

### Youth activities at MITS Campus



A cycle rally was organized in the Institute on International Youth Day, 12<sup>th</sup> Aug 2016. The rally was inaugurated by Er. Ramesh Agrawal, Secretary, SECS. Many other youth activities were organized under MITSWAH student chapter.

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#### Director's Message

I congratulate the Team News Letter on compiling yet another issue of the institute newsletter. Such endeavours provide a platform for our faculty and students to showcase their multifaceted talents and fabulous achievements at the global level. I am sure the quality and content of this venture will improve with each issue.



In present times, education in general and technical education in particular faces the immense challenge of creating a manpower which is suitable to handle the constantly changing societal needs in a world which is technologically advancing at an amazing pace. Maintaining quality is another formidable task requiring devotion, dedication, zeal and focused efforts by all stake holders. Now is the time to take the call and move ahead as a team to introduce the spirit of innovation and excellence in all our endeavors to fulfill the aspirations of an expectant community.

## INSTITUTE ACHIEVEMENTS

- The Institute received **UGC autonomy** for a period of 6 years w.e.f from July 2017.
- The Institute is selected among the **Top Forty Eight** Academic Institutes out of 1719 Institutes of the Country under the **Atal Incubation Mission** of the **NITI Aayog**.
- The Institute is selected for funding under **TEQIP-III**. The Institute will have twinning arrangement with Delhi Technological University (DTU), Delhi.

## FACULTY ACHIEVEMENTS



**Prof. Jyoti Vimal** awarded **Doctor of Philosophy (PhD)** entitled “Some studies on free vibration analysis of functionally graded plate” from National Institute of Technology, Allahabad in

April 2016.



**Prof. Amit Aherwar** awarded **Doctor of Philosophy (PhD)** entitled “Study of Physical, Mechanical and Sliding Wear Characterization of Femoral Head Material for Hip Joint Replacement”

from Malaviya National Institute of Technology, Jaipur in January 2017.



**Dr. Manjaree Pandit** delivered **Keynote Address** in National Conference on Advanced Technologies in Renewable Energy (NCATRE-17) at Technocrats Institute of

Technology, Bhopal, on 3rd May 17.

## Expert's Talks

### Department of Civil Engineering

- Dr. R.D. Singh, Director, National Institute of Hydrology, Roorkee delivered lecture on Industry Roorkee India. “Strategy & status of water management in India on 24<sup>th</sup> Feb. 2016.
- Dr. Sujit Kumar, M.D. Klimart, Bangalore Industry Bangalore and Dr. Pankaj Singh, Green Building in Consultant Industry Bhopal delivered lectures on Green Buildings for Sustainable Development on 23 September 2016.
- Er. Pradeep Agarwal Director, MES New Delhi Industry New Delhi India Current practices in road construction” 3 March 2017.
- Dr. Devesh Tiwari and Dr. Ravindra Kumar, Principal Scientist, CRRI, New Delhi delivered lectures on Current practices in road construction on 3 March 2017.
- Principal Scientist, CRRI, New Delhi Industry New Delhi delivered lecture on Current practices in road construction on 3 March 2017.
- Dr. C.S. Gokhale Dean, School of Construction management SOCM, NICMAR, Pune delivered lecture on Current Practice in Construction Industry 25 March 17.
- Dr. Malti Goel CEO & Founder, Climate Change Research Society Industry New Delhi delivered lecture on Environmental Engineering & Practices on 8 March 2016.
- Dr. V. Vasudevan DRDO, Gwalior Industry Gwalior delivered lecture on Environmental Engineering & Practices on 11 March 2016.
- Dr. Rajesh Singh, NIIT Roorkee Industry Roorkee India Environmental Engineering & Practices March 12<sup>th</sup> 2016.

### Department of Electrical Engineering

- An expert talk on “**HV generation and Testing**” by Dr A.K. Sharma JEC Jabalpur was organized on 19/09/2016.
- An expert talk on “**Non Conventional Energy sources & Smart Grid**” by Dr. D.K Srivastava BIET Jhansi organized on 18/10/2016.
- An expert talk on “**Small Hydro Electric Power Plant**” by Er.Ambreesh Singh, CEO

Govindraj Projects Pvt Ltd was organized on 30/01/2017.

- An expert talk on “**CNC Machine used for modern Drives Machines**” by Er. Mukesh Khasgiwala Executive director BHEL Jhansi was organized on 27/03/2017.

### **Department of Biotechnology**

- The expert lecture was delivered on “**Tissue Engineering**” and “**Genomics**” by Dr. Indranil Banerjee, Assistant Professor, NIT Rourkela and Dr. Ranjit Prasad Bahadur, Associate Professor, IIT Kharagpur respectively on February 20, 2017 and February 23, 2017.
- The expert lecture was delivered on “**Biomaterials**” by Dr. Kunal Pal, Assistant Professor, NIT Rourkela on March 25, 2017 and on “**Mesenchymal stem cell based therapeutic approach**” by Dr. Sanjay Kumar, Scientist, Centre for Stem cell Research Christian Medical college, Vellore on March 25, 2017.



## **FACULTY OUTREACH**

### **Training Program/FDP Attended**

#### **Department of Civil Engineering**

- Prof. A. Tiwari, Prof. D. Rastogi, Prof. G. Bhadoriya & Prof. A. K. Agarwal attended National Workshop on Research Competence Intellectual Property Rights & Patents under TEQIP-II, MITS, Gwalior on 04<sup>th</sup> Feb. 2017.
- Prof. A. Tiwari attended National Workshop at IIT, Gandhinagar from 24/09/2016 to 25/09/2016
- Prof. A. Tiwari, Dr. R. Kansal, Prof. D. Rastogi & Prof. G. Bhadoriya attended National

Workshop on Teaching Competence Quality in Technical Education: A Challenge under TEQIP-II at Elect. Engg. Deptt. MITS Gwalior 18-19<sup>th</sup> Nov. 2016.

- Prof. D. Rastogi attended National Workshop Exposure Land Use/ Land Cover Change Modelling and prediction under GIAN at MNIT, Jaipur.

#### **Department of Electrical Engineering**

- Dr Manjaree Pandit attended Workshop on Quality initiatives in technical and higher educational institutions (in compliance with NBA and NAAC accreditation) at Engineering staff College of India (ESCI), Hyderabad.
- Dr Laxmi Srivastava & Dr Manjaree Pandit attended Symposium on Electrical Science Conclave at IIT Gandhi Nagar during 24<sup>th</sup>-25<sup>th</sup> September 2016.
- Praveen Bansal, Vishal Chaudhary, Vijay Kumar Tewari, Rakesh Narvey & Hari Mohan Dubey attended Symposium on Power Electronics and Electrical Machines at IIT Gandhi Nagar during 03<sup>rd</sup> -04<sup>th</sup> November 2016.
- Vishal Chaudhary attended Prospects for Start-ups in Solar Energy Technologies at National Institute of Solar Energy, MNRE, Govt. of India on 12<sup>th</sup> July 2016.
- Hari Mohan Dubey, Shishir Dixit Himmat Singh Ahirwar, Vishal Chaudhary and Vijay Kumar Tewari attended Two week Short Term Course on Quality Enhancement of Teaching -Learning Process at MITS Gwalior during 27 Feb to 09 March 2017.
- Rakesh Narvey, Himmat Singh Ahirwar, Vishal Chaudhary & Vijay Kumar Tewari attended Two week Short Term Course on Infrastructure Development at MITS Gwalior during 15-25 March 2017.
- Saket Gupta attended Training Program on Smart Grid & Internet of thing at CPRI Bangalore during 3-4 Feb 2017.

#### **Department of Electronics**

- Dr. Vandana V. Thakre and Dr. Karuna Markam attended one week STP on

“Technology Enabled learning ” at NITTR Bhopal during 27<sup>th</sup> June 2016 to 01 July 2016.

- Dr. Vandana V. Thakre and Dr. Karuna Markam attended symposium on signal processing and communication during October 17-18 2016 at Indian Institute of Technology Gandhi Nagar under TEQIP II initiative (MHRD and Government of Gujarat)
- Dr. Vandana V. Thakre, Dr. Laxmi Shrivastava, Prof. Madhav Singh and Dr. Karuna Markam attended two days National workshop on “Quality In Technical Education A Challenge ”organized on 18-19 November 2016 under Under TEQIP Phase-II at MITS Gwalior
- Dr. Vandana V. Thakre, Dr. Laxmi Shrivastava, Prof. Madhav Singh and Dr. Karuna Markam one day National workshop on Intellectual Property Rights And Patents “under Under TEQIP Phase-II in association with the Institution Of Engineering And Technology (IET) Student Chapter on 4<sup>th</sup> February 2017 at MITS Gwalior.
- Dr. Vandana V. Thakre and Dr. Karuna Markam attended one week STP on “LABVIEW for Engineering and Science ” at NITTR Bhopal during 20<sup>th</sup> March 2017 to 24 March 2017.
- Dr. Vandana V. Thakre attended one week STP on “NBA Accreditation ” at NITTR Bhopal during 3<sup>rd</sup> April to 7<sup>th</sup> April 2017
- Dr. Vandana V. Thakre attended one week STP on “Analog and digital circuit design and testing using Simulink ” at NITTR Bhopal during 19<sup>th</sup> June 2017 to 23 June 2017.

### Department of Mechanical Engineering

- Dr CS Malvi and Prof RP Kori, Mechanical Engineering Department attended a 3-days Short Term Course during 16-18 March 2017 on ‘New Product Development Using Systems Engineering’ at IIT Kharagpur under MHRD-TEQIP II.

Dr. RK Pandit, Director, Dr CS Malvi, Mechanical and Dr Anjali S Patil, Architecture have successfully participated in *1<sup>st</sup> National Teachers’ Congress* at MIT, Pune during 23-25 Sept 2016.

## STUDENT ACHIEVEMENTS

Number of students have qualified GATE 2017 and CAT 2017 and have earned respectable qualifying marks

### Department of Electrical Engineering

- **Mr. Rakesh Kumar Saxena** awarded **Doctor of Philosophy (PhD)** entitled “Fast Computing using Signed Digit Numbers” from RGPV, Bhopal under the supervision of Dr. A.K.Wadhawani, Prof. Department of Electrical Engineering, MITS, Gwalior and Dr. Neelam Sharma, MAIT, Delhi in May 2016.
- **Mr. Amit Shrivastava** awarded **Doctor of Philosophy (PhD)** entitled “Analysis for Fault Detection in Three phase Induction Motor using Soft Computing Techniques” from RGPV, Bhopal under the supervision of Dr. Sulochana Wadhawani, Prof. Department of Electrical Engineering, MITS, Gwalior in July 2016.
- Nitin Saxena, Ph.D. Research Scholar in QIP Program attended a short term course on “Electrical Science Conclave” at IIT Gandhi Nagar from 24<sup>th</sup>-25<sup>th</sup> September 2016.
- Hemant Amhia, Ph.D. Research Scholar in QIP Programme attended a short term course on “Electrical Science Conclave” at IIT Gandhi Nagar from 24<sup>th</sup>-25<sup>th</sup> September 2016.
- Vivek Pratap Singh, PG student attended workshop on “Smart Grid and Internet of Things” at CPRI, Bangalore from 3<sup>rd</sup>-4<sup>th</sup> March 2017.
- Anurag Das, PG student attended workshop on “Smart Grid and Internet of Things” at CPRI, Bangalore from 3<sup>rd</sup>-4<sup>th</sup> March 2017.

### Department of Biotech

- Dilshad Qureshi, student of B.E Biotechnology (Final Year) has qualified GATE 2017. Also, Five students of B.E Biotechnology (Second Year) have attended a training program on “Molecular Biology, Microbiology and HPTLC” at M.P Council of Science and Technology, Bhopal from 16<sup>th</sup> -18<sup>th</sup> Feb 2017.



## QIP MINOR CENTRE: MITS GWALIOR

Five faculty development programs were organized by QIP minor center, MITS Gwalior. Eminent speakers from IITS, NITs and various organizations delivered the lectures to the participants who came from various part of the country

- AICTE-QIP sponsored two-week training program on “**Infrastructure Management**” from 14 March - 25 March, 2017 was organized by an interdisciplinary committee under the Dean Administration- Prof L K Jain.
- AICTE-QIP sponsored two-week training program on “**Quality Enhancement of teaching-learning processes**” from 27<sup>th</sup> February-9<sup>th</sup> March 2017 was organized by an interdisciplinary committee under the Dean Academics – Dr Manjaree Pandit.
- AICTE-QIP sponsored two-week training program on “**Recent trends in building services in India**” from 27<sup>th</sup> February-9<sup>th</sup> March 2017 was organized by Architecture Department, Coordinator- Dr S S Jadon.
- AICTE-QIP sponsored two-week training program on “**Recent advances in microwave Engineering**” from 20 March- 31 March 2017 was organized by Electronics Engineering Department, Coordinator- Dr PK Singhal.
- AICTE-QIP sponsored two-week training programme on **Solar Energy Applications** was organized by the Mechanical Engineering Department, from 1 to 11 March 2017. Coordinators were Dr MK Gaur and Dr CS Malvi.



## Conference/ Workshop Organized

### Department of Electrical Engineering

- Organized One day National Workshop on **Renewable Energy: Opportunities and Challenges** on 6<sup>th</sup> September 2016 under TEQIP-II.
- Organized 4<sup>th</sup> National Conference on **Innovations in Electrical Engineering” (HEE2016)** on 7<sup>th</sup> September 2016 under TEQIP-II.
- Organized One day National workshop on **Smart Grid Technologies** under TEQIP Phase-II on 6<sup>th</sup> February 2017.
- Organized One day 5<sup>th</sup> National Conference on **Innovations in Electrical Engineering (HEE2017)** under TEQIP Phase-II on 14<sup>th</sup> February 2017.
- Organized One day National Seminar on **Solar & Wind Technologies** under TEQIP Phase-II on 15<sup>th</sup> February 2017.

### Department of CSE & IT

- Workshop on **Cyber forensics: Tools and Techniques** under TEQIP Phase-II on 18 Feb 2017 Rajni Ranjan Singh Makwana (OS) & Manish Dixit (Coordinator).



- Faculty Development programme on **Innovative Trends in Computing Technology and Engineering** during under TEQIP Phase-II on 21st - 25th March, 2017 Jamvant Singh Kumare (OS) & Neha Bhardwaj (Coordinator).



### Department of Electronics

Inaugural ceremony of Two day National Conference on **Recent Advances in Electronics & Communication Engineering** during 4-5 March 2017 and One week Short Term Training Program on Data Communication & Networking during 4-8 March 2017 under TEQIP - II.



Inaugural ceremony of AICTE sponsored Two Week Short Term Course on **Recent Advances in Microwave Engineering** during 20-31 March 2017



Valedictory program of Two day Workshop on Recent Advances in Microwave Engineering during 23-24 September 2016 under TEQIP Phase II.





- Inaugural function of one day Seminar on Recent Advances in Electronics Engineering during 01 October 2016 under TEQIP Phase II.

## CULTURAL ACTIVITIES

### Session 2016-17 report

- **ORIENTATION PROGRAMME:** 6<sup>th</sup> Aug 2016  
A team of senior students interacted with the newcomer, guided them with their experience and had a very communicative interaction session with games and competition. The whole activity created a sense of security and a cohesive atmosphere among the newcomers. Scholarship awareness and help desk was put by 'Audacious' Group of students.
- **CYCLE RALLY:** 12<sup>th</sup> Aug 2016  
A cycle rally was organized on International Youth day. Around 350 cyclist participated in the rally starting from MITS campus covering 8 km. Students, faculty members, staff as well as alumni pedal for health. Many students and faculty members have started using cycle as their mode of transport to college.
- **INDEPENDENCE DAY CELEBRATION:** 15<sup>th</sup> Aug 16  
Music club students performed classical and rap patriotic songs on the occasion.
- **PHOTOGRAPHY COMPETITION:** 28<sup>th</sup> Aug 2016  
A photography competition on my campus, MITS was organized by 'Audacious' Group of students.
- **KNOCK OUT FIFA TOURNAMENT:** 22<sup>nd</sup> Sept 2016  
A desktop gaming 'Knock out FIFA Tour nament' was organized by 'Cuzente' group of students
- **POSTER MAKING COMPETITION:** 23<sup>rd</sup> Sept 2016  
Poster making competition was organized on Green buildings by Civil Engg dept.



- **ARANGAM:** 24<sup>th</sup> Sept 2016  
Arangam, NSS cultural event had dance and music and poetry competition
- **SANDESH:** 24<sup>th</sup> Sept 2016  
Short movie competition was organized by 'Utthanam' students group.
- **COLLAGEMAKING COMPETITION:** 24<sup>th</sup> Sept 2016
- **MITS GOT TALENT:** 24<sup>th</sup> & 25<sup>th</sup> Sept 2016  
Dance and music competition was organized by a group of students
- **ARDUINO WORKSHOP:** 24<sup>th</sup> & 25<sup>th</sup> Sept 2016  
Robotics workshop organised by Mechanical Engineering students.
- **STREET PLAY:** 28<sup>th</sup> Sept 2016  
'Rashtray' group of students prepared a street play on my campus and performed the play before students and faculty in the Campus. The group also participated in National level competition at IIT, Roorkee.



- **TECHNO HUNT:** 29<sup>th</sup> Sept 2016  
Treasure hunt competition with technical hints
- **H H MADHAVRAO MAHARAJ, PUNYATITHI**  
30<sup>th</sup> Sept 2016.





- **MUSIC CLUB**

Music club students performed bhajan at the MITS Campus. Also, Drawing competition for school students was held in the front lawn. 110 students from 14 different schools participated in three categories.

- **MITSVAH:** 1st - 2nd Oct 2016  
Intercollegiate literary festival- 20 literature related competitions were held in the campus  
Parliamentary debate, Poetry slam, Model United Nations, Terrible tiny tales, Mysterium, Twist of fate, Spell bee, standup comedy, News makers, Word hunt, Sherlocked(Mystery solving), Quidditch (game), Wall artetc.
- **DYSIGNO:** 15<sup>th</sup> Oct 2016  
Extempore design event, which was third since last ISTE and SAE chapter activity.
- **DIGITERIA:** 22<sup>nd</sup> & 23<sup>rd</sup> Oct 2016  
Technical competition
- **FOUNDERS DAY CELEBRATION:** 14<sup>th</sup> Nov 2016  
Music club students performed an orchestra
- **ART OF LIVING** talk by Mr Tareek: talk for faculty and staff
- **RAMKRISHNA FOUNDATION** Talk by Swami for first year students
- **REPUBLIC DAY CELEBRATION:** 26th Jan 2017  
Music club students performed on the occasion
- **GAMESCON:** 18<sup>th</sup> - 19th Feb 2017
- **SPOT SHORT STORY WRITING:** By Audacious group 16th Feb
- **PICK UP A POEM:** March 2017
- **Quote Hunt:** 4th April 2017
- **TOPPER'S TALK:** By Utthanam in association with Training & Placement on 7th April 2017.
- **SANHITA:** हिंदी की जुगलबंदी from 8th – 12th April 2017
- **STREET PLAY:** By Rashtray on 12th April 2017
- **CAPTURE YOUR CAMPUS:** Campus sketching and capturing competition on 9th April 2017.
- **SHAKTIMAN:** Narate your childhood in Ninties by Qurencia on 15th April 2017.

## Sports News

Madhav Institute of technology and Science organized various sports events during January 16 till March 17. The list of events include various sports such as cross country chess, football, table tennis, badminton basketball, kabaddi, volleyball, handball, cricket etc. These competitions were performed at college level, Gwalior nodal level, RGPV state level and also inter hostel for certain games.

- A bright student Johny Mandal participated in state level championship for Chess held during 06/09/16 – 07/09/16. **MITS won the Men and Women chess competitions** at Gwalior nodal level held during 30/08/16 – 31/08/16.
- Uday Yadav, Sandeep Sikarwar, YojitaJha, ParulSahu, KhyatiKhare, Anmol Chawla, Ritu Gupta took part in Cross country RGPV state level on 02/09/16. MITS team was the runners up for Football Gwalior nodal level held during 05/09/16-06/09/16.
- MITS won the Men and Women Table tennis competitions at Gwalior nodal level held during 09/09/16 – 10/09/16. Rohan Bansal made it to Semi-final (M) for Table tennis held on 21/09/16.
- MITS won the Men and Women Badminton competitions at Gwalior nodal level held during 18/09/16-19/09/16. Kunal Verma, Akanksha Verma, Anjali Verma participated for nationals of Badminton RGPV state level.
- MITS won the Men and Women Basketball competitions at Gwalior nodal level held during 22/09/16 – 23/09/16. Ankita Jain, Abhijeet Singh, Abhijotkang, Vedanta participated for nationals of Basketball RGPV state level on 01/10/16.
- Rajat Kumar Singh participated for nationals of Volleyball RGPV state level. AnoopRathore, Rohit Kumar Sahu, Sanjeet Yadav participated in Handball RGPV state level on 30/09/16.
- Upendra team final year won 3 on 3 Basketball tournament held at College level on 17/02/17and 18/02/17.
- Apart from all this students participated in Cricket, Handball, Volleyball, Kabaddi, Cross country and many more events at college level, Gwalior nodal level, RGPV state level. The college appreciate their efforts.



Interclass Chess Tournament



Dean Student Welfare taking Introduction with Basketball Players



Intercollegiate Runner's Up Football Team



Intercollegiate Basketball Winner boys Team



Intercollegiate Table Tennis Winner Boys Team



Intercollegiate Basketball Winner Girls Team



Intercollegiate Table Tennis Girls Winner Team



Players Ready for Cross Country Race



Director Sir taking Introduction of MITS Basketball Boys Team



Director giving Inter Class Cricket Winner Trophy

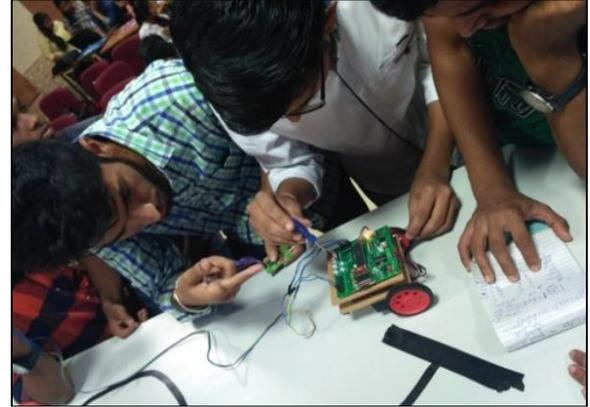
## STUDENT CHAPTER NEWS

**ISTE MITS Students' Chapter**, Gwalior in association with TEQIP- II organized a *Gesture based Robotics workshop* which was held on 28<sup>th</sup> March and 29<sup>th</sup> March 2017. The workshop was aimed to make students understand the concepts and applications of an accelerometer sensor, microcontrollers and other electronic components used in Robotics. Students were trained to build robots based on gesture recognition technology, providing students a glimpse into Human Machine Interaction technologies.

The workshop was conducted by Mr. Madhan Kumar, Engineer from Skyfi labs Bangalore. The Winners of the best team were Anubhav Tripathi, Mintu vishwakarma, Aditya Tiwari, Ritesh Rawat all from II year Electricals and Shubham Athya, II year Electrical.



- **ISTE MITS Student Chapter**, Gwalior, organized a National Level workshop on IC Engine held on 23<sup>rd</sup> April 2016. The workshop was aimed at providing theoretical and practical understanding of the automobile working.
- A technical event “CHIMERA” was conducted in Jan 2017 in collaboration with ISTE student chapter MANIT, Bhopal.
- **IETE student chapter** organized an inter department collage making competition on “Digital India” on 24th September 2016



- **IEEE day** was celebrated on 4<sup>th</sup> October 2016 where students were briefed about the various advantages of this society.
- **IET Student Chapter** was inaugurated on 18th November 2016 by member secretary AICTE, New Delhi followed by briefing on chapter activities by student chairperson of the chapter.



- On Sundays, to promote on site learning by sketching on location, Urban Sketchers Gwalior, a non-profit organization for the welfare of Architecture Students is motivating and guiding the students. The students gather on pre-decided locations like heritage buildings and markets to practice how to sketch on location. This not only enhances rendering and perspective skills of students but also helps the institute in the illustrative documentation of built heritage of Gwalior City.
- IET Student Chapter organized a Workshop on “Intellectual Property Rights and Patents” on 4<sup>th</sup> February 2017. The whole process from idea generation, maturation, product development to patent filing was explained.

- **IET Student Chapter organized a Workshop on “Air-Conditioning: Sizing and Calculations” by Dr. Abhishek Asthana, from Sheffield Hallam University, U.K., on 13<sup>th</sup> January 2017.** The workshop series featured sessions on Air Conditioning followed by usage instructions of tables and charts including psychometric chart and steam tables.



- ISTE MITS Students' Chapter, in association with TEQIP- II organized a Gesture based Robotics workshop on 28<sup>th</sup> March and 29<sup>th</sup> March 2017.
- IET Student Chapter & IEEE Student Chapter jointly organized a Workshop on “**Application Development – iOS and Android**” 10<sup>th</sup> March 2017. The workshop featured sessions on Android App development which is helpful especially for those who are trying to solve a particular problem of society using innovation and creativity.

- IEEE Student Chapter organized an Expert Lecture on Internet of Things by Dr Musti KS Sastry (University of West Indies, Trinidad). Various type of hardwares used in IoT, Raspberry Pi and Adreno were discussed along with the security aspects and various threats involved with IoT devices.

### Industrial Visit

**Department of Biotechnology** organized an industrial visit to **Tropolite Foods Pvt Ltd(TFPL)** for 2<sup>nd</sup>, 3<sup>rd</sup> year and final year students of B.E. on 28 Feb, 2017. The students visited Research and development unit of the industry. They learnt about the functioning of various equipment and the processes involved in production of Food and Dairy products like curd ,ice cream, chocolate syrup, bakery products, piping gel, muffins, chocolate cream, cooking cream, egg free mayonnaise etc. Prof. Hotam Singh Choudhary and Ms. Shweta Sharma accompanied the students. The visit benefitted the students by correlating the theoretical concepts with practical approach.





The Institution of  
Engineering and Technology



IEEE

## INTERNET OF THINGS

AN EXPERT TALK BY  
**DR. MUSTI SASTRY**  
UNIVERSITY OF WEST INDIES



ORGANISED BY  
MADHAV INSTITUTE OF TECHNOLOGY AND SCIENCE, GWALIOR - 474005  
FEBRUARY 19TH, 2017

### DVP scheme to Mechanical Engineering

Mechanical Engineering Department is awarded support from AICTE-INAE, New Delhi for ‘Distinguish visiting professorship scheme’. Er Nawal Kishore Gupta, Ex-DRDE Scientist is selected Distinguish Professor for the topic ‘Rocket Science and Cryogenics’. Under this scheme an elective is offered to the students i.e. ‘Aerospace Propulsion’. Dr C S Malvi, Associate Professor, Mechanical Engineering is the coordinator of this scheme.



One week Short Term Training Program (STTP) on “Advances in Manufacturing Systems” (Under TEQIP Phase-II) from 16th – 22nd February, 2017, organized by department of Mechanical Engineering. Dr Manish Kumar Sagar and Dr Pratesh Jayaswal worked as coordinator and Dr C S Malvi, Dr Avadesh kumar Sharma & Prof Sharad Agrawal worked as a Co-Coordinator



Two Day's National Workshop on “Manufacturing Systems” Under TEQIP Phase-II from October 23rd - 24th, 2016, organized by department of mechanical engineering. Dr Manish kumar Sagar was coordinator and Prof Sharad Agrawal & Prof Dinesh Kasdekar were organizing secretary of this workshop



## Solar Energy Lab Established

Solar Energy Lab established in the Mechanical Engineering Department during this academic year.

A combined set-up of DST project to Principal Investigator- Dr CS Malvi and

AICTE project to Principal Investigator- Dr MK Gaur.

This lab covers solar Photovoltaic, thermal water heaters, solar cookers, weather monitoring systems etc.

## NATIONAL SERVICE SCHEME

- Literacy cum Awareness Program:** is being run continuously for the underprivileged children in the institute premises since year 2011. During the academic year 2016-17, Forty NSS volunteers started to teach the underprivileged children from 01/08/2016 on regular basis (Monday to Friday) from 4:30 P.M. to 6:30 P.M.
- Seminar on Waste Management:** A seminar on “Waste Management” was organized at student activity centre on 27/08/2016 at 01:30 P.M. Prof. O. P. Agrawal, Professor, Jiwaji University, delivered a lecture on waste management.
- Plantation:** The NSS volunteers planted 751 saplings in the institute campus from 04/09/2016 to 15/09/2016



- Workshop on Digital India at Jiwaji University:** Eleven volunteers of NSS unit MITS participated in the one day workshop on “Digital India” organized by National Service Scheme, at Jiwaji University on 20/09/2016. NSS unit MITS won the first prize in “Strategy Making Completion” in this workshop.
- Cultural Program on NSS Day:** A cultural program (Dance and Poetry with social Messages) was organized on NSS day i.e. 24/09/2016. Forty Six NSS volunteers and faculty members presented solo/ group dance and poetry on various social issues.



- Blood Donation Camp:** A blood donation camp was organized on the Punya-Tithi of Late His Highness Shrimant Madhav Rao Scindia on 30/09/2016 with association of Red Cross Society. 160 units of blood were donated by students, employees and faculty to Red Cross Society.



- Rally on Swaksh Bharat Abhiyan:** On the occasion of the birth anniversary of Mahatma Gandhi, a rally on “Swaksh Bharat Abhiyan” was organized on 02/10/2016 from MITS Main Gate to Gandhi Club near Akashvani via Bus stand & back via Akashvani, Indramani Nagar to MITS Campus.



- Seminar on Traffic Rules & Regulation:** Mr. Vikram Singh Kanpuriya (DSP, Traffic Police) and his team delivered a lecture on “Traffic Rules & Regulations” and various videos were shown to students /volunteers on 16/10/2016.



- Women Empowerment:** NSS unit MITS organized a seminar on women empowerment on 21/10/2016. Mrs. Neelam Dixit, PIA and Prof. Manjaree Pandit shared their experiences.



- One Day Camp:** NSS unit MITS organized one day camp at “shasakiya drishti avam shravan badhitharth uchchar madhyamik vidyalay ,morar,gwalior on 22/10/2016. Some activities such as drawing, Singing, Dancing, Games, etc. were organized and distributed notebook, pencil,fruits and snacks to them.



- Medical Camp & Awareness Program at Village:** NSS unit MITS organized a medical camp at Kheria village. Volunteers distribute the free medicine and aware the people for cleaning.



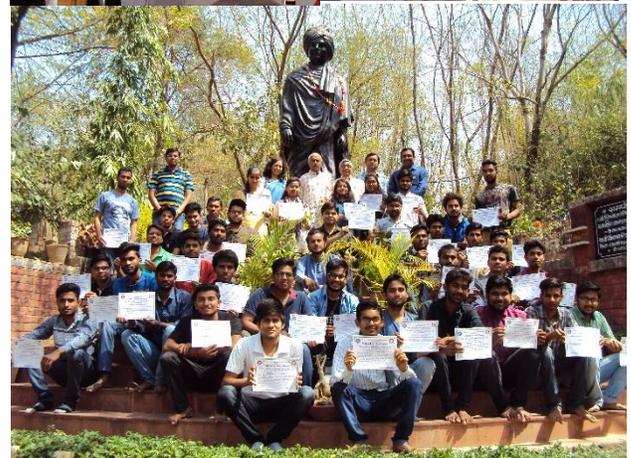
- Oath on Constitution Day:** NSS unit MITS celebrated 26<sup>th</sup> November as a constitution day. A quiz on Indian Constitution was also organized on this day to create awareness.



21/03/2017 at Vivekanand Needam, Mahalgaon, Gwalior



- Seminar and awareness program on Digital Economy:** NSS unit MITS organized a seminar on digital economy under the MHRD camping of VITIYA SAKSHARTA ABHIYAN on 11/01/2017. Prof. R S Jadon was the resource person in this program. Volunteers also visited Gola ka Manidr and Hazira areas to create awareness among the shopkeepers and other people from 12/01/2017 to 12/02/2017.



- Seven Days Special Residential Camp (Rural):** NSS unit MITS organized a seven days special residential camp on "Public Cleanness, Public Health & Public Awareness" from 15/03/2017 to



## Entrepreneurship Development Cell



Entrepreneurship Development Cell Entrepreneurship Development Cell at Madhav Institute of Technology & Science organized various events which gives a wide exposure to the people looking for Entrepreneurship Development. Some of the program conducted by EDC, MITS Gwalior are

- 3 Days Entrepreneurship Awareness Camp (EAC) during 07/07/2016 to 09/07/2016,
- 3 Days Entrepreneurship Awareness Camp (EAC) during 26/07/2016 to 28/07/2016,
- Six Weeks Entrepreneurship Development Program (EDP) during 21/07/2016 to 03/09/2016etc.
- Programs for Welding Technology was organized for duration of three Months during 20/09/2016 to 19/12/2016 at Shivpuri, Two Wheeler Repairing & Maintenance program of three months during 21/09/2016 to 20/12/2016 at Dabra,
- Three Months Diesel Generator Set Assembling & Servicing program during 03/01/2017 to 02/04/2017 at Dabra,
- Three Months Electrician/Wireman and Motor Rewinding Machanic program during 04/01/2017 to 03/04/2017 at Sabalgarh,
- Three Months Refrigeration & Washing Machine Mechanic program during 06/01/2017 to 05/04/2017 at Gwalior.
- Two Weeks Faculty Development Program (Technical Teacher Training Program) during 07/10/2016 to 22/10/2016,
- Six Weeks Technical Entrepreneurship Development program on Computer Hardware & Networking Technology during 04/10/2016 to 15/11/2016,
- 3 Days Entrepreneurship Awareness Camp (EAC) during 28/11/2016 to 30/11/2016 at Morena,
- 3 Days Entrepreneurship Awareness Camp (EAC) during 01/12/2016 to 03/12/2016,
- Six Weeks Entrepreneurship Development Program (EDP) during 19/01/2017 to 01/03/2017,
- Six Weeks Technical Entrepreneurship Development Program on Computer Hardware & Networking Technology during 23/11/2016 to 03/01/2017,
- Six Weeks Technical Entrepreneurship Development Program on Computer Hardware & Networking Technology during 14/02/2017 to 27/03/2017,
- Two Weeks Faculty Development Program (Technical Teacher Training Program) during 04/01/2017 to 17/01/2017,
- Six Weeks Entrepreneurship Development Program (EDP) during 25/07/2016 to 06/09/2016 at Morena,
- Six Weeks Entrepreneurship Development Program (EDP) during 27/07/2016 to 07/09/2016 at Shivpuri,
- 3 Days Entrepreneurship Awareness Camp (EAC) during 28/03/2016 to 30/03/2016 at Shivpuri.
- 3 Days National Seminar on “Technology, Innovation Management & Entrepreneurship Development” was organized by NITI Aayog, Government of India, New Delhi during 11/06/2016 to 13/06/2016.
- Directorate of Technical Education, Bhopal also conducted certain courses like 3 Days National Conference on ‘Role & Impact of Digital India Program on Business Management & Entrepreneurship Development’ during 22/10/2016 to 24/10/2016,
- 2 Weeks Faculty Development Program (FDP) during 20/02/2016 to 03/03/2016 at Gwalior and
- 2 Weeks Faculty Development Program (FDP) during 04/09/2015 to 16/09/2015.
- Two Weeks Faculty Development Program (Technical Teacher Training Program) from (04/03/2017 to 17/03/2017),
- Three Days National Conference On ‘Drugs and Pharmaceutical Technology in Business Entrepreneurship Management’ during (18-20/03/2017),
- 3 Days Entrepreneurship Awareness Camp (EAC) During 07/02/2017 to 09/02/2017,
- 3 Days Entrepreneurship Awareness Camp (EAC) during 14/02/2017 to 16/02/2017,
- 3 Days Entrepreneurship Awareness Camp (EAC) during 20/02/2017 to 22/02/2017 at Shivpuri,
- 3 Days Entrepreneurship Awareness Camp (EAC) during 21/02/2017 to 23/02/2017,
- 3 Days Entrepreneurship Awareness Camp (EAC) during 01/03/2017 to 03/03/2017,
- 3 Days Entrepreneurship Awareness Camp (EAC) during 25/04/2017 to 27/04/2017,
- Six Weeks Technical Entrepreneurship Development Program on Computer Hardware & Networking Technology during 30/03/2017 to 11/05/2017 and
- Six Weeks Entrepreneurship Development Program (EDP) during 25/04/2017 to 05/06/2017 at Gwalior under Department of Science & Technology, Govt. of India, New Delhi.

## T & P Cell ACTIVITIES

In this academic session 418 students were placed through campus recruitment process in various companies such as Infosys, Accenture, Capgemini, IBM, Wipro, Crompton Greaves, Amdocs, AITHENT BORL, Jamna Auto, DD Enterprises, Indian Hume Pipe, Sudarshan Chemical, Britannia and Torrecid etc.

Other activities conducted by T & P cell are:

### • Soft Skills Development Training Classes & Campus Preparation

1. Communication Skills & Personality Development Classes 03-03-16 to 30-03-16
2. Soft & Professional Skills Training, PDP, GD, PI from 08-03-16 to 02.05.16.
3. One day GD & PI Training Workshop on 05-09-16
4. One day Mock Interviews Workshop on 06-09-16
5. Soft & Professional Skills Training, PDP, GD, PI from 18-03-17 to 31-03-17

### • Expert Lectures

1. Schneider Electric - Ms. Shikha Gupta, Director-Global HR on 12-Feb-16
2. Accenture - Mr. Saran Prasad, MD-Technical & Mr. Sumit Passi, HR Manager on 16-Feb-16
3. BARC Lecture by Senior Scientists on 02-Feb-16
4. Accenture Session on Diversity Hiring on 28-05-16
5. Mr. Anil Agrawal, Intel Corp. ( Technical Lecture on new technologies) on 29-08-2016
6. Indian Army Session on 21-Oct-2016
7. Mr. Ramanujan Rukmaji, CEO- Beyond Academics on 14-11-16
8. Mr. Saran Prasad, MD, Accenture on 14-11-16
9. Mr. Ankush Minocha, Global Campus Marketing Head on 14-11-16
10. Mr. Chandan Somani (Lecture on Aptitude & Reasoning) on 17.03.17
11. Mr. Manoj Dawrani ( English Language, Verbal & Non- Verbal) on 19.03.17
12. Mr. Syed Abbas Hasan (Mock GDs & Mock Interviews workshop) on 20.03.17
13. Ms. Reshma Nair (PDP workshop) on 21.03.17

### • Guidance & Briefing Sessions

1. Guidance and Briefing Session of T&P Cell on 29/02/2016 & 8/08/2016.
2. Interactive & Guidance Session by Dr. Avijit Chowdhury & Dr. Arup Banerjee, BARC on Career opportunities and Guidance , 16/01/2017.
3. Smart India Hackathon 17 Digital Product Development Competition of AICTE, 31/01/2017.

4. Student Interactive Session with Indian Airforce, 11/02/2017.
5. Workshop on Prospects of Entrepreneurship and Skill Development under TEQIP-II on 27/03/2017
6. Topper's Talk 2017: An interactive and guidance session with the toppers of IES/GATE/CAT for upcoming batches on 07/04/2017.

## PUBLICATIONS

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“Improvement of Swelling properties of Expansive soil Blending with sand and Cement”, International Journal of Science, Engineering and Technology Research (IJSETR), Vol.5, issue: 06, ISSN: 2278-7798, June 2016.

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## Department of Electronics

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## TEAM NEWSLETTER

Dean Students Welfare – Dr. Rajeev Kansal  
Incharge - Dr. Chandra Shekhar Malvi  
Members- Dr. Alok Sharma, Dr. Sanjeev Khanna,  
Dr. Sulochana Wadhvani,  
Dr. M.K. Gaur, Dr. Sunita Sharma  
Dr. Anshu Chaturvedi, Prof. Jaimala Jha,  
Prof. Laxmi Shrivastava,  
Dr. Shourabh Bhattacharya  
Composed by Devendra Singh