**Report Details**
**Department: Electrical Engineering**

1. **Name of the Activity: Advances in Energy Storage Devices**

   Date of Activity: 28th to 2nd December, 2016

   **Objectives:**Use of energy storage devices have become essential with increase in the use of renewable energy sources.Renewable energy resources are intermittent and unreliable, and require backup and firming in the utility system. Energy Storage is very crucial for automotive applications. Performance and reliability of energy storage devices play a key role in economics of electric vehicle.Objective of proposed course is to train faculty members and practicing engineers about the recent advances in energy storage devices.This course aims at fruitful interaction among experts in energy storage systems, faculty involved in research and imparting knowledge to students related to various aspects of energy storage systems, renewable energy

   **Outcomes:**

   1. Role of Energy storage devices in grid integration with Renewable energy sources.
   2. Advances of Nano materials used in energy storage applications.
   3. Applications of energy storage devices in Electric Vehicles.

   Photos:

Number of participants: 36

Duration of workshop: one week

2. **Name of the Activity: Sustainable Development in Indian Power Sector for Next Decade**

   Date of Activity: 11th – 12th Nov 2016

   **Objectives:**The electrical power industry in the world witnessed a major change in the first decade of the 21st century with shift of focus from bulk centralized generation to distributed generation near load, use of sustainable renewable sources for generation, environmental considerations, automation, introduction of microgrid and smart grid concepts and innovations in utilization of electric power. The Indian power industry is poised to adopt these changes with indigenization of technology. It is necessary to discuss the issue of choosing appropriate and sustainable developments in technology suitable for local needs.

   **Outcomes:**

1. Experts from academics and Industry shared common platform for exchange of technology.
2. Technological advances and innovations are presented in the form of research papers.
3. Lectures from eminent engineers and young scientists on their outstanding contribution in the field of electrical engineers

Photos:

Number of participants: 150

Duration of workshop: 2 Days

**3. Name of the Activity:Emerging Trends in Solar PV Applications for Academics**

Date of Activity:24th February 2016

**Objectives:**

1 To enhance the quality of educational experience for students.
2. To create awareness and to encourage people for solar areas.
3.To expertise people in the field of upcoming Solar generations.
4. Make skilled solar engineers for huge careers opportunities in the solar fields.
5. Share new research and developments, Innovations, Applications, Career opportunities.
6. Develop skill sets as per industry requirements.

**Outcomes**:

1.Solar Career guidance
2.Solar Entrepreneurship Awareness and Certificate distribution

Photos:

Number of participants:140

Duration of workshop:1 Day

4. **Name of the Activity: Electrical Laws, Consumer Rights and Safety**

Date of Activity: 15th October 2013

**Objectives:**Electrical shock with resultant electrocution and/or burn injury is not the only hazard associated with electricity. The available data indicate that nearly one fourth of all fires are caused by electrical appliances or installations. Further, investigations into major fire incidents show that nearly 40% of the fires are intimated by electrical causes such as short circuits, overloading, loose electrical connections etc. Deficiencies in design, installation and maintenance of electrical systems and negligence are the basic causes of electrical accidents and fires. Compliance with relevant statutory provisions and safety codes are key factors for protection against these hazards.

**Outcomes**:

1. Creating awareness amongst all stake holder regarding new changes in electricity laws
2. Presentations from experts involved in reforms

Photos:


Number of participants: 70

Duration of workshop: 1 Day

5. **Name of the Activity: National Workshop on Power Quality Assessment and Mitigation**

Date of Activity: 15th June 2013

**Objectives:** Power Quality is the major challenge faced by the industry and utility today, due to the increased use of modern electronic devices which result into distorted voltage and current waveforms, generating harmonics. These harmonics result into overheating of cables, transformers, mal-operation of sensitive equipment. Other power quality issues like transient over voltages, voltage unbalance, voltage sag, voltage swell and flicker also need to be addressed and mitigated. This one day national workshop on power quality Assessment and Mitigation is planned considering necessity of awareness of power quality issues, power quality standards and action plan for manufacturers, end users and utilities for mitigation.

**Outcomes:**

- Introduction of power quality issues, definitions, standards.
- Power quality attributes, their generation, effects and mitigation.
- Knowledge sharing about mitigation techniques.
- Assessment and instrumentation for power quality measurement.
- Creating task force for training and giving solutions for power quality issues faced by consumers.

Photos:

Number of participants: 125

Duration of workshop: 1 Day

6. **Name of the Activity: PLC & SCADA**

Date of Activity: 5th – 6th April 2013

**Objectives:**To develop the basic understanding of PLC and SCADA, this training program was organized. It included overview of these systems. Fundamentals of PLC and SCADA programming and hands on training of the same on Allen Bradley PLC was also provided.

**Outcomes**:

1. Hands on training to faculty members from other engineering colleges on Micrologix 1400 to prepare them for new subject added in curriculum on PLC and SCADA
2. Help in setting up of PLC laboratories in other institutes.

Photos:


Number of participants: 19

Duration of workshop: 2 Day

## *PUNE VIDYARTHI GRIHA'S*

## *COLLEGE OF ENGINEERING AND TECHNOLOGY, PUNE*

## ***MECHANICAL ENGINEERING STUDENTS'ASSOCIATION***

## ***(MESA)***

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**REPORT**

**Event**:AUTOMOBILE WORKSHOP

**Date**: 25th to 27th,September, 2014

**Day**: Thursday to saturday

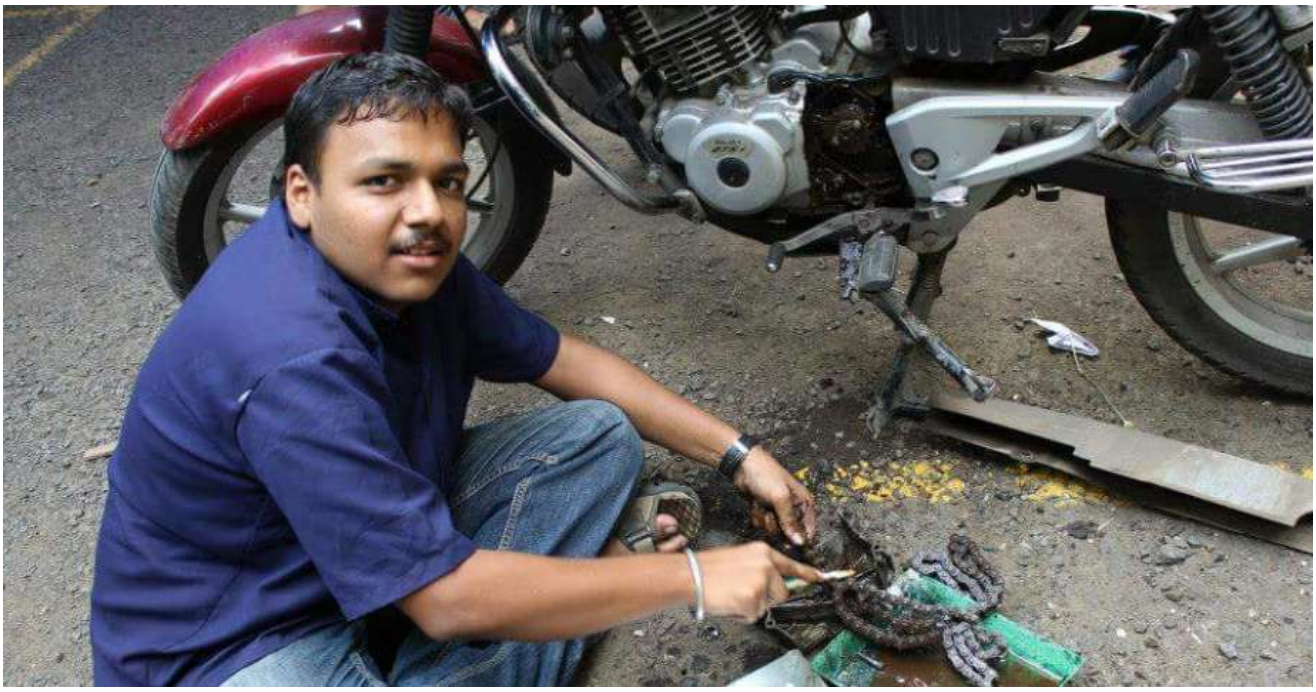
**Time**: 10:30pmto 5:00pm

**Venue**: Staff Parking

The Automobile workshop was conducted from 25th to 27th September Venue was the staff parking. It was headed and coordinated by KaustubhPatil and YashMandhare. This workshop was arranged by the SET Institute. It was conducted by Prof Ranade, a professor from the same institute.

Event was a success. A total of 50 students took part in this workshop. The fee for this workshop was Rs.1050. In this workshop the students were basically taught about the servicing of the bikes which could help them in future. The reviews were very positive and we got a great response. On the last day participants were given refreshments.

Photos:




2
APPLE ASSN.


**Prof. N. G. Jaiswal**

**(MESA Incharge)**

**Prof. Mrs. Ami R. Barot**

**(MESA Incharge)**

## *PUNE VIDYARTHI GRIHA'S*

## *COLLEGE OF ENGINEERING AND TECHNOLOGY, PUNE*

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## ***(MESA)***

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# REPORT

**Event No. 8**: Automobile repair workshop

**Date**: 8th, 9th, 10th September, 2015

**Day**: Tuesday, Wednesday and Thursday

**Time**: 3:30pmto 7:30pm

**Venue**: Industry-Institute Cell and Staff Parking

Mechanical Engineering Students' Association (MESA) arranged an Automobile repair workshop in association with TechKatta for the students of Mechaical Engineering on 8th, 9th, 10th September, 2015.

This event unfolded in three days. Every day, there was a theory lecture in the Industry-Institute Cell, followed by a practical session of the same in the staff parking. The details of topics covered in these three days of the workshop are given below:

**Day1**:

Theory: I.C Engine, 2-stroke engine, 4-stroke engine, Combustion and automobile basics.

Practical: Opening and studying different parts of bike they've brought and description of each part was given to the students.

**Day 2**:

Theory: Carburetor, Spark plug, disk brake, clutch

Practical: Observation of the parts they studied in the lecture.

**Day 3**:

Theory: Turbocharger, Supercharger, Ignition, upcoming technology (fuel cells, electric cars) and the future scope in automotive industries.

Practical: Dissection of engine and working of gearbox was studied.

TechKatta is a company founded by some enterprising engineers, who are also our noted alumni, for merging the gap between theory and practical knowledge.

The workshop saw an enthusiastic response from the students, with over 50 participants, wanting to quench their thirst for practical knowledge. On the last day, they were given the TechKatta certificate for completing the workshop. The event was a huge success.

**Photos:**

**Following students has participated in the Automobile workshop.**

| AUTOMOBILE WORKSHOP (2015-2016) | | |
|---|---|---|
| SR.NO. | NAME | Phone NO. |
| 1 | rutujabirar | 7350533784 |
| 2 | sudarshanbahurupe | |
| 3 | sarveshchavan | |
| 4 | jayeshkiramge | 8600233966 |
| 5 | darshanbachav | 8805801245 |
| 6 | hrushikhairnar | 9960888730 |
| 7 | anjalivishwakarma | 7387421812 |
| 8 | pranaysurvase | 9730239504 |
| 9 | kapildave | |
| 10 | abhisheklagu | 8600595893 |
| 11 | adityaladkhedkar | 9960494236 |
| 12 | shivramgadre | |
| 13 | atharvamoghe | 7507576118 |
| 14 | pritamkhomane | 9623983263 |
| 15 | ashwin lad | |
| 16 | harshalpalande | |
| 17 | shubhampatil | |

| | | |
|---|---|---|
| 18 | sourabhshingve | 8698543959 |
| 19 | chaitanyapataskar | 7776860229 |
| 20 | tejaslodha | 7773907272 |
| 21 | abhishekvaidya | |
| 22 | akashpowar | |
| 23 | ketanpatil | |
| 24 | sanikachandrachud | 8087710751 |
| 25 | omkarvaidya | 7030400611 |
| 26 | shivamnikam | |
| 27 | sharayukadam | 7767957228 |
| 28 | aniketatole | |
| 29 | sahilmulla | 7741823748 |
| 30 | akashsahastrabudhe | 9421819569 |
| 31 | asmita gone | 8698260799 |
| 32 | aakashbiradar | 9561512187 |
| 33 | riteshrajhans | 9665753841 |
| SR.NO. | NAME | Phone NO. |
| 34 | dhananjaybhagat | 9922278521 |
| 35 | aditya rode | 9405042210 |
| 36 | shantanumethikar | 8624071741 |
| 37 | shishirgaikwad | 7276874768 |
| 38 | jaydeepchaudhary | 8806322166 |
| 39 | roshansanklecha | 8007446934 |
| 40 | mehulrayate | 8275563767 |

| | | |
|---|---|---|
| 41 | yashbhandari | 9762153075 |
| 42 | harshalrajput | 7767959222 |
| 43 | indrajeetgaikwad | 8805669546 |
| 44 | rahul lade | 9096848627 |
| 45 | tukarammarkale | 9168999658 |
| 46 | sagarbhangare | 8097802747 |
| 47 | pradeepgarje | 9764228759 |
| 48 | girishthakur | 8554912899 |
| 49 | maheshmali | |
| 50 | aishwaryapusalkar | 9767993352 |

AUTOMOBILE WORKSHOP (2015-2016)

| SR.NO. | NAME | Phone NO. |
|---|---|---|
| 1 | rutujabirar | 7350533784 |
| 2 | sudarshanbahurupe | |
| 3 | sarveshchavan | |
| 4 | jayeshkiramge | 8600233966 |
| 5 | darshanbachav | 8805801245 |
| 6 | hrushikhairnar | 9960888730 |
| 7 | anjalivishwakarma | 7387421812 |
| 8 | pranaysurvase | 9730239504 |
| 9 | kapildave | |
| 10 | abhisheklagu | 8600595893 |

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| 11 | adityaladkhedkar | 9960494236 |
| 12 | shivramgadre | |
| 13 | atharvamoghe | 7507576118 |
| 14 | pritamkhomane | 9623983263 |
| 15 | ashwin lad | |
| 16 | harshalpalande | |
| 17 | shubhampatil | |
| 18 | sourabhshingve | 8698543959 |
| 19 | chaitanyapataskar | 7776860229 |
| 20 | tejaslodha | 7773907272 |
| 21 | abhishekvaidya | |
| 22 | akashpowar | |
| 23 | ketanpatil | |
| 24 | sanikachandrachud | 8087710751 |
| 25 | omkarvaidya | 7030400611 |
| 26 | shivamnikam | |
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| 40 | mehulrayate | 8275563767 |
| 41 | yashbhandari | 9762153075 |
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| 43 | indrajeetgaikwad | 8805669546 |
| 44 | rahul lade | 9096848627 |
| 45 | tukarammarkale | 9168999658 |
| 46 | sagarbhangare | 8097802747 |
| 47 | pradeepgarje | 9764228759 |
| 48 | girishthakur | 8554912899 |
| 49 | maheshmali | |
| 50 | aishwaryapusalkar | 9767993352 |

**Prof. Dr. P. G. Kulkarni** **Prof. Mrs. Ami R. Barot**

**(MESA Incharge)** **(MESA Incharge)**

## *PUNE VIDYARTHI GRIHA'S*

## *COLLEGE OF ENGINEERING AND TECHNOLOGY, PUNE*

## ***MECHANICAL ENGINEERING STUDENTS'ASSOCIATION***

## ***(MESA)***

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# REPORT

**Event**: Automobile Workshop 2017

**Date**: 7th& 8thJanuary 2017

**Day**: Saturday& Sunday

**Time**: 9:30 am to 6 pm

**Venue**: Staff parking and room no. 209

**About the Event:**MESA organizes Automobile workshop every year mainly for FE and SE students. So that concepts of automobile and its components getcleared. It is organized so that FE and SE students can get maximum benefit of it. Those of who are interested in automobile get a chance to explore even lot more things. This year workshop was conducted by the prestigious Elite Technologies. It was a two day workshop.

**DAY 1**

In day one theory session consists of video, ppt to explain various components and its working , construction , importance and whether any modifcation can be done in existing design or sytem so that efficiency, performance can be increased to desired level. First day was about basic information about static and dynamics.

1) About tyre , its types ,construction of tyres , parameters depended and terms associated with it like cambor, castor, reverse torque added in case of puncture . And other basic things.
2) Nomenclature of tyre , material used for manufacturing frim (alloy or steel). How it varies if alloy is used instead of steel . Use of threads on tyres.
3) Origin of Mercedes Benz , Audi.

4) Difference between petrol and diesel engine , based on weight ,efficiency , compression ratio and overall performance of the engine .
5) What is power band , radial engine (advantages , disadvantages ,application) .
6) How gear box is manufactured , types of gear boxes , how use of various gear changes according to required application .What are the challenges faced during its manufacturing , and parameters to look after while designing it .
7) Introduction to electrical engines , advantages and how it is good compared to other engines and it has a huge scope in future .
8) Terms like MPFI , DDIS , DICOR, DTSI , FI , VARICOR were discussed .
9) Various resistance by rolling , gradient , aerodynamic and inertia were also explained and is there any possible way to overcome those .
10) Clutches and its types , role it plays and other various things it governs .
11) Use of monoshock in high speed engine vehicles , Impulse .
12) Various features of sports car , restrainer used to protect neck during race .
13) Terms like half – clutch , braking torque ,differential , rear wheel drive , KPI (king pin inclination used along with Castor).
14) Braking systems components like disc, TMC, Caliper , double wishbone geometry .
15) Reasons why sports bike have their back seatraise by a certain fixed amount , push rod (high jerks experienced on the last seat of a bus).Active suspension – how spring length increases when it comes across pothole .

**DAY 2**

1) Dismantled hero honda bike which was vertically aligned .
2) Identification of components studied in theory session . Engine type, engine components, fuel injection system , gear , clutch , brake , brake pads etc .
3) Related the theory and video they saw the previous day in today's practical session .
4) How dismantling is done procedure wise and afterwards how it is assembled back .
5) Doubts were cleared and they thanked him for is knowledge and teachings .

**Attendence**: 63 Students attended the workshop. List is enclosed with report.

**Feedback**:There was a overwhelming response from students. They enjoyed both theory and practical session. It was perfect combination of video and theory making it interactive. And they really got knowledge in practical session. Overall they found it very useful and informative . They even denied to have broken to listen to the lesson. They found it worth the fee they paid for the workshop. Even they are looking forward to attend their videolectures. Thus, the workshop was conducted successfully.

**Cells Involved & Coordinators**

1) Coordinator - AtharvaMoghe (SE Mech B) -7507576118
   SudharshanBahurupe (SE Mech A) - 7083299727
2) Evpm cell -ApoorvPatki (BE Mech B) – 7507357900

3) Infrastructure cell- VaradSawant (BE Mech B)- 9921119244
4) Finance cell - RuchaKhumbhojkar (TE Mech A)-8983391871

5) Correspondence Cell - ShreyashVaidya (TE Mech B) -8975766309
BharathiMurugadass (TE Mech B) -7083572864
6) Photography - ApoorvPatki (BE Mech B) – 7507357900
SailyAteole (TE Mech A) – 9503956976

**Photos :**

**Following students has participated in the Automobile workshop.**

| AUTOMOBILE WORKSHOP (2016-2017) | | |
|---|---|---|
| SR.NO. | NAME | CONTACT NO. |
| 1 | Aditya Kulkarni | 9923544369 |
| 2 | Devashish Deshpande | 9011020573 |
| 3 | Shubham Kulkarni | 8605807602 |
| 4 | Kajal Deshpande | 8452840177 |
| 5 | Hrishikesh Kakhandaki | 9657088457 |
| 6 | Chinmay Mahajan | 9890996157 |
| 7 | Mihir Deshmukh | 8806924396 |
| 8 | Atharva Pawar | 9422715827 |

| | | |
|---|---|---|
| 9 | Sahil Vadadkar | 9016558111 |
| 10 | Sarang Lokhande | 8149917395 |
| 11 | Akash Naokar | 8308230687 |
| 12 | Yash Lad | 9767647421 |
| 13 | Shubham Potbhare | 9765322793 |
| 14 | Sanket Phadke | 9922081029 |
| 15 | Pratik Patil | 8625061017 |
| 16 | Kunal Kale | 9623047122 |
| 17 | Onkar Honrao | 9403552910 |
| 18 | Vaidehi Natu | 8237881580 |
| 19 | Prerna Tendulkar | 9175588994 |
| 20 | Prachi Mahajan | 9623350977 |
| 21 | Onkar Pathwardhan | 9422578594 |
| 22 | Omkar Ghodke | 8446889928 |
| 23 | Niranjan Bhombe | 9860025276 |
| 24 | Dhanraj Pisal | 9881283193 |
| 25 | Utkarsh Chaughule | 9552937955 |
| 26 | Rohan Abhyankar | 8698081182 |
| 27 | Prathamesh Borade | 8149025721 |
| 28 | Akshay Jadhav | 9527755612 |
| 29 | Anand Bhalerao | 9158700044 |
| 30 | Varad Nalawde | 9503127340 |
| 31 | Shivam Patil | 9028008014 |
| 32 | Janhavi Jankar | 9422526642 |

| | | |
|---|---|---|
| 33 | Rashmi Bhangale | 7350673349 |
| 34 | Prajakta Deodhar | 7768045944 |
| 35 | Shivani Dhakate | 9764150675 |
| 36 | Krutika Bhosale | 8698729000 |
| SR.NO. | NAME | CONTACT NO. |
| 37 | Shreyash Hegde | 7776983384 |
| 38 | Aishwarya Khude | 8796438315 |
| 39 | Soham Deo | 9421679351 |
| 40 | Hrishikesh Sangit | 7588349426 |
| 41 | Pallavi Sondur | 9130006813 |
| 42 | Payal Sheth | 9552406928 |
| 43 | Sreenath Joshi | 9823111633 |
| 44 | Aniket Atole | 7745067057 |
| 45 | Juee Gavali | 8983156140 |
| 46 | Rasika Ingale | 9028153818 |
| 47 | Shambhuraj Mane | 9130235421 |
| 48 | Yugandhar Vaidya | 9403327254 |
| 49 | Ashutosh Kulkarni | 8605382528 |
| 50 | Sarvesh Bhoir | 9767198969 |
| 51 | Anoop Deshmukh | 7875258332 |
| 52 | Rohan Marathe | 9689430065 |
| 53 | Raunak Karnik | 8308717350 |
| 54 | Kaustubh Kadam | 9175612526 |
| 55 | Chaitanya Khatavkar | 9049205542 |

| | | |
|---|---|---|
| 56 | Shrushti Tikhe | 9881062849 |
| 57 | Gauri Bankar | 8888223783 |
| 58 | Paresh Deore | 8275461391 |
| 59 | Sushant Pawar | 9822194558 |
| 60 | Abhishek Jadhav | 8805067680 |
| 61 | Sunny Makote | 7448269352 |
| 62 | Rohan Waghmode | 9665992167 |
| 63 | Pranav Purohit | 9423559088 |

**Prof. Dr. P. G. Kulkarni** **Prof. Mrs. Ami R. Barot**

**(MESA Incharge)** **(MESA Incharge)**

Name of the department: Mechanical Engineering

Name of the activity" Intensive training on 3DEXPERIENCE platform, in association with 3DPLM-Dassault Systems

Date of Activity: 1- 20 June 2016

Objectives:With an objective of getting acquainted with the cloud based 3D EXPERIENCE platform for further work under PLEXP, following faculty members also joined the training sessions.

- Prof. Dr. Suneta S. Sane
- Prof. Mahesh M. Kamble
- Prof. Dr. Pravin G. Kulkarni
- Prof. Manish Nagoshe: Coordinator

This training was imparted as a part of MoU with 3DPLM regarding development of innovative projects. Faculty members attended the same to be conversant with the solid modeling and simulation features for use in the development of learning resources.

Following modules were covered:

1. Gateway to 3DEXPERIENCE: Arunkumar
2. Catia part design : Onkar Nene and JayeshChitgopekar
3. Catia Surface Design: Nikhil Sapre , ArunChaudhari
4. Catia Assembly Design: T. Arunkumar, Kaustubh Kulkarni
5. System Design
6. DymolaBehaviour Modelling : VedeshJahagirdar, PrashantBhat

At the end the interns were asked to complete one project.

Assessment was completed by Prof. Kamble, as per the pointers given by Mr. Vivek. Following seven students (top 7) are invited for advance training at 3DPLM for preparation before Dassault Certification.

Award of Certificates at the hands of Shri S.P.Redekar, Director, PVG; Prof. Dr. R. G. Kaduskar, Director, PVGCOET,Pune was done in a small function held on 14 July, 2017. in the T&P Hall. Following dignitaries from 3DPLM graced the occasion.


| | | |
|---|---|---|
| YogeshRawat | Member of the DS-R&D India Management Team, Heads SIMULIA R&D function at | Yogesh.Rawat@3ds.com |

| | | |
|---|---|---|
| | Pune | |
| Mahesh Chitnis | Senior Expert from SIMULIA Team. Will be actively involved in supporting PLEXP professors | Mahesh.Chitnis@3ds.com |
| Prathamesh More | Member of Academia Collaboration Team | Prathamesh.More@3ds.com |



MESA

Number of participants:

List of Attendees:

| Sr.No | Professor's/Students Name | Email ID |
|---|---|---|
| 1 | RushikeshRavindraYadav | yadavrushikesh2797@gmail.com |
| 2 | Devashish Deshpande | deva1812.d@gmail.com |
| 3 | TapishPrashantSammanwar | sammanwartapish@yahoo.com |
| 4 | ChaitanyaShinde | shindechaitanya409@gmail.com |
| 5 | SanikaChandrachud | sanika.chandrachud@gmail.com |
| 6 | SushantPawar | sushantpawarsp28@gmail.com |
| | | |
| | | |
| 7 | ShantanuMethikar | smethikar18@gmail.com |
| 8 | Rutuja Mahajan | rutujamahajan.96@gmail.com |
| 9 | VaradTandalaskar | vdtandalaskar96@gmail.com |

| | | |
|---|---|---|
| 10 | Darshan R. Agrawal | darshanagrawal786@gmail.com |
| 11 | ShubhaniThite | tshubhani@gmail.com |
| | | |
| 12 | PranaliMukund Kulkarni | pmk199712@gmail.com |
| 13 | AbhishaDaine | abhidaine@gmail.com |
| 14 | RushikeshDeshmukh | rushideshmukh23@gmail.com |
| 15 | Amey Deshpande | ameydeshpande555@gmail.com |
| | | |
| | | |

**Report Details**

Name of the department: **Electronics and Telecommunication**

Name of the activity: **Foundation Program for ICT in Education**

Date of Activity: **3rd Aug-6th Sept 2017**

Objectives: **The 'Train 1000 Teachers' programme was initiated by IIT Bombay in 2009, under the project 'Empowerment of Students/Teachers,' sponsored by the National Mission on Education through ICT (MHRD, Government of India). The main focus of this programme is to work with Engineering Colleges in the country to enhance the teaching skills of faculty in core Engineering and Science subjects. This project attempts to address a critical subset of important issues, and adopts an approach to address these utilizing modern technologies. It uses an ICT enabled process involving both synchronous and asynchronous mode to actually reach out and engage a large number of teachers, and through them, a much larger number of students. Indeed, actual involvement of these important stakeholders in the entire process, scaled to very large numbers using ICT, can be said to be a major contribution of the project.**

Outcomes **(In view of industry-Academia Innovative practices)**

Photos (sample 1or more)

Number of participants: **40**

Duration of workshop: **2 weeks**

Name of the department: **Electronics and Telecommunication**

Name of the activity: **ICT for Blended and online learning**

Date of Activity : **2 nd May -10th July 2016**

**Objectives: The 'Train 1000 Teachers' programme was initiated by IIT Bombay in 2009, under the project 'Empowerment of Students/Teachers,' sponsored by the National Mission on Education through ICT (MHRD, Government of India). The main focus of this programme is to work with Engineering Colleges in the country to enhance the teaching skills of faculty in core Engineering and Science subjects. This project attempts to address a critical subset of important issues, and adopts an approach to address these utilizing modern technologies. It uses an ICT enabled process involving both synchronous and asynchronous mode to actually reach out and engage a large number of teachers, and through them, a much larger number of students. Indeed, actual involvement of these important stakeholders in the entire process, scaled to very large numbers using ICT, can be said to be a major contribution of the project.**

**Outcomes (In view of industry-Academia Innovative practices)**

**Photos (sample 1or more)**


Use of ICT in Education for online
and Blended Learning

Number of participants**:20**

Duration of workshop: **4 weeks**

Name of the department: **Electronics and Telecommunication**

Name of the activity: **Hands on workshop on "Embedded system Design using TIVA"**

Date of Activity: **15th December 2016 to 17th December 2016.**

Objectives:

**In order to bridge Industry-academia gap, SPPU has incorporated Texas Instrument technology in curriculum of its affiliated colleges in core branches of engineering. This workshop will help them learn real world concepts and complement it with a unique hands-on experience in Embedded MCU domain.**

**Workshop objectives:**

- To develop faculty mentors who will work with academic community in educating them and help in creating a team of experts around TI technology.
- Inculcate and learn application/project oriented teaching methodology in current academic framework.
- Understand systems approach for building applications around TI technologies.
- Empower faculties with necessary knowledge, skills and expose them to TI technologies and thereby bridging the gap between industry and academia.

Outcomes(In view of industry-Academia Innovative practices)

**Learning outcomes:**

At the end of the workshop participant will be able to learn/understand

- Embedded C programming techniques for 32-bit platform
- Embedded protocols and its interfacing techniques
- Embedded Wireless networking concepts and its implementation with application oriented projects and case studies.

Photos(sample 1or more):

Number of participants:**40**

Duration of workshop: **3 days**

Name of the department: **Electronics and Telecommunication**

Name of the activity: **A One Day Workshop on "Hands On TIVA Processor (TI)"**
Date of Activity: **March 18th, 2017**

Objectives:

1. To understand systems approach for building applications around TI technologies.
2. To empower faculties with necessary knowledge, skills and expose them to TI technologies and thereby bridging the gap between industry and academia.

Outcomes (In view of industry-Academia Innovative practices)

1. Participants will learne about making effective use of the Texas Instrument Technologies.
2. The Participants will get the knowledge of how to use TIVA for their higher studies and research work and to develop adequate skills for catering to the growing information needs of the students.
3. Participants will be trained in using TIVA series MCUs.

Photos(sample 1or more):


EMPOWERING TEACHING
WITH CUTTING EDGE TECHNOLOGY.
TI WORKSHOP
EMBEDDED SYSTEM
DESIGN USING
TIVA
Application oriented teaching techniques
PUNE UNIVERSITY
5000


TEXAS INSTRUMENTS
5000


N

Number of participants:13

Duration of workshop:1 day

Name of the department: **Electronics and Telecommunication**

Name of the activity: **Seminar on providing Equitable Broadband Access in India**

**By Dr. Suresh Borkar**

Date of Activity: 13th August 2016

Objectives: **To create awareness among faculty and students about research in Broadband Access in India**

Outcomes (In view of industry-Academia Innovative practices):

**Faculty will get the in depth knowledge of Broadband Access related parameters.**

**Student will get new insight in Wireless Area for their Project and guidance for higher studies.**

Photos (sample 1or more)

Number of participants: **50**

Duration of Seminar: **Half day**

Name of the department: **Electronics and Telecommunication**

Name of the activity: **Two Week ISTE main Workshop on Signals and Systems**

Date of Activity: **2nd -13rd Jan 2014**

Objectives: **National Mission on Education through ICT supported by MHRD**

Outcomes (In view of industry-Academia Innovative practices): **Using ICT tools by IIT benefited faculty who are teaching Signals And System to undergraduate and Post graduate level to clear their basic concepts .**

Photos(sample 1or more)

Number of participants: **22**

Duration of workshop: **Two Weeks**

Name of the department: **Electronics and Telecommunication**

Name of the activity: **Faculty Orientation Workshop on SE(E &TC/Elex)Revised Syllabus 2012 Course under the aegis of Board of Studies(BOS) Electronics, University of Pune**

Date of Activity: **17th June 2013 to 22nd June 2013**

**Objective**: The objective of this workshop is to orient all the faculty towards the revised syllabus of SE(E&TC/Elex) and to bring in uniformity in teaching across all the colleges under the University of Pune. Entire syllabus will be covered by expert teachers in concerned subjects.

**Outcome:** Received good response for the ONE-WEEK Workshop.

Photos (sample 1or more)


Faculty Orientation Workshop
on
S.E. (E&TC / Elex) Revised Syllabus 2012
BoS Electronics, University of
Subject : Network Theory


Number of participants: 93

Duration of workshop: 6 days

| Year | Name of the workshop/ Seminar | Date From – To | Link to the Activity report on the website | No. of Participation | |
|---|---|---|---|---|---|
| 2017 | Foundation program for ICT in Education | 3rd Aug-6th Sept 2017 | ETC | 40 | |
| 2017 | one day workshop on TIVA processor | 18th March 2017 | ETC | 13 | |
| 2016 | ICT for Blended and online learning | on 4 week(2 nd May - 10th July)2016 | ETC | 20 | |
| 2016 | Hands on workshop on "Embedded system Design using TIVA | 15th December 2016 to 17th December 2016. | ETC | 50 | 6 |
| 2016 | Equitable Broadband Access in India | 13/8/2016 | ETC | 12 | 80 |
| 2016 | Embedded System Design using TIVA | 15-17 Dec 16 | ETC | 50 | 6 |
| 2014 | Two Week ISTE main Workshop on Signals and Systems | 2nd -13rd Jan 2014 | ETC | 22 | |

| | | | | |
|---|---|---|---|---|
| **2013** | **Faculty Orientation Workshop on SE(E &TC/Elex)Revised Syllabus 2012 Course under the aegis of Board of Studies(BOS) Electronics, University of Pune** | **17th June 2013 to 22nd June 2013** | **ETC** | **100** |

**Workshop report :**

Name of the department : Printing Engineering Department

Name of the activity : **Half Day workshop on 'Pigment Structure and Pigment Properties'**

Date of Activity : 28th February 2017

Presented By : Mr. M. D. Mettelloo, GM Pigment Technical services, Sudarshan Chemical Industries Ltd

Objectives:

1. To distinguish properties and application of dyes and pigments.
2. To recognize pigment manufacturing process
3. To relate pigment properties with end use properties of printing inks
4. To define pigment quality testing parameters

Outcomes(In view of industry-Academia Innovative practices)

1. To perform quality testing of pigment required for ink application.
2. To apply pigment structure knowledge to enhance Ink properties

Number of participants : 75 students along with five faculties

Duration of workshop : Half Day

Name of the department : Printing Engineering Department

Name of the activity : **Full day workshop on 'Role of Pigments Pigment Dispersion in manufacturing of Printing inks'**

Date of Activity : 8th October 2016

Presented By : Mr. KausikPurakayastha, General Manager, Hi-Tech Inks, Pvt. Ltd.

Objectives:

1. To recognize forces acting for grinding pigment particles.
2. To recognize variables for pigment Dispersion process

3. To relate dispersionprocess parametersto achieve required pigment particle size distribution.

Outcomes(In view of industry-Academia Innovative practices)

1. To optimize pigment dispersion process
2. To control dispersionprocess parameters as per end use requirement of printing inks.

Number of participants : 83 students along with five faculties

Duration of workshop : Full Day

Name of the department : Printing Engineering Department

Name of the activity : **Half day workshop on 'Chemical Additive used in printing inks'**

Date of Activity : 1st April 2016

Presented By : Mr. Adesh B. Malkar, Technical service Manager, BYK Asia Pacific Pvt. Ltd.

Objectives:

1. To recognize an importance of additives in printing inks
2. To understand working principles of additives used in printing inks
3. To identifyoptimum type of additives to achieve required ink properties

Outcomes(In view of industry-Academia Innovative practices)

1. To recall working principles and importance of additives used in printing inks.
2. To choose optimum type of additives to achieve required ink properties

Number of participants: 75 students.

Duration of workshop: Half Day

Name of the department : Printing Engineering Department

Name of the activity : **Two Days workshop on 'PATENTS'**

Date of Activity : 3rd and 4th February 2017

Presented By : Dr. Anjali S. Wamburkar

Objectives : 1. To make aware of participants about Patent and patent related activities

2. emerging research trends in Printing Engineering and to explore various research opportunities and challenges in the areas of Printing.

Outcomes(In view of industry-Academia Innovative practices)

1. Learning outcomes were understanding concepts of different kinds of Patents
2. methods to apply for Patent
3. Understanding International Property Rights

Photos(sample 1or more) :

Number of participants : 8faculty members

Duration of workshop : 2 Days