgy | 18 | 18 |
| Instrumentation & Control Engineering | Bio-Medical Instrumentation | 18 | 17 |
| Process Instrumentation | 18 | 17 |
| Computer Engineering | Computers | 18 | 18 |
| Information Security | 24 | 24 |
| Production Engineering | Manufacturing Automation | 18 | 17 |
| Mechatronics | 18 | 18 |
| Project Management | 18 | 18 |
| Total | 475 | 465 |

**Ph. D Programmes Offered**

|  |  |  |
| --- | --- | --- |
| **Sr. No.** | **Department** | **Ongoing****Students**  |
| 1 | Applied Science | 9 |
| 2 | Civil Engineering / Planning | 47 |
| 3 | Mechanical Engineering | 64 |
| 4 | Electrical Engineering | 29 |
| 5 | Electronics & Telecommunication Engineering | 72 |
| 6 | Metallurgy and Materials Science | 21 |
| 7 | Instrumentation & Control Engineering | 19 |
| 8 | Computer Engineering / Information Technology | 17 |
| 9 | Production Engineering | 24 |
| 10 | Mathematics | 1 |
| Total | 303 |

* One year Full time post graduate diploma programmes in ERP and Additive Manufacturing are offered by the Department of Production Engineering and Industrial Mangement.

**DETAILS OF THE CONTRIBUTED TALKS BY THE FACULTY**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sr.****No.** | **Name/title of the Lecture/ Talk** | **Date** | **Name of the faculty Speaker** | **Category of the Participants** | **Venue** |
| **Department of Civil Engineering** |
| 1 | Application of Biotechnology in environment(2C) | 10 /07/2016 | R.P.Thanedar | Faculty, Student | Institute of Bioinformatics and Biotechnology, SPPU Pune |
| 2 | " GIS and Remote Sensing Applications in Civil Engineering", | 17/12/2016 | Nitin M. Mohite | Faculty, Student, Industry   | Zeal Educational Societies, COE |
| 3 | Open channel Hydraulics and Manning’s formula’ | 26/09/2016 |  A. D. Thube | Officers of Public Works Department |   Maharashtra Engineering Training Academy (META) Nasik |
| 4 | Advances in Structural health Monitoring, NDT, Audit and Strengthening technologies in Civil and Aerospace Structures" | 2/01/2017-7/01/2017 | B.M.Dawari, | Faculty, Student | Walchand College of Engineering, Sangli  |
| 5 | “Experimental Case Studies of Damage Detection in RC Beams”, | 4/01/2017  | V. B. Dawari | Faculty, Student | Walchand College of Engineering, Sangli  |
| 6 | "Monitoring needs-inter basinflow transfer". | 11/02/2017 | Nitin M. Mohite | Faculty, Student, Industry   | Central Water & Power Research Station CWPRS, Khadakwasla, Pune |
| 7 |   Technical Aspects of on Farm Water Conservation |  14/02/2017 |  A. D. Thube | Faculty , students and Industry people  |   SCSM College of Engineering, Ahmednagar |
| 8 | "Plumbing Engineering a New Concept for Smart Cities in India" | 15/04/2017 | Nitin M. Mohite | Faculty, Student |   Pillat Hoc College of Engineering & Technology, Rasaani, Mumbai, |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sr.****No.** | **Name/title of the Lecture/ Talk** | **Date** | **Name of the faculty Speaker** | **Category of the Participants** | **Venue** |
| **Department of Mechanical Engineering** |
| 9 | Invited talk on “ Green Building”  | 08/08/2016 | Dr. S. N. Sapali | Faculty/Students | Bheemanna Khandre Institute of Techology |
| 10 | Keynote Speech during the inaugural function of “ Virtual Lab Setup for Refrigeration and Air Conditioning” | 08/09/2016 | Dr. S. N. Sapali | Faculty/Students | MMCOE , Pune |
| 11 | Orientation lecture for Avishakar | 28/09/2016 | P. R. Dhamangaonkar | Studnets | ASSMSCOE, Pune |
| 12 |  World Class Manufacturing | 29/09/ 2016 | M. P. Khond | Faculty | Govt. College of Engineering, Amaravati |
| 13 | “ Robot and Recent Trend in Robotic Sciences ” | 05/10/2016 | S. S. Ohol | Faculty / Studnets | Pimpri-Chinchwad Science Park, Chinchwad |
| 14 | Orientation lecture for Avishakar | 12/10/2016 | P. R. Dhamangaonkar | Studnets | VIIT, Kondhawa |
| 15 | “Robotics and Recent Trend in Robotics” | 26/11/2016 | S. S. Ohol | Students | Camp Education Society’s Junior College |
| 16 | " Advances in Manufacturing Processes" | 7/12/2016 | S. B. Patil | Faculty / Studnets | Dr. Daulatrao Aher College of Engineering, Karad |
| 17 | Expert lecture on fundamentals of CFD in one week STTP on CFD | 07/12/2016 | Dr. C. M. Sewatkar | Faculty/Students | DY Patil College of Engineering Pune |
| 18 | ‘Recent Trends in Mechatronics | 13/12/2016 | S. S. Ohol | Faculty / Studnets | Pimpri Chinchwad College of Engineering & Research, Pune |
| 19 | “Robot & Latest Trends in Robotic Sciences. | 13/12/2016 | Dr. S. S. Ohol | Students | Pimpri Chinchwad College of Engineering  |
| 20 | lecture on Ideation & Creativity | 20/12/2016-22/12/2016 | P. Kumar | Faculty / Studnets | SVER's College of Engineering, Pandharpur |
| 21 | "Gas Turbine & Aviation Engines Technology" | 22/12/2016 | P. R. Dhamangaonkar | Studnets | MIT Polytechnic, Pune |
| 22 |  Compliant mechanism |  27/12/2016 | S. S. Pardeshi | Faculty | D. Y. Patil COE Lohgaon |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sr.****No.** | **Name/title of the Lecture/ Talk** | **Date** | **Name of the faculty Speaker** | **Category of the Participants** | **Venue** |
| 23 | “Robotics and Recent Trends in Robotic Sciences” | 14/01/2017 | S. S. Ohol | Students | International University Centre for Astronomy and Astrophysics, Pune |
| 24 | Expert lecture on external flow | 23/01/2017 | Dr. C. M. Sewatkar | Students | Zeal Education Society College of Engineering Pune |
| 25 | Mechatronics Innovations in Robotics” | 04/03/2017 | Dr. S. S. Ohol | Students  | AISSMS College, Pune |
| 26 | Advanced Manufacturing Practices” | 12/06/2017-16/06/ 2017 | Dr. S. S. Ohol | Students | High Energy Materials Research Laboratory  |
| **Department of Electrical Engineering** |
| 27 | Getting started with LaTeX  | 10/11/2016  | Meera  Murali  | Faculty and students  | AISSMS College of Engineering.  |
| 28 | Energy efficient motors and web based testing of machines  | 30/5/2017-3/06/2017  | R. T. Ugale  | Faculty  | Electrical Engg. Dept. College of Engg. Pune  |
| 29 | Permanent magnet machines and drives  | 11/01/2017-13/01/2017  | R. T. Ugale  |  Studentand Faculty, 40 nos.  | Zeal College of Engg. and Research,  Pune  |
| 30 | Development of PM motors and Research at COEP  | 22/03/2017-23/03/2017 | R. T. Ugale  | National level research conclave (faculty, students 50 nos)  | Electrical Engg. Dept. College of Engg. Pune  |
| 31 | Power Electronics Applications in Power Systems  | 12/06/2017 | V.N. Pande  | Faculty  | AISSMS Institute of Information Technology, Pune  |
| 32 | Recent Trends of Power Electronics in Power Systems  | 17/06/2017 | V.N. Pande  | Faculty  | N.B. Navale Sinhgad College of Engineering, Solapur  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sr.****No.** | **Name/title of the Lecture/ Talk** | **Date** | **Name of the faculty Speaker** | **Category of the Participants** | **Venue** |
| **Department of Electronics & Telecommunication** |
| 33 | 1. Asynchronous Communication, RS232C standard
2. Synchronous Communication with I2C bus
 | 5/07/201712/07/2017 | P. P. Bartakke | Participants of TEQIP-FDP on “Embedded Product Design | COEP  |
| 34 | Signal Transforms: A Journey from Fourier to Wavelets  |  17/08/2016 | M.S. Sutaone  | Faculty & Students  |  V.I.T., Pune |
| 35 | Outcome Based Education  | 22/12/2016 | M.S. Sutaone  | Faculty | Govt. College of Engineering & Research, Awasari |
| 36 | Wavelet Transforms  |  19/05/2017 | M.S. Sutaone  | Faculty & Students  |  COEP |
| 37 | Wireless Sensor Network for IoT Applications           | 15/2/2017  | Radhika D. Joshi  | Faculty/ Students  | COEP |
| 38 |  Audio Beam Formation and Steering | 3/06/2017 | P. P. Bartakke | Participants of AICTE-STTP on “Select Topics in Signal Processing and Machine Intelligence with Hands on”  | COEP |
| 39 | Text file compression using LZW technique | 15/12/2016 | P. P. Bartakke | Participants of STTP on “Image Processing and Computer Vision” | COEP |
| 40 | Image Data Mining | 5/06/2017 | P. P. Rege | Participants of STTP on “ Data Mining :Research Avenues and Tools”  | Sinhgad College of Engineering, Pune |
| 41 | “Game Theory in Cognitive Radio” in the “Workshop on"Software Defined Radio with Labview and USRP"  | 20/02/2017-24/02/ 2017. |  R. A. Patil | Faculty and PG students.  |  Department of Electronics and Telecommunication, PICT, Pune. |
| 42 | Pattern Recognition | 6/06/ 2017 | P. P. Rege | Participants of STTP on “Image Processing and Computer Vision” | E & TC Dept. , CoE, Pune |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sr.****No.** | **Name/title of the Lecture/ Talk** | **Date** | **Name of the faculty Speaker** | **Category of the Participants** | **Venue** |
| **Department of Metallurgy and Materials Science** |
| 43 | XIX National Seminar on Ferroelectrics and Dielectrics | 19/12/2016 -21/12/ 2016 | K.R. Kambale | Students | Dept of Physics, Maulana Azad NIT, Bhopal |
| 44 | 5th Bharatiya Vigyan Sammelan & Expo 2017 | 11/05/2017 -14/05/ 2017 | P.P.Deshpande | Faculty | Fergusson College, Pune |
| **Department of Instrumentation and Control Engineering** |
| 45 | Sensors and Instrumentation  | 8/10/2016 | R. P. Mudhalwadkar  | Second Year Integrated M. Tech. Students   | Institute of Bioinformatics and Biotechnology SPPU, Pune   |
| 46 |  Power Plant Instrumentation | 31/01/ 2017 |  M. A. Khandekar | TY B. Tech. Students  |  D. Y. Patil College of Engineering, Akurdi, Pune |
| 47 | Analytical Instrumentation course  | January 2017 to April 2016   | R. P. Mudhalwadkar  | M. Tech-Ph.D. Students   | Department of Technology, SPPU, Pune   |
| 48 | Instrumentation in Agriculture and food processing  | 17/03/2017  | R. P. Mudhalwadkar  | Final Year B. E. and M. E. Students   | Cummins College of Engineering, Pune   |
| 49 | FPGA Embedded System Virtual Lab | 5/4/2016 | D. N. Sonawane | Faculty and Students | Walchand Institute of Technology, Solapur |
| 50 | Embedded Systems for Robotics | 18/02/2016 | D. N. Sonawane | Faculty and Students | Dr. D. Y. Patil College of Engineering, Akurdi, Pune |
| 51 | FPGA Embedded System Virtual Lab | 13/02/2016 - 14/02/2016 | D. N. Sonawane | Students | VPM's Maharshree Parshuram College of Engineering, Velneshwar, Ratnagiri |

|  |
| --- |
| **Department of Computer Engineering & Information Technology** |
| 52 | Contextual TextMining and NLP | 28/09/2016 | Yashodhara Haribhakta | Faculty and students | Cummins College of Engineering, Pune |
| 53 | Machine Learning Techniques | 27/02/2017 | Yashodhara Haribhakta | Faculty, students and industry people | Govt. College of Engineering Aurangabad  |
| 54 | Cryptography | 14/07/2016 | V. K. Pachghare | Faculty and Students | MITA, Alandi |
| 55 | Intrusion Detection System | 06/02/2017 | V. K. Pachghare | Faculty and Students | MMCOE, Pune |
| 56 | Introduction to Number Theory | 17/02/2017 | V. K. Pachghare | Faculty | COEP, Pune |
| 57 | Firewall and IDS | 12/03/2017 | V. K. Pachghare | Faculty | COEP, Pune |
| 58 | Biometric Watermarking | 14/12/2016 | Vandana Inamdar | faculty, industry experts, research scholor | E&TC department, COEP, Pune |
| 59 | Secure Web Application Development  | 16/02/2017 | D D Kshirsagar | Faculty, students and industry people | COEP, Pune |
| 60 | Semantic Web Security  | 12/03/2017 | D D Kshirsagar | Faculty and Students | COEP, Pune |
| 61 | Recent Trends in Cyber Security | 24/09/2016 | D D Kshirsagar | Students | COEP, Pune |
| 62 | Data Analytics and R Programming, Invited 15 Sessions | 17/03/2017 | Jagannath Aghav | PGP (MBA's), Fellows (PhD's) | IIM-R New Delhi |
| 63 | Big Data Analytics | 18/06/2016 | Jagannath Aghav | Faculty | DST FDP Ashta Sangli |
| 64 | Preparation of CO-POs | 10/01/2017 | Jagannath Aghav | Faculty | COEP Pune |
| 65 | Importance of Outcome based education | 30/05/2016 | Jagannath Aghav | Faculty | Symbiosis Pune |
| 66 | Big Data and IoT | 22/07/2016 | Vahida Attar | Faculty, Students and industry people | MIT Academy of Engineering, Alandi, Pune |
| 67 | Advanced Data Analytics in Machine Learning | 22/12/2016 | Vahida Attar | Faculty, Students and industry people | Vishwakarma Institute of Technology, Pune |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sr.****No.** | **Name/title of the Lecture/ Talk** | **Date** | **Name of the faculty Speaker** | **Category of the Participants** | **Venue** |
| 68 | Advances in Machine Learning and Big Data | 23/12/2016 | Vahida Attar | Faculty, Students and industry people | International Institute of Information technology Pune |
| 69 | Deep Learning | 03/03/2017 | Vahida Attar | Faculty, Students and industry people | Government College of Engineering, Aurangabad |
| 70 | Clustering in Data Mining | 12/04/2017 | Vahida Attar | Students | MIT, Pune |
| 71 | Project Based Learning  | 30/12/2016 | Sunil B. Mane | Kendriya Vidyalaya Teachers  | Kendriya Vidyalaya, BEG, Pune |
| 72 | Cyber Security and its Trends | 05/07/2017 | Sunil B. Mane | Faculty members of Various colleges | Dr. B.A.M.U., Aurangabad |
| 73 | Advanced Phishing Techniques and Cyber Security | 17/02/2017 | Sunil B. Mane | Faculty and Students | COEP |
| 74 | Recent Trends in Cyber Security | 10/03/2017 | Sunil B. Mane | Faculty and Students | COEP |
| **Department of Mathematics** |
| 75 | Graph Theory | 6/06/2017 | C. M. Deshpande | Faculty and research students from Computer and IT | Zeal Institute of engineering and Technology, Pune |
| 76 | Degree Sequences of Hypergraphs, Constructions for Self-Complementary and Almost Self-Complementary 3-uniform Hypergraphs | 27/06/2017 | C. M. Deshpande | Faculty and researchers from all over the world | Second Malta Conference in Graph Theory and Combinatorics at Malta. |
| 77 |  Semigraphs | 4/10/2016-5/10/2016 |  C. M. Deshpande | Faculty and research students  | Department of Mathematics, NIT, Durgapur  |
| 78 | Tutorial Sessions on Rings and Module Theory | 28/11/2016-. 10/12/2016 | J. T. Majithia | Research Students from all over India | Bhaskaracharya Pratisthana, Pune |
| 79 | Forbidden Minor Characterizations and Splitting of Binary Matroids |  21/02/2017 | K.V. Dalvi | Faculty  | Dept of Mathematics, SPPU, Pune |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sr.****No.** | **Name/title of the Lecture/ Talk** | **Date** | **Name of the faculty Speaker** | **Category of the Participants** | **Venue** |
| 80 | Key note Lecture on "Case Studies and Applications of Automation Studio in Academia" | 15/07/2016 | S. M. Patil | Faculty/Students/Industry | Sumant Moolgaonkar Auditorium, MCCIA Trade Tower, Senapati Bapat Road, Pune. |
| 81 | Delivered Expert lecture "Factor Influencing Product Design & Material" | 18/7/2016 | S. S. Anasane | Faculty/Students/Industry | ARAI, Chakan, Pune |
| 82 | Expert Talk on Outcome Based Education | 18/08/2016 | Rajiv B. | Faculty | D. Y. Patil College of Engineering, Akurdi, Pune |
| 83 | Expert tlak on "Preparation of Autonomy" | 7/9/2016 | B. B. Ahuja | Faculty | G H Raisoni Institute of Engineering & Technology, Wagholi |
| 84 | Talk on Industry Instituite Interaction | 18/11/2016 | N. R. Rajhans | Faculty/Students/Industry | SGSITS, Indore |
| 85 | Talk on Ergonomics | 21 & 24/11/2016 | N. R. Rajhans | Industry | ARAI, Chakan |
| 86 | Talk on "Niche Areas for Curriculum Consideration"  | 3/12/2016 |  B. B. Ahuja | Faculty/Students/Industry | SANGAM 2 016, Hyderabad |
| 87 | Talk on "Teaching Learning Process" | 15/12/2016 | B. B. Ahuja | Faculty/Students/Industry | Two days National Workshop on "Accreditation Process for Technical Institutions" |
| 88 | “Reliability based design and degraded analysis” | 6/1/2017 | M. D. Jayabhaye | Faculty/Students/Industry | Dr. Daulatrao Aher College of Engineering, Karad |
| **Sr.****No.** | **Name/title of the Lecture/ Talk** | **Date** | **Name of the faculty Speaker** | **Category of the Participants** | **Venue** |
| 89 | Talk on "Additive Manufacturing" | 9/01/2017- 10/01/2017 | B. B. Ahuja | Faculty/Students/Industry | 2nd Summit of ACMA Centre for Technology, at Hotel Westin |
| 90 | Talk on ""Additive Manufacturing"" | 20/1/2017 | B. B. Ahuja | Faculty/Students/Industry | Seminar "Achieving Make-in-India Through Manufacturing Advancement" , AISSMS COE  |
| 91 | “Introduction to Tribology and its importance”,  | 23/01/2017 | B. U. Sonawane | for B.Tech Students | Matoshri College of Engineering, Nanded |
| 92 | "Engineering Education- Theory Vs Application" | 2/2/2017 | B. B. Ahuja | Faculty/Students/Industry | Knowledgeexpo Conference on Higher Education, New Delhi |
| 93 | Talk at DD Sahaydri on "National Technology Day"  | 11/5/2017 | N. R. Rajhans | All | DD Sahaydri, Worali, Mumbai |
| **Department of Applied Science** |
| 94 | Awareness lectures for hygiene | October 2016 & March 2017 | M K Ranjekar | for the villagers of the villages under Unnat Bharat program | All the Villages adopted under UBA |
| 95 | Expert talk at Vigyan katta on carbon footprint reduction, rain water harvesting, swayam a success story | March 2016 & January 2017 | M Y Khaladkar | All | -- |
| 96 | Delivered a webinar for engineering students organised by Integrated Technology Olympiad | 22/10/2016 | T. J. Kher | Students | COEP |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sr.****No.** | **Name/title of the Lecture/ Talk** | **Date** | **Name of the faculty Speaker** | **Category of the Participants** | **Venue** |
| 97 | Delivered lectures for engineering students on Stress mangement  | 24/01/2017 &15/02/ 2017 | T. J. Kher | Students | Sharada Shakti at VIT and Sinhagad Engg. College |
| 98 | Guest lecture on ‘Time Management’  | 6/07/2016 | A B Patil | Students | YASHADA, Pune |
| 99 | Guest lecture on ‘Preparation for Technical Paper Presentation’ | 9/09/2016 | A B Patil | Students | Cursow Wadia Institute of Technology, Pune |
| 100 | Guest lecture on ‘Soft Skills’ | 5 /10/2016 | A B Patil | Students | Department of Electronics, Bharati Vidyapeeth / University’s College of Engineering |
| 101 | Guest lecture on Soft Skills Development | 15 /10/ 2016 | A. B. Patil | Students | Department of Mathematics, Savitrabai Phule Pune University |
| 102 | Guest lecture on ‘Strategies to Enhance Oral and Written Competence’ | 24/10/ 2017 | A .B. Patil | Students | Anantrao Pawar College (Arts, Commerce & Science) |
| 103 | Guest lecture on ‘How to Write a CV' | 25 /10/ 2017 | A. B. Patil | Students | Sinhagad College of Engineering Pune |
| 104 | Guest Lecture on 'Enriching Vocabulary through Communication' | 30/1/2017 | A .B. Patil | Students | Sanghvi Keshri College of Arts and Commerece, Chinchwad, Pune |

**MEMBERSHIPS TO SOCIETIES/ PROFESSIONAL BODIES**

|  |  |
| --- | --- |
| **Name of Society/ Professional Body** | **Name of Faculty Member** |
| **Department of Civil Engineering** |
| Council of Architecture, India | A. S. Petkar |
| Institute of Town Planners, India | P. M. RavalS. G. SonarA. S.PetkarA. D. Thube |
| Indian Institute of Architect | A. S. Petkar |
| Indian Society of Technical Education | S. R. Sathe N. B. Chaphalkar S. Mukhopadhay P. M. RavalB. M. Dawari S. R. PathakM. S. Randive G. S. Vyas H. K. MunotM. U. Khobragade I. P. Sonar R. P. Thanedar R. S. DalviS. A. Meshram S. D. Kulkarni  S. N. MadhekarS. S. Bhosale Y. T. LomtePatil A. D. Thube  Y. A. Kolekar A. S. Petkar |
| Indian Water Research Society | S. Mukhopadhay S. A. MeshramS. G. Sonar |
| Indian Society of Hydraulics |  S. R. SatheS. Mukhopadhay |
| Indian Association of Hydrologists, | A. D. Thube  |
| Indian Society of Theoretical Applied Mechanics | S. Mukhopadhay |
| Indian Society of Computational Mechanics |  B. M. Dawari |

|  |  |
| --- | --- |
| **Name of Society/ Professional Body** | **Name of Faculty Member** |
| Institution of Smart structures and Materials, Bangalore | B. M. Dawari |
| International Water Association (IWA), London |  P. M. Raval |
|  Institution of Engineer |  P. M. RavalS. R. PathakH. K. MunotI. P. SonarM. U. KhobragadeS.N. MadhekarM. S. RandiveS. G. SonarS. S. BhosaleMrs. A. D. Thube |
| Indian Society for Construction Materials and Structures (ISCMS), New Delhi, India | P. M. Raval |
| Indian Geotechnical Society | S. R. PathakM. S. RandiveS. S. Bhosale |
| Institution of Valuers | H. K. Munot |
| Member of International Tunnelling Association, 2003 | M. S. Randive |
| Indian Roads Congress | M. S. Randive |
| S. S. Bhosale |
| Association of Consulting Civil Engineers (India) | M. S. Randive |
| Indian Geological Congress | S. A. Meshram |
| Gondwana Geological Society | S. A. Meshram |
| Geological Association and Research Center. (Honorary) | S. A. Meshram |
| Indian Concrete Institute | M. S. RandiveS. N. Madhekar |
| American Society of Civil Engineering (ASCE) | N. M. Mohite |
| International Association of Computer Science and Information Technology  | N. M. Mohite |
| Indian Plumbing Association (IPA)  | N. M. Mohite |

|  |  |
| --- | --- |
| **Name of Society/ Professional Body** | **Name of Faculty Member** |
| Indian Environmental Association Pune & India | R. P. Thanedar |
| Water Environment Federation U. S. A. | R. P. Thanedar |
| Institute of Urban Transport (India) | S. G. Sonar |
| Indian Society for Wind Engineering |  S. G. Sonar |
| Alumni Association of COE | I. P. SonarS. N. MadhekarA. D. Thube |
| Indian Society of Structural Engineers | S. N. Madhekar |
| Maharashtra India Chapter of ACI | S. N. Madhekar |
| Founder member, Ferrocement Society, Pune | S. N. Madhekar |
| Indian Association of Structural Rehabilitation | S. N. Madhekar |
| Regional Science Association, Calcutta |  A. S. Petkar |
| **Department of Mechanical Engineering** |
| IET / SAE | P R Dhamangaonkar |
| IET, ISTE | M G Karnik |
| MIE, M IC, ISTE | M R Nandgaonkar |
| Indian Society for Heat and Mass Transfer | C. M. Sewatkar |
| **Department of Electrical Engineering** |
| IET, IEEE | D. B. Talange |
| IE,IEEE,IETE,ISTE | S. S. Dambhare |
| IET, ISTE, IE(I) | V. N. Pande |
| IET, IEED, IE(I), ISTE | A. A. Dharme |
| IET, IEEE, BMESI, ISTE, IETE, IEI  | P. P. Rege |
| ISTE, IETE, ISTE | M. S. Sutaone  |
| A. M. Sapkal |
| R. A. Patil |
| IETE | S. P. Mahajan |
| R. D. Joshi |
| IEEE |  V. V. Ingale |
| IET | S. P. Metkar |
| ISTE | .V. N. More |

|  |  |
| --- | --- |
| **Name of Society/ Professional Body** | **Name of Faculty Member** |
| **Department of Metallurgy & Materials Science** |
| Life member of “Powder Metallurgy Association of India (PMAI),Life member of “Society of Polymer Science” Pune chapter. | R. K. Goyal |
| Life member of The Indian Institute of Metals (IIM) | Kaustub Kambale |
| Life Member of "Materials Research Society of India (MRSI)" LM B849Life Member of "Powder Metallurgy Association of India (PMAI)" LM-00156 | Manisha Kulthe |
| **Department of Mathematics** |
| Indian Mathematical Society | K. V. DalviR. P. MoreN. V. Shinde  |
| Academy of Discrete Mathematics and Applications | K. V. DalviC. M. DeshpandeR. P. MoreS. P. Kavishwar A. B. Dhere, A. M. AbhyankarN. V. Shinde, Y. M. Mahatekar, B. P. Athawale |
| Indian Society for Technical Education | K. V. DalviR. P. MoreN. V. Shinde |
| **Department of Instrumentation & Control Engineering** |
| IEEE –Instrumentation and Measurement Society | S. L. Patil |
| C. Y. Patil |
| S. D. Agashe |
| P. D. Shendge |
| R.P. Mudhalwadkar |
| M.A. Khandekar |
| K. A. Bhole |
| K. A. Ghodinde |
| U. M. Chaskar |
| A. S. Deshpande |
| The IET | S. L. Patil |
| R. P. Mudhalwadkar |
| U. M. Chaskar  |
| P. D. Shendge  |
| D. N. Sonawane |

|  |  |
| --- | --- |
| **Name of Society/ Professional Body** | **Name of Faculty Member** |
| Instrument Society of India | S. L. Patil |
| C. Y. Patil |
| S. D. Agashe |
|  P. D. Shendge |
| R.P. Mudhalwadkar |
| M.A. Khandekar |
| K. A. Bhole |
| K. A. Ghodinde |
| U. M. Chaskar |
| Biomedical Engineering Society of India | S. L. Patil |
| C. Y. Patil |
| S. D. Agashe |
| P. D. Shendge |
| R. P. Mudhalwadkar |
|  U. M. Chaskar |
| D. N. Sonawane |
| **Department of Computer Engineering & Information Technology** |
| IEEE, IET, ISTE  | Jibi Abraham |
| ACM, IEEE, CSTA, CSI, IETE, ISTE, IET, IIPA, IARCS, ISCA, Wiki-Chapter, ISCB | Jagannath Aghav |
| IEEE, CSI, ISTE, IE | V. Z. Attar |
| ISTE, IETE, AMIEE | Y.V. Haribhakta |
| BOS Member in Computer Engineering / Information Technology of a number of Autonomous Institutes. | Pachghare V. K |
| Life Member, CSI, Was a member of Database Systems Lab at IISc.  | Abhijit A. M |
| Indian Society for Technical Education: Life Membership | S. K. Gaikwad |
| ISTE | Soma Ghosh |
| S. N. Ghotkar |
| V. M. Khadse. |
| V. K. Khatavkar |
| S. S. Kumbhar |
| TanujaPattanshetti |
| CSTA, IACSIT, CSI, ISTE, IARCS, IAENG, ISCA, IAEST, ICST, ACM | D. D. Kshirsagar |
| IEEE, ISTE, Computer Society of India (CSI) | S. B. Mane |

|  |  |
| --- | --- |
| **Name of Society/ Professional Body** | **Name of Faculty Member** |
| **Department of Production Engineering & Industrial Management** |
| I.MECH.E (UK) F | S. K. BasuB. B. Ahuja |
| F. I E |
| **Department of Physics** |
| Institution of Engineering and Technology (IET) | Shweta Chaure  |
| Jagdish Dadge |
| **Department of Applied Science** |
| SAEST | J. A. KherK. S. SuranjeN. V. IyerM. Y. Khaladkar |
| Children’s’Future India, Pune chapter appointed as a expert on Local advisory board | Tanuja Kher |
| IET - UK | M. Y.KhaladkarJ. A. KherM. K.Ranjekar |
| Indian Institute of Metals , CalcuttaMaterials Research Society of IndiaInstruments Society of India | J. A. Kher (Life Member) |

**NATIONAL/ INTERNATIONAL VISITS OF THE FACULTY**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name of the faculty** | **Name of the National /International Place Visited** | **Purpose** | **Date** |
| **Department of Civil Engineering** |
| V. Kakade | NIIT Bhopal | STTP | 27 June-8 July 2016 |
| M. U. Khobragade | National Institute of Technology Calicut | STTP | 27 June-2 July 2016 |
| S.V. National Institute of Technology, Surat | STTP | 26-30 September 2016 |
| IIT Kharakpur | STTP  | 6-10 March 2017 |
| M.S. Ranadive | Shandong, China | InternationalConference  | 25-27 July 2016  |
| Koimatore | International Conference  | 2016 |
| IIT Roorkee | National Conference | 2016 |
| V. B. Dawari |  IIT Bombay, | International Conference  | 2016 |
| B. M.Dawari, | IIT Delhi. | International Conference  | 2016 |
| IIT Bombay | International Conference  | 2016 |
| R. R. Joshi | IIT  Delhi | International Conference  | 2016 |
| I. P. Sonar | IIT Hydrabad | STTP | 6-11 June 2016 |
| Bankok , Thailand | International Conference | 13- 17 December 2016 |
| R. P. Thanedar | GCOE Aurangabad | STTP | 23 September 2016 |
|  | Sardar Vallabhbhai National Institute of Technology, Surat | STTP | 17-21 October 2016 |
| A.D. Thube | META Nashik | STTP | 26 September 2016 |
| IIT Bhubaneswar | STTP | 0-08 December 2016 |
| IIM Indore | STTP | 02-08 February2017 |
| Nitin M. Mohite | ISH, Frankfurt, Germany | International Conference  | 2017 |
| Germany, Switzerland and Czech Republic | World Plumbing Scholarship | 2017 |
| **Department of Mechanical Engineering** |
| D. W. Pande | Annapolis, Maryland US | International Conference | 14-17 November 2016 |
| Dayanand Sagar University, Bangalore |  Appointment on AICTE Expert Committee | 9-10 February 2017 |
| IITBHU, Varanashi (U.P.) | National Conference | April 2017 |
| AICTE, New Delhi, | Committee member  | 12 May 2017 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Name of the faculty** | **Name of the National/ international Place visited** | **Purpose** | **Date** |
| C. M. Sewatkar | IIT Bombay, Mumbai,  | International Conference | 27June - 1July 2016 |
| Allahabad, U.P., India | International Conference | 15-17 December,2016 |
| NIMS Jaipur | AICTE inspection for J & K Scholarship programme | 19 October 2016 |
| JDIT, Yavatmal | STTP on Conceptual and Application oriented Studies on Heat Transfer and Fluid Mechanics  | 15 April 2017 |
| M R Nandgaonkar | NIT, Warangal, | International Conference | 23 - 25 February, 2017. |
| M P Khond,  | Detroit Lawrence Tech Campus, USA | International Conference | 24 September 2014  |
| S. S. Pardeshi | Guwahati, India | International Conference | 9-11 January 2017 |
| P Kumar | Vadodara, India | International Conference | 16-18 Jan 2017 |
| N. K. Chougule | Banglore | Workshop | 27 - 28 April 2017 |
| N. D. Shikalgar  | India Exposition Mart Ltd., Greater Noida, | Visit to ACREX-2017(HVAC&R the industrial exhibition) | 23 - 25 February 2017 |
| P. R. Dhamangaokar | Shreeyash COE & T  | Chairman, LIC Committee | 9 February 2017 |
| Jawaharlal Nehru Engineering College | Chairman, LIC Committee | 10 February 2017 |
| S. N. Sapali | MMCOE, Pune | Chief Guest for Virtual RAC Laboratory | 8 September 2016 |
| MMCOE, Pune | Judge for TechnoCHILL 2017 | 17 January 2017 |
| Modern Education Society’s COE, Pune | Chief Guest for National Conference | 15 March 2017 |
| P. S Shinde | Bangkok, Thailand | International Conference | 16-17 December 2016 |
| **Department of Electrical Engineering** |
| R. T. Ugale and D. B. Talange  | IISc Bangalore  | ProSIM Workshop   | 16-17 May 2017   |
| R. T. Ugale  | Danfoss, Chennai  | Industrial interactions  | 19-20 June 2017  |
| R. T. Ugale  | Trivandrum  | Paper presentation in IEEE PEDES Int. conference  | 13-17 December 2016  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Name of the faculty** | **Name of the National/ international Place visited** | **Purpose** | **Date** |
| R. T. Ugale  | Florence, Italy  | Paper presentation in IECON 2016  | 23-27 October 2016  |
| Pratap kumar Koppolu, Bhagyasri Tamhane  | Nagarjuna Sagar Hydal Power plant, Hyderabad, Telangana   | Industrial Visit  | 1-6 April 2017   |
| V.N. Pande  | IIM, Kozhikode  | Management Capacity Enhancement Program  | 5-10 December 2016  |
| S S Dambhare  | Singapore  | To present four papers in International conference (Tencon)   | 22-25 November, 2016  |
| S S Dambhare  | Nuremberg, Germany  | Paper presentation and networking for ICPS 2017.  | 27-29 June 2017  |
| S S Dambhare  | Chicago, USA  | Paper presentation and networking for ICPS 2017.  | 12-22 July 2017   |
| S S Dambhare  | IIT Bhubaneswar  | To present three papers in National conference on Power Systems  | 19 - 21 December 2016  |
| Trupti Hinge  | Dallas, Texas, USA  | Paper presentation in International Conference IEEE PES T&D 2016  | 2 –5 May 2016  |
| Snehal Unde  | Boston, MA, USA  | Paper presentation at IEEE PESGM 2016  | 17-21 July 2016   |
| Snehal Unde  | MIT, Boston, MA  | Visit to Laboratories and interaction with PhD Scholars  | 17-21 July 2016  |
| Snehal Unde  | Harvard University, Boston, MA  | Visit to Laboratories and interaction with PhD Scholars  | 17-21 July 2016  |
| Snehal Unde  | IIT Delhi  | Paper presentation at ICPS 2016  | 4-6 March 2016  |
| Sunanda Ganegaonkar  | Peoria Lllinois, UK | COEP Baja team Car racing | 10-11 June 2017 |
| **Department of Electronics and Telecommunication Engineering** |
|  Prof. Mukul Sutaone   |  Tel Aviv University, and Inter-disciplinary Center (IDC)- Herzliya, Israel |  Participation in the Conference organized by Sakal, "EduCon-2016" |   26- 30 September 2016 |
|  IIT Kharagpur |  Participation in GIAN Course on VLSI Architectures for Signal Processing |   26 -30 December 2016 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Name of the faculty** | **Name of the National/ international Place visited** | **Purpose** | **Date** |
| P. P. Rege | Ahmedabad University | To review research candidates at Ahmedabad University | 15 July 2016  |
| AICTE headquarters, Delhi  | To attend meeting of AIB of Post Graduate Education and research in engineering and Technology  | 30September 2016 |
| Ahmedabad University | To review research candidates at Ahmedabad University | 11 January 2017 |
| AICTE headquarters, Delhi  | To attend meeting of Sub-committee AIB of Post Graduate Education and research in engineering and Technology  | 27 February 2017 |
| Gujrat Technological University | To review research candidates  | 15 March 2017  |
| Nanyang Technological University, Singapore  | To initiate interaction between COEP and NTU | 2-7 April 2017 |
| Rashmika Patole |  IISc Bangalore |  1 week AICTE sponsored short term course on 'Probability and Statistics for machine Learning.' |  28 November-2 December 2016. |
|  Arlington VA, USA |  International Conference on Audio Forensics |  15 -17 June 2017 |
|  Deeplaxmi V. Niture |  Singapore | International conference -TENCON 2016 |  22 -25November 2016 |
|  P. P. Bartakke  | IIT, Kharagpur | Attending GIAN Course on “VLSI Architectures for Signal Processing and Machine Learning” | 19-30 December 2016 |
|   IIM, Udaypur | Attending TEQIP -MDP on “Management Capacity Enhancement Programme”  | 13-17 February 2017 |
| R. A. Patil |  C-DAC Pune |  Subject Expert on Interview Panel  | 14-15 December. 2016 |
| Varada Potnis Kulkarni  |  IIT Kanpur | Short term Course |  21- 24 April 2017 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Name of the faculty** | **Name of the National/ international Place visited** | **Purpose** | **Date** |
| **Department of Metallurgy and Materials Scienece** |
|  N. B. Dhokey | Germany | Presented Paper in European Powder Metallurgy World Congress-2016 Hamburg on "Recycling of mill scale for iron" | 10–13 October 2016  |
|  S. P. Butee | Germany | Presented Paper in European Powder Metallurgy World Congress-2016 Hamburg on "Development of Near Net Shape Fe-Cu-C Sintered Powder Compacts Through Composition Control" | 10–13 October 2016  |
|  P.P.Deshpande | State Polytechnic University, Institute of Energy and Transport Systems, Saint-Petersburg | Lecture on "Corrosion of Heat Engineering Equipment", POLYTECH, Peter the Great St. Petersburg, Visiting Lectures for 20 h | 5 - 19 December 2016 |
| **Department of Mathematics** |
| C. M. Deshpande  | Department of Mathematics, South Asian University, New Delhi, India. |   International Conference on Current Trends in Graph Theory & Computations (CTGTC 16) | 17 -19 September 2016 |
|   National Institute of Technology, Durgapur, West Bengal, India. |   Workshop on “Signed Graphs and Semi Graphs”(WSGSG-2016) |  3 – 7 October 2016 |
| Birla Institute of Technology and Science Pilani, K K Birla Goa Campus  | Workshop on “Teaching Strategies in Mathematics” | 28-29 April 2017 |
| Department of Mathematics, University of Malta, Malta | Second Malta Conference in Graph Theory and Combinatorics 2MCGTC-2017 | 25-30 June 2017 |
| R. P. More A. B. Dhere  | Department of computer science, IIT Bombay | QIP on “Monte-Carlo Simulation of Complex Biological Systems” | 13-17 June 2016 |
| Y. M. Mahatekar | Department of Avionics, Thiruvanantpuram | National seminar on “Control system design-Fractional controller and its applications” | 14 -16 December 2016 |
| J. T. Majithia  | CTARA cell, IIT Bombay. | Work to be done under Unnat Bharat Abhiyaan  | 16 November 2016 |
| M. P. More | NIT Silchar, Assam | Workshop on Advances in Stability Analysis on Dynamical Systems | 08 -12March 2017 |
| **Name of the faculty** | **Name of the National/ international Place visited** | **Purpose** | **Date** |
| **Department of Instrumentation and Control Engineering** |
| Meera Khnadekar | Central Water and Power Research Station | National Workshop |  14 June 2017 |
| R. P. Mudhalwadkar |  Barcelona, Spain  |  To attend International Conference on Sensors and Electronic Instrumental advances  |  21-24 September 2016 |
| S.L. Patil | NTU Singapore | Explore the possibilities in following areas - 1. Research Collaboration 2. Faculty exchange 3.  Student Internship |  3-7 April 2017 |
| D. N. Sonawane | Department of Chemical Engineering, University of Washington, Seattle | Invited as a Visiting Associate Professor | 22May- 20 July, 2017 |
| **Department of Computer Engineering and Information Technology** |
| Vinod K. Pachghare | Tel Aviv, Israel | EDUCON Conference | 26-30 September 2016 |
| Vandana Inamdar | SGGS, Nanded | IconSIP conference | 6-8 October 2017 |
|  Jagannath Aghav    |  |  |  |
| DRIEMS Cuttack Bhubaneshwar, Odisha | Grant of Autonomy |  6-8 November 2016 |
| India UK Tech Summit Taj New Delhi | AICTE-CII Conference |  7-9 November 2016 |
| NITTTR Chandigarh | Accreditation  |  15-16 January 2017 |
| Stanford, UC Berkeley, Facebook, USA | Coursera, Collaboration | 26May - 9June 2017 |
|  D D Kshirsagar    | C-DAC PUNE | External ex​per​t ​on interview committee | 5 September 2016 |
| C-DAC PUNE | External ex​per​t ​on interview committee | 5 November 2016 |
| C-DAC PUNE | External ex​per​t ​on interview committee | 20 April 2017 |
| C-DAC PUNE | External ex​per​t ​on interview committee | 19 May 2017 |
| C-DAC PUNE | External ex​per​t ​on interview committee | 15 June2017 |
|  Vahida Attar    | MIT Academy of Engineering, Alandi, Pune | Expert member for interview | 24 May 2016 |
| PES's Modern College of Engineering, Pune | External Examiner for Dissertation stage II of ME Computer | 21 September 2016 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Name of the faculty** | **Name of the National/ international Place visited** | **Purpose** | **Date** |
|  Vahida Attar       | VIT University, Chennai | Doctoral Progress Seminar Evaluation | 3 February 2017 |
| Savitribai Phule Pune University (SPPU) | PG Dissertation Examination | 6 February 2017 |
| G. H. Raisoni College of Engineering and Management, Pune | Session Chair for SPCN, 2017 | 18 February 2017 |
| Marathwada Mitra Mandal's Institute of Technology (MMIT) | Session Chair for NCRTCT, 2017 | 30 March 2017 |
| Sipna College of Engineering and Technology, Amravati | Gap Ananlysis Process | 14 April 2017 |
| Sunil B Mane         | Pimpri Chinchwad College of Engineering, Pune | Session Chair, ICCUBEA-2016 | 13 August 2016 |
| AISSMS's College of Engineering, Pune | Judge for National Level Technical Symposium | 12 September 2016 |
| Dr. Babaseb Ambedkar Marathwada university, Aurangabad | PG Dissertation Examination | 26 September 2016 |
| DRIEMS Cuttack Bhubaneshwar, Odisha | Grant of Autonomy |  6-8 November 2016 |
| India UK Tech Summit Taj New Delhi | AICTE-CII Conference |  7-9 November 2016 |
| Solapur University, Solapur | External Examiner for PhD Open Defence | 5 December 2016 |
| NITTTR Chandigarh | Accreditation  |  15-16 January 2017 |
| Bharati Vidyapeeth's College of Engineering for Women, Pune | Judge for ProyectoEX 2017 | 3 March 2017 |
| MIT Academy of Engineering, Alandi, Pune | Academic Standing Committee Meeting  | 29 April 2017 |
| **Department of Production Engineering and Industrial Management** |
| B.B.Ahuja | International - Israel  | 12th Annual Sakal Educon Summit to be held at Israel  | 26-30 September 2016 |
| Mr. S. U. Ghunage | International - Shenzen, China | To attend the 12th International Fab Lab Conference and Symposium | 8-14 August 2016 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Name of the faculty** | **Name of the National/ international Place visited** | **Purpose** | **Date** |
| Rajiv B. | National - PSG College of Technology, Coimbatore | NBA Expert – PG Product Design  | 10-13 July 2016 |
| National -SGGS College of Engineering and Technology Nanded | Expert Member -Research Conclave | 30-31 July 2016 |
| International - Singapore, Nanyang Technological University (NTU), Singapore | Visit of Deans/Heads of COEP to understand teaching learning process | 1-8 April 2017 |
| National - Dr B R Amedkar NIT Jalandhar | NBA Expert –Industrial Production Engineering | 12-14 May 2017 |
| National - PSG College of Technology, Coimbatore | NBA Expert – PG Product Design  | 10-13 July 2016 |
| **Department of Applied Science** |
| A.B. Patil | MIT Engineering College, organised by Shree Saraswati New English School | Judged the 20th Inter-school Debate Festival | 29 September 2017 |
| M. K. Ranjekar | Visit to the Villages adopted under Unnat Bharat Abhiyan | Conduct Awareness camps, surveys etc. | October 2016, March 2017 |
| M. Y. Khaladkar | NIT Raipur  | Delivered TEDx talk- Role of Mentor in long term interdisciplinary project | 25 March 2017 |

**CONFERENCES/ SEMINARS/ WORKSHOPS/ REFRESHER COURSES ATTENDED**

* **National Conferences Attended**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr. No.** | **Title of the Conference** | **Name of the Faculty** | **Period** | **Venue** |
| **Department of Mechanical Engineering** |
| 1 | Symposium on International Automotive Technology (SIAT) | D W Pande | January 18-21 2017  | ARAI, Pune India |
| 2 | COMET’17 | D W Pande | April 2017 | IITBHU, Varanashi (U.P.) |
| 3 | 2nd National Conference on Research & Development in Mechanical Engineering | S. N. Sapali, N. D. Shikalgar | 09 -10 February 2017 |  Pune |
| 4 | 2nd national conference on research & development in mechanical engineering | S. N. Sapali | 09 -10 February 2017 |  Pune |
| **Department of Electrical Engineering** |
| 5 |  Research Conclave |  All faculty | 24-25 March 2017  |  COEP |
| 6 | National Power Systems Conference NPSC-2016   | Trupti P. Hinge, S. S. Dambhare, Prashant Gawande | 19 - 21 December 2016 | IIT Bhubaneswar |
| **Department of Mathematics** |
| 7 | National Conference on discrete Mathematics | A.V.ShindeDr. K.V. Dalvi | February -2017 | Dept of Maths, SPPU |
| 7 | National Conference of Pure & Applied Mathematics (NCPAM-2017) | All faculty (13) in the Dept | 17-19 May 2017 | Dept of Maths, College of Engg, Pune |
| **Department of Applied Science** |
| 9 | National Conference in Chemistry and Allied Sciences | All faculty | 22-24 December 2016 | COEP |

* **International Conference Attended**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr. No.** | **Title of the Conference** | **Name of the Faculty** | **Period** | **Venue** |
| **Department of Civil Engineering** |
| 1 | 4th GeoChina 2016, Geotechnical Special Publication, ASCE | M.S. Ranadive | 25-27 July,2016 | Shedong, China |
| 2 | GeoMEast 2017, (Springer Journal), Sustainable Civil Infrastructures,  | M.S. Ranadive | Paper Accepted 15-19 July. 2017 | Sharm El-Sheikh, Egypt |
| 3 | Association of Researchers In Construction Management (ARCOM) 32nd Conference and AGM | G.S.Vyas, Jha K. N. and Patel D. A. | 5-7 September 2016. | Manchester U.K. |
| 4 | The Fifth International Symposium on Life -Cycle Civil Engineering, IALCCE2016,  | G.S.Vyas, Jha K. N. and Patel D. A. | 16- 19 October 2016. | Netherland |
| 5 | World Congress on Engineering & Applications held on and published in the Proceeding.  | I. P. Sonar | 16-17 December 2016. | Bangkok |
| **Deapartment of Mechanical Engineering** |
| 6 | 29th Space Simulation Conference,  | D. W. Pande,  | 14-17 November 2016. | Annapolis, Maryland US |
| 7 | World congress on Engineering and Applications (WCEA-2016) |  Prakash S Shinde | 16-17 December 2016 | Bangkok, Thailand |
| 8 | 6th International & 27th All India Manufacturing Technology, Design and Research Conference (AIMTDR2016) | V. K. Haribhakta, S B. Patil, S S. Pardeshi | 16-20 Dec. 2016 | CoEP, Pune |
| 9 | 6th International and 43rd National Conf. on Fluid Mechanics and Fluid Power | C. M. Sewatkar | December 15-17, 2016, | Allahabad, U.P., India |
| 10 | 6th International and 43rd National Conf. on Fluid Mechanics and Fluid Power | C. M. Sewatkar | December 15-17, 2016, | Allahabad, U.P., India |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr. No.** | **Title of the Conference** | **Name of the Faculty** | **Period** | **Venue** |
| 11 | 6th International and 43rd National Conf. on Fluid Mechanics and Fluid Power | C. M. Sewatkar | December 15-17, 2016, | Allahabad, U.P., India |
| 12 | 6th International and 43rd National Conf. on Fluid Mechanics and Fluid Power | C. M. Sewatkar | December 15-17, 2016, | Allahabad, U.P., India |
| 13 | 6th International and 43rd National Conf. on Fluid Mechanics and Fluid Power | C. M. Sewatkar | December 15-17, 2016, | Allahabad, U.P., India |
| 14 | Int. Conf. of Recent Advances in Mechanical Engineering,  | C. M. Sewatkar | 14-15 Oct 2016 | Dehli, India, |
| 15 | ICCMS2016,  | C. M. Sewatkar | June 27-July 1, 2016 | IIT Bombay, Mumbai, India, |
| 16 | 1st International and 18th ISME conference on Enabling Sustainable Development in Mechanical Engineering,  | M R Nandgaonkar | 23-25 February, 2017. | NIT, Warangal, |
| 17 |  (AIMTDR2016) | Selmokar P. H Pardeshi S. S.,  | 16-20 Dec. 2016 | CoEP, Pune |
| 18 | International conference on Material Manufacturing and Design Engineering  | M.P.Khond | December20-21,2016 | -- |
| 19 | IEOM international Conference  | M P Khond,  | Sept 24, 2016.  | Detroit Lawrence Tech Campus, USA |
| 20 | IEOM international | M P Khond,  | Sept 24, 2016.  | Detroit Lawrence Tech Campus, USA |
| 21 | (AIMTDR2016)  | Mundra S.S., Pardeshi S.S.,  | December 2016 | COEP |
| 22 |  (AIMTDR2016) | Bhavikatti S.S.  | December 2016 | COEP |
| 23 | International Conference on Research into Design | S. S. Pardeshi, B. B. Deshmukh | , 9-11 January, | Guwahati, India |
| 24 | World Congress on Engineering & applications  | V. K. Tripathi,  | 16-17 Dec. 2016 | Bangkok, Thailand |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr. No.** | **Title of the Conference** | **Name of the Faculty** | **Period** | **Venue** |
| **Department of Electrical Engineering** |
| 25 | IECON 2016 | R.T.Ugale, Tushar Sambharam, B. N. Chaudhari, S. L. Pati | 23rd – 27th  October 2016. | Florence, Italy  |
| 26 | PEDES 2016 | Priyanka Bastawade, B. N. Chaudhari ,R.T.Ugale, A Pramanik | 13th – 17th December 2016 | Trivendrum, India |
| 27 | PEDES 2016 | R. T. Ugale and  Kunal B. Chavhan  | 13th – 17th December 2016 | Trivendrum, India |
| 28 | IEEE PESGM | Snehal Unde, Sanjay Dambhare | July 2016 | oston, MA, USA |
| 29 | NPSC 2016 | Snehal Unde, Sanjay Dambhare | August 2016 | IIT Bhubaneshwar |
| 30 | TENCON 2016 | Indrajeet Bhavar, Snehal Unde, Sanjay Dambhare | Nov 2016 | Singapore |
| 31 | 7th PIICON 2016  |  Pallavi Bharti, Apurva Dehankar, Shalvi Raut , Snehal Unde, Sanjay Dambhare | Nov 2016  | Bikaner, Rajasthan |
| 32 | 7th PIICON 2016  | Vaishnavi Phadke, Swarada Pathradkar, Akshata Rajput, Snehal Unde, Sanjay Dambhar  | Nov 2016  | Bikaner, Rajasthan |
| 33 | ICPEICES,  | Mrs. S. N. Chaphekar, Prashant Karad, Anjali A. Dharme  | 4-6th July2016  | New Delhi, |
| 34 | ICACDOT | Swati Dadi, V. V. Khatavkar, Heramb Maydeo, A. A. Dharme | 9-10 Sept. 2016 | IIIT Pune  |
| 35 | 7th Power India International Conference | S.N.ChaphekarHimanshu S. Panandikar and Anjali A. Dharme  | 25th -27th November 2017 | Govt. College ofEngineering, Bikaner, Rajasthan |
| 36 | IEEE International Conference on   Computing, Analytics and Security Trends  | Prashant Karad,  S. N. Chaphekar, Anjali A. Dharme  | 19-21   Dec.2016  | COEP,  Pune,  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr. No.** | **Title of the Conference** | **Name of the Faculty** | **Period** | **Venue** |
| 37 | 7th POWER INDIA International Conference, IEEE | Nikhil Chaudhari,  Trupti Hinge, Sanjay Dambhare | Nov. 25-27, 2016 | Govt. Engineering College Bikaner, Rajasthan |
| 38 | TENCON IEEE 2106 | Nikhil Chaudhari,  Trupti Hinge, Sanjay Dambhare | 22-25 Nov., 2016 | Singapore |
| 39 | IEEE Power and Energy Society General Meeting (PESGM) | Prashant Gawande, Sanjay Dambhare  | 2013 | Vancouver, BC, Canada,  |
| 40 | IEEE/PES Transmission and Distribution Conference and Exposition (T&D) | Prashant Gawande, Sanjay Dambhare  | 2016 | Dallas, TX, USA,  |
| 41 | IEEE 6th International Conference on Power Systems  | Prashant Gawande, Sanjay Dambhare | 2016 | New Delhi, India |
| 42 | TENCON IEEE 2106 | Prashant Gawande, Pallavi Bedekar, Vidyulata Joshi, Sanjay Dambhare  | 22-25 Nov. 2016 | Singapore |
| 43 | 13th International Conference on Development in Power System Protection 2016 (DPSP),  | Prashant Gawande, Sanjay Dambhare  | 2016 | Edinburgh, Scotland, UK, pg. 1-6  |
| 44 | International Conference on Advanced Computing and Communication Systems (ICACCS -2017) | Rohan S. Kulkarni, D. B Talange | 2017 | Coimbatore, INDIA   |
| 45 | International Conference on Advanced Computing and Communication Systems (ICACCS -2017)  | Sudarshan L. Chavan, D. B. Talange  | 2017 | Coimbatore, INDIA   |
| 46 |  International Conference. on Innovations in Power and AdvancedComputing Technologies  | Sudarshan L. Chavan, D. B. Talange  | 2017 | VIT Vellore |
| 47 | First IEEE International conference on Power Electronics, Intelligent Control and Energy Systems  | V.S.Rajguru, Rohit Rokade | 4-6 July 2016 | Delhi TechnologicalUniversity, Delhi |
| 48 | First IEEE International conference on Power Electronics, Intelligent Control and Energy Systems –ICPEICES 2016 | V.S.Rajguru, Soham Karyakarte, Supriya Kawthekar, Vishnu Menon  | 4-6 July 2016 | Delhi TechnologicalUniversity, Delhi |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr. No.** | **Title of the Conference** | **Name of the Faculty** | **Period** | **Venue** |
| 49 | IEEE Conference ICPEICES  | Meera Murali, Archana Gokhale, Amit Pande and Ekta Sharma  |  4-6  July 2016  | Delhi TechnologicalUniversity, Delhi |
| 50 | IEEE Conference , PEDES 2016 | Akshay Nirgude, Meera Murali, Swanand Kulkarni, Shubham R Patel  | 2016 | Trivendrum, India |
| 51 | IEEE Conference PIICON, 2016 | Swapnil Mahajan, Meera Murali, Tushar Mali | 25-27 November 2016 | -- |
| 52 | IEEE Conference ICECCT, 2017  | Rutuja Bajaja, Jeet Panchal, Meera Murali  | 22-24 February, 2017  | Delhi TechnologicalUniversity, Delhi |
| **Department of Electronics & Telecommunication Engineering** |
| 53 | International conference on Signal and Information Processing | S.P.Metkar | 6 October to 8 October 2016 | SGGS Institute of Engineering &Technology,Nanded |
| 54 | International conference on Signal and Information Processing | P.P.Rege | 6 October to 8 October 2016 | SGGS Institute of Engineering & Technology,Nanded |
| 55 | International conference on Signal and Information Processing | M.S.Sutaone | 6 October to 8 October 2016 | SGGS Institute of Engineering & Technology,Nanded |
| 56 | International conference on Signal and Information Processing | P.P.Bartakke | 6 October to 8 October 2016 | SGGS Institute of Engineering & Technology,Nanded |
| 57 | International conference on Signal and Information Processing | S.P.Mahajan | 6 October to 8 October 2016 | SGGS Institute of Engineering & Technology,Nanded |
| 58 | International conference on Signal and Information Processing | R.A.Patil | 6 October to 8 October 2016 | SGGS Institute of Engineering & Technology,Nanded |
| 59 | International conference on Signal and Information Processing | V.S.Vyas | 6 October to 8 October 2016 | SGGS Institute of Engineering & Technology,Nanded |
| 60 | International conference on Signal and Information Processing | Sushma D.Shelke | 6 October to 8 October 2016 | SGGS Institute of Engineering & Technology,Nanded |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr. No.** | **Title of the Conference** | **Name of the Faculty** | **Period** | **Venue** |
| 61 | International Conference on Internet of Things and Applications | R.D.Joshi | 22-24 January 2016 | MIT,Pune and Hotel Le Meridien,Pune |
| 62 | International Conference on Signal and Information Processing | R.D.Joshi | 6-8 October 2016 | SGGS Institute of Engineering & Technology.Nanded |
| 63 | International conference on Signal and Information Processing | S.P.Mohani | 6 October to 8 October 2016 | SGGS Institute of Engineering & Technology,Nanded |
| **Department of Metallurgy and Materials Science** |
| 64 | International Conference on Technologically Advanced Materials and Asian Meeting on Ferroelectrics | K.R. Kambale | 7-11 November 2016 | University of Delhi |
| 65 | International Conference on Advanced Rechargeable Batteries & allied Materials (ICARBM-2017), organized by Centre for Materials for Electronics Technology  | R K Goyal | March 8-9 2017 (2 days) | C-MET, Pune |
| 66 | International conference on Ceramics, Glass and Refractories - Emerging Innovations  | S. P. Butee | 13-15 December 2016,  | IICT, Hyderabad, Telangana, India |
| 67 | Corrosion of Heat Engineering Equipment, POLYTECH, Peter the Great St. Petersburg, Visiting Lectures for 20 h  | P.P. Deshpande | 5 - 16 December 2016 | StatePolytechnic University, Institute of Energy and Transport Systems, Saint-Petersburg, |
| 68 | NMD'16 "Metals, Materials and Manufacturing for a Self-Reliant India | S.T. Vagge | 11-14 November16 | BHU-IIT, Banaras |
| 69 | International conference on Powder Matallurgy and particulate Materials, PM 17 | N B Dhokey | 20-22 February 2017 | New Delhi |
| 70 | International conference on Powder Matallurgy and particulate Materials, PM 17 | V. Poddar | 20-22 February 2017 | New Delhi |
| 71 | European Powder Metallurgy World Congress-2016 Hamburg | S. P. ButeeN. B. Dhokey | 10–13 October 2016 | Germany  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr. No.** | **Title of the Conference** | **Name of the Faculty** | **Period** | **Venue** |
| **Department of Computer Engineering & Information Technology** |
| 72 | ACM International Conference on “Advances in Information Communication Technology and Computing”  | D D Kshirsagar | 12-13 August 2016  | Govt. Engineering College Bikaner |
| 73 |  International Conference on Advances in Information Communication Technology & Computing ACM | Amit D Joshi | 12-13 August 2016  | Government Engineering College Bikaner  |
| 74 | International Conference on Advances in Information Communication Technology & Computing ACM  | Amit D Joshi | 12-13 August 2016  | Government Engineering College Bikaner  |
| 75 |  International Conference on Informatics and Analytics ACM | Amit D Joshi | 25-26 August 2016 | Pondicherry Engineering College |
| 76 |  International Conference on Computing, Analytics and Security Trends (CAST) IEEE | Amit D Joshi | 19-21 December 2016 | College of Engineering Pune |
| 77 | IEEE International Conference on Computing, Analytics and Security Trends (CAST) IEEE | Amit D Joshi | 19-21 December 2016 | College of Engineering Pune |
| 78 | 2nd International Conference on Communication and Signal Processing (ICCASP 2016) Atlantis Press | Amit D Joshi | 26-27 December 2017 | Dr. B. A. Technological University Lonere Raigad |
| 79 | 2nd International Conference on Communication and Signal Processing (ICCASP 2016) Atlantis Press | Amit D Joshi | 26-27 December 2017 | Dr. B. A. Technological University Lonere Raigad |
| 80 | IEEE International Conference on Computing, Analytics and Security Trends (CAST) IEEE | Amit D Joshi | 19-21 December 2016 | College of Engineering Pune |
| 81 |  ACM International Conference on Management of Data (COMAD 2017) | Jibi Abraham |  8-10 March, 2017 | IIT Madras, Chennai |
| **Department of Production Engineering and Industrial Mangement** |
| 82 | International Conference on Modern Era Research In Mechanical Engineering-2016  | S.U. Ghunage | 29-30th September 2016 | RIT, Sakharale |
| 83 | International Conference on Modern Era Research In Mechanical Engineering-2016  | M.D.Jaybhaye | 29-30th September 2016 | RIT, Sakharale ,  |
| 84 | International Conference on Materials, Manufacturing and Design | M. R. Dhanvijay | 20th and 21st December, 2016. | BATU, Lonere |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr. No.** | **Title of the Conference** | **Name of the Faculty** | **Period** | **Venue** |
| 85 | 6th International and 27th All India Manufacturing Technology Design and Research Conference (AIMTDR2016), ISBN: 978-93-86256-27-0 | S.U. Ghunage | December 16 - 18, 2016 | College of Engineering, Pune  |
| 86 | 6th International and 27th All India Manufacturing Technology Design and Research Conference (AIMTDR2016), ISBN: 978-93-86256-27-0 | M.D.Jaybhaye | December 16 - 18, 2016 | College of Engineering, Pune  |
| 87 | 6th International and 27th All India Manufacturing Technology Design and Research Conference (AIMTDR2016), ISBN: 978-93-86256-27-0 | M. R. Dhanvijay | December 16 - 18, 2016 |  College of Engineering, Pune  |
| 88 | 6th International and 27th All India Manufacturing Technology Design and Research Conference (AIMTDR2016), ISBN: 978-93-86256-27-0 | B.B. Ahuja | December 16 - 18, 2016 | College of Engineering, Pune |
| 89 | 6th International and 27th All India Manufacturing Technology Design and Research Conference (AIMTDR2016), ISBN: 978-93-86256-27-0 | N.R.Rajhans | December 16 - 18, 2016 | College of Engineering, Pune |
| 90 | 6th International and 27th All India Manufacturing Technology Design and Research Conference (AIMTDR2016), ISBN: 978-93-86256-27-0 | A.V. Mulay | December 16 - 18, 2016 | College of Engineering, Pune |
| 91 | 6th International and 27th All India Manufacturing Technology Design and Research Conference (AIMTDR2016), ISBN: 978-93-86256-27-0 | B.U. Sonawane | December 16 - 18, 2016 | College of Engineering, Pune |
| 92 | 6th International and 27th All India Manufacturing Technology Design and Research Conference (AIMTDR2016), ISBN: 978-93-86256-27-0 | S.M. Patil | December 16 - 18, 2016 | College of Engineering, Pune |
| 93 | 6th International and 27th All India Manufacturing Technology Design and Research Conference (AIMTDR2016), ISBN: 978-93-86256-27-0 | S.K. Basu | December 16 - 18, 2016 | College of Engineering, Pune |
| **Sr. No.** | **Title of the Conference** | **Name of the Faculty** | **Period** | **Venue** |
| 94 | 6th International and 27th All India Manufacturing Technology Design and Research Conference (AIMTDR2016), ISBN: 978-93-86256-27-0 | P.P. Chikate | December 16 - 18, 2016 | College of Engineering, Pune |
| 95 | 6th International and 27th All India Manufacturing Technology Design and Research Conference (AIMTDR2016), ISBN: 978-93-86256-27-0 | P.D. Pantawane | December 16 - 18, 2016 | College of Engineering, Pune |
| 96 | 6th International and 27th All India Manufacturing Technology Design and Research Conference (AIMTDR2016), ISBN: 978-93-86256-27-0 | S.S. Anasane | December 16 - 18, 2016 | College of Engineering, Pune |
| 97 | 6th International and 27th All India Manufacturing Technology Design and Research Conference (AIMTDR2016), ISBN: 978-93-86256-27-0 | Ravi Kant | December 16 - 18, 2016 | College of Engineering, Pune |
| 98 | 6th International and 27th All India Manufacturing Technology Design and Research Conference (AIMTDR2016), ISBN: 978-93-86256-27-0 | J.S. Karajagikar | December 16 - 18, 2016 | College of Engineering, Pune |
| 99 | 6th International and 27th All India Manufacturing Technology Design and Research Conference (AIMTDR2016), ISBN: 978-93-86256-27-0 | K.G. Patil | December 16 - 18, 2016 | College of Engineering, Pune |
| 100 | 6th International and 27th All India Manufacturing Technology Design and Research Conference (AIMTDR2016), ISBN: 978-93-86256-27-0 | H. Bagchi | December 16 - 18, 2016 | College of Engineering, Pune |
| 101 | 6th International and 27th All India Manufacturing Technology Design and Research Conference (AIMTDR2016), ISBN: 978-93-86256-27-0 | M.N. Shaikh | December 16 - 18, 2016 | College of Engineering, Pune |
| 102 | 6th International and 27th All India Manufacturing Technology Design and Research Conference (AIMTDR2016), ISBN: 978-93-86256-27-0 | B. Rajiv | December 16 - 18, 2016 | College of Engineering, Pune |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr. No.** | **Title of the Conference** | **Name of the Faculty** | **Period** | **Venue** |
| 103 | 58th National Convention and International Conference on Smart Strategies for digital World – Industrial Engineering perspective. | N.R. Rajhans | 21-22 Oct 2016 | Shri Ramdeobaba College of Engineering and Management , Nagpur |
| 104 | International Conference on Manufacturing Excellence 2017 | N.R. Rajhans | 3,4th March 2017 | K.K.Wagh College of Engineering Nasik |
| **Department of Mathematics** |
| 105 | ICDM-2016 | C.M. Deshpande | 9-11 June 2016  | Siddhaganga institute of technology, Tumkur, Karnataka |
| 106 | CTGTC 16 | C.M. Deshpande | 17-19 September 2016 | South ASIAN University, New Delhi |
| Department of Physics |
| 107 | International Conference on Functional Oxides and Nanomaterials, ICFONM – 2016  | Jagdish W.Dadge | 11-13th Nov 2016 | Saurashtra University, Rajkot |
| 108 | 2nd INTERNATIONAL CONFERENCE ON SOLAR ENERGY PHOTOVOLTAIC PROCEEDING | Shweta Chaure | 17-19 December 2016 | KIIT University, Bhuvneshwar |
| 109 | 104th INDIAN SCIENCE CONGRESS 2017 | L. V. Bhandarkar  | January 3-7, 2017 | Shri Venkateshwara University, Tirupati |
| 110 | Conference on “Underground Excavations in Difficult Ground Conditions: Issues & Challenges” | A. S. Ramdasi, L. V. Bhandarkar and Dr. Y. A. Kolekar | 27-28 April 2017,  | New Delhi |
| 111 | International Conference on Functional Oxides and Nanomaterials, ICFONM – 2016  | Rohini S. Chhatrala | 11-13th Nov 2016 | Saurashtra University, Rajkot |
| 112 | International conference on Neutron Scattering (CNS 2016)  | Rohini S. Chhatrala,  | 21-23 November 2016 | BARC, Mumbai |
| 113 | All India Manufacturing Technology Design &Research Conference(AIMTDR 2016) | S. R. Patil | 16-18 December, 2016 | COEP |

* **Refresher Course Attended**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr. No.** | **Type of refresher Course / Orientation** | **Name of the Faculty** | **Period of Course** | **Institute where** **deputed** |
| **Department of Civil Engineering** |
| 1 | Perpetual Pavement for Rural Roads: a Concept, A National Conference on Fifteen Years of PMGSY, Transportation Engineering Group | M. S. Ranadive | 6-7 July. 2016 | Civil Engineering Department, Indian Institute of Technology Roorkee, Roorkee-247667 (Uttarakhand) |
| **Department of Mechanical Engineering** |
| 2 | Recent treads in cyber security | M P Khond | 13-17 Feb. 2017 | COEP |
| 3 | Six sigma | M P Khond | 24-28 Feb 2017 | COEP |
| 4 | Advances in Micro Manufacturing | M P KhondS V WaghS S PardeshiS B Patil P J SelmokarS S Mundra | 9-13 March 2017 | COEP |
| 5 | International Conference on Solar Cooker | P Kumar | 16-18 Jan 2017 | Vadodara, India |
| 6 | Winter School on Optimization and Optimization Control | N K Chougule | 15-21 Dec 2016 | COEP |
| 7 | 6th International and 43rd National Conference on Fluid mechanics & fluid power ( FMFP-2016) | C M Sewatkar | 15-17 Dec 2016 | Department of Applied Mechanics Motilal Nehru National Institute of technology Allahabad |
| 8 | 2 Day workshop “Design Thinking” organized by  organized by Avantika University, Ujain | N K Chougule | 27-28 April 2017 | Banglore |
| **Department of Electronics and Telecommunication Engineering** |
| 9 | Recent Advancements in Short Range Wireless Communications | S. P. Mohani | 11-15July 2016 |  IIT Kharagpur |
| 10 | Management Capacity enhancement training | S P Mohani | 12-16 2016 | IIM Trichy |
| 11 | Technical paper discussion | S. G. Mali | 20 August 2016 | IIT,Powai,Bombay |
| 12 | Management Capacity enhancement training | R A Patil | 23-29 August 2016 | IIM Indore |
| **Sr. No.** | **Type of refresher Course / Orientation** | **Name of the Faculty** | **Period of Course** | **Institute where** **deputed** |
| 13 | Induction training phase -I | Swapnil G Mali | 27 June to 8 July 2016 | E&TC Dept COEP |
| 14 | Induction training phase -I | Pankaj P Tasgaonkar | 27 June to 8 July 2016 | E&TC Dept COEP |
| 15 | Induction training phase -I | Varda P Kulkarni | 27 June to 8 July 2016 | E&TC Dept COEP |
| 16 | Induction training phase -I | Vanita Agarawal | 27 June to 8 July 2016 | E&TC Dept COEP |
| 17 | Speech signal processing | Swapnil G Mali | 21 to 26 November 2016 | NIT,Warangal |
| 18 | Research scholar’s conclave | Swapnil Gajanan Mali | 24 March to 25 March 2017 | E&TC Dept COEP |
| 19 | Management Capacity Enhancement Programme | Shrinivas P Mahajan | 13 to 18 February 2017 |  IIM Udaipur |
| 20 | Management Capacity Enhancement Programme | Prashant P. Bartakke | 13 to 18 February 2017 | IIM Udaipur |
| 21 | Research scholar’s conclave | Shrinivas P Mahajan | 24 March to 25 March 2017 | E&TC Dept COEP |
| 22 | Analysis and Implementation of Dielectric Resonator Antennas | Pankaj Tasgaonkar | 21-26 November 2016 |  IIT,Kharagpur |
| 23 | Sustainable Developments in Indian Engineering Sector in Next Decade | Shilpa Metkar | 15-16 October 2016 | Institution of Engineers,Pune local centre |
| 24 | Probability and Statistics for Machine Learning | Rashmika Patole | 28 November -2 December. 2016 | IISc Bengaluru |
| 25 | Optimization and Optimal More | Vidya Nitin More | 15-21 December, 2016 | COEP |
| 26 | VLSI Architectures for Signal Processing and Machine learning | Prashant P. Bartakke | 19-30 December,2016 | IIT,Kharagpur |
| 27 | Innovation, Entrepreneurship and Incubators | Vidya N. More | 14-18 March,2017 | IIT,Bombay |
| 28 | Research scholar’s conclave | Radhika Joshi | 24- 25 March 2017 | E&TC Dept COEP |
| **Sr. No.** | **Type of refresher Course / Orientation** | **Name of the Faculty** | **Period of Course** | **Institute where** **deputed** |
| **Department of Mathematics** |
| 29 | Signed Graphs and Semi Graphs ”(WSGSG-2016) | C. M. Deshpande | 3-7 October 2016 | National Institute of Technology, Durgapur, West Bengal, India |
| 30 | (COE-SRES) TEQIP-II on ‘Computational Fluid Dynamics for beginners | R.P. More & A. B. Dhere | 6-10 June 2016 | Department of Mechanical Engg. COEP |
| 31 | Monte-Carlo Simulation of Complex Biological Systems | R.P. More & A. B. Dhere | 13-17 June 2016 | IITB |
| 32 | One week QIP sponsored by AICTE on ‘SIX SIGMA’ | R.P. More & A. B. Dhere | 24-28 February 2017. | Department of Production Engineering COEP |
| 33 | FDP under TEQIP II on ‘Wavelet Transforms and its applications | S. P. Kavishwar | 27 June-08 July 2016. | Dept of Instrumentation and Control, COEP |
| 34 | One week course on LaTeX for Professional writing | A.B. Dhere | 22-26 June 2016 | Electrical department, COEP |
| 35 | the IIST-DST sponsored three days national seminar on ‘Control system design – Fractional controller and its applications | Y. M. Mahatekar | 14-16 Dec 2016 | Department of Avionics, Thiruvanantpuram |
| 36 | One day Western Region Workshop | J. T. Majithia | 16th Nov 2016 | CTARA Cell of IIT Bombay |
| 37 | workshop on Computational Maths with Sage | Meena More | 23-24 Sept 2016 | Department of Mathematics, Institute of Chemical Technology, Mumbai |
| 38 | one week National workshop on Advances in Stability Analysis on Dynamical Systems  | Meena More | 08-12 March 2017 |  NIT Silchar, Assam |
| **Department of Physics** |
| 39 | Fundamentals of Fluid power devices and applications | S.R.Patil | 10 to 16 June 2016 | TEQIP II, COEP,Mechanical Dept. |
| 40 | Fundamentals of Fluid power devices and applications | Neelima A. Patil | 10 to 16 June 2016 | TEQIP II, COEP,Mechanical Dept. |
| 41 | Fundamentals of Fluid power devices and applications | J.W.Dadge | 10 to 16 June 2016 | TEQIP II, COEP,Mechanical Dept. |
| **Sr. No.** | **Type of refresher Course / Orientation** | **Name of the Faculty** | **Period of Course** | **Institute where** **deputed** |
| 42 | Fundamentals of Fluid power devices and applications | Shweta Chaure | 10 to 16 June 2016 | TEQIP II, COEP,Mechanical Dept. |
| 43 | Fundamentals of Fluid power devices and applications | Yatin Pitkar | 10 to 16 June 2016 | TEQIP II, COEP,Mechanical Dept. |
| 44 | Fundamentals of Fluid power devices and applications | R. S. Chhatrala | 10 to 16 June 2016 | TEQIP II, COEP,Mechanical Dept. |
| 45 | Induction Training Programme Phase-1 | R. S. Chhatrala | 27June to 8 July 2016 | NITTTR Bhopal organized at E&TC Department College of Engineering Pune |
| 46 | Induction Training Programme Phase-1 | Shweta Chaure | 27June to 8 July 2016 | NITTTR Bhopal organized at E&TC Department College of Engineering Pune |
| 47 | Characterization of Micro and Nano materials | Neelima A. Patil | 20 to 24 march 2017 | AICTE COEP |
| 48 | Characterization of Micro and Nano materials | J. W. Dadge | 20 to 24 march 2017 | AICTE COEP |
| 49 | Characterization of Micro and Nano materials | Shweta Chaure | 20 to 24 march 2017 | AICTE COEP |
| 50 | Characterization of Micro and Nano materials | Yatin Pitkar | 20 to 24 march 2017 | AICTE COEP |
| 51 | Characterization of Micro and Nano materials | R. S. Chhatrala | 20 to 24 march 2017 | AICTE COEP |
| 52 | Cyber security  | S. R. Patil | 20 to 24 march 2017 | COEP |

* **Workshops Attended**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr. No.** | **Title of the Workshop** | **Name of the Faculty** | **Period** | **Venue** |
| **Department of Electrical Engineering** |
| 1 | Advances in energy storage devices | Meera Murali | 28 November- December 2016 | PVG COEP Pune  |
| 2 | Internet of Things  | Meera Murali | 15-19 February 2017 | COEP |
| 3 | “Frictional-order Modeling, Control and Application” | V. B. Bhole | 29 February -4March 2016 | COEP |
| 4 | ““Frictional-order Modeling, Control and Application” | Suhas M. Kakade | 29 February -4March 2016 | COEP |
| 5 | “Frictional-order Modeling, Control and Application” | Pratap Kumar Koppolu | 29 February -4March 2016 | COEP |
| 6 | ““Frictional-order Modeling, Control and Application” | U.M.Mate | 29 February -4March 2016 | COEP |
| 7 | “Frictional-order Modeling, Control and Application” | A. V. Tare | 29 February -4March 2016 | COEP |
| 8 | UPS Technology and Battery Maintainace | D. B. Talange | 19 September 2016 | COEP |
| 9 | Digital Signal Processing | S. V. Unde | 2-6 November 2016 | IIT Bombay |
| 10 | Advances in energy storage devices | A. A. Dharme, S. P. Ganegaonkar | 28 November- 2 December 2016 | PVG COEP PUne |
| 11 | Smart Grid operation in power sector  | A. A. Dharme | 20- 22 September 2016 | BVPCOE Pune |
| 12 | Management Capacity Enhancement Program | V.N. Pande | 5 – 10 December 2016 | IIM Kozikode, Kerala, India |
| **Department of Electronics and Telecommunication Engineering** |
| 13 | IEEE Author workshop : How to publish a Technical paper | Deeplakshmi Niture | 4 October 2016 | COEP |
| 14 | New Product Design and Development | R. D.Joshi | 14-16 October 2016 | COEP |
| 15 | CMOS,Mixed Signal and Radio Frequency VLSI Design | Pratibha Prashantrao Shingare | 19-23 September 2016 | IIT, Kharagpur |
| 16 | Good Governance | M. S. Sutaone | 30 August 2016 | India Habitat Centre, Delhi |
| **Department of Metallurgy and Materials Science** |
| 17 | Quality Improvement Program on " Excellence in Maintenance Engineering | R K Goyal | 1-6 March 2017 | Production and Industrial Engg Dept., COEP, |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr. No.** | **Title of the Workshop** | **Name of the Faculty** | **Period** | **Venue** |
| 18 | Quality Improvement Program on " Excellence in Maintenance Engineering | Manisha Kulthe | 1-6 March 2017 | Production and Industrial Engg Dept., COEP, |
| 19 | AICTE (under QIP) Sponsored One Week Short Term Training Program (STTP) on “Characterization of Micro- and Nanomaterials | Vashali Poddar | March 20 - 24, 2017  | Metallurgy depart., College of Engineering, Pune |
| 20 | AICTE (under QIP) Sponsored One Week Short Term Training Program (STTP) on “Characterization of Micro- and Nanomaterials | Manisha Kulthe | March 20 - 24, 2017  | Metallurgy depart., College of Engineering, Pune |
| 21 | AICTE (under QIP) Sponsored One Week Short Term Training Program (STTP) on “Characterization of Micro- and Nanomaterials | Kaustubh Kamble | March 20 - 24, 2017  | Metallurgy depart., College of Engineering, Pune |
| 22 | AICTE (under QIP) Sponsored One Week Short Term Training Program (STTP) on “Characterization of Micro- and Nanomaterials | P. G. Ranaware | March 20 - 24, 2017  | Metallurgy depart., College of Engineering, Pune |
| 23 | AICTE (under QIP) Sponsored One Week Short Term Training Program (STTP) on “Characterization of Micro- and Nanomaterials | V. Thavale | March 20 - 24, 2017  | Metallurgy depart., College of Engineering, Pune |
| 24 | AICTE (under QIP) Sponsored One Week Short Term Training Program (STTP) on “Characterization of Micro- and Nanomaterials | S U Dangarikar | March 20 - 24, 2017  | Metallurgy depart., College of Engineering, Pune |
| 25 | Two days workshop on Advances in Steel Technology: Processing, Properties, Performance | All Faculty | 24-25 March 2017 | Metallurgy Dept., COEP, Pune |
| 26 | One Week GIAN Course: Slag Design in Metallurgical Processes | All Faculty | 22-28 August 2016 | Metallurgy Dept., COEP, Pune |
| **Department of Instrumentation and Control Engineering** |
| 27 | (TEQIP) Faculty development program on LabVIEW for Engineers & Scientist | A. S. Deshpande | June 2016 | TEQIP COEP |
| **Sr. No.** | **Title of the Workshop** | **Name of the Faculty** | **Period** | **Venue** |
| **Department of Computer Engineering & Information Technology** |
| 28 | TEQIP-II Sponsored One Week Winter School on “Optimization and Optimal Control” | D D KShirsagar | 15th December to 21st December 2016 | COEP |
| 29 | TEQIP Sponsored One day Workshop on " Cyber Security Awareness"  | D D KShirsagar | 17th September 2016 | COEP |
| 30 | AICTE (under QIP cell) Sponsored One week STTP on " Recent Trends in Cuber Security"  | D D KShirsagar | 13th Feb to 17th Feb 2017 | COEP |
| 31 | TEQIP -II Sponsored One Week STTP on " Network System Administration and Security" | D D KShirsagar | March 8-12, 2017 | COEP |
| 32 | TEQIP -II Sponsored One Week STTP on " Network System Administration and Security" | Jibi Abraham | March 8-12, 2017 | COEP |
| 33 | E-Governance Life Cycle | Jibi Abraham | 17-19 Oct 2016  | Yashada, Pune |
| **Department of Production Engineering & Industrial Management** |
| 34 | IITB-SPFU one week course on "Mechatronics: Funtamentals and hands on"  | S. M. Patil | 1-5 Feb 2017 | Walchand College of Engineering, Sangli |
| 35 | IITB-SPFU one week course on "Mechatronics: Funtamentals and hands on"  | M. R. Dhanvijay | 1-5 Feb 2017 | Walchand College of Engineering, Sangli |
| 36 | AICTE Sponsored one week STTP on “Six Sigma" | S.U. Ghunage | 24-28th Feb 2017 | COEP |
| 37 | AICTE Sponsored one week STTP on “Six Sigma" | B.U. Sonawane | 24-28th Feb 2017 | COEP |
| 38 | AICTE Sponsored one week STTP on “Six Sigma" | S.M. Patil | 24-28th Feb 2017 | COEP |
| 39 | AICTE Sponsored one week STTP on "Excellence in Maintenance Engineering" | M. N. Shaikh | 1st March 2017 to 6th March 2017. | COEP |
| 40 | AICTE Sponsored one week STTP on "Excellence in Maintenance Engineering" | M.D. Jaybhaye | 1-6 March 2017. | COEP |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr. No.** | **Title of the Workshop** | **Name of the Faculty** | **Period** | **Venue** |
| 41 | QIP Short Term Course on “Materials Tribology: Fundamentals and Recent Advances” | M.D. Jaybhaye | 23-29th March 2017 | IIT BHU Varanasi. |
| 42 | AICTE Sponsored one week STTP on "Characterisation of Micro and Nano Materials" | S.U. Ghunage | 20-24th March 2017 | Department of Metallurgy and Material ScienceCOE, Pune |
| 43 | AICTE Sponsored one week STTP on "Characterisation of Micro and Nano Materials" | Rajiv B | 20-24th March 2017 | Department of Metallurgy and Material Science COE, Pune |
| 44 | AICTE Sponsored one week STTP on "Characterisation of Micro and Nano Materials" | P.D. Pantawane | 20-24th March 2017 | Department of Metallurgy and Material Science COE, Pune |
| 45 | AICTE Sponsored one week STTP on "Characterisation of Micro and Nano Materials" | S.S. Anasane | 20-24th March 2017 | Department of Metallurgy and Material ScienceCOE, Pune |

* **Seminars Attended**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr. No.** | **Title of the Seminar** | **Name of the Faculty** | **Period** | **Venue** |
| **Department of Electrical Engineering** |
| 1 | Seminar on rotating Electrical Machines | R.T. Ugale, D.B. Talange | 16 – 17 May 2017 | IISC Bangalore, Bangalore. |
| **Department of Metallurgy and Materials Science** |
| 2 | XIX National Seminar on Ferroelectrics and Dielectrics | K.R. Kambale | 19-21December 2016 | Dept of Physics, Maulana Azad NIT, Bhopal |
| 3 | 5th Bharatiya Vigyan Sammelan & Expo 2017 | M. J. RathodP. P. Deshpande | 11 - 14 May 2017 | Fergusson College, Pune |

**CONFERENCES/ SEMINARS/ WORKSHOPS/ REFRESHER COURSES ORGANIZED**

* **National Conference Organized**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sr. No.** | **Title of the Conference** | **Period** | **Venue** | **Name of the Faculty Coordinator** | **No. of Participants** |
| **Department of Applied Science** |
| 1. | National Conference in Chemistry and Allied Sciences | 22-24 December 2016 | COEP | J. A. Kher |  90 |

* **International Conference Organized**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sr. No.** | **Title of the Conference** | **Period** | **Name of the Faculty** | **Venue** | **No. of Participants** |
| **Department of Production Engineering & Industrial Management** |
| 1 | 6th International and 27th All India Manufacturing Technology Design and Research Conference (AIMTDR2016), ISBN: 978-93-86256-27-0 | 16-18December 2016 | B. B. Ahuja | College of Engineering, Pune | 800 |
| **Department of Computer Engineering and Information Technology** |
| 2 | International Conference onComputing, Analytics and Security Trends CAST-201 | 19– 21 December 2016 | COEP | V S Inamdar | 120 |

* **Seminar Organized**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sr. No.** | **Title of the Seminar** | **Period** | **Venue** | **Name of the Faculty Coordinator** | **No. of Participants** |
| **Department of Mechanical Engineering** |
| 1 | Fundamentals of Fluid Power Devices and Its Applications | 6 to 10June 2016 | COEP | M PKhond | 58 |
| 2 | CFD for Beginners | 6 to 10June 2016 | COEP | C M Sewatkar |  36 |
| 3 | WorldClass manufacturing; Strategic Prospective | 13to 17June 2016 | COEP | M P Khond | 56 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 4 | Advances in Refrigeration and Sustainable Energy | 28November to 2 December 2016 | COEP | S N Sapali | 45 |
| 5 | Energy Conservation in Air Conditioning | 9 to 13 March 2017 | COEP | S N Sapali | 36 |
| **Department of Electrical Engineering** |
| 6 | Power System Operation with Distributed Generation | 2-6 May 2016 |  COEP | V.N. Pande | 34 |
| 7 |  Research Conclave | 24-25 March 2017 | COEP | B N Chaudhari, R.T. Ugale. | 100 |
| **Department of Metallurgy and Materials Science** |
| 8 | Younger nitriding methods on trial: Decision criteria for or against plasma or gas nitriding from a modern perspective -Thomas Müller Director of R&DRÜBIG GmbH & Co KG, Wels, Austria  | 23 November 2016 | COEP | N. B. Dhokey | 30 |
| 9 | Nanostructures in Metal/Metal Oxide Powders Processed by Spark Plasma Sintering - Prof. Subhash H. Risbud Blacutt – Underwood Distinguished Professor of Materials Science,Department of Materials Science and EngineeringUniversity of California at Davis   | 19 December 2016 | COEP | N. B. Dhokey | 35 |
| 10 | Dr. ara Antia Memorial Lecture this year delivered by Professor HKDH (Harry)Bhadeshia, currently the Tata Steel Chair Professor of Metallurgy and Director of SKF Steel Technology Centre at the University of Cambridge, UK | 20 March 2017 | IIM and COEP | N. B. Dhokey | 250 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sr. No.** | **Title of the Seminar** | **Duration** | **Venue** | **Name of the Faculty Coordinator** | **No. of Participants** |
| 11 | Rare earths – A National prospective on economic growth, sustainability& security- Dr. R. N. PatraFormer Chairman and Managing Director,Indian Rare Earths Ltd | 7 April 2017 | College of Engineering | Vilas Gunjal | 45 |
| 12 | Cracking in Metals - Professor D B Goel, Ex. Professor of IIT Roorkee  | 16 Jan 2017 | College of Engineering | R. K. Goyal | 85 |
| 13 | Composites for Defense Applications Dr. Rahul Harshe (R & DE) Dighi, Pune   | 2 April 2017 | College of Engineering | M. G. Kulthe | 80 |
| 14 | Superplasticity - Dr J.K.Chakravartty former Director, MSD, BARC | 5-6 April 2017 | College of Engineering | N. R. Anand | 85 |
| **Department of Computer Engineering and Information Technology** |
| 15 | Cyber Security Awareness | 17 September 2016 | Mini Auditorium, Academic Complex Bldg. | Deepak D. Kshirsagar | 40 |

* **Workshops Organized**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sr. No.** | **Title of the Workshop** | **Period** | **Venue** | **Name of the Faculty** | **No. of Participants** |
| **Department of Civil Engineering** |
| 1 | GIS Application in Civil Engg. | 30 August 2016 | Dept. of Civil Engg. | N.M. Mohite | 200 |
| 2 | National Bridge Workshop | 1-5 October 2016 | Dept. of Civil Engg. | Y. A. Kolekar | 98 |
| 3 | Quality Control of RCC Work | 17 October 2016 | Dept. of Civil Engg. | N.A.Hedao | 45 |
| 4 | Global Innitiatiev of Academic Network Advanced Structural Dynamics | February 2017 | Dept. of Civil Engg. | S. N. Madhekar | 55 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sr. No.** | **Title of the Workshop** | **Period** | **Venue** | **Name of the Faculty** | **No. of Participants** |
| 5 | Design of steel connections | 1-3 March 2017 | Dept. of Civil Engg. | S. N. Madhekar | 76 |
| 6 | Recent Trend in Flexible and Concrete Pavement Design & Construction  | 4 March 2017 | Dept. of Civil Engg. COE | V.B. KakadeS.M. Navghare | 120 |
| 7 | Treatment of Waste; Issues, Challenges and Problem Solving | 27-31/March 2017 | Dept. of Civil Engg. COE | M. U. Khobragade | 65 |
| **Department of Electronics and Telecommunication Engineering** |
| 9 | Project Symposium 2016 | 29 June 2016 | E&TC Dept, COEP | Prashant P.Bartakke | 165 from COEP,60 from other Institution |
| 10 | Research Conclave | 24-25 March 2017 | E&TC Dept, COEP | Prashant P.Bartakke | 300 |
| 11 | Image Processing and Computer Vision | 12 -16 December2016 | E&TC Dept, COEP | R.D.Joshi | 32 |
| 12 | CMOS, Mixed Signal and Radio Frequency VLSI Design | 30 January 4 February2017 | E&TC Dept, COEP | Pratibha P. Shingare | 10 |
| 13 | Internet Of Things | 15-19 February 2017 | E&TC Dept, COEP | R.D.Joshi | 25 |
| **Department of Computer Engineering and Information Technology** |
| 14 | Recent Trends in Cyber Security" (RTCS) | 13-17 February, 2017 | Dept of Comp& IT | V.K.PachghareS.B.Mane | 58 |
| 15 | Network System Administration and Security (NSAS) | 8-12 March, 2017 | Dept of Comp& IT | Vinod K. Pachghare, Mr. Deepak D. Kshirsagar and S.S.Kumbhar | 77 |
| **Department of Production Engineering and Industrial Mangement** |
| 16 | QIP on Six Sigma | 22-28 February 2017 | COEP | M.D.Jaybhaye | 38 |
| 17 | QIP on Excellence in Maintenance Engineering | 1-6 March 2017 | COEP | Rajiv B. | 19 |
| 18 | “Production, Project Management, Mechatronics (P2M2) Symposium 2017" | 22April 2017 | COEP | DPEIM | 53 |

**PUBLICATIONS**

* **Research Paper Published in National Journals**

|  |  |  |
| --- | --- | --- |
| **Title of the Paper** | **Authors** | **Publication details/Vol.No./ISSN No./Page No.** |
| **Civil Engineering** |
| “Effect of E-Waste Plastic as Aggregate Replacement on Marshall Mix Design of Dense Bituminous Macadam”, | Pakhare Jagjit Laxman and Bhosale Sukhanand Sopan | Journal of IRC “Indian Highways”, Vol. 45, No. 4, April 2017, pp 51 – 60. |
| **Electrical Engineering** |
| Design and Development of Laboratory Model of Unified Power Flow Controller | Meera Murali, V.N.Pande, N.Gopalakrishnan | Annual Technical Volume of Electrical Engineering Division Board, Vol. 2, November 2016, pp 63- 71, ISBN No. 978-81-932567-2-5 |
| **Production Engineering and Industrial Management** |
| Implementation of six sigma methodology for productivity improvement | Dipti Morkar, N.R. Rajhans, Vinayak Angane | Industrial Engineering Journal, Vol IX, Issue 7, July 2016, p 23 to 31. ISSN 09702555 |
| Forecasting of renewable Electricity Generation using Time-series forecasting methods | Tushar Prabhu, Ameya Pathak, N.R. Rajhans | Industrial Engineering Journal, Vol IX, Issue 8, Aug. 2016, p 42-46 ISSN 09702555 |
| Effective Utilization of Manpower in Outside Services for Manufacturing Firm, | Ajinkya Jadhav, Dr. Mrs.N.R. Rajhans, Vinayak Angane, | Industrial Engineering Journal, Vol IX, Issue 9, Sept. 2016, p 43-47 |
| K-means + clarke & wright algorithm for optimization of vehicle mounted drinking water purification units | Rajesh Dhake, Dr. Mrs. N.R. Rajhans & Nagesh Bhole | Industrial Engineering Journal, Vol X, Issue 1, Jan.2017, 42-46, ISSN 09702555. |
| Study of the behaviour of intermittent demands  | Vicky B. Sardar, Dr. (Mrs.) Neela R Rajhans, | Industrial Engineering Journal, Vol. X & Issue No. 2, February - 2017 ISSN 09702555 p 35-39 |
| Experimental Investigation On Al2O3 Ceramics By Powder Mixed Electrochemical Discharge (Pm-Ecdm) Process | M. R. Dhanvijay, B. B. Ahuja | Manufacturing Technology Today (Published by CMTI, Bangalore) 10-17, Vol. 15, Issue 8, August 2016,ISSN:0972-7396 |
| Measurement System Analysis of Outside Micrometer for Non-Standard Temperature Conditions | Zubair J. Palkar,V. A. Kulkarni, M. R. Dhanvijay | Journal of Emerging Technologies and Innovative Research (ISSN : 2349-5162), Published in Volume 3 Issue 9 , September-2016 |
| CO-PO Mapping and Attainment Booklet for Tier-II students with Rubrics Assessment | V.A. Kulkarni, B. B. Ahuja, M.R. Dhanvijay | Journal of Engineering Education Transformations, Volume 30 , No 3, January 2017, ISSN 2349-2473, eISSN 2394-1707 |

* **Research Paper Published in International Journals**

|  |  |  |
| --- | --- | --- |
| **Title of the Paper** | **Authors** | **Publication details/Vol.No./ISSN No./Page No.** |
| **Mechanical Engineering** |
| Experimental Investigation of Optimum level of Reinforcementswithin 6061Al Alloy for betterTribological and Mechanical Properties |  M. G. Karnik, Parshuram M Sonawane | Journal title: Materials Today: Proceedings 28-Apr-2017DOI:10.1016/j.matpr.2017.02.215 |
| Multiphase Flow Analysis of Hydrodynamic Journal Bearing using Coupled Field Fluid-Structure Interaction considering Cavitations | Dinesh Dhande, D W Pande | Journal of King saud University: Engineering of Elsevier, JKSUES-D-00085R1Sep-16 |
| Effects of tangential and radial velocity on fluid flow and heat transfer for flow through pipe with twisted tape insert’ | Chaware Parag Sewatkar C.M. | Communicated to Heat and Mass Transfer (Springer), 2016 |
| Flow around four side-by-side square cylinders placed in a channel | Shimpi Charudatta, Swapnil Awate and Sewatkar C. M. | Communicated to Journal of Fluid Mechanics (Cambridge University Press), 2016 |
| Performance, Combustion and Emission Analysis of Compression Ignition Engine Fuelled with Blends of Tyre Pyrolysis Oil | Sanket Muley, M R Nandgaonkar | International Journal of Latest Trends in Engineering and Technology Vol.(7)Issue(4), November 2016, pp.311-317http://dx.doi.org/10.21172/1.74.043e-ISSN:2278-621X, |
| Experimental Investigation of Single Cylinder Diesel Engine Using Biodiesel Ethanol Blended Fuels | Jitendra Patil, Sanket Muley, M R Nandgaonkar | International Advanced Research Journal in Science, Engineering and TechnologyISO 3297:2007 Certified,ISSN (Online) 2393-8021ISSN (Print) 2394-1588DOI 10.17148/IARJSET.2016.31206 Vol. 3, Issue 12, December 2016 |
| "MATLAB Simulation and Validation of Fluid Properties in the Cross Flow Wet Cooling Tower" | Nandkumar Annarao Rawabawale, Shivalingappa Nagappa Sapali | Internatinonal Revie of Mechnical Engineering(IREME), Vol. 11 No.2, 2017 |
| "Performance Evaluation of a Domestic Refrigerator with a Thermal Storage arrangement Using Propane as a Refrigerant" | Niyaj D Shikalgar, S. N. Sapali | Elsevier publication, International Journal Energy Procedia 109 (2017) 34 – 39 |
| "Performance Investigation of Natural Refrigerant R290 as a Substitute to R22 in Refrigeration Systems" | C. S. Chaudhari, S. N. Sapali  | Elsevier publication,Energy Procedia 109 (2017 ) 346 – 352 |
| **Title of the Paper** | **Authors** | **Publication details/Vol.No./ISSN No./Page No.** |
| “Optimising the Size of a CFRP Patch to Repair a Crack in a Thin Sheet” | A.R. Rasane, P. Kumar & M.P. Khond | The Journal of Adhesion Published online: 23 June 2016 |
| Monolithic comliant slider crank mechanism for motion amplification | S. S. Pardeshi, S. Kandhalkar, B. Deshmukh | MaterialsToday: Proceedings volume 4 Issue 2PA (2017) ii-xxii, ISSN 2214-1853 |
| The role of yield stress on cracked thin panels of aluminium alloys repaired with a FRP patch | P. S. Shinde, V. K. TripathiP. Kumar, K. K. Singh, P. K. Sarkar | The Journal of Adhesion, 93/5, 412-429, 2017 |
| “Design and Development of InPipe Inspection Robot” | Atul A. Gargade, Dr. Shantipal S. Ohol | American International Journal of Research in Science, Technology, Engineering & Mathematics AIJRSTEM, 15(2), June-August’16 |
| Development of In-pipe Inspection Robot | Atul A. Gargade, Dr. Shantipal S. Ohol | IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE) e-ISSN: 2278-1684,p-ISSN: 2320-334X, Volume 13, Issue 4 Ver. VII (Jul. - Aug. 2016), PP 64 72 |
| **Electrical Engineering** |
| Finite time state and disturbance estimation for robust performance of motion control systems using sliding modes | Tamhane, Bhagyashri, and Shailaja Kurode | International Journal of Control (2017): 1-12. DOI: 10.1080/00207179.2017.1311026 |
| Rotor onfigurations for improved tarting and synchronous performance of line start permanent magnet ynchronous motor | R. T. Ugale and B. N. Chaudhari | IEEE Transactions on Industrial Electronics, vol.64, no.1, pp.138-148, January 2017. DOI: 10.1109/TIE.2016.2606587 |
| Optimal Hourly Scheduling of Distributed Generation and Capacitor for Minimization of Energy Loss and Reduction in Capacitor Switching operations | S.P. Ghanegaonkar and V.N. Pande | Int. Jounal IET (Gen., Trans. Distribution |
| Peak current mode-controlled pulse width-modulated active clamp forward converter with center tap transformer | V.S. Rajguru and B.N. Chaudhari | Int. J. Power Electronics, Vol. 8, No. 1, 2016 |
| **Electronics and Telecommunication Engineering** |
| A Review on Frequency Reconfigurable Circular MicrostripPatch Antennas | Deepalaxmi V. NitureNeha V. Totawar | IJERT, vol-5, ISSN: 2278-0181,page no. 664-669 issue-08, Aug-2016 |
| A Novel Training Algorithm for Convolutional Neural Network  | Vibha Vyas, Alwin Anuse | Journal of Complex Intelligent SystemsSpringer 2:221-234, DOI 10.1007/s40747-0024-6, 2016 |
| **Title of the Paper** | **Authors** | **Publication details/Vol.No./ISSN No./Page No.** |
| Transfer Subspace Learning Model for Face Recognition at a Distance | Vibha Vyas Alwin D. Anuse , Neelima Deshmukh | Journal of Image,Graphics & Signal , MECS(Modern Education and Computer Science Press) 2017, 1, 27-32 Published Online January 2017 in MECS (http://www.mecs-press.org/) DOI: 10.5815/jigsp.2017.01.04 |
| ECG Classification using Dynamic High Pass Filtering and Statistical Framework (HRV) | Vaishali Ingale, Sanjay Nalbalwar | Signal Processing: An International Journal (SPIJ), Computer Science Journal, Volume (10) : Issue (2) : 2016 |
| Anomaly Detection using Machine Learning Techniques | R. A. Patil | IJEECS, May 2017 |
| Identification of suited quality metrics for natural and medical images | Ashok M. Sapkal,Kirti V. Thakur,Omkar H. Damodare | Signal & Image Processing: An International Journal (SIPIJ). Vol 7, no.3,DOI: 10.5121/sipij.2016.7303,Page no. 29-46, June 2016. |
| **Instrumentation and Control Engineering** |
| [Analyzing and Minimizing Capacity Fade through Optimal Model-based Control-Theory and Experimental Validation](http://ecst.ecsdl.org/content/75/23/51.short) | Manan Pathak, Dayaram Sonawane, Shriram Santhanagopalan, Richard D Braatz, Venkat R Subramanian | Electrochemical Society (ECS) Transactions, vol. 75(23), pp. 51~75, 2017 |
| **Metallurgy and Materials Science** |
| Study on Effect of Cubic- and Tetragonal Phased BaTiO3 on the Electrical and Thermal Properties of Polymeric Nanocomposites | A. A. Thanki, R. K. Goyal | Mater ChemPhys,183 (2016), 447-45610.1016/j.matchemphys.2016.08.052, pp: 447-456 |
| Tribological and Thermal Properties of Hexagonal Boron Nitride Filled High Performance Polymer Nanocomposites | R K Goyal, M Joshi,S. Patil  | Journal of Applied Polymer Science, 2016, 133,44409 (1-9) DOI: 10.1002/app.44409  |
| Polycarbonate based three-phase nanocomposite dielectrics | P. K. Sain,R. K. Goyal, Y.V.S.S. Prasad, A. K. Bhargava  | Materials Research Express, 3(8), (2016), 85016. doi:10.1088/2053-1591/3/8/085016 |
| Single-Walled/ Multi-walled Carbon-Nanotube filled Polycarbonate Nanocomposites for Advanced Electronic Applications | P. Sain, R.K. Goyal, A.K. Bhargava, Y.V. S. S. Prasad, | J Electr Mater, 46(1) 2017, 458-466. DOI: 10.1007/s11664-016-4907-5, pp: 458-466 |

|  |  |  |
| --- | --- | --- |
| **Title of the Paper** | **Authors** | **Publication details/Vol.No./ISSN No./Page No.** |
| Novel Polyacrylonitrile/ Potassium Sodium Niobate Composites with Superior Dielectric and Thermal Properties | Kaustubh Kambale, Rajendra Goyal, Sandeep Butee, Rohan Parsewar, Hanmant Gawade, Sameer Shroff | Composites Communications, 5 (2017), 8-12. doi.org/10.1016/j.coco.2017.04.003 |
| Optimization of Cryosoaking Period and Microstructural Transformation on Wear Mechanism of SAE 8620 Gear Steel | P. Ghosh & N. B. Dhokey | Tribology Transactions, 2016, DOI: 10.1080/10402004.2016.1259435 |
| Refinement of tempered martensite structure andits effect on wear mechanism in SAE 8620 | P. Ghosh & N. B. Dhokey | Tribology - Materials, Surfaces &Interfaces, 10:4, 178-184, DOI: 10.1080/17515831.2016.1262586 |
| Conducting polyaniline/nano-zinc phosphate compositeas a pigment for corrosion protection of low-carbon steel | Pravin P. Deshpande, Abhijit A. Bhopale, Vandana A. Mooss, Anjali A. Athawale | Chem. Pap. 2016, DOI 10.1007/s11696-016-0082-7 |
| Conducting polyaniline nanocomposite-based paints for corrosion protection of steel | Dimitra Sazou, P.P. Deshpande | Chem. Pap. DOI 10.1007/s11696-016-0044-0 |
| Shot peening in a novel centrifugal air blast reactor | P. G. Ranaware & M. J. Rathod | Surface Engineering, DOI: 10.1080/02670844.2016.1204087 |
| Combined effect of shot peening, subcritical austenitic nitriding, and cryo-treatment on surface modification of AISI 4140 steel | P. G. Ranaware & M. J. Rathod | Materials and Manufacturing Processes, DOI: 10.1080/10426914.2016.1221112 |
| Dissimilar Metal Joining of Pure Copper and Al 6061 by using Friction Stir Spot Welding | M. J. Rathod, Rajiv R. Devmore | INDIAN WELDING JOURNAL Volume 49 No. 4, October, 2016, pp: 64-70 |
| Designing Heat sequence of wrought iron in Ancient Vidarbha region of Maharashtra- A review | P.P.Deshpande V.S. Shinde | Trans of IIM Vol 70, Issue 2 doi- 10.1007/s 12666-016-0989-2 |
| Evaluation of alumina incorporated combined ceramic layer thermal barrier coating. | P Purohit,S. T. Vagge | Surface and Coating Technology |
| Synergetic effect of thicker nanocrystalline structure with high amount of strain induced martensite on surface characteristics of plasma nitrided austenitic stainless steel | P.G. Ranaware, M.J. Rathod | Surface & Coatings Technology, 302 (2016) 265–274, http://dx.doi.org/10.1016/ j.surfcoat.2016.05.085 |
| **Title of the Paper** | **Authors** | **Publication details/Vol.No./ISSN No./Page No.** |
| Evolution of Thermoelectric β-FeSi2 Phase by Cryo Milling and sintering | V.S.Poddar, N.B. Dhokey, S.P.Butee, N.B.Revade, M.M.Thombre, R.D. Purohit, Deep Prakash | Trans Indian Inst Met (2017) 70(1): 167-174, DOI 10.1007/s12666-016-0873-0 |
| Graphene oxide modified polyaniline pigment for epoxy based anti-corrosion coatings | Vandana A. Mooss, Abhijit A. Bhopale, P. P. Deshpande, Anjali A. Athawale  | Chemical Papers, 2017, DOI: 10.1007/s11696-017-0146-3 |
| Electrical properties of sodium beta-alumina ceramics synthesized by citrate sol-gel route using glycerine | S.P. Butee, K.R. Kambale, Mayur Firodiya | Processing and Application of Ceramics, 10 (2016) 67-72. |
| Effect of Nano Sized Starting Materials on the Dielectric and Ferroelectric Behaviour of Barium Titanate | K.R. Kambale, A.R. Kulkarni, N. Venkataramani | Transactions of Powder Metallurgy Association of India, 42(2) (2016) 17-30. |
| Improvement in Transparency of Nd:YAG Ceramics through Hot Press Sintering | S.P. Butee, K.R. Kambale, Prashant Dixit, M.D. Joshi, S.A. Dhawanjewar | Transactions of Powder Metallurgy Association of India, 42(1) (2016) 101-108. |
| Effect of Post - Sinter Annealing on the Properties of Ceramics | K.R. Kambale, S.P. Butee | Metal Powder Report, 2017, doi.org/10.1016/j.mprp.2017.02.002) |
| **Production Engineering and Industrial management** |
| Investigation on micromilling of through microslots on titanium by electrochemical micromachining | Sandip S. Anasane B. Bhattacharyya | Int. J. Precision Technology, Vol. 6, Nos. 3/4, 2016, 231-247 |
| Experimental investigation into fabrication of microfeatures on titanium by electrochemical micromachining | Sandip S. Anasane a B. Bhattacharyya | Advances in Manufacturing (Springer) (2016) 4:167-177. |
| Experimental study of electroless copper coated on ABS Material used for tooling in EDM machining process | Pawar, P., S. S. Anasane, S., Ballav, R., Kumar,  | Journal of Production Engineering, JPE (2016) Vol.19 (2) 27-32 |
| Analysis of steam injector and Sparger | D Walunje and Rajiv B | International Organization of Scientific Research page 66-70, Vol. 2, E-ISSN : 2278-1684. |
| Drag optimization of Bluff bodies using CFD for Aerodynamic applications | Veeral Thakur, Rajiv B. Tarun Yadav | International Journal of Computational Engineering Research ISSN (e): 2250 – 3005, pp 25-32, Volume, 07, Issue, 04, April – 2017. |

|  |  |  |
| --- | --- | --- |
| **Title of the Paper** | **Authors** | **Publication details/Vol.No./ISSN No./Page No.** |
| Lead Component Method: A heuristic for cell formation | Shilpa Samak Kulkarni, Neela Ravindra Rajhans, | Amity Journal of Operations Management Vol 1, Issue 1, Sept 2016, p 77-96 ISSN 09702555 |
| Design of straightening fixture to control the distortion after welding process | Sagar D. Saigaokar, P. D. Pantawane | International journal of scientific research and development, vol 4, 2016, ISSN (online): 2321 -0613729-732 |
| Improved Methodology for Storage and Quick Retrieval of Hard Files using 5s Principles | Ameya Deokar, Prakash Pantawane | International Journal for Research in Applied Science & Engineering Technology (IJRASET)Volume 5 Issue III, March 2017 IC Value: 45.98 ISSN: 2321-9653831-837 |
| **Physics** |
| Synthesis and characterization of vertically aligned cadmiumoxide nanowire array | Shweta Chaure | Journal of Material Science, Materials in Electronics; 28(1832) 2017 |
| [Field emission properties and strong localization effect in conduction mechanism of nanostructured perovskite LaNiO3](http://aip.scitation.org/doi/abs/10.1063/1.4961312). | R. B. Kamble, Narendra Tanty, Ananya Patra, V. Prasad | Applied Physics Letters, (AIP Publishing), Volume 109, 8, 083102 Aug 22, (2016).  |
| [Studies on the Structural, Thermal, Fluorescence and Linear–Non-linear Optical Properties of Glycine Sodium Acetate Single Crystal for Electro-Optic Device Applications](https://scholar.google.co.in/citations?view_op=view_citation&hl=en&user=LmxNCSwAAAAJ&citation_for_view=LmxNCSwAAAAJ:qjMakFHDy7sC) | N. N. Shejwal, S. S. Hussaini, R. B. Kamble, M. Anis, M.D. Shirsat | Recent Trends in Materials Science and Applications, Springer, SPPHY, volume 189, 493-501, (May 2017) |
| On Hopf bifurcation in fractional dynamical systems | Amey S Deshpande, Varsha Gejji, Yogita V Sukale | Chaos, Solitons & Fractals., Elsevier, Vol. 98 March 2017, (189-198) |
| Cographic element splitting matroids of regular matroids | K.V.Dalvi, Naiyer Pirouz, M.M. Shikare | Utilitas Mathematica Vol. 101, 2016, (91-106) |
| New Numerical methods for solving differential equations | Yogita V Sukale, Varsha Gejji | International Journal of Applied and Computational Mathematics, October 2016, Springer, DOI: 10.1007/s40819-016-0264-6 |
| Almost self-complementary 3-uniform hypergraphs | C.M. Deshpande Lata Kamble, Bhagyashree Y Bam | Discussiones Mathematicae Graph Theory, Vol.37, 2017, (131-140) |

* **Research Paper Published in National Conference**

|  |  |  |
| --- | --- | --- |
| **Title of the Paper** | **Authors** | **Publication details/Vol.No./ISSN No./Page No.** |
| **Mechanical Engineering** |
| Quantification of NVH Parameters in DC Electric Motors used for Automobile Applications | Gaurav Shinde, MTech-Auto Tech, D W Pande | Symposium on International Automotive Technology (SIAT) 2017, January 18-21 held at The ARAI campus in Pune India. |
| Design and Analysis of a Cage-less Differential using Face Gears | Vardhan Kanekal, Rishabh Jain, D. W. Pande | COMET’17, IITBHU, Varanashi (U.P.)Apr-17 |
| “Exergy Analysis Of The Refrigerator With Eco-Friendly Refrigerants “ | Niyaj D Shikalgar, S. N. Sapali, Anil G Wavare | 2nd National Conference on Research & Developments in Mechanical Engineering” at G.H. Raisoni College of Engineering and Management Wagholi, Pune on 09th -10th Feb2017, NCRDME-2017. |
| “Numerical Simulation of Energy Efficient Air Cooler” | Kaushal P. Patil, S. N. Sapali, Avinash M. Deshmukh | 2nd National Conference on Research & Developments in Mechanical Engineering” at G.H. Raisoni College of Engineering and Management Wagholi, Pune on 09th -10th Feb2017, NCRDME-2017.  |
| “ Design, Development, and Analysis of Operating Machine for Animal Husbandry” | Pawan P. Pawar, S. N. Sapali | 2nd National Conference on Research & Developments in Mechanical Engineering” at G.H. Raisoni College of Engineering and Management Wagholi, Pune on 09th -10th Feb2017, NCRDME-2017. |
| **Electrical Engineering** |
| A Novel Approach for Calibration of Instrument Transformers using Synchrophasors | Trupti P. Hinge, Sanjay S. Dambhare | National Power Systems Conference NPSC-2016 19 - 21 December 2016 IIT Bhubaneswar |
| Secure third zone operation of distance relay using impedance prediction approach | Prashant Gawande, Sanjay Dambhare | National Power Systems Conference (NPSC),2016, Bhubaneswar, India, pg. 1-6 |
| **Electronics and Telecommunication Engineering** |
| Interface Circuit Design for Capacitive Sensing Transducer in 0.18um CMOS Technology | Vanita Agarwal | IETE Cynosure NCCEEE BATU Lonere,April-2016 |
| Standard Cell extraction scheme for improving timing model accuracy | Vanita Agarwal | IETE Cynosure NCCEEE BATU Lonere,April-2016 |

|  |  |  |
| --- | --- | --- |
| **Title of the Paper** | **Authors** | **Publication details/Vol.No./ISSN No./Page No.** |
| Role of Fractal based IoT Environment for Smart Cities | Sachin Shukla, Gauri Patankar, Amar Nerune, A.B. Patki, V. Prithviraj | National Conference on Recent Trends in the Development of Smart Cities, NCRTDSC'17, CHENNAI, India, March 3-4, 2017 |
| **Metallurgy and Materials Science** |
| Flip side of improvement in fracture toughness of Barium titanate by addition of alumina | K.R. Kambale | XIX National Seminar on Ferroelectrics and Dielectrics,19-21 Dec 2016, Dept of Physics, Maulana Azad NIT, Bhopal |
| From lamination to forge welding technology in ancient and medieval India | P. P. Deshpande | 5th Bharatiya Vigyan Sammelan & Expo 2017, 11 - 14 May 2017, Fergusson College, Pune. |
| **Production Engineering and Industrial Management** |
| Prioritizing and ranking of factors affecting on-time delivery | Digvijay S. Patil and M. R. Dhanvijay | AICTE sponsored National Conference on Innovative Trends in Mechanical and Automobile Engineering (ITMAE), 11-12 Feb 2016 |
| Floor Mopping Robot | Ms. Sayali Chavan and M. R. Dhanvijay | AICTE sponsored National Conference on Innovative Trends in Mechanical and Automobile Engineering (ITMAE), 11-12 feb 2016, Dept. of Mechanical Engg. MVSR Engineering College, Nadergul, Hyderabad, Telangana. |

* **Research Paper Published in International Conference**

|  |  |  |
| --- | --- | --- |
| **Title of the Paper** | **Authors** | **Publication details/Vol.No./ISSN No./Page No.** |
| **Mechanical Engineering** |
| Experimental Investigation for Microwelding of 304 Stainless Steel Thin Sheets using low Power Fiber Laser | V. K. Haribhakta, Shrikant B. Patil, Sujit S. Pardeshi | 6th International & 27th All India Manufacturing Technology, Design and Research Conference (AIMTDR2016) |
| Development Of A Cost-Effective, Generic Attitude Control And Determination System Testbed For Small Satellites | Prabhune Bhagyashree Chandrakant, Rathod Abhijit Laxman,Waghulde Dhaval Vilas, Zambre Priyanka Vivek, Baj Girish Rajendrakumar, D. W. Pande | 29th Space Simulation Conference, November 14-17, 2016, Annapolis, Maryland US |
| Effects of Tangential Velocity on Fluid Flow and Heat Transfer for Turbulent Flow through the Pipe with Twisted Tape Insert | Parag Chaware and C. M. Sewatkar | Proceedings of the 6th International and 43rd National Conference on Fluid Mechanics and Fluid Power, December 15-17, 2016, MNNITA, Allahabad, U.P |
| On the Effect of Reynolds Number and Spacing Ratio on Flow through a 4 x 4 Array of Square Cylinders with LBM | Mayur Patil, Mustafa Abbas, Ajiket Patil and C. M. Sewatkar | Proceedings of the 6th International and 43rd National Conference on Fluid Mechanics and Fluid Power, December 15-17, 2016, MNNITA, Allahabad, U.P |
| Force Scatter Analysis of Flow through a Bundle of Square Cylinders Using LBM | Mayur Patil, Mustafa Abbas, Ajiket Patil and C. M. Sewatkar | Proceedings of the 6th International and 43rd National Conference on Fluid Mechanics and Fluid Power, December 15-17, 2016, MNNITA, Allahabad, U.P |
| Effect of Moving Lid on Heat Transfer and Fluid Flow in Differentially Heated Square cavity | Lahorkar Ashwin, Kotkar Sanket, Kulkarni Shubham, C. M. Sewatkar | Proceedings of the 6th International and 43rd National Conference on Fluid Mechanics and Fluid Power, December 15-17, 2016, MNNITA, Allahabad, U.P |
| Fluid Flow and Heat transfer from Two Side by Side Heated Square Cylinders | Mayur Patil and C. M. Sewatkar | Proceedings of the 6th International and 43rd National Conference on Fluid Mechanics and Fluid Power, December 15-17, 2016, MNNITA, Allahabad, U.P |
| Numerical analysis of forced convection in a lid driven cavity with different heat sources placed along the bottom wall | Divyaj Shah, ketki Godbole, C. M. Sewatkar | International Conference of Recent Advances in Mechanical Engineering, Dehli Technological University, Dehli, India, 14th and 15th Oct 2016 |
| **Title of the Paper** | **Authors** | **Publication details/Vol.No./ISSN No./Page No.** |
| Effect of location of heat source and Rayleigh number on natural convection in a square cavity using thermal lattice Boltzmann method | Patil M. Y., Patil A. J., Sewatkar C. M. | ICCMS2016, IIT Bombay, Mumbai, India, June 27-July 1, 2016 |
| Performance, combustion and emission analysis of compression ignition engine fuelled with blends of fish oil biodiesel | Sanket Muley, M R Nandgaonkar | 1st International and 18th ISME conference on Enabling Sustainable Development in Mechanical Engineering, NIT, Warangal, 23-25 February, 2017. |
| “Influence of process parameter during machining of graphite using micro- wire electric discharge machine” | Selmokar P. H., Pardeshi S. S., Shubham Patilk, Sunil Patil | 6th International & 27th All India Manufacturing Technology, Design and Research Conference (AIMTDR2016) |
| “Abrasive Assisted Electrical Discharge Machining: An Innovative Hybrid Approach” | S.H.Wankhade, B.M. Dabade M.P.Khond | International conference on Material Manufacturing and Design Engineering(icmmd 2016)December20-21,2016 |
| “Improving Quality of Technical Education by Quality Function Deployment” | Mohan Khond, Shrinivas Patil, Swapnil Sonawane, Chaitanya Shrishrimal and Aarti Bhattu | International Conference at Detroit Lawrence Tech Campus, USA September 24, 2016. (Awarded as best track paper in Engineering Education) |
| “Growth of Food Tech: A Comparative Study of Aggregator Food Delivery Services in India” | Mohan Khond, Mustafa Abbas, Harsh Balihallimath and Nishant Bidichandani | IEOM international Conference at Detroit Lawrence Tech Campus, USA September 24, 2016. (Awarded 2nd place in Undergraduate Student Research Competition, Award Sponsored by SIEMENS |
| [Reinforcement of Graphene in Aluminium Metal-matrix Composite](http://www.coep.org.in/AIMTDR-2016/main/pdf/1048.pdf) | Suraj Tat, Mundra S.S., Pardeshi S.S., Patil S.R.  | 6th International & 27th All India Manufacturing Technology, Design and Research Conference (AIMTDR2016)  |
| [Experimental Investigations into Low Power Micro Laser Clad Surfaces](http://www.coep.org.in/AIMTDR-2016/main/pdf/1634.pdf) | Dandekar V.S., Bulbule N.B., Chaudhari A.S., and Bhavikatti S.S.  | 6th International & 27th All India Manufacturing Technology, Design and Research Conference (AIMTDR2016) |
| Development of a precision experimental setup for a flexure based micro motion amplifier | S. S. Pardeshi, B. B. Deshmukh | International Conference on Research into Design, 9-11 January, Guwahati, India |
| **Title of the Paper** | **Authors** | **Publication details/Vol.No./ISSN No./Page No.** |
| Increasing energy efficiency by optimized cryogenic capable pressue vessel for liquid hydrogen fuel in automobile | V. K. Tripathi, Rahul Rundive, Anagha Bhagat | World Congress on Engineering and applications ( WCEA – 2016) Bangkok, Thailand 16-17 Dec. 2016 |
| “Development of Actively Steerable In-pipe Inspection Robot for Various Sizes” | Atul A. Gargade, Shantipal S. Ohol | Advances in Robotics (AIR 2017), at IIT Delhi, New Delhi, during June 28-July 2, 2017 |
| “ Investment Casting Bottom Pour Ladle Development Trials ” | Nilesh P. Vanikar, Robert C. Voigt, Shantipal S. Ohol, Tanay R. Anjikar | 63rd ICI International Technical Conference, Columbus, Ohio, 16th to 19th Oct 2016. |
| **Electrical Engineering** |
| PMU based fault location for double circuit transmission lines in modal domain | Snehal Unde, Sanjay Dambhare | IEEE PESGM , Boston, MA, USA, July 2016 |
| Differential protection of mutually coupled lines in modal domain using synchronized measurements | Snehal Unde, Sanjay Dambhar | NPSC 2016, IIT Bhubaneshwar |
| Adaptive Distance Relaying Scheme With Fault Resistance Compensation | Indrajeet Bhavar, Snehal Unde, Sanjay Dambhare | TENCON, Singapore, Nov 2016 |
| Analysis of Fault Resistance Compensation Methods for Mutually Coupled Parallel Transmission Lines | Pallavi Bharti, Apurva Dehankar, Shalvi Raut , Snehal Unde, Sanjay Dambhare | 7th PIICON, Bikaner, Rajasthan, Nov 2016 |
| Distance Protection of lines connected to Doubly Fed Induction Generator based wind farms | Vaishnavi Phadke, Swarada Pathradkar, Akshata Rajput, Snehal Unde, Sanjay Dambhare | 7th PIICON, Bikaner, Rajasthan, Nov 2016. |
| Web based automated electrical machine test bench with data acquisition and remote control | R. T. Ugale and Kunal B. Chavhan | IEEE International conference on Power Electronics, Drives and Energy Systems (PEDES 2016), pp- 1-5, held at Trivandrum, Kerala, India during 13-17 Dec. 2016. DOI: 10.1109/PEDES.2016.7914511 |

|  |  |  |
| --- | --- | --- |
| **Title of the Paper** | **Authors** | **Publication details/Vol.No./ISSN No./Page No.** |
| Analytical and FEM based analysis of Homopolar poly-phase transverse flux machine | Priyanka Bastawade, B. N. Chaudhari, R. T. Ugale and A. Pramanik | IEEE International conference on Power Electronics, Drives and Energy Systems (PEDES 2016), pp. 1-6, held at Trivandrum, Kerala, India during 13-17 Dec. 2016.DOI: 10.1109/PEDES.2016.7914411 |
| Circuit model for conducted emissions analysis of integrated magnetic with thermal impact | R. T. Ugale, Tushar Sambharam, B. N. Chaudhari and S. L. Patil | 42nd Annual International conference of Industrial Electronics Society - IECON 2016, pp. 1301-1306, held at Florence, Italy during 23-27 Oct. 2016. DOI: 10.1109/IECON.2016.7793410. |
| Analytical and FEM design of autotransformer with phase shifting capability | R. T. Ugale, K. D. Mejari and B. N. Chaudhari, | 42nd International Conference on Electrical Machines, ICEM 2016, held at Lausanne, Switzerland during Sept. 4-7, 2016, pp. 1345-1351, Sept. 2016, DOI: 10.1109/ICELMACH.2016.7732699. |
| Automated test bench for an induction motor using Lab View”, CD Proc., Paper ID- 1570270863 | Kunal B. Chavhan and R. T. Ugale | 1st International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES 2016) held at Delhi Technological University, New Delhi, India during 3-7 July. 2016 pp.1-6DOI:10.1109/ICPEICES.2016.785 |
| Optimal Power Flow For Power management in Microgrid | . S. N. Chaphekar, Prashant Karad, Anjali A. Dharme | ICPEICES, New Delhi, 4-6th July2016 |
| Estimation of Transmission reliability Margin Using the Comaparative Anlysis of Satistical Methods and Intelligent Techniques | Swati Dadi, V. V. Khatavkar, Heramb Maydeo, A. A. Dharme | ICACDOT, IEEE International Conference held at I2IT,Pune,on 9-10 Sept. 2016 |
| Impact of Probabilistic nature and Location of Wind Generation onTransmission Power Flows | V. V. Khatavkar, Poonam Dhabai, Heramb Mayadeo , A. A. Dharme | ICACDOT, IEEE International Conference held atI2IT,Pune,on 9-10 Sept. 2016 |
| Availability Based Distributed Resource Management of Microgrid | S.N.Chaphekar, Himanshu S. Panandikar and Anjali A. Dharme | 7th Power India International Conference, Government College of Engineering, Bikaner, Rajasthan, India, 25th -27th November 2016 |
| **Title of the Paper** | **Authors** | **Publication details/Vol.No./ISSN No./Page No.** |
|  Optimal Penetration Ratio for a Radial feeder with a Microgrid | Prashant Karad, S. N. Chaphekar, Anjali A. Dharme | IEEE International Conference on Computing, Analytics and Security Trends (CAST2016), at COEP, Pune, 19-21 Dec.2016 |
| Blocking of Distance Relays Zone3 under Load Encroachment Conditions Using Decision Tree Technique | Nikhil Chaudhari, Trupti Hinge, Sanjay Dambhare | 7th POWER INDIA International Conference, IEEE, November 25-27, 2016 Govt. Engineering College Bikaner, Rajasthan, India |
| Dynamic Security Analysis For Voltage Security Using Decision Trees | Nikhil Chaudhari, Trupti Hinge, Sanjay Dambhare | TENCON IEEE, 22-25 November, 2016 Singapore |
| Protection and fault identification in presence of power swing blocking/unblocking function | Prashant Gawande, Sanjay Dambhare | IEEE Power and Energy Society General Meeting (PESGM), 2013, Vancouver, BC, Canada, pg. 1-6 |
| A novel algorithm to detect symmetrical faults during power swing for a double circuit multi-terminal transmission line | Prashant Gawande, Sanjay Dambhare | IEEE/PES Transmission and Distribution Conference and Exposition (T&D), 2016, Dallas, TX, USA, pg. 1-7 |
| A novel unblocking function for distance relay to detect symmetrical faults during power swing | Prashant Gawande, Sanjay Dambhare | IEEE Power and Energy Society General Meeting (PESGM), 2016, Boston, MA, USA, pg. 1-6 |
| An adaptive distance relay protection scheme for enhanced protection security | Prashant Gawande, Pallavi Bedekar, Milind Bagewadi, Sanjay Dambhare | IEEE 6th International Conference on Power Systems (ICPS), 2016, New Delhi, India, pg. 1-6 |
| An algorithm to secure the zone 3 operation of distance relay | Prashant Gawande, Pallavi Bedekar, Vidyulata Joshi, Sanjay Dambhare | IEEE Region 10 Conference (TENCON), 2016, Marina Bay Sands, Singapore, pg. 975-978 |
| Enhancing security of distance relays during power swing unblocking function for double circuit transmission lines: A differential power approach | PN Gawande, SS Dambhare | 13th International Conference on Development in Power System Protection 2016 (DPSP), 2016, Edinburgh, Scotland, UK, pg. 1-6 |
| Hybrid Solar Photovoltaic/Thermal (PVT) panel-Review | Rohan S. Kulkarni, D. B Talange | International Conference on Advanced Computing and Communication Systems (ICACCS -2017), pg. 2008-2011, Coimbatore, INDIA |
| **Title of the Paper** | **Authors** | **Publication details/Vol.No./ISSN No./Page No.** |
| Design and development of energy efficient advanced PEM fuel cell for Electric Vehicle Applications | Sudarshan L. Chavan, D. B. Talange | International Conference on Advanced Computing and Communication Systems (ICACCS -2017), pg. 2093-2096, Coimbatore, INDIA |
| Electrical equivalent circuit modeling and parameter estimation for PEM fuel cell | Sudarshan L. Chavan, D. B. Talange | International Conference. on Innovations in Power and Advanced Computing Technologies (i-PACT 2017) |
| Modelling and Control of Active Clamp Forward Converter with Current Doubler Rectifier | V.S.Rajguru, Rohit Rokade | First IEEE International conference on Power Electronics, Intelligent Control and Energy Systems –ICPEICES 2016 4-6 July 2016 |
| Design and Implementation of a prototype DC photovoltaic power system simulator with maximum power point tracking system | V.S.Rajguru, Soham Karyakarte, Supriya Kawthekar, Vishnu Menon | First IEEE International conference on Power Electronics, Intelligent Control and Energy Systems –ICPEICES 2016 4-6 July 2016 |
| Modelling, Design and comparison of PI amd PID Controllers for STACOm | Meera Murali, Archana Gokhale, Amit Pande and Ekta Sharma | IEEE Conference ICPEICES, Delhi, 4-6 th July 2016 |
| Non linear mathematical modelling and simulation of switched reluctance motor | Akshay Nirgude, Meera Murali, Swanand Kulkarni, Shubham R Patel | IEEE Conference , PEDES 2016 |
| Comparitive Analysis of 6,12,48 pulses T-STATCOM | Swapnil Mahajan, Meera Murali, Tushar Mali | IEEE Conference PIICON, 2016, 25-27th November 2016. |
| Design and Implementation of an Integrated non-isolated inverted dc-dc buck boost converter for battery charging | Rutuja Bajaja, Jeet Panchal, Meera Murali | IEEE Conference ICECCT, 2017 22-24th Feb, 2017 |
| **Electronics and Telecommunication Engineering** |
| Frequency and Polarisation Reconfigurable Square Ring Antenna for Wireless Apllication  | Deepalaxmi V. Niture,Ashish G. Padwal,Dr. S. P. Mahajan | IEEE Region 10 Conference (TENCON), ISSN: 978-1-5090-2597-8/16, page no. 1302-1305, 2016 |
| Acoustic Environment Identification using Blind De-reverberation | Rashmika K. Patole, P. P. Rege,Pravin Suryawanshi | IEEE, IC on CAST, ISSN: 978-1-5090-1338-8/16, page no. 495-500, 2016 |
| Digital Image Security Using MOSAICS | Shilpa P. Metkar,Nishigandha V. Gaikwad | IEEE, ICCCA, ISSN: 978-1-5090-1666-2/16, page no. 1074-1079, 2016 |

|  |  |  |
| --- | --- | --- |
| **Title of the Paper** | **Authors** | **Publication details/Vol.No./ISSN No./Page No.** |
| Timing Closure and Leakage Optimization using MCMM Optimization | Vanita Agarwal | ICEECMPE-Pune, Paper ID: IE-EECMPEPUNE-05066-949,June 2016 |
| Improving the Visual Quality of Secret Fragment Visible Mosaic Image | Shilpa P. Metkar,Nishigandha V. Gaikwad | IEEE, Conference on Advances in Signal Processing(CASP) Cummins COE for Women, Pune, ISSN: 978-1-5090-0849-0/16, page no. 207-211,June-2016  |
| An effective approach to recover corrupted or mobile captured 2D barcode images with improved accuracy | Shilpa Metkar,Sonam Wasule | IEEE, Conference on Advances in Signal Processing(CASP) Cummins COE for Women, Pune, ISSN: 978-1-5090-0849-0/16, page no. 108-113,June-2016 |
| [Petrographic image classification using optimized Radial Basis Function Support Vector Machine & validation of its asymptotic behavior](http://ieeexplore.ieee.org/document/7753703/) | [Vibha Vyas](http://ieeexplore.ieee.org/search/searchresult.jsp?searchWithin=%22Authors%22:.QT.Vibha%20Vyas.QT.&newsearch=true), [Ashutosh S. Marathe](http://ieeexplore.ieee.org/search/searchresult.jsp?searchWithin=%22Authors%22:.QT.Ashutosh%20S.%20Marathe.QT.&newsearch=true);  [Madhavi Chavhan](http://ieeexplore.ieee.org/search/searchresult.jsp?searchWithin=%22Authors%22:.QT.Madhavi%20Chavhan.QT.&newsearch=true) | [IEEE, International Conference on Signal Processing, Communications and Computing (ICSPCC)](http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=7744430) Year: 2016 Pages:1- 6,  DOI: [10.1109/ICSPCC.2016.7753703](https://doi.org/10.1109/ICSPCC.2016.7753703)IEEE Conference Publications |
| Analysis framework for machine learning experiments based on classifier combination for petrographic images  | [Vibha Vyas](http://ieeexplore.ieee.org/search/searchresult.jsp?searchWithin=%22Authors%22:.QT.Vibha%20Vyas.QT.&newsearch=true), [Ashutosh S. Marathe](http://ieeexplore.ieee.org/search/searchresult.jsp?searchWithin=%22Authors%22:.QT.Ashutosh%20S.%20Marathe.QT.&newsearch=true);[Madhavi A. Chavhan](http://ieeexplore.ieee.org/search/searchresult.jsp?searchWithin=%22Authors%22:.QT.Madhavi%20A.%20Chavhan.QT.&newsearch=true) | IConSIP, Year: 2016 Pages: 1,5, DOI: [10.1109/ICONSIP.2016.7857484](https://doi.org/10.1109/ICONSIP.2016.7857484) |
| Biometric association using transfer subspace learning | [Vibha Vyas](http://ieeexplore.ieee.org/search/searchresult.jsp?searchWithin=%22Authors%22:.QT.Vibha%20Vyas.QT.&newsearch=true), [Rupali Sandip Kute](http://ieeexplore.ieee.org/search/searchresult.jsp?searchWithin=%22Authors%22:.QT.Rupali%20Sandip%20Kute.QT.&newsearch=true) | IEEE, Region 10 Conference (TENCON)Yr: 2016 Pages: 1384-1387,  DOI: [10.1109/TENCON.2016.7848241](https://doi.org/10.1109/TENCON.2016.7848241) |
| An Invertible Fuzzy Scheme for Securing a Fragile Watermark | Vaibhav Joshi, Mehul Raval, Dhruv Gupta, Priti Rege | 2016 International Conference on Computing, Analytics and Security Trends (CAST), COEP, Dec 19-21, 2016 |
| Modelling and Performnce Analysis of RF Energy Harvesting Cognitive Radio Networks | Sushil B Ronghe, Varada Potnis Kulkarni |  IEEE ICCES 2016, Coimbatore, October 2016 |
| Automatic Carnatic Raga Identification using Octave Mapping and Note Quantization | Rohan Pillai,S.P. Mahajan | International Conference on Communication and Signal Processing, April 6-8, 2017, India |

|  |  |  |
| --- | --- | --- |
| **Title of the Paper** | **Authors** | **Publication details/Vol.No./ISSN No./Page No.** |
| Performance Optimization and Comparative Analysis of Neural Networks for Handwritten Devanagari Character Recognition | Sushama Shelke and Shaila Apte | IEEE International Conference on Signal and Information Processing (IConSIP-2016) |
| Anomaly Detection using Machine Learning Techniques | R. A. Patil | ICETSMI 2017, Delhi, India |
| Fifth Derivative Gaussian Pulse generator for UWB Applications | P.A. Patil, S.R.Chirania, A.B Patki | 2016 International Conference on Computing Communication Control and automation (ICCUBEA), 12-13 August 2016. |
| Poisson Reducing UnilateralFiltering for X-ray Image Denoising | Ashok M. Sapkal,Kirti V. Thakur,Omkar H. Damodare | International Conference on Communication Computing & Virtualization, FCS, NY, USA.ISSN: 2249-0868, Page no. 9-13, 2016  |
| Medical Image Denoising using Rotated Wavelet Filter and Bilateral Filter | Ashok M. Sapkal,Kirti V. Thakur,Pramod G. Ambhore | International Conference on Communication Computing & Virtualization, FCS, NY, USA.ISSN: 2249-0868, Page no. 14-18, 2016 |
| Agri-Guide: an Integrated Approach for Plant Disease Precaution, Detection, and Treatment | Ashok Sapkal,Anjali Chandavale,Suraj Patil | ICDECT, Springer, DOI: 10.1007/978-981-10-1678-3\_78,Page no. 809-8172016, Volume-2. |
| Morphology Based Approach for Number plate Extraction | Priti Rege,Chetan Pardeshi | ICDECT, Springer, Volume-2,DOI: 10.1007/978-981-10-1678-3\_2, Page no. 11-17, 2016 |
| Study of x265 and Generic Motion Search Algorithm | Vidya N. More,Vivel D. Indrale | 2nd International Conference on computing communication, Control and automation, PCCOE, Pune, Aug 2016 |
| **Instrumentation and Control Engineering** |
| Fuzzy Logic Based Decision Support System | Jagannath Wadgaonkar, Kalyani Bhole | Proc. of IICIP 2016, 12th-14th August 2016. |
| Implementation of control algorithm for furnace temperature control in CFD simulation | Sampada Bhujbal, Ashwini Andhale, Amruta Deshpande, Sachin Pimpalnerkar | IEEE, International Conference on Automatic control and dynamic optimization technique (ICACDOT-2016), September 9-10, 2016, International Institute of Information Technology, Hinjawadi,  |
| Fuzzy Based Incremental Conductance Algorithm for PV System | Harshal Deopare, Amruta Deshpande | IEEE, International Conference on Automatic control and dynamic optimization technique (ICACDOT-2016), September 9-10, 2016, International Institute of Information Technology, Hinjawadi, Pune |
| **Title of the Paper** | **Authors** | **Publication details/Vol.No./ISSN No./Page No.** |
| Performance verification of ripple correlation control for solar PV application | Amruta Deshpande, S. L. Patil | IEEE, 7th Indial International Conference on Power Electronics (IICPE-2016), 17-19 November 2016, Thapar university, Patiala |
| Investigation of sliding mode control of higher order DC-Dc converter | Sanjeev Kumar Pandey,S. L. Patil, S. B. Phadke, A. S. Deshpande | IEEE, 7th Indial International Conference on Power Electronics (IICPE-2016), 17-19 November 2016, Thapar university, Patiala |
| Sensor Development of Electronic Tongue System for Taste Identification | Rohini Mudhalwadkar | 2nd International Conference on Sensors and Electronic Instrumentation Advances,22-23 September 2016, Barcelona, Castelldefels, Spain,ISBN: 978-84-608-9963-1 |
| Parameter Controlled Gas Sensor System for Development of Sensor Model | Dipali Ramdasi, Rohini Mudhalwadkar | Springer International Conference on Advance Computing and Intelligent Engineering, Odisha, 21st to 23rd December, 2016 |
| A survey on factors affecting performance and durability of PEM Fuel Cells in Automotive applications | Sujit Barhate, Rohini Mudhalwadkar and Ak Prakash | Springer International Conference on Intelligent Computing and Applications (ICICA 2016) 20th-22nd December, 2016  , Pune |
| Performance Evaluation of PID, LQR and MPC Controllers for DC Motor Speed Control | Siddesh Dani, Dayaram Sonawane, Deepak Ingole and Sanjaykumar Patil | IEEE 2nd International Conference for Convergence of Technology (I2CT), Pune, India, April 7-9, 2017. |
| Earlier prediction & Comprehensive Health Assessment-Management of Lung Cancer in CT images | Rahul Pujari, Uttam Chaskar | Proceeding of IEEE sponsored 2nd International conferences for convergence of Technology (i2ct), Pune, India.April07 -08 -09, 2017 |
| Performance Evaluation of PID, LQR and MPC Controllers for DC Motor Speed Control | Siddesh Dani, Dayaram Sonawane, Deepak Ingole and Sanjaykumar Patil | IEEE 2nd International Conference for Convergence of Technology (I2CT), Pune, India, April 7-9, 2017. |
| Convergence rates for direct transcription of optimal control problems using Second Derivative Methods | Dayaram Sonawane, Manan Pathak and Venkat Subramanian | American Control Conference (ACC 2016), Boston, USA, pp. 215-220, July 6-8, 2016 |
| Automatic Detection of Major Lung Diseases UsingChest Radiographs and Classification ByFeed-Forward Artificial Neural Network | Shubhangi Khobragade, Vikram Narke, C Y Patil | IEEE ICPEICES 2016 |

|  |  |  |
| --- | --- | --- |
| **Title of the Paper** | **Authors** | **Publication details/Vol.No./ISSN No./Page No.** |
| Effect of addition of V2O5 on the densification, dielectric and ferroelectric behaviour of Pb free K- Na- Niobate Ceramics | K.R. Kambale | International Conference on Technologically Advanced Materials and Asian Meeting on Ferroelectrics, 7-11 Nov 2016, University of Delhi |
| Electrical Properties of Graphene/Polymer nanocomposites Prepared by a Simple Route | R K Goyal | International Conference on Advanced Rechargeable Batteries & allied Materials (ICARBM-2017), organized by Centre for Materials for Electronics Technology (C-MET) Pune during, March 8-9 2017,  |
| Synthesis and Characterisation of ZnO-Bi2O5-CuO-V2O5 based High Voltage Varistor | S. P. Butee | International conference on Ceramics, Glass and Refractories - Emerging Innovations, 13-15 Dec 2016, IICT, Hyderabad, Telangana,  |
| Corrosion behavior of SS316 in hank solution for biomedical applications | S.T. Vagge | NMD'16 "Metals, Materials and Manufacturing for a Self-Reliant India, 11-14 Nov'16, BHU-IIT, Banaras |
| Effect of particle size and process parameters on dimensional shrinkage of sintered compacts | N B Dhokey | International conference on Powder Metallurgy and particulate Materials, PM 17, 20-22 Feb 2017, New Delhi |
| Fabrication of Thermoelectric Generator for high temperature application using unicouples made from p-type and n-type β-Iron disilicide | V. Poddar | International conference on Powder Metallurgy and particulate Materials, PM 17, 20-22 Feb 2017, New Delhi |
| Development of Near Net Shape Fe-Cu-C Sintered Powder Compacts Through Composition Control | S. P. Butee | European Powder Metallurgy World Congress-2016 Hamburg, 10–13 Oct 2016, Germany |
| Recycling of mill scale for iron | N. B. Dhokey | European Powder Metallurgy World Congress-2016 Hamburg, 10–13 Oct 2016, Germany |
| Investigations into micro hole generation on titanium by Electrochemical Micromachining using Conical Disc Microtool | Sandip S. Anasane and B. Bhattacharyya | 6th International and 27th All India Manufacturing Technology, Design and Research Conference, AIMTDR 2016, December 16-18, 2016, College of Engineering, Pune |
| Application of AHP for Design Selection of Rotary Table System | Kalyani V. Kanadkhedkar and Rajiv B. | International Conference on Advanced and Agile Manufacturing and Agile Software Development, 06-07 Oct.2016. SGGS Institute of Engineering and Technology, Nanded |

|  |  |  |
| --- | --- | --- |
| **Title of the Paper** | **Authors** | **Publication details/Vol.No./ISSN No./Page No.** |
| Motion Bubble Chart for Supply Chain Operation Optimization & Data Visualization for Decision Making | Mahendra Salunkhe andRajiv B. | International Conference on Modern Era Research in Mechanical Engineering (MERME-16) in association with Institute of Engineers, India (IEI) Kolkata 29th-30th September 2016, RIT Sakharale. |
| MQL machining of high carbon high chromium (HCHCr) steel using vegetable oil | Pankaj Gaigole and Rajiv B. | 6th International & 27th 2016 All India Manufacturing Technology, Design and Research Conference from 16th -18th December, 2016 at College of Engineering Pune.- AIMTDR2016 –839 |
| Elimination of oil leakage defect in V series Diesel Engines using the Six Sigma Technique | Chaitali Gogare andRajiv B. | 6th International & 27th 2016 All India Manufacturing Technology, Design and Research Conference from 16th-18th December, 2016 at College of Engineering Pune.- AIMTDR2016 – 1164 |
| Reliability Analysis of Heat Exchanger Cycle Using Non-Parametric Method | Apurv Kulkarni, Shreyas Badave, Rajiv.B | ICMEAFM 2017 : 19th International Conference on Mechanical Engineering and Applied Fluid Mechanics Dubai, UAE during May, 19-20, 2017. |
| Critical Analysis of Heat Exchanger Cycle for Its Maintainability Using Failure Modes and Effect Analysis and Pareto Analysis | Sayali Vyas, Atharva Desai, Shreyas Badave, Apurv Kulkarni, B. Rajiv | ICMEAFM 2017 : 19th International Conference on Mechanical Engineering and Applied Fluid Mechanics Dubai, UAE during May, 19-20, 2017. |
| Analysis of Fuel Efficiency in Heavy Construction Compaction Machine and Factors Affecting Fuel Efficiency | Amey Kulkarni, Paavan Shetty, Amol Patil, Rajiv B | ICMEAFM 2017 : 19th International Conference on Mechanical Engineering and Applied Fluid Mechanics Dubai, UAE during May, 19-20, 2017. |
| Study of the bias associated with the forecasting of intermittent demands | Vicky B. Sardar,N.R.Rajhans | 58th National Convention and International Conference on Smart Strategies for digital World – Industrial Engineering perspective, Shri Ramdeobaba College of Engineering and Management , Nagpur, 21-22 Oct 2016 |
| Forecasting of primary energy using time-series forecasting methods | Tushar Prakash Prabhu, Ameya Gajanan Pathak,N.R.Rajhans | 58th National Convention and International Conference on Smart Strategies for digital World – Industrial Engineering perspective, Shri Ramdeobaba College of Engineering and Management , Nagpur, 21-22 Oct 2016 |

|  |  |  |
| --- | --- | --- |
| **Title of the Paper** | **Authors** | **Publication details/Vol.No./ISSN No./Page No.** |
| Developments in silicone material for biomedical applications- A review | Vicky B. Sardar,N.R. Rajhans, Ameya Pathak, Tushar Prabhu, | 14th International Conference on Humanizing Work and Work Environment HWWE-2016 |
| Improvisation of productivity through layout optimization in manufacturing company of planetary gear boxes  | Snehal M. Raut, Harshwardhan Vairagade, Vicky B. Sardar, N. R. Rajhans, | 6th International & 27th All India Manufacturing Technology, Design and Research Conference (AIMTDR-2016), December 16-18, 2016 |
| Optimization of a Gear Manufacturing industry layout using Simulation | Sujata Patil, V.B.SardarN.R.Rajhans | 6th International & 27th All India Manufacturing Technology, Design and Research Conference (AIMTDR-2016), December 16-18, 2016 |
| Development in Small Scale Multipurpose Fodder Harvester-A Review , NIT Jalandhar 2016  | Ameya G. Pathak, Tushar P. Prabhu, Harshal B. Chaudhari and N. R. Rajhans, | 14th International Conference on Humanizing Work and Work Environment HWWE-2016 |
| Optimization of plant layout using simulation software | Anurag A. Polshettiwar, Divyesh P. Trivedi, Vicky B. Sardar,N R Rajhans | 6th International & 27th All India Manufacturing Technology, Design and Research Conference (AIMTDR-2016), December 16-18, 2016 at College of Engineering., Pune |
| Simulation and optimization of layout of sheet metal manufacturing plant | Ameya Y. Deokar, Aniruddha M. Bavdhankar, Ronak R. Degaonkar, Vicky B. Sardar, N. R. Rajhans, | 6th International & 27th All India Manufacturing Technology, Design and Research Conference (AIMTDR-2016), |
| Application of Critical Path Method for Project Scheduling – A Case Study,  | Swati Razdan, Mayur Pirgal, Abhishek Hanchate, Mrs. N. R. Rajhans, Vicky Sardar | International Conference on Manufacturing Excellence 2017, K.K.Wagh College of Engineering Nasik, 3,4th March 2017 |
| Inventory Management for a newly started Service Station  | Ameya Pathak, Tushar Prabhu, Vicky Sardar, N. R. Rajhans | International Conference on Manufacturing Excellence 2017, K.K.Wagh College of Engineering Nasik, 3,4th March 2017 |
| Implementation of Operating Characteristic (OC) curve to determine the probability of acceptance along with other parameters for a single-sampling plan. | Soham Mandavkar, N.R. Rajhans | International Conference on Manufacturing Excellence 2017, K.K.Wagh College of Engineering Nasik, 3,4th March 2017 |

|  |  |  |
| --- | --- | --- |
| **Title of the Paper** | **Authors** | **Publication details/Vol.No./ISSN No./Page No.** |
| Renewable Energy: opportunities and constraints in rural areas  | Susmita Anil Ukande, Vicky Sardar, N. R. Rajhans | International Conference on Manufacturing Excellence 2017, K.K.Wagh College of Engineering Nasik, 3,4th March 2017 |
| Research on Injection Mould Intelligent Cost Estimation System and Key Technologies | Harshvardhan Maheshwari, N.R Rajhans | International Conference on Manufacturing Excellence 2017, K.K.Wagh College of Engineering Nasik, 3,4th March 2017 |
| Research on Injection Mould Intelligent Cost Estimation System and Key Technologies | Harshvardhan Maheshwari, N.R Rajhans | International Conference on Manufacturing Excellence 2017, K.K.Wagh College of Engineering Nasik, 3,4th March 2017 |
| Studying and Implementation of Electronic Procurement Processes in Organisations | Darshan Maheshwari, N.R. Rajhans | International Conference on Manufacturing Excellence 2017, K.K.Wagh College of Engineering Nasik, 3,4th March 2017 |
| Assessment of Human Performance Considering Human Behavior  | Gayatri Deshmukh, Kalyani Ikade, Chaitali Tapase, N.R. Rajhans | International Conference on Manufacturing Excellence 2017, K.K.Wagh College of Engineering Nasik, 3,4th March 2017. |
| Transient response analysis and speed control of an IC Engine | Pooja Deshmukh,  N.R.Rajhans | International Conference on Manufacturing Excellence 2017, K.K.Wagh College of Engineering Nasik, 3,4th March 2017 |
| Comparison and Identification of optimum layout using Multi Criteria Decision Making | Deepali Bhadekar, Aishwarya Anbhule, Vicky Sardar, N R Rajhans, | Vth Annual International conference on Operations Research and Statistics ORS 2017, 6-8 March 2017, Singapore ISSN ISSN 2251-1938 , E- periodical 2251-1946 |
| Taguchi based Grey Relational Analysis of Al2O3 ceramics using Vibro-rotary ECDM Process | M. R. Dhanvijay, B. B. Ahuja, P.P. Chikate | AIMTDR2016-1280, 16/12/ 2016, 6th International & 27th All India Manufacturing Technology, Design and Research Conference (AIMTDR2016), December 16-18, 2016 at COEP |
| Experimental Investigation of E-Glass Epoxy Composites by Tool Vibrations using ECDM Process,  | Jagdish S Sarda, M. R. Dhanvijay, B. B. Ahuja | AIMTDR2016-1145, 17/12/ 2016, 6th International & 27th All India Manufacturing Technology, Design and Research Conference (AIMTDR2016), December 16-18, 2016 at COEP |
| Investigation on Effect of Non-Standard Temperature in Conventional Micrometer Screw Gauge Dimensional Measurement System Using Statistical Process Control and Capability Analysis | V. A. Kulkarni, M. R. Dhanvijay | AIMTDR2016-1279, 17/12/2016 6th International & 27th All India Manufacturing Technology, Design and Research Conference, (AIMTDR2016), December 16-18, 2016 at COEP |

|  |  |  |
| --- | --- | --- |
| **Title of the Paper** | **Authors** | **Publication details/Vol.No./ISSN No./Page No.** |
| Distortion reduction strategies for PCD run out of cam shaft gear | V.A. Kulkarni and M. R. Dhanvijay | International Conference on Materials, Manufacturing and Design, Paper No.: iCMMD\_paper\_ 6, Dr. Babasaheb Ambedkar Technological University, Lonere, 20th and 21st December, 2016. |
| Process Characterization of Resistance Spot Welding of Dual Phase Stainless (DP600) Steel | S.M. Mule, S.U. Ghunage, B.B. Ahuja | 6th International & 27th All India Manufacturing Technology, Design and Research Conference (AIMTDR-2016), December 16-18, 2016 at College of Engineering., PuneAIMTDR2016-1276,Page: 161 |
| Opportunity Identification for Cost Reduction in SmallCommercial Vehicle using Value Analysis | Shantanu Dhanorkar, S.U.Ghunage | AIMTDR2016-1175Page: 281 |
| Investigate the Condition of Single Speed Worm Gearbox Using Ferrography and Vibration Analysis | J. S. Karajagikar, Vikas P. Sojitra, B.U.Sonawane | 6th International & 27th All India Manufacturing Technology, Design and Research Conference (AIMTDR-2016), December 16-18, 2016 at COEP |
| A Review on Rapid Tooling for Electro Discharge Machining Process  | Savan D Fefar, J.S.Karajagikar | 6th International & 27th All India Manufacturing Technology, Design and Research Conference (AIMTDR-2016), December 16-18, 2016 at COEP  |
| Fluorescence in Rhodamine6G and Coumarin460 dyes Induced by Laser for Sensing of Organic Compounds | Jagdish W.Dadge | International Conference on Functional Oxides andNanomaterials, ICFONM – 2016 organized by Department of Physics and Department of Nanoscience & Advanced Materials, Saurashtra University, Rajkot, India during 11-13th Nov 2016 |
| Vertically aligned MEH-PPV/CdS hybrid nanowire polymer Solar Cell array | Shweta Chaure | 2nd International Conference On Solar Energy Photovoltaic Proceeding |
| Structural and magnetic behavior of Mn doped ZnO synthesized by sol-gel route  | L. V. Bhandarkar  | 104th INDIAN SCIENCE CONGRESS 2017Poster Presentation |
| A review of Ground Penetrating Radar as an effective tool for assessing theTunnel linings in Infrastructure Surveys | A. S. Ramdasi, L. V. Bhandarkar and Y. A. Kolekar | ORAL Presentation on “Underground Excavations in Difficult Ground Conditions: Issues & Challenges”,27-28 April 2017, New Delhi |

|  |  |  |
| --- | --- | --- |
| **Title of the Paper** | **Authors** | **Publication details/Vol.No./ISSN No./Page No.** |
| Effect of temperature on the structure of La1.7Dy0.3Ca0.6Ba2Cu4.6OZ mixed oxide superconductor | Rohini S. Chhatrala, D. G. Kuberkar, S. Rayaprol,Keka R. Chakraborty, P. S. R. Krishnaand M.Ramnadham | Poster Presentation in an International conference on Functional Oxides and Nanomaterials (ICFONM - 2016) at Saurashtra University, Rajkot during 11-13 November 2016 |
| Role of structural displacements in (La0.3Dy0.3Ca0.4)(Ba1.2Ca0.2La0.6)2Cu3Oz Superconductor: A temperature dependent Neutron Diffraction study | Rohini S. Chhatrala, D. G. Kuberkar, S. Rayaprol,Keka R. Chakraborty, P. S. R. Krishnaand M.Ramnadham | Poster Presentation in an International conference on Neutron Scattering (CNS 2016) at BARC Mumbai during 21-23 November 2016 |

**PATENTS**

|  |  |  |  |
| --- | --- | --- | --- |
| **Faculty / Students** | **Title** | **Application No. & Date** | **Status** |
| **Department of Electrical engineering** |  |
| Mr. Chavan S.L.Dr. D. B. TalangeDr. D.S. BarmaneDr. S.G. KandalkarMr. R.S. Kulkarni | Design and Development of MEA for High Peak Power Fast Responding PEM Fuel cell  | No.201621007958 | Applied |
| **Department of Mechanical Engineering** |  |
| Dr. S.N.Sapali, Dr. B.B.Ahuja,A.M. DeshmukhS.N. Kale | Solar Operated Multipurpose Mistspray Generator Machinery | No. 201621035365 ADate: 17 October 2016 | Applied |
| **Department of Production Engineering & Industrial Management** |
| Vikas N Chougule, Dr. Sunil M. Nadkarni, Dr. Arati V. Mulay, Dr. B. B. Ahuja | A System and Method for Pre-Surgical Planning using Non-Invasive Imaging Techniques | No.201621034740 Date: 11 October 2016 |  |
| Vikas N Chougule, Dr. Sunil M. Nadkarni, Dr. Arati V. Mulay, Dr. B. B. Ahuja | A System and Method for Development of a Patient Specific Path Guidance Tool | No.201621034738 Date: 11 October 2016 | Applied |
| Dr. S. N. Sapali, Dr. B. B. Ahuja,A.M. DeshmukhS.N. Kale | Solar Operated Multipurpose Mistspray Generator Machinery | No. 201621035365 ADate: 17 October 2016 | Applied |
| Vikas N Chougule, Dr. Sunil M. Nadkarni, Dr. Arati V. Mulay, Dr. B. B. Ahuja | A Generalised Path Guidance Tool To Assist In Minimum Invasive Surgery of Lumbar Spine | 201621042698 Date. 14 December 2016 | Applied |
| Ravikiran Shinde, Sharadchandra Bansode,Dr. Arati V. Mulay, Dr. B. B. Ahuja | A Vapour Polishing Apparatus for 3D Printed Jobs [Provisional] | 201621042767 Date. 15 December 2016 | Applied |
| Sachin S. Shinde, Dr. N.R. Rajhans | A Mechanical Lateral Tilting Bed For Bedridden Patients To Reduce Pressure Ulcers | TEMP/E­1/42991/2016­ MUM Date. 19 December 2016 | Applied |
| Sachin S. Shinde, Dr. N.R. Rajhans | A Mattress For Preventing Pressure Ulcers | TEMP/E­1/42995/2016­ MUM Date. 19 December 2016 | Applied |

**Research Projects**

* **Funded by Government Agencies**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sr.****No.** | **Project Title** | **Co- Ordinator** | **Sponsoring agency** | **Sanctioned Letter No. & Date** | **Amount (RS. in Lakhs)** | **Status** |
| **Deapartment of Instrumentation and control** |
| 1. | Fabrication of small satellite for monitoring radiations in diff orbits of outer atmosphere | R M Mudhalwadkar | ISRO- UOP | PU/ISRO-STC/1784 dt. 30-05-2016 | 20.600 | Ongoing |
| 2 | Development of ABS, AS, and ASS test rigs for real time implementation of active disturbance rejection based robust control | P D Shendage | DST - SERB New Delhi | SB/S3/EECE/219/2016 | 71.110 | Ongoing |
| 3 | Probable Intensive Care Unit set Up for Rural Health Infrastructure under the scheme of Assistance for S & T applications | U M Chaskar | Rajiv Gandhi Technology Commission GOI | RGSTC/File-2011/DPP-161/CR22, dt 02nd march 2017 | 77.124 | Ongoing |
| **Production Engg and Industrial Management** |
| 4 | SMART Foundry 2020 (Sustainable Metal Casting Advanced R&D) | A V Muley | DST New Delhi |  -- | 52.464 | Ongoing |

* **Funded by Alumni Association**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sr. No.** | **Project Title** | **Co- Ordinator** | **Sponsoring Agency** | **Sanctioned Letter No. and Date** | **Amount (RS. in Lakhs)** |
| **Department of Mechanical Engineering** |
| 1 | Design, Development and performance evaluation of Vapour compression refrigeration system with environment friendly refrigerant  | Dr. S. N. Sapali | Alumni Association COEP  | Ref : COEP project No. COEP/2015/DEPTS/Alumni Asso./147 | 2.0 |

* **Funded by TEQIP**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sr. No.** | **Project Title** | **Co- Ordinator** | **Sponsoring Agency** | **Sanctioned Letter No. and Date** | **Amount (RS. in Lakhs)** |
| **Department of Mechanical Engineering** |
| 1 | Development of Thermally stratified Hot water storage tank | H P Shinde | TEQIP SRES | TEQIP II/2016/MH2G02/Shopping/188and COEP/TEQIP/CoESRES/2016/MED/32916 March 2016 | 2.55 |
| 2 | Determination of effect of dust accumulation on incident solar irradiance through transparent surfaces | H P ShindeP H Selmokar | TEQIPSRES | August 2016 | 0.4 |
| 3 | Hydraulic Brake Energy Regeneration System | N D Dhote | TEQIPSRES | January 2017 | 0.305 |
| 4 | Solar powered low cost eco friendly mist spray direct evaporative cooler. | Dr. S. N. Sapali | TEQIP-IICoE-SRES | - | 0.25 |
| 5 | Development of an energy efficient refrigerator using Eco- friendly Refrigerant | Dr. S. N. Sapali | TEQIP-IICoE-SRES | - | 0.2592 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sr. No.** | **Project Title** | **Co- Ordinator** | **Sponsoring Agency** | **Sanctioned Letter No. and Date** | **Amount (RS. in Lakhs)** |
| **Department of Mechanical Engineering** |
| 1 | Development of Energy efficient evaporative cooler | Dr. S. N. Sapali  | ISHRAE Pune chapter | Ref.: ISPG-PUN-56  | 0.50 |

* **Funded by Industry**

**LAB EQUIPMENTS**

**1. CIVIL ENGINEERING DEPARTMENT**

|  |  |
| --- | --- |
|  **FLUID MECHANICS LABORATORY** | **Cost** **(Rs in Lakhs)** |
| * Bernoullis Apparatus
* Heleshow Apparatus
* Metacentric Height Apparatus
* Notch Apparatus
* Orifice and Mouthpiece Apparatus
* Reynold Apparatus
* Venturimeter and Orificemeter
* 10 HP Centrifugal Pump
 | 362501356070002165021500120002350045900 |
| **Total** | **1.81** |

|  |  |
| --- | --- |
| **STRENGTH OF MATERIAL LABORATORY** | **Cost** **(Rs in Lakhs)** |
| * Marble wood cutter machine
* AC-AC LVDT Displacement Transducer Model : DX LL-25
* DIGITAL Displacement Indicator Model DX05B Make: Micron -Rook
* Wedge Grips for Electronic Tensometer
* Electronic Moisture Meter Make- JAPAN SANKO
* Accessories of U.T.M. 100 kN F I F make
* Brinell Hardness Tester
* Mechanical Extensometervariable guage length : cap 0.25mm
* Electronic Tensometer 20 kn capacity.
* Tile Flexure testing machine WITH LEAD SHOTS
* Impact Testing machine
* Abrassion Testing Machine for aggregates with abrassive charege.
* Dial Gauge TYPE-2 Mitutoyo Japan
* Cutting Machine
* Compression proving Ring TYPE- 1 CAPACITY -1000KN
* Lateral Extensometer Aim : 373
* Mechanical Extensometer Fixed guage length 200mm to fix
* Dial Gauge TYPE-1
* Sledge Hammer
* FIE- Electronic Universal Test Machine 600 KN Capacity
 | 3000444410504573863000540068000124803804601300006777153257416008528034823156001352017680176001509033 |
| **Total** | **16.97** |

|  |  |
| --- | --- |
| **GEOLOGY LABORATORY** | **Cost** **(Rs in Lakhs)** |
| * Aqua meter CRM 500(UNDER TEQIP)
* Rocks & Mineral specimens
 |  1.13 |
| **Total** | 1.13 |

|  |  |
| --- | --- |
| **CONCRETE TECHNOLOGY LABORATORY** | **Cost** **(Rs in Lakhs)** |
|  |  |
| * Hydraulic Jack 50 ton capacity
* Concrete Permeability Apparatus
* Lab Concrete mixer-Pan type Sr.no.AIM-9891
* Creep Apparatus AIM-239
* AIMIL Longitudinal Compressometer AIM-372
* Concrete Steel Moulds 150x150x150 mm
* Cement Moulds 70.7 mm
* Sieve Set - Aggregate
* Sieve Set - Sand
* Paint Cement Mixture
* Weighing Balance - 5kg
* Vernier Calliper
* VeeBee Consistometer
* Vibrating Table
* Density Bucket
* Cylindrical Mould
* Thickness Gauge
* Length gauge
* Concrete Moulds Bream Cast Iron 150 x 150 x 700
* LE-Chatelier Mould
* Laboratory Oven
* Weighing Balance - 150kg
* Mould Cast Iron for 150 mm cube
* Cement Cube Moulds
* Beam mould
* Vicat Apparatus
* Jaw crusher
* Compaction factor Apparatus
* Needle Vibrator
* Cylinderical metal measures for Bulking test
* Longitudinal comresso meter
* Curing Tank
* Beam Flexure Testing Machine
* Sieve shaker(Coarse)
* Sieve shaker(Fine)
* Concrete Mixer
* Abrassion Testing Machine for Aggegates
* Mortar Mixer
* Weighing Balance - 15kg
* Weighing Balance - 60kg
* YORCO Water bath
* Sieve set
* Sieve set type2
* Laboratory oven
* Compression Testing Machine (CTM -digital (2000 kN)
* Gravity convocation type laboratory oven
* Length Comparator
 | 4862851075127249469695791123330020700212571035964806032849518000953192633503505254024964106385275474247176586563640330006952306286188810290695104131184001840039560532572819415600228808320104832371212060 |
| **Total** | **19.31** |

|  |  |
| --- | --- |
| **ENVIRONMENTAL ENGG. LABORATORY** | **Cost** **(Rs in Lakhs)** |
| * Vaccume Pump
* Calibrated Weighing Box
* De-Mineralization Plant
* Conductivity Meter
* Brass Sieve
* Laboratory OVen
* Orbital Incubator Shaker
* Laboratory oven
* Laboratory incubator with shaker
* Digital Floculator
* Digital colorimeter
* Peristalic Pump
* High Volume Sampler
* BOD MONITOR
* COD Analysis System
* Automic Absorpation spectrophoto meter
* UV VIS SPECTRO PHOTOMETER
* Ion Analyser
* ISA Electrode Fluoride
* BOD Incubator
 |   8943110253138817687118134922411025049,2241,10,2506750012,60031,50086,8901,46,2491,40,4004,38,0002,42,00042,71329,07079,875 |
| **Total** | **17.16** |

|  |  |
| --- | --- |
| **PLUMBING LABORATORY**  | **Cost** **(Rs in Lakhs)** |
| * Plumbing layout of water supply pipes
* Various types of toilets based on the utilities
* The 9 m tall demonstrative tower
* Latest plumbing materials and technology
 | 120.00 |
| **Total** | **120.00** |

|  |  |
| --- | --- |
| **NDT LABORATORY**  | **Cost** **(Rs in Lakhs)** |
| * Crack Monitor
* Crack Measuring Magnitier
* Crack width meter model no 32529000
* Corrosion Analyzing Instrument Canin make.
* Deformation Meter Proceq make.
* Spilt Air Conditioner 2 Ton Daikin
* 10 KVA UPS
* 100 Laser Range Finder / Measure
* Digital Concrete Test Hammer
* Ultrasonic Digital Distance Meter
* Mini Infrared thermometer
* Ultrasonic Thickness Gauge
* R Meter (Resistivity meter)
* E Meter
* Poro scope Plus
* Maturity Meter
* Electronic Moisture Meter
* Drying shrinkage & moisture movement tester
* Diamond core cutter
* Steel frame form diamond core cutter
* Metal Detector
* Stone Cutter with Slot cutter edge
* Rotary drill hammer
* Demolition Hammer
* Laser range finder
* Concrete Test Hammer
* Ultrasonic Pules Velocity Test Instrument
 |  160171206510239307567362929666149983312811228506187765097121211269120987215727263000202501,19,8425743136406607216170650142200273068119493 |
| **Total** | **23.42** |

|  |  |
| --- | --- |
| **GEOTECHNICAL ENGG. LABORATORY** | **Cost** **(Rs in Lakhs)** |
| * Triaxial Test
* Large box shear
* Mini pressure meter
* SCPT
* Universal Geotextile testing m/c
* Plate Load Test apparatus
* Mini Pressure Meter
* Large Direct Shear Test Apparatus
* Triaxial Test Apparatus
* Static Cone Penetration Test Apparatus
* Asphalt Concrete slab Fatigue Testing Equipment
* Geosynthetics Testing Equipments
* Soil Automatic compactor
* Horizontal Shaking table Apparatus + water proof Acceleration Transducer
* UCS for rocks
* Flat Jack for rocks
* Tensile strength for rocks
* Direct shear strength for rocks
* Slake durability for rocks
* Hardness tester for rocks
* Rock specimen preparation
* LVDT 0.50 mm
* Digital Indicator
* Automatic Soil Compacter
* Double Acting Hydraulic
* Pavement Testing Setup
* Hydraulic Cylindr with complete powr pack
* Instrumentation and Data Acquisition system
* Fabrication of Apparatus for Study of seepage through soils
 |    3.732.701.291.061.491.801.232.567.401.011.531.181.005.821.903.080.651.200.442.352.860.790.510.661.551.874.989.262.00 |
| **Total** | **67.90** |

|  |  |
| --- | --- |
| **COMPUTER LABORATORY** |  **Cost** **(Rs in Lakhs)** |
| * STURDS software
* Ink Jet Printer Make Canon S-200
* Wooden Computer Table
* 10 KVA UPS
* HP Inkjet Printer
* 600 VA UPS
* Wall Mounted Sping Wooden screen
* HP Laserjet Printer M1005
* Wireless Conferrence System
* HP Deskjet Printer DS 4268
* HP Laserjet Printer 1008
* Split Type Air Conditioners 1.5 ton A.C & 2 Ton
* HP Laserjet Printer M-1136
* Primavera Contractor Software
* LaserJet Printer M1136 HP
* HP Compaq Desktop SFF 6200 Dt: 30/3/12
* LCD Network Projector
* Panasonic VIERA 50 inch Full HD LED Panel TV
* STAR-CCM+(#1101.37) SOFTWARE
* HP Compaq Desktop SFF 6200
* HP Laptop Model 4440s
* DLP Projector Make OPTOMA
* Manual Insta Lock Screen
* GATE EXAM PRACTICE PAPER Software
* Construction Management Software OPTICON EDU PLUS
* PLAXIS 2D software Dt:13/2/2013
* HP Laserjet Printer Model HP 1020PLUS Dt:27/2/14
* 8 GB RAM DDR3 Transcend
* 8 GB RAM DDR3 EVM
* 8 GB RAM DDR3 EVM
* Ceiling Mount Kit (Adjustable) for fixing projector
* HP Laserjet Printer Model HP 1020PLUS
* HP Laserjet Printer Model HP 1020PLUS
* Auto Scan and Auto Steel software
* DELL Precision T 1700SFF CTO Base work station.
* DELL Latitude 14 5000 series (LAPTOP)
* Printer Laserjet M1136 MSP
* LCD Network Projector & ACCESSORIES
* Old LCD Projector shifting with new installation material
* Canon -iR -4225 Digital Copier/ N-W Printer /N-Wn
* HP Laserjet Printer M1136 MFP all in one
* Laptop HP Model 440G3
* HITACHI Make LCD Projector Model CPEX 3030 WNX
* Ceiling Mount Kit (Adjustable) for fixing projector
* Hydraulic Insta lock Projector screen
* Optima Data VGA Cable
* Universal Ceiling Mount Kit
* Optima Make DLP Projector
* Hp Leser jet Printer HP 1007
* HP Leser jet Printer HP 1007
* BECN India Structural perpetual license soft wares
* RISA 3D 8.025 users net work version
* Optima DLP Projector
* 80 watt Amplifier
 | 2340087002997002,09,64349501060878753287086400370876223,85,540103707,49,999108953,12,50047700790003,99,99929,23,2005,82,7504572019890230004,00,0008,68,4644320012,15023,80029,75037,08059,2007,4904,50,0001,223,2671,50,95410,9202,18,09317,9281,30,000 11,3906,40,90596,70531,57015,8905,85018,45092,00010,95027,37502,04,743463500517505500 |
| **Total** | **116.44** |

|  |  |
| --- | --- |
| **TRANSPORTATION ENGG. LABORATORY** | **Cost** **(Rs in Lakhs)** |
| * Benkleman Beam
* Automatic Compactor for Marshal Test
* 45 cm diameter GI Frame sieve sizes 125 mm,100mm,75mm,53mm,45mm,37.5mm,26.5mm,22.4mm,19mm,14mm,13.2mm,11.2mm,9.5mm,8mm,
* Dimond Core cutter for bitumenous and concrete roads
* Standard Penetration Test Apparatus set
* AIMIL Point Load Index Tester 100 kN Sr.No.-10035
* Load Frame Motorized
* Specific Gravity Apparatus
* Digital Compression Testing Machine of 3000 kN capicity AIM 320 EDG Sr.No. - 11056
* Hardness Tester as per IS : 1195
* Planetary Mixer 10 liters Capacity
* Skid Resistance Tester as per ASTM E103 AIM 580 Sr.No. 12001
* Soil Automatic Compactor
* Compaction Mould Big Size
* Compaction Rammer Big Size
* Hydraulic Extruder
* Universal Penetrometer with Automatic time controller
* Flash and Fire point
* Crushing Strength Mould
* Aggregate Impact Tester
* Ductility Testing Machine make IS 1208 as per specification
* Rolling Thin Film Oven Tester
* Water Bath
* Centrifuge Bitumen Apparatus
* Saybolt Viscosity Apparatus
* Laboratory Oven
* Absolute Viscosity Testing Equipment
* Shape test thickness guage
 |  2176978000770029270546125863032031304781346160654675110250682481000005500340015000792002550013350223801251473643901785024420286374922431822400 |
| **Total** | **23.57** |

|  |  |
| --- | --- |
|   **SURVEYING LABORATORY** | **Cost** **(Rs in Lakhs)** |
| * Electronic digital TheodoliteDT2
* Electronic Distance meter RED 2L/S
* Electronic Distance Meter PM81
* Automatic Base measuring system DI4L
* GPS
* Leica Disto
* Laser Level
* Laser Digital Tape
* Fiber Glass Tape
* Trough compass
* Ranging Rod
* Digital Planimeter
* Binocular
* Fan
* DGPS
* Lynx Automatic Level
* Auto Level
* Total Station
* One Second Op. Theodolte
 | (7.90 Japanese yen) Dt.10.3.93(16.55 Japanese Yen)Dt.10.3.93(NRY 1,655,000) Rs.81728/-22.151/-Swiss frank 156000258753045040500119431800414063900898242001522107208681180001714800247000 |
| **Total (Only INR)** | **39.70** |

**2 MECHANICAL ENGINEERING DEPARTMENT**

|  |  |
| --- | --- |
| **Name of Laboratory** | **Cost****(Rs in Lakhs)** |
| **Microsystems Engineering Lab** |  |
|  * 4-Axis CNC WEDM along with software
* Nd: YAG pulse laser system along with 4 axis CNC gantry
* 4- Axis CNC Milling Machine
* microbalance
* spot welding machine
* stud welding machine
* Mikrotool multi-purpose machining centre
* Laser alignment system
* Fiber laser system
* Micro-Hardness tester
* Laser Micrometer
* Surface roughness measuring machine
* XY Motorized Precision stage with controller
* Digital Storage Oscilloscope
* Metallographic Microscope make ‘Nikon’ LV150L
* XYθ Motorized Precision stage with controller
* 3 D profilometer
 |  19.9726.747.631.631.361.6355.249.8719.686.994.113.991.742.9910.962.069.00 |
| **Total** | **183.85**  |

|  |  |
| --- | --- |
| **Forbes Marshall Steam Technology Center** | **Cost****(Rs in Lakhs)** |
| * Packaged Boiler, 750 Kg/hr., 10 bar at 190oC
* Thermocompressor,
* Steam trap test rig
* Effimax online efficiency monitoring system
 | 50.00 |
| **Total** | **50.00** |

|  |  |
| --- | --- |
| **Fuels and Testing Lab** | **Cost****(Rs in Lakhs)** |
| * Computerized Multi-fuel Research Engine Test Rig PC based Computerized Multi cylinder Petrol Engine Test rig
1. Wagon R Engine
2. Instrumentation
3. P-Theta software
* Dynamometer VCR Component –I
* VCR Component –II (D C Dynamometer)
* Gas Exhaust analyzer, Smoke meter

. |  9.61.011.273.003.741.133.374.5 |
| **Total** | **27.62** |

|  |  |
| --- | --- |
| **Fluid Machinery Lab** | **Cost****(Rs in Lakhs)** |
|  * Francis Turbine
* Pelton wheel
* Kaplan Turbines
* Electro Hydraulic trainer
 |  3.102.983.281.45 |
| **Total** | **10.81** |

|  |  |
| --- | --- |
| **I.C.Engine Lab** | **Cost****(Rs in Lakhs)** |
| * 4 cylinder TCDE Test rig

Instrumentation and DynamometerEngine- Donated by TATA Motors* Horiba Gas Analyzer
* Cooling Tower
* 4 cylinder TCDE Test rig

 Donated by Kirloskar Oil Engines, Pune* RICARDO Simulation Software (1-D and 3-D Engine Simulation)
* AVL Boost Simulation Software (1-D and 3-D Engine Simulation)
 | 35.00  35.003.03.5 |
| **Total** | **76.5** |

|  |  |
| --- | --- |
| **Heat Transfer Lab** | **Cost****(Rs in Lakhs)** |
| Air Flow Bench with Data Acquisition system. Flow Visualization using smoke technique. Thermal Imager, Attachment for experimentation on Single and Mutlijet impingement | Emissivity Measurement Stefan Boltzmann Apparatus* Pin fin apparatus,
* Stefan Boltzmann apparatus,
* Forced convection apparatus,
* Emissivity measurement apparatus,
* Thermal conductivity of insulating powder

 apparatus, * Thermal conductivity of liquid apparatus,
* Heat exchanger apparatus,
* Drop and film wise condensation

 apparatus,* Computerized Heat Exchanger test rig.
 | 13.85 |
|  | **Total** |  **13.85** |

|  |  |
| --- | --- |
|  **Vibration and Acoustics lab** | **Cost****(in Rs. Lacs)** |
| Electro-dynamic Vibration Shaker with Controller and Power Amplifier | 12.15 |
| Modal Shaker | 2.53 |
| 4-Channel Vibration Analyzer, Impulse Hammers, Miniature tri-axial accelerometers, Pressure field microphones | 3.67 |
| Vibration analysis software, Modal analysis software, Non-contacting type tachometer | 4.47 |
| **Total** | **22.82** |

|  |  |
| --- | --- |
| **Sound and Vibration Lab** | **Cost****(in Rs. Lacs)** |
| LMS Virtual Lab Software CDCOMSOL version 4 Software CD |  6.751.3 |
| **Total**  | **8.05** |

|  |  |
| --- | --- |
| **Stress Analysis lab** | **Cost****(in Rs. Lacs)** |
| * Universal Testing Machine (100 kN)
* Computerized Axial Fatigue Testing Machine (40 kN)
* Diffusesd Light Polariscope
* Oscilloscope 4 Channel
* Fatigue Testing Machine (Bending fatigue)
 | 9.769.561.331.324.72 |
| **Total** | **26.69** |

|  |  |
| --- | --- |
| **Theory of Machines Lab** | **Cost** **(Rs in Lakhs)** |
|  Wear test rig | 4.53 |
| **Total** | **4.53** |

|  |  |
| --- | --- |
| **CAD-CAM Lab** | **Cost** **(Rs in Lakhs)** |
| * Auto CAD
* CATIA
* Ansys
* TK Solver Rel.5.0 Software
* Optistruct
* Hyperworks
* ProEnginners
* Creo
 | 9.008.948.324.958.5223.168.3317.00 |
| **Total** | **88.22** |

|  |  |
| --- | --- |
| **ECM- Non Conventional Energy Lab** | **Cost** **(Rs in Lakhs)** |
| * Ultrasonic Flow meter
* Gas Chromatograph
* 4 Heliostat Assembly
* Trainer solar photovoltaic power generation
* Solar flat plate collector
* Trainer storage technology
* Parabolic trough collector trainer
* Test rig energy Audit 3 centrifugal Pumps
* Test set up for evaluating performance of different solar photovoltaic panels
 | 1.74.778.203.32.836.34.251.41.05 |
| **Total** | **33.8** |

**COMPUTER ENGINEERING AND INFORMATION TECHNOLOGY**

|  |  |
| --- | --- |
| **System Software Laboratory** | **Cost****(Rs in Lakhs)** |
| * Number of PC’s : 24

Configuration : Desktop PC with Pentium i5 processor 3.09 GHz, 4GB, 500 GB HDD, Dual Boot Ubuntu 11.04 as well as WinXP HP-Model : HP-compaq 6200 pro small factor* Projector: INFOCUS
 |   9.94 |
| **Total Machines - 24** | **9.94** |

|  |  |
| --- | --- |
| **Advanced Software Laboratory** | **Cost****(Rs in Lakhs)** |
| * Number of PC’s : 20 Configuration : Dell Optilpex 9020 SFF Desktop Systmes, Processor intel core i7 3.40GHz,RAM 4 GB,500GB HDD, Dual boot Win7 as well as ubuntu
* Projector :Infocus
 |  9.04 |
| **Total Machines – 20** | **9.04** |

|  |  |
| --- | --- |
| **Database Laboratory** | **Cost****(Rs in Lakhs)** |
| * Number of PC’s : 21

Configuration :Desktop PC HP Compaq 6200 pro small form factor, Processor intel core i7 3.40GHz,RAM 4 GB,500GB HDD, Dual boot Win7 as well as ubuntu | 6.56 |
| **Total Machines - 21** | **6.56** |

|  |  |
| --- | --- |
| **Graphics and Multimedia Laboratory** | **Cost****(Rs in Lakhs)** |
| * Number of PC’s : 20

Configuration : Desktop PC HP Compaq 6200 pro small form factor, Processor intel core i7 3.40GHz,RAM 4 GB,500GB HDD, Dual boot Win7 as well as ubuntu | 6.25 |
| **Total Machines - 20** | **6.25** |

|  |  |
| --- | --- |
| **Digital and Microprocessor Laboratory** | **Cost****(Rs in Lakhs)** |
| * NV 6550 Digital Kits
* Number of PC’s : 9
	1. Configuration : Desktop PC with Pentium i3 processor3.07 GHz, 4 GB DDR, 250GB HDD, Dual boot WinXP as well as ubuntu
	2. HP-Model : Z200 workstation
* Number of PC’s : 4
	1. Configuration : Desktop PC with Pentium i3 processor2.93 GHz, 2 GB DDR, 250GB HDD, Dual boot WinXP as well as ubuntu
	2. HP-Model : Compaq 8100 elite.
 |  1.582.51 |
| **Total Machines - 13** | **4.09** |

|  |  |
| --- | --- |
| **Network Security Laboratory** | **Cost****(Rs in Lakhs)** |
| * Dell Optilpex 9020 SFF Desktop Systmes: 15
* Dell Optilpex 9020 SFF Desktop Systmes, Processor intel core i7 3.40GHz,RAM 4 GB,500GB HDD, Dual boot Win7 as well as ubuntu
* Sun Microsystems Workstations:10 (donated)
* Workstation with 24" LED Monitor HP Z230S T1PO9PA
 | 1.75 |
| **Total Machines – 25** | **1.75** |

|  |  |
| --- | --- |
| **Programming Laboratory** | **Cost****(Rs in Lakhs)** |
| * Number of PC’s : 21

Configuration : Desktop PC withPentium i5 processor 3.09 GHz, 4GB, 500 GB HDD, Dual Boot Ubuntu 11.04 as well as WinXP HP-Model : HP-compaq 6200 pro small factorProjector-BENQ | 8.69 |
| **Total Machines - 21** | **8.69** |

|  |  |
| --- | --- |
| **NVIDIA Graphics Laboratory** | **Cost****(Rs in Lakhs)** |
| * Number of Machines : 16

Dell Percision T 1700 SFF Base Workstation Systems with Nvidia Graphics cardProcessor intel core i7 3.40GHz,RAM 4 GB,500GB HDD, Dual boot Win7 as well as ubuntu |  13.04 |
| **Total Machines - 16** | **13.04** |

|  |  |
| --- | --- |
| **FOSS Laboratory** | **Cost****(Rs in Lakhs)** |
| * Total Number of Machines : 51
* HP Compaq 6200 : 50 No’s
	1. Configuration :Desktop PC HP Compaq 6200 pro small form factor, Processor intel core i7 3.40GHz,RAM 4 GB,500GB HDD, Dual bootWin7 as well as ubuntu
* HP XW 9400 Workstation :01 No.
	1. Desktop PC with Pentium IV Dual core AMD Opteron™ processor 2600MHz, 4GB DDR,160GB SATA HDD, Dual Boot WinXP as well as ubuntu 10.04
* Projector : DLP X-Series Texas Instruments
 | 16.20 |
| **Total Machines - 51** | **16.20** |

|  |  |
| --- | --- |
| **Central Computing LAB** | **Cost****(Rs in Lakhs)** |
| * Total Number of Machines : 180
* Configuration :Desktop PC HP Compaq 6200 pro small form factor, Processor intel core i7 3.40GHz,RAM 4 GB,500GB HDD, Dual boot Win7 as well as ubuntu
 | 56.2 |
| **Total Machines - 180** | **56.2** |

|  |  |
| --- | --- |
| **Data Mining Laboratory** | **Cost****(Rs in Lakhs)** |
| * HP Compaq 6200 pro small Form Factor: 10
	1. Configuration: Configuration : Desktop PC with Pentium i5 processor 3.09 GHz, 4GB, 500 GB HDD, Dual Boot Ubuntu 11.04 as well as WinXP
* Z400 Workstation : 02
	1. Intel core Xeon Processor,RAM 4 GB,500GB HDD, With NVIDIA Tesla & Quadra 400 Graphics Cards Dual boot Win7 as well as ubuntu
* HPv 185e LCD Monitor: 10
	1. Desktop PC with Pentium IV 2.66 GHz, 1GB DDR,
	2. 250GB SATA HDD, Dual Boot WinXP as well as ubuntu 10.04
	3. HP-Model : HP Compaq 8000 Elite Converible Minitower
* Projector : Sharp DLP Texas Instruments
 | 7.087.56 |
| **Total Machines - 22** | **14.64** |

|  |  |
| --- | --- |
| **NVIDIA Research Laboratory** | **Cost****(Rs in Lakhs)** |
| Total Number of Machines : 5* Z400 Workstation : 05
	1. Intel core XeonProcessor,RAM 4 GB,500GB HDD, With NVIDIA Tesla & Quadra 400 Graphics Cards Dual boot Win7 as well as ubuntu
 | 6.69 |
| **Total Machines - 05** | **6.69** |

|  |  |
| --- | --- |
| **Cloud Computing Research Laboratory** | **Cost****(Rs in Lakhs)** |
| HP ML 350pT08sff CTO Server, Processor: Intel Xeon Processor E5- E5-2640, 2.5GHz, 15MB Cache, 6 core, **Memory** 32 GB ECC DDR3 1333MHz, **HDD :**300GB **10K RPM, 6Gbps** SAS 2.5" SFF, **Network Controller:**Broadcom NetXtreme II (10Gbps) Dual Port Ethernet Adapter – 2 numbers HP Tower Server E-52430 CTO(2no)Qual Net Network Simulator SoftwareSensor boardHP Desktop 6200 small form factor, Intel® Core™ i7-2600 (3.40 GHz, 8 MB cache, 4 cores) Intel® Q65 Express 4 GB 1333 MHz DDR3 SDRAM Up to: 16 GB 1333 MHz DDR3 SDRAM support, 500GB SATA (7200 rpm), SATA Super Multi DVD writer, Integrated Intel HD 2000: 10 numbersLG ULTRA Portable Projector, WXGA 1280 X 800, 500 Ansi Lumens, 30,000Hrs Lamp Life, File viewer, Auto Keystroke, 10,000 : 1 Contrast Ratio3D Ready ,1W +1 W stereo |  4.11.864.252.943.360. 459 |
|  | **16.51** |

List of Software’s installed on all Computers

* Oracle 9i
* Rational Rose
* All Microsoft License Software ( Microsoft academic alliance )
* e.g. .Net, Share point, Office, MSSQL etc.
* JAVA, C, C++, Ruby, Eclipse etc.
* MATLAB
* ProSim
* NetSim
* 20Sim
* Ansys and Catia
* Auto Desk
* Clementine data mining tool
* MAYA
* Adobe Software
* GCC
* Python
* OpenOffice
* Netbeans

**4 ELECTRICAL ENGINEERING DEPARTMENT**

|  |  |
| --- | --- |
| **1. Basic Electrical Engineering Lab** | **Cost** **(Rs in Lakhs)** |
| * Trolley mounted Experimental set up (10 nos)

 Electromagnetic set up (10 nos) Digital multimeters and components |  13.840.951.5 |
| **Total** | **16.29** |

|  |  |
| --- | --- |
|  **2. Control Systems Lab** | **Cost** **(Rs in Lakhs)** |
|  Rotary control module with softwared space 1104 ACE* PLC trainer interface
	+ - * + Rotary incremental encoder
				+ DC position system
				+ AC position control module
				+ DC servo system
				+ DC speed CS-1 1 hp DC motor
				+ AC servo motors
				+ Other equipments
				+ Magnetic Levitation System
				+ Coupled / Quadrapel tank model
				+ dAPACE education kit
				+ Industrial Plant Emulator
				+ Coupled Pendulum Model
 |  13.894.05.891.861.140.611.063.140.5515.853.623.554.907.046.63 |
| **Total** | **73.73** |

|  |  |
| --- | --- |
| **3. Microcontroller, DSP and Embeded Systems Lab** | **Cost** **(Rs in Lakhs)** |
| * + - * L & T make WG-1230 logic analyser
			* TMS 320 F 2407 DSP M trainer Kits
			* Oscilloscopes HIL 5024
			* 8951 trainer system
			* DSO TDS 1002 SNCO37379 (2 nos)
			* DSP kits
			* Other equipments
			* ACE-MLBX dSPACE Adv.control Edu.Kit
 | 3.453.901.40.491.00.345.2113.71 |
| **Total** | **29.5** |

|  |  |
| --- | --- |
| **4. Electrical Machines Lab** | **Cost** **(Rs in Lakhs)** |
| * Modified Experimental Setups (4 nos)
* All in one test bed for rotating machine setups (3 nos)
* Other equipments ( Machines, Eddy current dynamometer, four quadrant drive, DMM, Tachometer, clamp on meters etc)
* Power converter module (4nos)
* P.M.Gen. P.M.Motor test bench
* 3 KW Wind Turbine (750W 4 nos)
* FHP dynamometer
 |  46.7217.3823.477.884.174.514.71 |
| **Total** | **108.84** |

|  |  |
| --- | --- |
| **5. Power Electronics Lab** | **Cost** **(Rs in Lakhs)** |
| * Micro Pulser Generator (VPET-103A)
	+ - * IGBT, 3 phase Inverter
			* DSO 60 Mhz, 2 channel, Tektronix
			* Mixed signal oscilloscope 200 MHz,2024
			* DSO TPS 2014 B,100 MHz
			* Arbitary function generator
			* DSO TPS 2002C, 70 MHz
			* Programmable DC power supplies (2 nos)
			* Isolation transformers
			* Power analysers WT230
			* Other equipments
 | 1.321.092.032.173.791.352.171.521.004.64.78 |
| **Total** | **25.82** |

|  |  |
| --- | --- |
| **6. High Voltage Engineering Lab** | **Cost** **(Rs in Lakhs)** |
| * DC HV Digital Meter
	+ - * + Impulse Generator
				+ FFT Analyser 100 kHz, 2 channel
				+ Power analyser WT 230
				+ Power scope 881 A
				+ Digital electrometer 8340A
				+ Resistivity Chamber R 12704
				+ 6 channel power analyser
				+ Clamp on power meter
				+ Digital motor protection relay
				+ Earth tester
				+ Tachometers (2 nos)
				+ Analysing recorder
				+ High resolution accurcy DMM
				+ Other equipments
 | 1.24  36.503.94 3.983.620.960.9614.866.921.431.681.243.282.386.12 |
| **Total** | **89.11** |

|  |  |
| --- | --- |
| **7. Power Systems and Protection Lab** | **Cost** **(Rs in Lakhs)** |
| * + - Relay Testing Kit
		- Electrical Power Transmission Line Training System
		- Trolley protective relay unit
		- Other equipments (Rectifiers, power supplies, conditining cards etc)
		- Relay trainer
		- Synchrophasor based distance relay(2 Nos.)
 | 16.31  3.393.823.4117.4817.57 |
| **Total** | **61.98** |

|  |  |
| --- | --- |
| **8. Analog and Digital Electronics Lab** | **Cost** **(Rs in Lakhs)** |
| Component development boardAnalog Kits * + - * + Digital Kits: 30

DSO, 60 Mhz, D 36060 CACRO, 20 MHz, 3305 SCRO 20 MHz, 2 ChannelMulti output DC Power SupplyFunction generator SG 1602 C10 MHz function generator, Scientec LCR Q Meter sorterOther equipments (Multimeters etc) | 0.491.300.871.470.841.050.570.961.630.316.04 |
|  **Total** | **15.53** |

|  |  |
| --- | --- |
| **9. Power System Computational Lab** | **Cost** **(Rs in Lakhs)** |
| * + PSCAD software
	+ ETAP
	+ ATP/ EMTP software (Open source)
	+ Transient stability (Open source)
	+ Scilab (Open source)
	+ MATLAB (Open source)
	+ Load flow (Open source)
 | 2.368.35------------------------------- |
| **Total** | **10.71** |

|  |  |
| --- | --- |
| **10. Electromagnetic Computational Lab** | **Cost** **(Rs in Lakhs)** |
|   Electromagnetic simulation softwares* + - * Maxwell 12
			* Magnet
			* MATLAB (Open source)
 | 4.632.60------- |
| **Total** | **7.23** |

|  |  |
| --- | --- |
| **11. Control System Simulation Lab** | **Cost** **(Rs in Lakhs)** |
| * + MATLAB software (Open source)
	+ PSIM
	+ Scilab (open source)
	+ d SPACE
 | -----2.86-----9.41 |
| **Total** | 12.27 |

|  |  |
| --- | --- |
| **12. Industrial Electrical Systems ( Electrical Workshop)** | Cost (Rs in Lakhs) |
| 15 HP AC drive with panel10 hp DC driveInsulation tester * Leakage clamp on tester

Digital power meter WT 230 (2 nos) DL 750 Scope corderDSO TPS 2014 S* Three phase auto transformer (4 nos)
* Clamp on testers
 |  0.900.200.670.284.610.171.891.080.78 |
| **Total** | **20.57** |

|  |  |
| --- | --- |
| **13. Electrical Measurement lab** | **Cost** **(Rs in Lakhs)** |
| AC parameter measurement units (5 nos) * Luxmeter

GaussmetersPower analyserTrivector meter | 2.180.261.272.20.15 |
| **Total** | **6.06** |

|  |  |
| --- | --- |
| **14. Departmental Library** | **Cost** **(Rs in Lakhs)** |
| * Books ( 600 nos)
* E-Journals (IEEE, Science Direct)
 | 2.5----- |
| **Total** | **2.5** |

|  |  |
| --- | --- |
| **15. Project Lab** | **Cost** **(Rs in Lakhs)** |
| * Equipments like, Solder guns, Oscilloscope, Ammeters, voltmeters,

 Wattmeters, power supplies etc. | 4.10 |
| **Total** | **4.10** |
| **Grand Total** | **599.42** |

**ELECTRONICS & TELECOMMUNICATION DEPARTMENT**

|  |  |
| --- | --- |
| **1.Electronics laboratory** | **Cost****(Rs in Lakhs)** |
| * CROs, -(15)
* Function Generators-(9)
* Multi- meters,-(6)
* Experimental Kits,-(40)
* Power Supplies-(11)
* Function Generators,- (7)
 | 3.200.450.180.610.440.28 |
| **Total** | **5.16** |

|  |  |
| --- | --- |
| **2.Power Electronics Laboratory** | **Cost****(Rs in Lakhs)** |
| * Power electronics kits, -(24)
* AC/DC drives, Motors, -(3)
* Stepper Motor Drive,-(1)
* Power Scope, CROs, -(10)
* Power Scope(Lecroy)-(1)
* Function Generators,-(2)
* Power Factor meter,-(1)
* SMPS, UPS, -(1)
* Digital Tachometers, -(1)
* Power Supplies -(10)
* Single Phase SCR fired Dc Drive –(1)
* SCR Converters and reactive Loads –(1)
* SCR and AC Phace Control –(1)
* Three Phase Power Quality Oscilloscope –(1)
 |  5.002.500.502.504.000.102.500.100.101.700.440.390.243.66 |
| **Total** | **71.44** |

|  |  |
| --- | --- |
| 3.**Digital Signal Processing Laboratory**  | **Cost****(Rs in Lakhs)** |
| * Dual –Core Processor based Personnel Computers-(15)
* CODE Composer Studio
* TMS 320XX DSP Processors
 |  3.750.250.20 |
| **Total** | **4.20** |

|  |  |
| --- | --- |
| **4.Digital & ICA Laboratory**  | **Cost****(Rs in Lakhs)** |
| * Digital Trainer Kits, -(14)
* 8085 Microprocessor and Peripheral Kits , -(10)
* CROs, -(9)
* Function Generators, -(7)
* Multi- meters, -(8)
* Power Supplies -(13)
 |  1.401.001.800.280.160.52 |
| **Total** | **5.16** |

|  |  |
| --- | --- |
| **5. Communication Laboratory.** | **Cost****(Rs in Lakhs)** |
|  * Analog and digital communication kits,(15)
* Digital Storage Oscilloscope, (12)
* Distortion and level meters,-(1)
* Intel core-i7 @ 3.4 GHz Personnel Computers -(07)
* Microwave Integrated Circuit Analyser –(1)
* SDR and reciever, 3G Communbication System
* Wireless Digital Radio Transmetter-SDR & Receiver
* Understanding of 3G Communication system
* Digital Communication Training Systen.
* AMITEC Make C&S Band Satellite
 | 12.8626.782.002.352.066.42203.391.871.873.65 |
| **Total** | **63.252** |

|  |  |
| --- | --- |
| 6.**Measurement Laboratory**  | **Cost****(Rs in Lakhs)** |
| * Mixed Signal Oscilloscope,
* Digital Phosphorus Oscilloscope,
* Logic Analyzer,
* Network Analyzer
* Spectrum Analyzer,
* Arbitrary Waveform Generator,
* Field Strength Meter,
* LCR –Q Meter
* Synthesized signal Generator
* 100/200 MHz Cathode Ray Oscilloscope
* Vector Network Analyzer
* EMI Test Receiver
* Advance Spectrum Analyzer
* Vector signal Generator
 |  40.009.635.2650.623.864.5024.364.002.003.2130.5027.8015.0313.50 |
| **Total** | **234.27** |

|  |  |
| --- | --- |
| **7. Internet Laboratory** | **Cost****(Rs in Lakhs)** |
|  * Intel core-i7 @ 3.4 GHz Personnel Computers (40)
 |   13.44 |
| **Total** | **13.44** |

|  |  |
| --- | --- |
| **8.Microwave Labarotary/ Audio-Video Laboratory** | **Cost****(Rs in Lakhs)** |
| * Microwave Bench, -(1)
* Microwave Power Meter, -(1)
* Microwave Oven ,-(1)
* Antenna simulation software PCAAD
* Colour TV Trainer Kits -(2)
* TV CD Display
* Display for Wobbulator
* VCD Player Trainer kit –(2)
* Colour pattern generator
 |  .887.330.094.000.800.300.500.800.10 |
| **Total** | **14.80** |

|  |  |
| --- | --- |
| **9.Fiber Optics Laboratory** | **Cost****(Rs in Lakhs)** |
|  * Optical Spectrum Analyzer,
* OTDR,
* FOC experimental kits,
* Dual –Core Processor based Personnel Computers(10)
* Laser Fiber Optic Trainer, source, Power supply –(1)
* Advanced Fiber Optic Trainer
* Benchmark Optical Fiber System-IV, Communication Trainer Kit
* WDM-Trainer kit
* OTDR Trainer Kit
* Optisim-4.0 Simulation Software
 |  10.87 7.021.003.001.921.997.681.501.358.74 |
| **Total** | **45.07** |

|  |  |
| --- | --- |
|  **10.Post Gradution** **Laboratory -I**  | **Cost****(Rs in Lakhs)** |
|  * Dual –Core Processor based Personnel Computers-(34)
 | 9.00 |
| **Total** | **9.00** |

|  |  |
| --- | --- |
| **11.Post Gradution** **Laboratory -II**  | **Cost****(Rs in Lakhs)** |
| * Dual –Core Processor based Personnel Computers-(11)
* Intel P-IV 3 GHz Personnel Computers –(13)
 |  3.305.20 |
| **Total** | **8.50** |

|  |  |
| --- | --- |
| **12.Image Analysis Center** | **Cost****(Rs in Lakhs)** |
| * Standard Finger Print Programming Cable –(1)
* Serugen 500dpi USB optical Finger print scanner –(1)
* Palm Scanner USB wtih SDK –(1)
* Night Vision Digital Camera –(1)
* Cannon digital camera SX 12095
* IR Camera, Lens, source
* High speed Camera
 | 0.140.241.970.240.163.2616.56 |
| **Total** | **22.57** |

|  |  |
| --- | --- |
| **13 Center for Advanced Embedded Computing**  | **Cost****(Rs in Lakhs** |
| **Lab I** |  |
| * Dual –Core Processor based Personnel Computers-(11)
* Stellaris Guru Microcontroller Evaluation Kits v 1.0 based on ARM Corex - M3 LM3S608 (05): Donated by Texas Instruments
 | 3.465 |
|  **Total** | **3.465** |
| **Lab II** |  |
| * Dual –Core Processor based Personnel Computers-(11)
* Intel Atom Innovation Kits based on E6xx processor (02) : Donated by Intel
 | 3.465 |
|  **Total** | **3.465** |

|  |  |
| --- | --- |
|  **14.Embedded Systems** **Laboratory**  | **Cost****(Rs in Lakhs)** |
| * 8051 Family Development Tools and Libraries,
* Mini Cards with 8051 based
* Microcontrollers from Phillips, Analog Devices, Dallas,
* Analog I/O cards, Digital I/O cards,
* Alpha-numeric and Graphics **Total** LCD, Keyboard Matrix,
* Ethernet interface cards,
* PIC development system with 16F877 microcontroller and peripherals,
* PIC programmer,
* PC based Data acquisition system,
* ARM processor Kit and development tool set,
* Academic License of μ-COS(5),
* Intel P-IV 2.4 GHz Personnel Computers -(08)
* Qualnet Research Licence
* HP Z2400 Workstation
* Metagraphics software and development boards
* DM 6446 ( Da Vinche+ARM) Processor Development Boar**d**
 |  0.500.350.250.200.250.100.500.250.200.400.352.007.560.824.420503.73 |
| **Total** | **21.8805** |

|  |  |
| --- | --- |
| **15..VLSI Laboratory** | **Cost****(Rs in Lakhs)** |
|  * Xilinx 7.1 I Software, ModelSim Software,
* DSP Application Software,
* FPGA Trainer, CPLD Trainer,
* Universal Trainer Kit For CPLD-FPGA Devices,
* Device Adapter,
* PCI Interface Cards,
* Embedded System Development Software Kit
* FPGA based Development Board –(2)
* Microwind Package 3.1
* Mentor Graphics Simulation Tool for VHDL
* Cadence Tool for Analog/Digital System Design
* Metor Graphics h Higher Education 2 (HEP-2) for Front end design(25 USER)
* Syuq-7000 Development Board
 | 2.500.500.600.600.250.250.500.983.005.0020.002.311.19 |
| **Total** | **37.68** |

|  |  |
| --- | --- |
| **16. PALM PRINT LABORATORY** | **Cost****(Rs in Lakhs)** |
|  * Dual –Core Processor based Personnel Computers-(15)
* JAI AD-I80GE(2CCD Camera Visible NIR

IR Lighting Source |   3.71.5 |
| **Total** | **5.2** |

**6 INSTRUMENTATION AND CONTROL ENGINEERING DEPARTMENT**

|  |  |
| --- | --- |
| **Process Instrumentation** | **Cost****(Rs in Lakhs)** |
| * HART Based Industrial Flow Transmitter 3 D Scanner
* Foundation Field Pressure Transmitter
* Batch Process Pilot plant
* Spray Dryer Unit
* Control Valve Test Jig
* Flow and Level Loop
* Transmitters and switches
* Evaporator System & accessories
* Product Packing and Storage System
* Quarduple Tank System
* Air Compressor
* UPS 30KVA
* Workstation (Server) 'Dell Precision' with 22" Monitor
 |  1.020.567.801.802.204.803.206.167.6817.878.072.903.103.00 |
| **Total** | **70.16** |

|  |  |
| --- | --- |
| **Industrial Automation Center and PLC Lab**  | **Cost****(Rs in Lakhs)** |
| * DCS from Emerson Engg. ProcessManagement with hardware and Software
* Rockwell Automation Control systemwith various Control Panels and moduleswith software
 | 100.009.80 |
| **Total** | **109.80** |

|  |  |
| --- | --- |
| **Pneumatic & Hydraulic Lab** | **Cost****(Rs in Lakhs)** |
| * Electro Pneumatic & Electro Hydraulic system simulation Software
* Pneumatic Trainer Kit
* Electro Hydraulic Trainer Kit
* Camera NI 1742 Smart Sr.no-780147-01
 |  3.433.677.631.90 |
| **Total** | **16.63** |

|  |  |
| --- | --- |
| **Computer Centre** | **Cost****(Rs in Lakhs)** |
| * Computer System Dell Optiplex 9020 SFF
 |  8.00 |
| **Total** | **8.00** |

|  |  |
| --- | --- |
| **Digital Signal Processing Lab** | **Cost****(Rs in Lakhs)** |
| * TI 6713, LCDK6748 and ADSP 2100 development

 board with Code Composer Studio* 20 Desk top Computers with 20SIM software
 |  4.005.00 |
| **Total** | **9.00** |

|  |  |
| --- | --- |
| **Biomedical / Clinical Laboratory, Simulation / Modeling and Prototyping Center** | **Cost****(Rs in Lakhs)** |
| * Multipara-monitoring system
* EMG machine
* Defreezer and Humidity Control
* NI PXI Measurement and Test set up with LABVIEW
* ELVIS Workstation with LABVIEW
* NI Control and Mechatronics Set up With Various NI Tool Kits
* Vibration Analysis set up with NI Toolkit
* Embedded vision System
* Robotics Starter Kit, LabVIEW for ARM Kit with IDE
* Resistivity Test Fixture
* Motion Controllers & Motor Drives
* Spectrum Analyzer
* Iris Image Processing System
* Computer System Dell Optiplex 9020 SFF
 |  1.5010.581.206.505.506.204.257.502.402.431.827.748.114.342.309.65 |
| **Total** | **82.02** |

|  |  |
| --- | --- |
| **Embedded Laboratory** | **Cost****(Rs in Lakhs)** |
| * Pattern generator & Logic analyzer
* Various Microcontroller development boards
* Universal programmer ARM 9 boards / C – Cross compliers for microcontroller
* VLSI and FPGA boards
* ZedboardZYnq -7000
* Video Processing Development Setup
* Motor Setup 24V, 1500 rpm
* Multiparamonitor system
 |  2.940.861.303.502.142.404.460.300.80 |
| **Total** | **18.7** |

|  |  |
| --- | --- |
| **Control Laboratory** | **Cost****(Rs in Lakhs)** |
| * Linear Control Simulator
* Digital Control Kit
* Compensator design kit
* DC motor position and speed Control set up
* Stepper motor control
 | 0.200.250.320.310.18 |
| **Total** | **1.26** |

|  |  |
| --- | --- |
| **Sensor and Analytical Laboratory** | **Cost****(Rs in Lakhs)** |
| * Gas chromatograph
* UV-VIS Spectrophotometer
* Flame photometer /pH meter
* Trace Oxygen Analyzer
* Electrochemical Microbalance
* Combined PH+ Conductivity Meter and Karl Fischer Titrator
* Visible Spectrophotometer
* Spin coating machine
 |  3.801.600.563.908.192.300.850.95 |
| **Total** | **22.15** |

|  |  |
| --- | --- |
| **Advanced Control Laboratory** | **Cost****(Rs in Lakhs)** |
| * 2-DOF Helicopter System
* Active Suspension System
* Coupled Tanks System
* Control Engineering Workstation
* Magnetic Levitation system
* Unmanned Vehicle System
* 2DOF Serial Flexible Joint System
* 2DOF Serial Flexible Link System
* Inverted Pendulum
* Double Inverted Pendulum
* Ball and Beam
* Flexible Link
* Flexible Joint
* Remote Ball Sensor Module
* QUBE
* ABS System include mechanical unit,power supply unit RT-DAC/USB 2.0
* 3 DOF Gyroscope 'Quanser'
 |  93.00 |
| **Total** | **93.00** |

|  |  |
| --- | --- |
| **Electronics Laboratory** | **Cost****(Rs in Lakhs)** |
| * Xilinx - High performance DSP Solutions Spartan 3A DSP Video Kit
* Digilent Spartan 3E Starter, Xilinx-Virtex-5 FPGA Evaluation Platform (ML507) Box
* Xilinx XUPV5-LX110T Evaluation Platform
* Tektronix DSO (Serial No TPS2024 C010318) with key and Transcend card reader, Voltage and Current Probe
* Function Generators and DSOs
* NI ELVIS II with digital electronics FPGA board
* Zed board ZYnq -7000
* Mixed Signal Oscilloscope
* Solar array simulator
 | 29.91 |
| **Total** | **29.91** |
|  **Grand Total** | **475.13** |

**7 DEPARTMENT OF METALLURGY AND MATERIAL SCIENCE**

|  |  |
| --- | --- |
| **Material Testing Laboratory** | **Cost****(Rs in Lakhs** |
| **10 Ton UTM Machine** * 60 T UTM
* 10 T UTM
* Erichsencupping test
* Brinell-cum-Vicker hardness tester
* Rockwell hardness testers
* Digital Charpy Impact Tester
* Torsion Tester (2016-2017)
* Hardness Tester (2016-2017)
 |   10.125.070.400.090.052.194.065.50 |
| **Total** | **27.48** |

|  |  |
| --- | --- |
| **Spectroscopy Laboratory** | **Cost****(Rs in Lakhs)** |
| Atomic Absorption Spectroscopy |   16.52 |
| **Total** | **113.38** |

|  |  |
| --- | --- |
| **Ceramics Laboratory** | **Cost****(Rs in Lakhs)** |
| * TubularSinteringFurnace(1400oC)
* Planetary Ball Mill
* Chamber Type SiC Muffle Furnace
* BET Surface area analyzer
* Jar Mill
* Laboratory Oven
* Rotap Sieve shaker
* Spray Dryer (Microcontroller Model SPD-M-111)
* Control Atmosphere cum Vacuum Tube (Horizontal Tube) Si-C Furnace
* Analytical weighing balance

Universal Testing Machine (located in workshop) |  2.3713.001.335.80.900.421.061.334.802.750.8110.50 |
| **Total** | **45.07** |

|  |  |
| --- | --- |
| **Heat treatment Laboratory** | **Cost****(Rs in Lakhs)** |
| * Muffle furnaces 6000c
* Muffle furnaces 12000c
* Muffle furnaces 14000c
* Fluidized bed Furnace
* Carburizing Furnace
* Gas Nitriding Furnace
 |  1.122.694.562.163.101.08 |
| **Total** | **14.71** |

|  |  |
| --- | --- |
| **Image Analysis Laboratory** | **Cost****(Rs in Lakhs)** |
| * Stereo-Zoom Microscope Image analyzer
* Image analyzer with microscope
* Stereo-Zoom microscope
* Microhardness Tester
* Metallurgical Microscope With Software
 |  11.18 2.40 4.16 2.25 |
| **Total** | **19.99** |

|  |  |
| --- | --- |
| **Physical Metallurgy Laboratory** | **Cost****(Rs in Lakhs)** |
| * Automatic polishing machine
* Hot automatic Mounting Press
* Optical microscopes
* Lapping machines
* Hot Mounting Press
* Microscope -CCTV digital image
 |   2.892.061.84 0.04 0.041.57 |
|  **Total** | **8.44** |

|  |  |
| --- | --- |
| **Chemical Analysis Laboratory** | **Cost****(Rs in Lakhs)** |
| * Analytical Balances
* Strohlins Carbon Analyser
* Electrogravimetric analyzer
* Anodic Polarization set up
 |  1.77 0.22 0.070.42 |
| **Total** | **2.48** |

|  |  |
| --- | --- |
| **Powder Metallurgy Laboratory** | **Cost****(Rs in Lakhs)** |
| * Hot Press Sintering Machine
* Cryogenic bath
* Pin on Disc Machine
* Fatigue Testing Machine
* Rockwell Hardness Tester
* Milling Machine
* Cold Compaction Machine
* Diamond Saw cutting machine
* Densometer
* Vacuum Sintering Furnace (11000C)
* Tubular Sintering Furnace (11000C)
* MoSi2 Tubular Furnace (16000C)
* Muffle Furnace (6000C)
* Muffle Furnace (12000C)
* Oven
* Vacuum System
* Double Acting Compaction Press
* Weighing Balance
* Weighing Balance(old)
* Optical Image Analyser
* Four Points Probe Conductivity Meter
 | 13.5103.53.50.52.05.51.750.51.51.55.00.451.81.751.75210.52.256.5 |
| **Total(Rs.)** | **53.25** |

|  |  |
| --- | --- |
| **Corrosion Laboratory** | **Cost****(Rs in Lakhs)** |
| * Impedance analyzer
* Potentiostat (Impedance analyzer)
* Electrochemical quartz crystal micro balance (ECMB)
* Salt Spray chamber
* Ultrasonic stirrer and cleaner
* Weatherometer
* Pull Off Adhesion Tester
* High Temperature Furnace
* Gloss meter
* Cyclic corrosion chamber m/c
 |  7.508.02.932.366.30.836.100.9914.43 |
| **Total** | **49.44** |

|  |  |
| --- | --- |
| **Corrosion Laboratory** | **Cost****(Rs in Lakhs)** |
| * Desktop computers with softwares (60 Nos.)
 | 20.38 |
| **Total** | **20.38** |

|  |  |
| --- | --- |
| **Foundry and Sand Testing Laboratory** | **Cost****(Rs in Lakhs)** |
| * Medium frequency induction Furnace
* Centrifugal Casting machines
* Muller mixer
* Sieve Shaker
* Shell molding machine
* Sand testing equipment: UTM, Muller mixer, Permeability meter. Rammer etc.
 |  6.501.500.50 0.60 0.161.50 |
| **Total** | **10.76** |

|  |  |
| --- | --- |
| **Workshop/Metal working lab/machine shop** | **Cost****(Rs in Lakhs)** |
| * Abrasive cut-off machine
* Hacksaw machine
* Rolling Mill
* Jaw Crushers and Roll Crusher
 |  1.601.142.401.000.06 |
| **Total** | **6.20** |

|  |  |
| --- | --- |
| **Polymer and Composites lab** | **Cost****(Rs in Lakhs)** |
| * Hot Compaction Machine
* Izod Impact Testing Machine (For Polymer)
* Melt Flow Indexer
* Injection Molding Machine (located in workshop)
* UTM machine (2 T) for Polymer and Composites Testing
* Twin screw extruder (Aasabi make)
* VST/HDT Apparatus
 | 0.880.440.739.003.2521.01.60 |
| **Total** | **36.9** |

|  |  |
| --- | --- |
| **Nanocomposites Lab** | **Cost****(Rs in Lakhs)** |
| * Four Points Probe Conductivity Meter
* Precision Impedance Analyzer
* 7.5 Digits Digital Multimeter
* Electrometer
* Dilatometer
* Hydraulic Press (15 T)
* Thermogravimetric Analyzer
* Vacuum Oven
* Ultrasonic bath
* Differential scanning calorimetry (DSC)
 | 7.47.62.56.825.50.3512.00.300.2518.5 |
| **Total** | **61.22** |

|  |  |
| --- | --- |
| **Advanced Materials Technology** | **Cost****(Rs in Lakhs)** |
| * FTIR spectrometer
* UV spectrophotometer
* Galvanostat/ Potentiostat Interface 1000
* Galvanostat/ Potentiostat,600, USA (Courtesy of EATON)
 |  7.052.8112.546.50 |
| **Total** | **28.9** |

|  |  |
| --- | --- |
| **Laser Material Processing** | **Cost****(Rs in Lakhs)** |
| * X-Y CNC Table, Scantech
* Fiber Laser set-up (400 w)
 | 5.8026.46 |
| **Grand Total** | **32.26** |

|  |  |
| --- | --- |
| **Surface Engineering Laboratory** | **Cost****(Rs in Lakhs)** |
| * Thermal Spray Coater
* Wire Flame Spray System with Spray Booth
* Powder Flame Spray System with Portable Grit Blasting
 | 4.103.804.10 |
| **Grand Total** | **12.00** |

|  |  |
| --- | --- |
| **Scanning Electron Microscope (SEM) Laboratory** | **Cost****(Rs inLakhs)** |
| Field Emission Scanning Electron Microscope (FE-SEM) with EDS detector and Sputter (TEQIP Phase-II) | 182 |
| **Grand total** | **182** |

**PRODUCTION ENGINEERING AND INDUSTRIAL MANAGEMENT DEPARTMENT**

|  |  |
| --- | --- |
| **Rapid Prototyping Laboratory** | **Cost****(Rs in Lakhs)** |
| * *Stratasys* FDM RP Machine 3D Scanner
* Fused Deposition Modeling RP Machine
* Laser Scanner
* Precision Table (X-Y)
* Software for X -Y table moment
* Light Sectioning Measuring Scope
* Stratasys Connex 350
* SLS based 3D printer
* LulzBot Taz 5 (3 No.)
* 3D Printer FDM
* 3D Scanner David SLS
* Artech Spider 3D scanner
* Laser Head for AM Machine SLS
* CO2 Laser Machine
* Automated solid Modeller & Fab. System
* Industrial Grade Dehumidifier
* Light Sectioning Measuring Scope
* Vision Capturing & Measuring System Rapid-I
* STC Tool Kit 1.0
* Belt Conveyor
* CCTV camera , DVR 4 Ch, Accessories
* Automated solid Modeller & Fab. System
* Auto Cast XI, E foundry, Melt IT labware
* HP Workstation Z238
* Fila Extruder Kit
 | 20.009.878.980.497.3896.103.215.040.776.7512.1032.0011.5221.531.487.387.990.430.320.4921.5319.640.910.26 |
| **Total** | **296.19** |

|  |  |
| --- | --- |
| **Machine Tool Laboratory** | **Cost****(Rs in Lakhs)** |
| * CNC Drilling Machine
* CNC Milling
* CNC Radial Drilling Machine
* HMT RAM Type Milling Machine
* Kitsler Tool Dynamometer
* Parkson Milling Machine
* Planing Machine
* Cincinati grinder
* Hindustan Milling M/C
* Knee type Vertical Milling M/C
* Hand operated dividing head
* Grade I 12" stroke Shaping M/C Cooper
* HMT Universal milling M/C
* Universal Dividing Head
* Pelter Bench type Drill M/C
* Precision Bench type Drill M/C
* Pelter Bench type Drill M/C
* horizontal Spindle Hydraulic Surface Grinder
* Pelter Pedestal type Drill M/C
* Radial Drilling M/C
* HMT Grinding M/C
* Turret Milling M/C
* HMT Radial Drill M/C
* Stub Milling arbor
* Circulator Sawing M/C
* Unversal machine vice
* Servo Stabilizer 5.5 KVA
* Accessories for MNC 2L CNC Control
* Grinding Tool Dynamometer
* CNC controlled speed Drive
* Hacksaw machine
* CNC 3D Milling/ Engraving machine
* PVM40 VMC Machine
 | 5.954.1624.560.190.410.130.470.350.050.032.220.710.080.130.140.710.090.090.690.491.090.140.100.080.171.710.330.461.5511.2519.48 |
| **Total** | **78.02** |

|  |  |
| --- | --- |
|  **Metrology Laboratory** | **Cost****(Rs in Lakhs)** |
|  * Profile projector
* Slip gauge Set (2 No)
* Surface Roughness Tester
* Angle Dekker
* 3D coordinator Measuring Machine (brown and sharp make)
* Tool Micromeasure Measurescope
* Laser Scan Micrometer
* Laser Interferometer
* Roughness Measuring Instrument
* Optical Measuring Device
* Gear Rolling Tester metal
* Image Comparator System
* Auto Collimator with Accessories
* Power Master with angular contract bearings
* Computer Interface for for Contourograph
* Vernier Height guage
* Dial guage Mitutoyo
* Dial guage Mitutoyo
* Granite Surface Plate
* Tool Micromeasure Measurescope
* Profile Projector V-12A
* Supreme Specimen Set
* Spares for tester Centre Distance setting Scales; Pair of Arbors; Demo kit of gear; dial Guage 10mm
* Spares for tester Centre attachment; Gear attachment; arbor
* Anthropometry Set
* Smart Plazma
* Classroom talky audio system
* Air Compressor
* Dial Height Guage
* Dynamometer 9257B
* Modernization of Metrology Grinder
* Dial Indicator
* Articulated Arm/Spin Arm
* Atomic force Microscope
* Digital height gauge
* thread Measuring wire set
* 3 Wire Unit set
* Dial gauge Stand
* Measuring pin Set
* Pneumatic Comparator
* Rigid optical table
* Profile Projector
* Autocollimator Nikon (cost JPY975000)
 |  4.028.441.551.671.132.657.8015.115.2512.420.480.500.894.131.580.820.050.090.062.604.020.040.250.501.970.720.103.100.1124.564.270.0725.0022.650.870.080.380.020.080.305.255.165.68 |
| **Total** | **176.42** |

|  |  |
| --- | --- |
| **CAD/CAM Laboratory** | **Cost****(Rs in Lakhs)** |
|  Computer Lab I* PLM CATIA V6
* H-Simulator & P Simulator (Festo Fluid Sim)
* Autocad Licenses Autodesk Inventor
* Simufact Forming
* Reliasoft Software
* Delmia
* Automation Studio
* CNC Simulator Software CIM / FMS Simulation Sytem

Computer Lab II* Systat
* ProModel
* UNIGRAPHICS (NX3)
* IDEAS
* Hypermesh
* Witness
* CAM Lab CNC
* ArtCAM Software
* Minitab 17
 |  7.806.6320.006.005.374.0011.608.401.061.829.007.957.053.739.055.504.82 |
| **Total** | **119.78** |

|  |  |
| --- | --- |
|  **Flexible Manufacturing Systems (FMS) Laboratory** | **Cost****(Rs in Lakhs)** |
| * CNC Milling Center
* Turning Center
* Robot
* CNC Programming software
* CNC Simulation software
 | 4.164.501.501.671.99 |
| **Total** | **13.82** |

|  |  |
| --- | --- |
| **Ergonomics Laboratory** | **Cost****(Rs in Lakhs)** |
| * Anthropometer sets
* Human dynamometer set
* Pressure mats
 |  1.961.935.26 |
| **Total** | **9.15** |

|  |  |
| --- | --- |
| **Non conventional Laboratory** | **Cost****(Rs in Lakhs)** |
| * Electric Discharge Machine (US ECDM Model EMS5030 with DRO system)
* EDM Drill M/C (Near Dry)
* Pulse Generator
* Pulse DC Power Supply
* Ultrasonic Transducer & Stock assembly
* Ultrasonic power generator
* Ultrasonic Tank
* Ultrasonic rigid system
* Electrospinning Apparatus
* Rotary EDM Attachment
* Dropsa Internal MQL System
 |  4.545.114.362.980.980.991.050.969.731.460.70 |
| **Total** | **32.86** |

|  |  |
| --- | --- |
| **Robotics & Automation Laboratory** | **Cost****(Rs in Lakhs)** |
| * SG 5/6 – UT Robotic Arm Robotic Arm Complete Set
* Toodler Robot kit
* BOE-BOT Robot kit
* Hexcranler robot kit
* Robotic Cell Simulator
* Six Axis handling Robot
* Robotic Arm Complete Set with servo power supply
* ER4h with robocell Software ER4u/ER5P to ER4H (3 No)
* Transducer InstrumentationDyna -1750# 1023
* Robotic System Wheeled type
* Robotic System T wo Legged type
* Robotic System Six Legged type
* Motoman SV 3X plus X RC Controller
* Telescopic mast
* Digital Multimeter
* Digital Camera
* Robosapien White
* Colour CCD Camera with Lens
* Safty fencing for Robot Cell
* Storage Tank 20 Lit
* HD Camera
* Robot Industrial Arm
 |  1.501.211.911.951.810.751.503.002.163.622.124.0914.370.600.050.160.060.330.560.040.2925.50 |
| **Total** | **67.57** |

|  |  |
| --- | --- |
| **Computer Laboratory** | **Cost****(Rs in Lakhs)** |
| * Desktop ComputersDell (Qty-25 nos)
* Desktop ComputersHP(Qty-61 Nos.)
 |  45.15 |
| **Total** | **45.15** |

|  |  |
| --- | --- |
| **ERP LABORATORY** | **Cost****(Rs in Lakhs)** |
| * Personal Computers make HP (Qty- 30)
* SAP Logon ECC-6
 |  9.584.08 |
| **Total** | **13.66** |

|  |  |
| --- | --- |
| **FAB LABORATORY** | **Cost****(Rs in Lakhs)** |
| * CNC Router
* Epilog Laser Cutter
* Vinyl cutting Machine
* Scroll saw Dewalt make 120V
* Oscilloscope Tektronix TDS 1002B
* Portable Lathe M/C Model Turner 250x 400 max swing over bed-250mm
* Torque Screwdrive Slip type
* Soldering Station 1 channel 80W/230V with tips
* Digital Storage Oscilloscope Gwinstek GDS 820C
* Scroll saw Proxxon make Mini D54518
* Rotary Tool Small Hand Grinder
* Software for Fab V. Lab
* Bench Grinder
* DLP Projector
* Desktop PC Dell ( 5 nos)
* Desktop PC VIP
* Desktop PC HP pavilion (2 nos)
* Stiching machine
* Polycom Conference Unit
* Instek Function generator
* Polyaxial Spatial machining System
* Multidimentional spatial scanning system
 | 10.966.781.350.410.871.470.191.060.870.410.116.410.120.501.830.290.690.020.580.178.9115.46 |
| **Total** | **59.46** |

|  |  |
| --- | --- |
| **TEROTECHNOLOGY LABORATORY** | **Cost****(Rs in Lakhs)** |
| * Pin-on-Disc (TR20LE) with Environmental Control Chamber
* Dry Bearing Test Rig
* Ultrasonic Flaw Detector
* Atomic Absorption Spectrophotometer
* Direct Reading Ferrograph Model DR 5
* Dual Slide Ferrogram Maker: Model FMIII
* Bi-chromatic Optical Microscope (Olympus BX 51)
* Contact Deformation Test Rig
* Vibration Analyzer
* TR-20LE Machine
* Analytical balance
* Double Distillation Unit
* USB DAQ
* AAS Hood with Blower 25 Ft
* AAS Hood with Blower 20 Ft
* Gas Cylinder
* Pulse Generator
* Heating Attachment for pin
* Humidity Chamber
* Polyaxial Spatial machining System
* DRD System for NH-22 Lathe
* Hot air Oven, magnetic stirer
* Spectro Fluid Scan
* Hot Plate
* Infrared temp. Laser
* Gas Controller & Purification System
* Dial Indicator0-100
* Test Rig-Raviprabha Engineering
* Oil Test Centre (OTC)
* Density Meter
* Electronic Flash Point Tester
* Pour Point Tester
 |  5.501.865.200.8114.9619.9515.092.003.005.000.450.450.860.470.240.314.360.790.448.910.450.7113.990.080.080.280.071.7110.452.204.000.15 |
| **Total** | **124.82** |

|  |  |
| --- | --- |
| **MECHATRONICS LABORATORY** | **Cost****(Rs in Lakhs)** |
| * Torsion Testing Machine
* PLC based Lift Simulator Model
* PC-PID Based Multi- Process Control system
* PLC based Bottle Filling Plant
* Controller Package Microprocessor based Expt. Board
 |  2.369.005.5011.111.44 |
|  **Total** | **29.41** |

|  |  |
| --- | --- |
| **RESEARCH LABORATORY** | **Cost****(Rs in Lakhs)** |
| * Electrospinning Apparatus
* POP Plating Process
* Dynamic Mechanical Analyzer
* Ultrasonically assisted Electrochemical discharge machine (Vibro-Rotary)
* Auto Cast -XI
* Nitrogen Cylinder, regulator
* Cryocan with accessories
* Etrema Transducer CU18A
 |  9.735.0425.2318.3219.640.180.500.99 |
|  **Total** | **79.64** |
| **Grand Total** | **1146.67** |

 **Workshop**

|  |  |
| --- | --- |
| **Turning shop** | **Cost****(Rs in Lakhs)** |
| * LEBZOND Lathe Machine USA D 9729
* Churchill Redman England Lathe - 6948
* TRAUB (India) Single Spindle Automatic Lathe-25011268
* Capstan Lathe Model RV/40 Machine No.216/15351
* Qetcos HMT LT-20 Lathe-2402 (Qty-09)
* Milling machine- Parkson
* Planning Machine
* Radial Drilling Machine- HMT RM 61
* Shapping machine - MODGIL
* Shapping machine- Cooper
* Bench Grinder
* Grinder & lapping machine
* Milling Machine – Universal HMT FN3U
* 1" Drill machine (Thakoor BDMG-20)
* Vertical milling machine- Bharat fritz Werner
* Tool Cutter & Grinder- CINCINNATI MD111
* Hydraulic saw machine
* Universal milling machine (Hindustan)
* Cylindrical Tool grinder- HMT-G9
* Drilling machine
* Drilling machine Bench type
* Drilling machine Bench type
* Surface Grinder- AVRO Model no.-5
* Radial drilling machine HMT RM-61
* Internal grinding machine
* Turret Milling machine- HMT-M1TR/3601
* Radial drilling machine HMT RM-62
* Knee type milling machine
* CNC Lathe Machines (10 No.)
* Vertical Machining Center (VMC)
 |  0.11 0.11 0.69  0.206.38 0.19 0.41 0.16 0.06 0.06 0.08 0.07 0.47 0.15 0.35 0.071.87 0.351.09 0.02 0.13 0.15 0.70 0.09 0.86 179.519.483.50 |
| **Total** | **213.80** |

|  |  |
| --- | --- |
| **Carpentry shop** | **Cost****(Rs in Lakhs)** |
| * Electric Grinder
* Bench Vice 6"
* Bench Vice 3.5"
* Water stone Iron stand 5'8"x23"x2'9"
* Electric Band Saw Delta make,.75hp,H-786720M62-4470
* Circular sharpening grinder (ES-5)
* Thickness Planer
* DOMINION Ele.Circular saw 20" with 5 hp motor
* Wilson make ele.grooving machine
* Carpenter's Vices
* Wood Turning Lathe
* Bench Vice 7" shivaji make
* China jar for French polish
* fitting vice shivaji make
* Pillar type drilling machine with 0.25 H.P.Sr. no 980120
* Carpentry Clamps 5' W/S made
* steel cupboards major 1980x910x480
* Wood cutting Saw M/c Bosch Make (Model No. 5775)
* Planner M/c (Bosch Make )
* Jigsaw BOSCH GST BE
* Circular Saw BOSCH GKS 190
* Orbital Sander GSS 280 AE
* Orbital Sander GEX 150 AC
* Cutting Machine GOF 900 CE
 |  0.010.010.01 0.010.020.010.020.030.080.020.020.010.140.010.090.010.080.110.020.020.020.020.010.02 |
| **Total** | **0.80** |

|  |  |
| --- | --- |
| **Fitting Shop** | **Cost****(Rs in Lakhs)** |
| * Anvils 9" x 4" x 2"
* Surface Plate 9" x9" x2.5"
* NEI Bench Grinder 8" wheels ,double ended,3 phase, 440 volts,
* Pillar type Drill Machine Capacity 13mm,Pulley driven, Motor
* Apex make Bench Vice Fixed base size 4.5"
 |  0.04 0.01 0.100.28 |
| **Total** | **0.43** |

|  |  |
| --- | --- |
| **Tin Smithy shop** | **Cost****(Rs in Lakhs)** |
| * C.I.Table 6.3X3"x2.8"
* Bench Vice 6"
* Portable forge
* Bench vice 4.5"
* Bench vice 3.5"
* Shearing machine
* Beck iron
* Side Stacks
* Crease Iron
* Funnel Stacks
* Pipe Vice
* Cutting Machine BOSCH GSC 2.8
* Nibbler BOSCH GNA 2.0
* Sheet cutter BOSCH GST 2.0 BE
* Nibbling machine and Grinder
 |  0.01 0.01 0.01 0.01 0.01 0.01 0.010.010.010.010.010.010.013.46 |
| **Total** | **3.59** |

|  |  |
| --- | --- |
| **Smithy Shop** | **Cost****(Rs in Lakhs)** |
| * Furnace
* Shearing punching machine
* Blower with electric motor
* Stapple Vice 6" Jaw
* C.I. surface plates
* Pneumatic Power Hammer
* Jeco make grinder, motor
* Flatters
* 25T Hydraulic Press
 |  0.05 0.02 0.01 0.01 0.090.15 0.01 0.0116.60 |
| **Total** | **16.95** |

|  |  |
| --- | --- |
| **Welding Shop** | **Cost****(Rs in Lakhs)** |
| * Advani oerlikon make Air cooled welding transformer s.no.35/79598
* Anvils English
* MIG welding outfit 150 amp s.no.200-90
* single phase welding transformer 6KVA rating, electrode size 10to16 gauge, Hand Grinder set with accessories
* Portable Drilling Machine BOSCH
* Spot Welding Machine KJ make 20 KVA
 |  0.081.25 0.07 0.071.251.40 |
| **Total** | **4.12** |
| **Grand Total** | **249.69** |

**APPLIED SCIENCE DEPARTMENT**

|  |  |
| --- | --- |
| **F. Y. B. Tech. Chemistry Laboratory** | **Cost****(Rs in Lakhs)** |
|  * LPG connections
* Water Analyzer Kit
* Water Demineralization plant
* Gas line setup
* Microprocessor Based pH System
* RO based Water purifier
* Fabricated DTA
* Fabricated TG equipment
* Afcoset Microprocessor control electronic Balance
* Digital Electronic Weighing Machines (Units–4)
* Note Book PCs (Four numbers)
* Pentium IV Computers (Six numbers)
* Lab guard Fume hood
* Inert high temperature work platform
* Ball mill
* Hydraulic Pellet press and die set
* Flame photometer
* Colorimeter
* 979 VA Computrace – Cyclic voltameter
* High temperature furnace
* U.V. Spectrophotometer (lab India)
* Laminar Air Flow
* Trinocular Research Microscope
* Magnetic Stirrer with Teflon needle
* Hot Air Oven
* Incubator
* Autoclave
* Double distillation Unit
* Bomb Calorimeter
 | 0.140.050.810.081.350.564.451.101.104.001.502.202.501.000.500.500.491.980.507.560.723.570.850.600.400.340.390.120.49**2.63** |
| **Total** | **Rs in lalkhs****42.48** |

**11 PHYSICS DEPARTMENT**

|  |  |
| --- | --- |
| **F. Y. B. Tech. Physics Laboratory** | **Cost****(Rs in Lakhs)** |
| * Fiber Optics Trainer & Multimeter
* Law Of Malus
* Digital Polarimeter
* Spectrometer
* Laser Expt. Setup
* Electron Diffraction
* Frank-Hertz Expt
* G M Counter
* Hysteresis Loop Tracer
* Newton’s ring set-up
* Brewster’s angle set-up
* Four probe Setup
* Hall Effect Setup
* Thomsons Tube
* Planks Constant Experimental Model
* P-N Junction characterstics measurement setup
* Dielectric constant measurement kit for solids
* Electromagnets with power supply
* Faraday effect Experiment kit
* Biot Savarts Law
* High Temperature Vacuum Furnace
* Centrifuge machine
* Sonicator
 |  1.000.931.040.67.9733.592.88.872.281.360.272.082.07.610.612.951.582.231.536.933.274.500.750.11 |
| **Total** | **46.123** |

**LIBRARY**

**Collection Statistics of the Library**

* **Actual available – 139093**

 (79835+42553+12506+4199) (Development +Book Bank+ e- Books+ TEQIP)

* Total no of volumes – 139093
* Total no of titles -43521
* Total E-Books-12506
* No. of National Journals- 189 (Print copy)
* No. of International Journals-112 (Print copy)
* **The library has a collection Link to E-resources as detailed below:**

ACM digital Library http://dl.acm.org/

ASCE http://ascelibrary.org/journals/all\_journal\_titles

ASME http://asmedigitalcollection.asme.org/

IEL (MultiUsers) http://ieeexplore.ieee.org/

Science Direct (PG) http://sciencedirect.com/

Springer Link <http://link.springer.com/>

 http://springerlink.com/

Blackwell Wiley http://onlinelibrary.wiley.com/

J-Gate Engg & Tech http://www.jgateplus.in/

MGH Access Engg http://accessengineeringlibrary.com/

ASTM Digital Lib <http://www.enterprise.astm.org/>

Scopus Database <http://www.scopus.com/home.url>

Indian. Standards <http://10.1.66.47/bis_asp/>

Springer e-Books <http://link.springer.com/>

IEEE-Wiley e-Books <http://ieeexplore.ieee.org/>

IEEE-MIT e-Books <http://ieeexplore.ieee.org/>

NPTEL Video Lect <http://www.coep.org.in/>

N-List (INFLIBNET) <http://nlist.inflibnet.ac.in/>

Catalogue Browser <http://www.10.1.66.47/W27/>

(Web SLIM 21 ex)

* **Facilities**: Reprographic, LAN, WAN, Internet Connectivity, Book Bank, Educational

Multimedia, Automated Services, Additional Server linked Systems, Computer

 Centre, Eklavya Channel, NPTEL videos.

**TRAINING & PLACEMENT CELL**

*Presenting Distinctions to the Distinguished*

**The major activities conducted by Training and Placement Cell:**

* Organized the campus recruitment for B. Tech and M. Tech students
* Organized workshop on resume writing, how to face interviews? Do’s and Don’ts in Group discussion, interviews, mock interviews
* Organized mock seminars and assessment tests for all the eligible students for placements before the actual placement process begins.
* Provided at least one job to all eligible students.
* Connected students to Industries for various event sponsorship and in-plant training /internship

|  |
| --- |
| **Placement Statistics: 2016-17** |
| **Sr.** | **Branch** | **Enrolled** | **UG** | **%** | **Enrolled** | **PG** | **%** | **Tot** | **%** | **SJ** |
| 1 | Computer Engineering | 72 | 68 | 94.44 | 13 | 8 | 61.53 | 76 | 89.41 |  |
| 2 | Information Technology | 67 | 66 | 98.5 | -- | -- | -- | 66 | 98.50 | 1 |
| 3 | Electronics & Telecommunication | 70 | 60 | 85.71 | 67 | 37 | 55.22 | 97 | 70.80 | 11 |
| 4 | Mechanical Engineering | 142 | 131 | 92.25 | 61 | 38 | 62.29 | 169 | 83.25 | 6 |
| 5 | Production Engineering | 62 | 51 | 82.25 | 45 | 21 | 46.66 | 72 | 67.28 | 13 |
| 6 | Electrical Engineering | 74 | 68 | 91.89 | 28 | 21 | 75.00 | 89 | 87.25 | 16 |
| 7 | Instrumentation & Control Engineering | 40 | 35 | 87.50 | 33 | 10 | 30.30 | 45 | 61.64 | 6 |
| 8 | Metallurgy & Materials science | 45 | 33 | 73.33 | 24 | 3 | 12.50 | 36 | 52.17 | 1 |
| 9 | Civil Engineering | 58 | 28 | 46.55 | 65 | 20 | 30.76 | 47 | 38.21 | 1 |
| 10 | Planning | 55 | 15 | 27.27 | -- | -- | -- | 15 | 27.27 | 2 |
|  |  | 685 | 555 | 81.02 | 336 | 158 | 47.02 | 712 | 69.74 | 57 |
| **Total No of Companies visited: 210** |

**Salary Structure:**

* The Salary Packages offered in the Institute ranges from INR 3.00 Lakhs per annum to 29.50\* Lakhs per annum based on the type of the company.

 \*Rs. 29.50 Lakhs offered by DE Shaw this year.

* Software / IT companies - salary ranges from INR 3.00 to 4.50 LPA
* Core Companies- salary ranges from INR 3.50 to 29.50 LPA

**Major companies who visited COEP for campus recruitment this year:**

|  |  |
| --- | --- |
| **Sector** | **Companies** |
| **Automobile** | Bajaj Auto, Tata Motors, Suzuki Motors, Mahindra & Mahindra, Mercedes Benz, Fiat Chrysler, Ashok Leyland, Hero Corp, TVS motors, Renault Nissan, Hyundai, Force Motors, Ford, Volvo Commercial Vehicle. |
| **Bank** | Goldman Sach, HSBC, Credit Suisse, Barclays, Deutsche Bank |
| **Communication** | Vodafone, Idea cellular |
| **Consulting** | ZS Associates, Black & Veatch, DAR Group, Vedanta, Toyo Engineering, Aker Solutions, Thyssenkrupp Industrial Solutions, Uhde India Pvt. Ltd. |
| **Financial** | D. E. Shaw & Co., Aecessium India, Morgan Stanley |
| **IT** | Tata Consultancy Services, Infosys, Cognizant Technology Solutions, IBM Global, Capgemini, L & T Infotech, Atos. |
| **IT (R&D)** | Infosys, Tata Consultancy Services, Capegemini |
| **Engineering** | Texas Instruments, Segate, Siemens Technology, Rolls Royce, Siemens Ltd., GE Digital, L & T Ltd., Sun Pharma, Honeywell, Amazon, Whrilpool, VM Ware, Avaya, Citi Corp, Bosch, Cummins Ltd, ION Trading, SAP, IDEAs, Amura Technologies, Tata Steel, ABB, Sansung India, Veritas LLC, Finiq, Bharat Forge, Eaton, L & T Construction, EQ Technologies, Alepo Technologies, VE Commercial, Oracle,Searce Logistics, CLSA Technologies, Mastercard, Siemens PLM Software, NICE, Parallel Wireless, Johnson Control, Wipro Technologies, 3 D PLM Software, CDK Global, PernodRicard, Thermax, Verroc Group, Agrostar, Faurecia, Net Crackers, Elastic Run, Quess Corp, Famitech Technologies, Path Finder, GKN, Mobis Technical, Danfoss, Star Engineers, Walter P Moore, Air Products, Emerson, Sanmar Group, Inautix, Tejas Networks, Caterpillar, Persistent, Hindalco, Voltas, Stryker, Reliance Industries, Marvell, ITC Ltd. Cadence, Reliance retail, Reliance IT, Reliance Jio, Kay Bouvet Engineering, Sedmac, Softtech Engineers, Hinduja, Autocop, Relyon Solar, Rockwell Automation, Alfa Laval, Godrej, Hyundai Construction, NFIL, Isuzu India, Flight Case, L & W Construction. |
| **FMCG** | Nestle |
| **PSU (Navratna)** | HPCL, BPCL, IOCL |
| **International Placement**  | Ebara Corporation, NTT Data |

**PERSONNEL**

**Faculty**

|  |  |  |
| --- | --- | --- |
| **Director & Professor** | Dr. M. P. Khond | Mrs. H. K. Munot |
| Prof. B. B. Ahuja | Dr. M. R. Nandgaonkar | Dr. M. U. Khobragade |
| **Professors** | Dr. Madhuri G Karnik | Mrs. A. S. Petkar |
| Dr. R. R. Joshi | Dr. S. S. Pardeshi | Mrs. Y. T. Lomte Patil |
| Prof. B. G. Birajdar | Dr. S. S. Ohol | Mrs. G. S. Vyas |
| Dr. (Mrs.) S. R. Pathak | Mr. R .N. Ladhwe | Dr. Nitin M. Mohite |
| Dr. S. S. Bhosale | Mr. V. K. Haribhakta | Mr. A. M. Nawghare |
| Dr. P. M. Raval | Dr. P. R. Dhamangaonkar | Ms. P. S. Hirapurkar |
| Dr. S. N. Sapali | Dr. A P. Bhattu | Dr. Vijay B. kakade |
| Dr. D. W. Pande | Dr. (Mrs.) S. S. Bhavikatti | Ms. A. M. Anjungikar |
| Dr. D. N. Malkhede | Dr. N. K. Chougule | Mrs. Neha Verma |
| Dr. G. V. Parishwad | Dr. (Mrs.) V. S. Rajguru | Mrs. Poulamee Ghosh |
| Dr. D. B. Talange | Dr. (Mrs.) A. A. Dharme | Ms. A. R. Deshpande |
| Dr. B. N. Chaudhari | Dr. S. R. Kurode | Ms. K. P. Janwe |
| Dr. S. S. Dambhare | Dr.(Mrs.) S. P. Ghanegaonkar | Mr. Rahul Shukla |
| Dr. (Mrs.) P. P. Rege | Dr. R. T. Ugale | Ms. Shruti M. Vaishampayan |
| Dr. M. S. Sutaone | Dr. R. A. Patil | Mr. Yogesh M. Keskar |
| Dr. A. M. Sapkal | Dr. S. P. Mahajan | Mr. Omkar G. Parishwad |
| Dr. S. T. Vagge | Dr. P. P. Bartakke | Mr. Ajay Wankhede |
| Dr. M. J. Rathod | Dr. S. P. Butee | Mr. Mahendra Bawaria |
| Dr. N. B. Dhokey | Dr. R. K. Goyal | Smt. Neha Jagtap |
| Dr. S. D. Agashe | Mrs. N. R. Anand | Dr. S. B. Patil |
| Dr. C. Y. Patil | Dr. (Mrs.) R. P. Mudhalwadkar | Dr.(Mrs.) P.J.Mulay |
| Dr. S. L. Patil | Dr. D. N. Sonawane | Mr. N. P. Dale |
| Dr. J. V. Aghav | Dr. U. M. Chaskar | Mr. N. D. Dhote |
| Dr. (Mrs.) Jibi Abraham | Dr. P. D. Shendge | Mr. S. V. Wagh |
| Dr. (Mrs.) N. R. Rajhans | Dr. V. S. Inamdar  | Dr. P. S. Shinde  |
| Dr. M. K. Ranjekar | Dr. (Mrs.) V. Z. Attar | Mr. H. P. Shinde |
|  | Dr. V. K. Pachghare  | Mrs. S. S. Mundra |
| **Associate Professors** | Dr. (Mrs.) Y. V. Haribhaktta | Mr. N.D.Shikalgar |
| Dr.(Mrs.) S. N. Madhekar | Dr. S. B. Mane  | Mr. Sagar M. Kadam |
| Dr. (Mrs.) A. D. Thube | Mr. S. P. Gosavi | Dr. (Mrs.) U. M. Mate |
| Dr. M. S. Randive | Dr. B. Rajeev | Dr. V. N. Pande |
| Mr. S. M. Mukhopadhyay | Dr. (Mrs.) A. V. Mulay | Dr. (Mrs.) S. V. Jadhav |
| Mr. R. P. Thanedar | Dr. M. D. Jaybhaye | Dr. A. P. Deshpande |
| Dr. B. M. Dawari | Dr. (Mrs.) M. Y. Khaladkar | Dr.(Mrs.) Meera Murali |
| Dr. Y. A. Kolekar | Dr. (Mrs.) C. M. Deshpande | Mrs. V. B. Bhole |
| Dr. S. A. Meshram |  | Mrs. A. V. Tare |
| Dr. N. A. Hedaoo | **Assistant Professors** | Mr. Srinivas S. Baka |
| Dr. S. D. Kulkarni | Dr. S. G. Sonar | Mr. Suhas S. Kakade |
| Dr. K. K. Tripathi | Dr. I. P. Sonar | Ms. Snehal Unde |
| Dr. V. K. Tripathi | Dr. (Mrs.) V. B. Dawari | Mr. Pratap Koppulu |
| Dr. C. M. Sewatkar | Dr. (Mrs.) R. S. Dalvi | Mrs. Bhagyashree Tamhane |

|  |  |  |
| --- | --- | --- |
| Mrs. Trupti Hinge | Ms. Aparna Santra  | Ms. Poorva Kulkarni |
| Mr. Rohan S. Kulkarni | Ms. S. N. Ghosh | Dr. Anup Kale |
| Mr. Shreyas D. Deshmukh | Ms. T R Pattanshetty | Dr. L. V. Bhandarkar |
| Dr. (Mrs.) P. P. Shingare | Mr. V. K. khatavkar | Mr. R. B. Kamble |
| Dr. (Mrs.) V. S. Vyas | Mr. V.M. Khadse | Dr. J. W. Dadge |
| Dr.(Mrs.) R. D. Joshi | Mr. S. T. Sawant | Dr. S. R. Patil |
| Mrs. V. N. More | Ms. A. B. Patil | Mr. Y. J. Pitkar |
| Dr.(Ms.) S. P. Metkar  | Ms. V. V. Kamble | Mrs. N. A. Patil |
| Mrs. Y. M. Vaidya | Ms. Asmita Manna | Dr. (Mrs.) Shweta Chaure |
| Mr. Pankaj Tasgaonkar | Ms. Nikita V. Mahajan | Dr. R S Chhatrala |
| Mrs. Niture Deeplakshmi | Mr. Jigneshbhai M. Mangukiya | Mr Vivek Mandke |
| Ms. Vanita Agarwal | Mr. Rahul B. Adhao | Dr. K. V. Dalvi |
| Mrs. V. R. Ingale | Mr. Jagadish K. Kamble | Dr. (Mrs.) S. P. Kavishwar |
| Mr. S. G. Mali  | Ms. Rohini Y. Sarode | Ms. R. P. More |
| Ms. R. K. Patole  | Ms. Sheetal D. Rathod  | Mrs. A. B. Dhere |
| Ms. Varada Potnis | Mrs. Sonal Pankaj Dubey | Ms. A. M. Abhyankar |
| Dr.(Ms.) Sushma Shelke | Mr. Avinash Rajendra Kshirsagar  | Mrs. N. V. Shinde |
| Mr. Ronghe Sushil Babaraoji | Ms. Kalyani Durga Ravindra | Ms. Y. V. Sukale |
| Mrs. Preethi Modukonduru | Mr. Tushar Hansdas Bhootmange | Jatin Majithia |
| Dr. P. P. Deshpande | Dr. (Mrs.) Agrawal Pragati Piyush  | Dr. Meena More |
| Mrs. S. U. Dangarikar | Dr. B. U. Sonawane | Mr. Rawade Harshal Appasaheb |
| Mr. V. T. Thavale | Dr. S. M. Patil | Mrs. Amruta V. Shinde |
| Mr. R. S. Ranade | Dr. P. D. Pantawane |  |
| Mrs. M. G. Kulthe | Mr. S. U. Ghunage | **Professor Emeritus** |
| Mr. A. M. More | Dr. S. S. Anasane | Dr. Prashant Kumar |
| Ms. Nazia Patel | Mr. J. S. Karajagikar | Dr. V. M. Domkundwar |
| Mr.Kaustubh Kamble | Dr. M. R. Dhanvijay | Dr. Jagdeep B. Doshi |
| Vaishali Poddar | Mr. M. N. Shiakh | Mr.A. B. Patki |
| Mr. Saurabh Nene | Prof. K. G. Patil | Dr. P. R. Apte |
| Dr. Vilas V. Gunjal | Mrs. T A Nayer  | Prof. S. B. Phadke |
| Mrs. M. A. Khandekar | Mrs. Vaishali Gaikwad | Prof. A. A. Sawant  |
| Mrs. K. A. Ghodinde | Dr. J. A. Kher | Dr. S. K. Basu |
| Mrs. Amruta S. Deshpande | Dr. (Mrs.) Kavita Suranje | Dr. P. P. Chikate |
| Ms. Kalyani A. Bhole  | Dr. Mahesh Shindikar | Dr. H. Bagchi |
| Mr. S. N. Ghotkar  | Mrs. N. V. Iyer | Dr. Mrs. M.S. Dhande |
| Mr. S. S. Kumbhar | Mrs. T. J. Kher |  |
| Mr. S. K. Gaikwad | Dr. (Mrs.) K. V. Moghe | **Chair Professor** |
| Mr. Abhijit A.M. | Mrs. A. S. Khandekar | Dr. Jayant Kumar Chakravarty |
| Mr. D. D. Kshirsagar | Mr. A.B.Patil |  |
| Mr. A. D. Joshi  | Ms. Shalaka Deshpande |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Professors-26** | **Associate Professor- 50** | **Assistant professor-149** | **Professor Emeritus-11** | **Chair Professor-1** | **Adjunct Professor-80** |

**COLLEGE OF ENGINEERING PUNE**

**BALANCE SHEET AS ON 31st MARCH 2016**

|  |  |  |  |
| --- | --- | --- | --- |
| SOURCESS OF FUNDS | **SCHEDULE** | **CURRENT YEAR 2015-16** | **PREVIOUS YEAR 2014-15** |
|   |  |  |  |
| TEUST FUNDS OR CORPUS | 1 | 912283727.6 | 864,154,405.63 |
|   |  |  |  |
| OTHER EARMARKED FUNDS | 2 | 2921008 | 2,796,618.00 |
|   |  |  |  |
| LIABILITIES | 3 | 196704012.6 | 121,619,390.02 |
|   |  |  |  |
| SURPLUS |  | 652753062 | 594,405,815.22 |
| **TOTAL** |  | **1,764,661,810.23** | **1,582,976,228.87** |

|  |  |  |  |
| --- | --- | --- | --- |
| APPLICATION OF FUNDS | **SCHEDULE** | **CURRENT YEAR 2015-16** | **PREVIOUS YEAR 2014-15** |
|  |  |  |  |
| IMMOVABLE PROPERTY | 4 | 312,630,106 | 311,692,169.00 |
|  |  |  |  |
| INVESTMENTS | 5 | 671,491,146.3 | 544,877,724.33 |
|  |  |  |  |
| FURNITURE FIXTURE & ASSETS | 6 | 600,606,574.9 | 587,804,768.87 |
|  |  |  |  |
| ADVANCES | 7 | 12,457,142 | 34,767,661.84 |
|  |  |  |  |
| INCOME OUTSTANDING | 8 | 70,509,184.36 | 48,505,368.61 |
|  |  |  |  |
| CASH & BANK BALANCES | 9 | 96,967,656.67 | 55,328,536.22 |
| **TOTAL** |  |  **1,764,661,810.23**  |  **1,582,976,228.87**  |

**COLLEGE OF ENGINEERING PUNE**

**INCOME & EXPENDITURE STATEMENT AS ON 31st MARCH 2016**

|  |  |  |  |
| --- | --- | --- | --- |
| **PARTICULARS** | **SCHEDULE** | **CURRENT YEAR 2015-16** | **PREVIOUS YEAR 2014-15** |
| **INCOME** |  |  |  |
|  |  |  |  |
| INTEREST | 13 | 53,387,924 | 51,512,690.56 |
|  |  |  |  |
| DONATION | 14 | 11,66,1240 | 11,408,632.99 |
|  |  |  |  |
| GRANTS | 15 | 392,197,665 | 300,285,595.81 |
|  |  |  |  |
| OTHER SOURCES | 16 | 441,582,151 | 442,961,767.44 |
|  |  |  |  |
| **TOTAL** |  | **898,828,979.95** | **806,168,686.80** |

|  |  |  |  |
| --- | --- | --- | --- |
| **PARTICULARS** | **SCHEDULE** | **CURRENT YEAR 2015-16** | **PREVIOUS YEAR 2014-15** |
| **EXPENDITURE** |  |  |  |
|  |  |  |  |
| EXPENDITURE IN RESPECT OF PROPERTY | 10 | 40,139,108 | 34,028,066.00 |
|  |  |  |  |
| LEGAL FEES | - | 322,444 | 698,800.00 |
|  |  |  |  |
| AUDIT FEES | 11 | 507,300 | 460,676.00 |
|  |  |  |  |
| DEPRECIATION | 6 | 78,545,263 | 65,495,661.00 |
|  |  |  |  |
| EXPENDITURE ON OBJECTS OF TRUST | 12 | 720,967,618.2 | 619,382,406.68 |
|  |  |  |  |
| SURPLUS CARRIED OVER TO BALANCE SHEET |  | 58,347,246.76 | 86,103,077.12 |
|  |  |  |  |
| **TOTAL** |  | **898,828,979.95** | **806,168,686.80** |