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Into the *seventh* year of its existence, the Institute started five new academic programs, three at the M.Sc. level in *Chemistry*, *Mathematics* and *Physics*, and two at the M.Tech. level in *Electrical Engineering* and *Mechanical Engineering*. Also, during 2015-16, the construction of the Permanent Campus of IIT Jodhpur has moved forward with speed, even though the pace could have been faster... Construction of Phase I buildings is expected to be completed by September 2016, and the migration to the Permanent Campus is expected to happen during 9-23 October 2016.

During 2015-16, a major step taken forward by the Institute was the launching of the *Industry Immersion Program*. In the inaugural edition, 30 Students and 5 Faculty Members spent the summer in the leading technology industries of the country – *Mahindra & Mahindra Limited*, *Larsen & Toubro Limited*, *Tata Motors Limited*, *TVS Motor Company Limited*, and *Tata Power Company Limited*, as the first of the 3-summer immersion of this set of Students and Faculty Members.

Also, another special beginning made by IIT Jodhpur was the *first* successful defence of Ph.D. thesis; four students completed their requirements. The number of Ph.D. Students increased from 70 during 2013-14 to 139 during 2015-16. The research profile of the Institute has improved from 32 sponsored research projects during 2014-15 to 47 during 2015-16, and from 78 publications during 2014-15 to 110 during 2015-16. 2 Patents were filed by the Faculty Members during 2015-16. In particular, in September 2015, IIT Jodhpur joined five established IITs as Co-Investigators of the DBT-Pan IIT Center for Bioenergy.

The Institute welcomed 8 new Faculty Members and 2 new Staff Members into the IIT Jodhpur community, to build a strong career here. 4 GIAN Courses were organized by the Faculty Members in *Chemistry*, *Mechanical Engineering* and *Electrical Engineering*.

C. V. R. Murty
VISION

The Institute shall
(1) Promote technology thought and action, and
(2) Prepare needed technical human resources to meet the technology challenges of the nation.

MISSION

The Institute shall
(1) Create a vibrant technology institute that incubates and promotes learning, research, invention and eventually innovation; and
(2) Prepare each primary stakeholder towards their dharma, while continuing to adhere to its core values:
   (a) Prepare competent Technology Graduates ready to meet Grand Challenges of India;
   (b) Train active functionaries of a process driven professional institute;
   (c) Facilitate builders of an internationally competitive academic institute; and
   (d) Provide technology innovation as a force to as many industries as possible for economic value creation.

CORE VALUES

The Institute stands for a set of core values, wherein each member of the IIT Jodhpur community shall
(1) Uphold highest levels of human integrity and dignity;
(2) Not take unfair advantage of any stakeholder of the Institute;
(3) Work towards building the most admired technology Institute furthering interests of Students, Industries and Society;
(4) Commit to economic development of India through technological thought and action;
(5) Be ethical, sincere and open in all transactions; and
(6) Be continually responsible for upholding utmost confidentiality of all information and circumstances arising out of any interaction.
ORGANIZATION

Organizational Structure

Under the broad umbrella of IIT Council, IIT Jodhpur functions under the guidance of the following statutory bodies.

(1) Board of Governors;
(2) Finance Committee;
(3) Senate; and
(4) Buildings & Works Committee.

Member details of these Statutory Bodies are given in the pages to follow.
Chairman
1. **Professor Goverdhan Mehta** (FNA, FRS)
   Department of Organic Chemistry
   University of Hyderabad
   Central University PO
   Hyderabad 500046

2. **Director (Ex-officio)**
   **Professor C. V. R. Murty**
   Director
   IIT Jodhpur
   Old Residency Road, Ratanada,
   Jodhpur 342011

Member-Nominees of the IIT Council
1. **Professor Pankaj Chandra**
   Former Director
   Indian Institute of Management
   Bangalore 560076

2. **Professor N. S. Vyas**
   Chairman, Technology Mission for Indian Railways
   Ministry of Railways
   Government of India
   New Delhi 110001

3. **Mr. Kiran Karnik**
   Former President, NASSCOM
   S-315 Panchsheel Park
   New Delhi 110017

4. **Mr. D. R. Mehta**
   Founder & Chief Patron
   Bhagwan Mahaveer Viklang Sahayata Samiti
   13A-Gurunanak Path
   Main Malviya Nagar
   Jaipur 302017

State Government Nominee
1. **Principal Secretary**
   Higher & Technical Education
   Main Building Secretariat
   Government of Rajasthan
   Jaipur 302005
Chairman
1. **Professor Goverdhan Mehta**, FNA, FRS
   Department of Organic Chemistry
   University of Hyderabad
   Central University PO
   Hyderabad 500046

Members
1. **Professor C. V. R. Murty**
   Director
   IIT Jodhpur
   Old Residency Road, Ratanada
   Jodhpur 342011

2. **Additional Secretary (Technical Education)**
   Department of Higher Education
   Ministry of Human Resources and Development
   Government of India
   Shastri Bhawan
   New Delhi 110001

3. **Financial Advisor**
   Department of Higher Education
   Ministry of Human Resources and Development
   Government of India
   Shastri Bhawan
   New Delhi 110001

4. **Mr. G. S. Sood**, IDAS
   House No. 1090
   Sector 29
   Faridabad 121008

5. **CA S. S. Bhandari**
   Director, Non-Executive Director on the Board
   Bank of Baroda
   P-7, Tilak Marg, C-Scheme
   Jaipur 302005

6. **Dr. Gaurav Harit**
   Assistant Professor
   Indian Institute of Technology Jodhpur
   Jodhpur 342011
C. V. R. Murty  Chairman
Pratap Bhanu Mehta  Member (Nominee of Board of Governors)
H. P. Khincha  Member (Nominee of Board of Governors)
Sanjeev Misra  Member (Nominee of Board of Governors)

Members
  Coordinator (Faculty)
  Coordinator (R&D)
  Coordinator (Academics)
  Coordinator (Students)
  Head, Department of Biology
  Head, Department of Chemistry
  Head, Department of Computer Science & Engineering
  Head, Department of Electrical Engineering
  Head, Department of Humanities & Social Sciences
  Head, Department of Mathematics
  Head, Department of Mechanical Engineering
  Head, Department of Physics
  Chairman, Wardens Committee
  Chairman, Library Committee
  Laboratory In-Charge, Workshop
Chairman
1. **Professor C. V. R. Murty**  
   Director  
   IIT Jodhpur  
   Old Residency Road, Ratanada,  
   Jodhpur 342011

Members
1. **Ms. Usha Kasana**  
   Chief Architect  
   Public Works Department  
   Government of Rajasthan  
   Jacob Road, Civil Lines  
   Jaipur 302006

2. **Mr. R. K. Govil**  
   Additional Director General Civil (Retd.), CPWD  
   26, Ankur Apartments  
   7, I.P. Extension  
   Delhi 110092

3. **Mr. V. K. Bansal**  
   Chief Engineer Electrical (Retd.), CPWD  
   721 Sky Lark Apartment,  
   Sector-6, Plot No.35, Dwarka  
   New Delhi 110075

4. **Dr. B. Ravindra**  
   Associate Professor  
   Indian Institute of Technology Jodhpur  
   Jodhpur 342011
The Institute has organized its activities through various key functionaries, as depicted in the organogram below.

Details of various key functionaries of the Institute are as follow.

**Director**

C. V. R. Murty

**Coordinators**

Deepakkumar M. Fulwani  Faculty
V. Narayanan  Research & Development
Atul Kumar  Academics
Hari Narayanan V.  Students
Rahul Chhibber  Laboratory In-Charge, Workshop

**Heads of the Departments**

Venkata Ramana Badarla  Computer Science & Engineering
Anil K. Tiwari  Electrical Engineering
B. Ravindra  Mechanical Engineering
Sushmita Jha  Biology
Rakesh Kumar Sharma  Chemistry
Kirankumar R. Hiremath  Mathematics
Subhashish Banerjee  Physics
Vidya Sarveswaran  Humanities & Social Sciences

**Convenors of Focus Groups**

Sushmita Jha  Biologically Inspired System Science
V. V. M. S. Chandramouli  System Science
### Professors In-Charge

<table>
<thead>
<tr>
<th>Name</th>
<th>Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prawal Sinha</td>
<td>Faculty</td>
</tr>
<tr>
<td>Navratan Mal Bhandari</td>
<td>Research &amp; Development</td>
</tr>
</tbody>
</table>

### Chairman / Chairperson

<table>
<thead>
<tr>
<th>Name</th>
<th>Committee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Samanwita Pal</td>
<td>Wardens Committee</td>
</tr>
<tr>
<td>P. Manikandan</td>
<td>Student Placement Committee</td>
</tr>
<tr>
<td>Anil Kumar Tiwari</td>
<td>Medical Services Committee</td>
</tr>
<tr>
<td>Satyajit Sahu</td>
<td>Library Committee</td>
</tr>
<tr>
<td>V. V. M. Sarma Chandramouli</td>
<td>Logistics Committee</td>
</tr>
<tr>
<td>V. V. M. Sarma Chandramouli</td>
<td>Scholarships and Prizes Committee</td>
</tr>
<tr>
<td>Anand Krishnan Plappally</td>
<td>Alumni Relations Committee</td>
</tr>
<tr>
<td>Ankita Sharma</td>
<td>Counselling Services Committee</td>
</tr>
</tbody>
</table>

### Officers

<table>
<thead>
<tr>
<th>Name</th>
<th>Role</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gaurav Harit</td>
<td>Chief Vigilance Officer</td>
</tr>
<tr>
<td>Gaurav Bhatnagar</td>
<td>Transparency Officer</td>
</tr>
<tr>
<td>Puneet Sharma</td>
<td>Hindi Officer</td>
</tr>
<tr>
<td>Mahesh Kumar</td>
<td>Green Initiative Officer</td>
</tr>
<tr>
<td>Satyajit Sahu</td>
<td>Nodal Officer for OBC, PwD, and Minorities</td>
</tr>
<tr>
<td>Barun Pratihar</td>
<td>Nodal Officer for SC and ST</td>
</tr>
<tr>
<td>Kshema Prakash</td>
<td>Women Cell Officer</td>
</tr>
<tr>
<td>Amardeep Sharma</td>
<td>Public Relations Officer</td>
</tr>
<tr>
<td>Sanjeeb Mukherjee</td>
<td>Infrastructure Engineer</td>
</tr>
<tr>
<td>Amardeep Sharma</td>
<td>Infrastructure Manager</td>
</tr>
<tr>
<td>Amardeep Sharma</td>
<td>Central Public Information Officer</td>
</tr>
</tbody>
</table>

### Academic Committee

- **Coordinator (Academics)**: Chairman

**Members**

- Head, Department of Computer Science & Engineering
- Head, Department of Electrical Engineering
- Head, Department of Mechanical Engineering
- Head, Department of Biology
- Head, Department of Chemistry
- Head, Department of Mathematics
- Head, Department of Physics
- Head, Department of Humanities & Social Sciences
  - Convener (Focus Group Biologically Inspired System Science)
  - Convener (Focus Group System Science)
- Liaison Officer (SC/ST Cell)

### Student Representatives

- Secretary, ARA Society, Students Gymkhana
- Three Student Representatives from ARA Society, Students Gymkhana
  *(one each from B.Tech., M.Tech. and Ph.D. Programs)*
Departments and Associated Faculty Members

The Institute has organised its academic activities to be conducted through eight Departments, and two Focus Groups. They are:

I. Departments
   1. Biology,
   2. Chemistry,
   3. Computer Science & Engineering,
   4. Electrical Engineering,
   5. Humanities & Social Sciences,
   6. Mathematics,
   7. Mechanical Engineering, and
   8. Physics

II. Focus Groups
   1. Biologically Inspired System Science, and
   2. System Science.

Details of Departments and associated Faculty Members are given in the pages to follow.
DEPARTMENT OF BIOLOGY

The Department of Biology is the hub of biological sciences at IIT Jodhpur. The mission of the Department is to gain excellence in education and research at the national and international levels. The Faculty Members at the Department of Biology span a wide range of biological disciplines from cellular and molecular neuroscience, biochemistry, physiology to environmental biotechnology.

The Department offers B.Tech. (Biologically Inspired System Science) and Ph.D. Program with specialisation in Biology, and in Biologically Inspired System Science. The department offers a wide range of courses from foundational biology to advanced concepts in biological sciences from B.Tech. to Ph.D. level courses. With state-of-the-art centralized laboratories and research facilities, hands-on learning is emphasized.

Faculty Members and Students at the Department of Biology believe in collaboration both within and outside the department to enhance research potential and productivity. Following are the Faculty Members associated with the department:

<table>
<thead>
<tr>
<th>Name</th>
<th>Research Areas</th>
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</thead>
<tbody>
<tr>
<td>Sushmita Jha</td>
<td>Cellular and Molecular Neuroscience, Cell and Molecular Physiology</td>
</tr>
<tr>
<td>Amit Kumar Mishra</td>
<td>Cellular and Molecular Neuroscience, Cell Cycle Regulation and Cancer</td>
</tr>
<tr>
<td>Karunakar Kar</td>
<td>Protein Biophysics, Amyloids and Collagens, Rationally Engineered Biomaterials</td>
</tr>
<tr>
<td>Meenu Chhabra</td>
<td>Biological Science &amp; Bio-Engineering: Renewable Bioenergy Bioremediation</td>
</tr>
</tbody>
</table>

**Academic Activities in the Department**

A “Discussion Meeting on Technology in Life Sciences” was organized during 1-3 August 2016 at IIT Jodhpur. The Institute invited colleagues from Industry, R&D Organisations and Academia, to help shape the role of IIT Jodhpur in so far as
Technology in Life Sciences is concerned. During this 3-day discussion meeting 12 guests participated from outside the Institute, as detailed below.

1. Dipankar Nandi, Indian Institute of Science
2. Biswajit Kundu, Indian Institute of Technology Delhi
3. S. K. Khare, Indian Institute of Technology Delhi
4. Shilajit Bhattacharya, All India Institute of Medical Sciences Jodhpur
5. Surajit Ghatak, All India Institute of Medical Sciences Jodhpur
6. Abhay Elhence, All India Institute of Medical Sciences Jodhpur
7. Pradipta Bandopadhyay, Jawaharlal Nehru University, New Delhi
8. Mukesh Jain, Jawaharlal Nehru University, New Delhi
9. Parthosarothi Ray, IISER, Kolkata
10. Dulal Panda, Indian Institute of Technology Bombay
11. Debashis Dash, CSIR-Institute of Genomics & Integrative Biology
12. T. R. Sreekrishnan, IIT Delhi

Along with the Faculty Members from the Department of Biology, Faculty colleagues from other Departments also participated in this 3-day discussion meeting. Many points emerged during the discussions, and curriculum was suggested for the proposed M.Tech. (Biosciences and Bioengineering) Program at IIT Jodhpur. Some of the salient closing thoughts were:

(1) National challenges and gaps in *pedagogy, infrastructure* and *curriculum* on part of the Institute, and *competence* (i.e., *knowledge, skills* and *attitude*) in graduating students, need to be assessed while moulding a new Department and degree programs at IIT Jodhpur.

(2) Wider discussion on the agenda of *Technology in Life Sciences at IIT Jodhpur* is required with a larger stakeholder group, especially with those from *Industry*, to assess employability of students educated in IIT Jodhpur through the B.Tech., M.Tech. and Ph.D. Programs;
Chemistry at IIT Jodhpur is where Chemistry sees Technology. At IIT Jodhpur, Chemistry embraces a distinctive locus in science and technology collaboration. The department is making technological contribution to new materials for energy solutions, catalysis and water. Fundamental understanding of chemical dynamics, biological phenomena, Nuclear Magnetic Resonance and Quantum Chemistry are growing in prominence. The vision of the Department of Chemistry is to strive to be acknowledged for excellence in teaching, research, and outreach. The following Faculty Members are associated with the department:

<table>
<thead>
<tr>
<th>Name</th>
<th>Research Areas</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rakesh Kumar Sharma</td>
<td>Catalysis for Energy and Stereocontrol, Feedstock Chemistry, Fuel and Lubricants, Energy Storage and Water Treatment Technology</td>
</tr>
<tr>
<td>Ananya Debnath</td>
<td>Theoretical and Computational Chemistry</td>
</tr>
<tr>
<td>Atul Kumar</td>
<td>Quantum Information Processing</td>
</tr>
<tr>
<td>Manikandan Paranjothy</td>
<td>Theoretical and Computational Chemistry, Chemical Reaction Dynamics</td>
</tr>
<tr>
<td>Ritu Gupta</td>
<td>Nanomaterials &amp; Nanodevices for Water, Energy and Healthcare</td>
</tr>
<tr>
<td>Samanwita Pal</td>
<td>Solution and solid state NMR and NQR spectroscopy</td>
</tr>
</tbody>
</table>
The Department offers B.Tech. (Computer Science & Engineering) and Ph.D. Program with specialisation in Computer Science & Engineering. It has some state-of-the-art laboratory and research facilities.

Following are the Faculty Members associated with the department:

<table>
<thead>
<tr>
<th>Faculty Member</th>
<th>Research Areas</th>
</tr>
</thead>
<tbody>
<tr>
<td>Venkata Ramana Badarla</td>
<td>Wireless Networks, and Cloud Computing</td>
</tr>
<tr>
<td>Head of Department</td>
<td></td>
</tr>
<tr>
<td>Gaurav Harit</td>
<td>Image and Video Analysis</td>
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<tr>
<td>Chiranjoy Chattopadhyay</td>
<td>Computer Vision</td>
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<tr>
<td>Aritra Banik</td>
<td>Computational Geometry</td>
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</tbody>
</table>

The department also has an Adjunct Faculty Member, Professor Venkatesh Raman from Institute of Mathematical Sciences, Chennai.
The Department of Electrical Engineering offers B.Tech. (Electrical Engineering), M.Tech. (Electrical Engineering) and Ph.D. Program with specialization in Electrical Engineering. It has some state-of-the-art laboratory and research facilities.

The following Faculty Members are associated with the department:

<table>
<thead>
<tr>
<th>Name</th>
<th>Research Areas</th>
</tr>
</thead>
</table>
| Anil Kumar Tiwari    | Head of Department  
  Electrical Engineering: Image Processing, Video Processing, and Signal Processing application in Bio-Medical                           |
| Deepakkumar M. Fulwani | Control and state estimation of uncertain systems, Power system, Control issues in wind energy conversion system                             |
| Mahesh Kumar          | Group III-V quantum structures by MBE, Growth of thin films and nanostructures, Group III-nitride alloys for LEDs, HEMTs and photovoltaic applications, Inorganic-Inorganic hybrid structures with special attention to band gap engineering, Si and wide band gap semiconductors for MEMS, Micro and Nano device fabrications |
| Sandeep Kumar Yadav   | Signal Processing, Condition Monitoring, Image Processing, Data Compression, Blind Source Separation, Artificial Neural Network                |
The department also has a Scholar-in-Residence, Professor R. K. Shyama Sunder, who is a Senior Professor and J. C. Bose National Fellow at Tata Institute of Fundamental Research, Mumbai.

Kota V. Murali, Chief Technologist, Semiconductor Research and Development Center, IBM India, Bangalore is associated with the department as an Adjunct Faculty Member.
DEPARTMENT OF HUMANITIES AND SOCIAL SCIENCES

The Department of Humanities and Social Sciences operates from spaces that give us an opportunity to act as an interface between empirical and experiential knowledge systems. Playing a significant role in the academic curriculum of the young engineers, we offer both core and elective courses at the Bachelors, Masters, and Doctoral levels. The ability to provide tools and skills for specific aims notwithstanding, the essence of Humanities and Social Sciences involves the sensitizing of individuals. Acting as facilitators, thus, we engage in meaningful interactions with students and help them witness, study, and understand the interplays among technology, society, and humanity. This task assumes even more significance in an educational context where the brightest young minds of India come together.

With Faculty Members who specialize in diverse disciplines (including Philosophy, Economics, Psychology, and Literature) and with students from a spectrum of backgrounds, the Department provides an enriching platform -where technical education can be complemented with human and social understanding. Following are the faculty members associated with the department:

<table>
<thead>
<tr>
<th>Name</th>
<th>Research Areas</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vidya Sarveswaran</td>
<td><strong>English:</strong> Literature and Environment (Ecocriticism), Film and Literature, Literatures of the Global South, Regional Literatures in Translation, American Literature</td>
</tr>
<tr>
<td></td>
<td><strong>Psychology:</strong> Gerontology, Clinical and Positive Psychology</td>
</tr>
<tr>
<td>Ankita Sharma</td>
<td><strong>Philosophy:</strong> Applied Ethics, Ethics of Technology, Bioethics</td>
</tr>
<tr>
<td>K. J. George</td>
<td><strong>Economics:</strong> Intellectual Property Rights (IPR) and Pharmaceutical Industry, Productivity and Efficiency Analysis, Growth and Regional Development, Inequality Poverty and Social mobility</td>
</tr>
<tr>
<td>Mainak Mazumdar</td>
<td></td>
</tr>
</tbody>
</table>
**Economics:** Health Economics, Health Policy, Applied Econometrics, Development Studies

**Philosophy:** Philosophy of Science, Aesthetics of Design, Formal Logic, Philosophy of Technology

**Philosophy:** Cognitive Studies, Evolutionary Theory, Analytic Philosophy and Mindfulness
Mathematics, being the basis of many disciplines, is a subject that evolves with time and creates new theories and models to solve challenging problems of today. Since its inception, the department has been taking a leading role in developing new methods and models that can be used in diverse areas of computer science, engineering and basic sciences. The department has faculty with research interests in the areas of Mathematical Physics, Scientific Computation, Numerical Analysis, Differential Equations, Topological Dynamics, Low Dimensional Chaos, Dynamical Systems, Renormalization in Low-dimensional dynamics, Wavelet Analysis, Fractional Transform Theory, Image Processing, Financial Risk Analysis, and Categorical Data Analysis.

The department offers at undergraduate and postgraduate levels. It runs a four year B.Tech. Program in System Science, and a Ph.D. Program with specialization in different areas of Mathematics. Following are the Faculty Members associated with the department:

<table>
<thead>
<tr>
<th>Name</th>
<th>Research Areas</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kirankumar R. Hiremath</td>
<td>Theoretical, mathematical and computational aspects of wave-matter interactions</td>
</tr>
<tr>
<td>Prawal Sinha</td>
<td>Mathematical Modeling of Engineering and Bio-systems</td>
</tr>
<tr>
<td>Gaurav Bhatnagar</td>
<td>Wavelet Analysis, Fractional Transform Theory, Multimedia Security, Image Processing, Information Fusion</td>
</tr>
<tr>
<td>Puneet Sharma</td>
<td>Topological Dynamics, Low Dimensional Chaos</td>
</tr>
<tr>
<td>V. V. M. S. Chandramouli</td>
<td>Smooth Dynamical Systems, Renormalization of Unimodal maps and Henon-like maps</td>
</tr>
</tbody>
</table>
Financial Risk Analysis, Categorical Data Analysis, Regression

Vivek Vijay
The desire to contribute to national and global causes such as the solar mission and climate change is at the heart of the academic activities carried out within the Department of Mechanical Engineering. Several application domains of interest in Mechanical Engineering (such as solar energy, automotive technologies and health) motivate Students, Staff Members and Faculty Members.

The B.Tech. Program in Mechanical Engineering commenced in 2008, since the inception of the Institute. Since then three batches have graduated and most of the Alumni are pursuing successful careers in the industry. Some of them have chosen to pursue higher studies in India, Europe and the United States of America.

During the last six years, several collaborative projects have been initiated with a number of industries and research laboratories across India (such as Thermax, Sunborne, Areva, STEAG, BHEL, IOCL, ONGC, BARC, and NFTDC) to pursue research and development in the area of mechanical engineering.

To respond to the diverse needs of students, broad based Bachelors and Masters Programs in Mechanical Engineering are being designed, with scope to let students specialize in interdisciplinary as well as sub-domains of Mechanical Engineering. A Doctoral Program is underway in the Department. Currently, about 10 Ph.D. students are pursuing research in thermal, design and manufacturing streams of Mechanical Engineering. The main objective of the academic programs is to build capacity and capability necessary to make the nation competitive in the globalized world. Also, the students are being made aware of professional skills, such as seeking patentable innovations, taking up technology transfer tasks and active collaboration with industrial partners.

The following Faculty Members are associated with the department:

<table>
<thead>
<tr>
<th>Name</th>
<th>Research Areas</th>
</tr>
</thead>
<tbody>
<tr>
<td>B. Ravindra Head of Department</td>
<td>Design, Dynamics, Vibration and Control</td>
</tr>
<tr>
<td>Akshay Prakash</td>
<td>Computational Fluid Dynamics</td>
</tr>
</tbody>
</table>
Barun Pratiher
Dynamics of Machines and Structures, Flexible Robots, MEMS, Rotor Dynamics, Nonlinear Oscillations

Gaurav Ameta
Computer-Aided Design, Additive Manufacturing, Tolerancing, Sustainable Design and Manufacturing

Kaushalkumar A. Desai
Modeling of Manufacturing Processes, CAD/CAM, CNC Machining, Error compensation

Laltu Chandra
Solar thermal sub-systems (open volumetric air receiver, thermal energy storage, air-water heat exchanger), Thermal hydraulics, Turbulence simulation (DNS/LES/HYBRID/RANS) & model development, Computational Fluid Dynamics.

Prodyut R. Chakraborty
Heat and mass transfer, Latent heat based storage device for high temperature applications, Alloy solidification process, Active and passive solar cooling systems, Electronic cooling

Rahul Chibber
Welding and joining, Manufacturing and materials processing, Mechanical behaviour of materials

Suril V. Shah
Robotics, Multibody Dynamics and Control
A visible research in fundamental Physics along with its applications is the major theme of Physics Department at IIT Jodhpur. The Faculty members carry out research in the field of Astrophysics, Condensed Matter Physics & Material Science, Particle Physics, Experimental and Theoretical Quantum Optics, Quantum Information and Foundations of Quantum Mechanics. The research facilities available in the department include SQUID magnetometer, Physics Property Measurement Systems (PPMS), Raman Spectrometer and Scanning Tunnelling Microscope (STM). Following are the faculty members associated with the department:

<table>
<thead>
<tr>
<th>Name</th>
<th>Research Areas</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subhashish Banerjee</td>
<td>Open Quantum Systems; Quantum Information; Non-Equilibrium Statistical Mechanics; Quantum Optics</td>
</tr>
<tr>
<td>Ambesh Dixit</td>
<td>Semiconductors, multifunctional ferroics &amp; materials for energy-fabrication &amp; characterization, Photovoltaic materials &amp; devices ab initio DFT study and device simulations</td>
</tr>
<tr>
<td>Ashutosh Kumar Alok</td>
<td>Particle Physics and Cosmology</td>
</tr>
<tr>
<td>Monika Sinha</td>
<td>Astrophysics, Astroparticle physics</td>
</tr>
<tr>
<td>Satyajit Sahu</td>
<td>Information Processing in Biological Systems</td>
</tr>
</tbody>
</table>

The department also has a Scholar-in-Residence, Professor K. L. Chopra, Advisor, Thin Film Laboratory, IIT Delhi.
Academic Activities in the Department

Physics Course Curriculum Review Workshop was conducted on 11 April 2015. Professor P. C. Deshmukh (IIT Madras), Professor Rajiv V. Gavai (TIFR Mumbai), Professor P. K. Dutta (IIT Kharagpur), Professor Uma Sankar (IIT Bombay), Professor K. G. Suresh (IIT Bombay), and Professor Deshdeep Sahdev (IIT Kanpur) participated in the workshop. The agenda of the workshop was to discuss the M. Sc. Physics program along with all the courses offered by Department of Physics, IIT Jodhpur.

FOCUS GROUPS

Biologically Inspired System Science (BISS)

Biologically Inspired System Science (BISS) is a stream initiated with the broad objective to design novel, adaptive and sustainable technological solutions inspired by biological systems and processes. The Institute recognises the need for a test-oriented singular education towards a creativity-oriented quality multidisciplinary education, thereby blur existing boundaries between biology and engineering. B.Tech. Program in Biologically Inspired System Science (BISS) is run by this focus group in collaboration with the Department of Biology.

System Science (SS)

The System Science stream was initiated in 2011 to promote and implement interdisciplinary education and research by adopting a holistic systems thinking approach. Its vision is to transform students into trained graduates with the spirit of systems thinking in diverse domains of engineered systems, natural systems, and financial systems. The focus group runs an undergraduate program, B.Tech. in System Science (SS) in collaboration with the Department of Mathematics.
Staff Members

The following are the Staff Members engaged in various Offices and Departments of the Institute.

<table>
<thead>
<tr>
<th>Administrative &amp; Academic Staff Members</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Office of Academics</strong></td>
</tr>
<tr>
<td>Gaurav Nigam  Superintendent</td>
</tr>
<tr>
<td>Abhay Kumar Awasthi  Junior Assistant</td>
</tr>
<tr>
<td>Rashmi Dhyani  Junior Assistant</td>
</tr>
<tr>
<td><strong>Office of Accounts &amp; Internal Audit</strong></td>
</tr>
<tr>
<td>Manish Kumar Bhomia  Assistant Registrar</td>
</tr>
<tr>
<td>Ashish Kachhawaha  Superintendent</td>
</tr>
<tr>
<td>Naresh Chouhan  Junior Superintendent</td>
</tr>
<tr>
<td>Rakesh Kumar  Junior Assistant</td>
</tr>
<tr>
<td>Biswajit Pramanik  Junior Assistant</td>
</tr>
<tr>
<td>Goutam Sethiya  Junior Assistant</td>
</tr>
<tr>
<td><strong>Office of Administration &amp; Establishment</strong></td>
</tr>
<tr>
<td>S. Balachandra Iyer  Registrar</td>
</tr>
<tr>
<td>Amardeep Sharma  Deputy Registrar</td>
</tr>
<tr>
<td>Sandeep Singh Chandel  Superintendent</td>
</tr>
<tr>
<td>Sharad Srivastava  Assistant</td>
</tr>
<tr>
<td>Ajay Kumar Singh  Junior Assistant</td>
</tr>
<tr>
<td><strong>Office of Alumni Relations &amp; Student Placement</strong></td>
</tr>
<tr>
<td>Gurpreet Kaur Virdi  Assistant</td>
</tr>
<tr>
<td><strong>Office of Director</strong></td>
</tr>
<tr>
<td>Darsh Kumar Khatwani  Assistant</td>
</tr>
<tr>
<td>T. Madhavi Lata  Stenographer (on Deputation to IIT Tirupati)</td>
</tr>
<tr>
<td><strong>Office of Infrastructure Engineering</strong></td>
</tr>
<tr>
<td>Sanjeeb Mukherjee  Executive Engineer (Civil)</td>
</tr>
<tr>
<td>Chandresh Pareek  Junior Engineer (Civil)</td>
</tr>
<tr>
<td>Vinay Kumar  Junior Engineer (Electrical)</td>
</tr>
<tr>
<td><strong>Office of Library</strong></td>
</tr>
<tr>
<td>Kshema Prakash  Deputy Librarian</td>
</tr>
<tr>
<td>Amit Kumar Soni  Senior Library &amp; Information Assistant</td>
</tr>
<tr>
<td>Chunni Chhatwani  Senior Library &amp; Information Assistant</td>
</tr>
<tr>
<td>Kamleshkumar J. Patel  Senior Library &amp; Information Assistant</td>
</tr>
<tr>
<td><strong>Office of Planning</strong></td>
</tr>
<tr>
<td>Amardeep Sharma  Deputy Registrar (Planning)</td>
</tr>
<tr>
<td>Trilotama Singh  Junior Assistant</td>
</tr>
<tr>
<td>Office of Recruitment</td>
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<tr>
<td>-------------------------------</td>
</tr>
<tr>
<td>Sandeep Pareek</td>
</tr>
<tr>
<td>Achinta Mondal</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Office of Students</th>
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</thead>
<tbody>
<tr>
<td>Dhani Ram Choudhary</td>
</tr>
<tr>
<td>Swati Kushwaha</td>
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</table>

<table>
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<tr>
<th>Office of Stores &amp; Purchase</th>
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</thead>
<tbody>
<tr>
<td>Sharabh Pradhan</td>
</tr>
<tr>
<td>Adarsh Kumar Srivastava</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Technical Staff Members</th>
</tr>
</thead>
</table>

**Department of Computer Science & Engineering**
- Rimpesh Katiyar | Technical Superintendent
- Dheerendra Kumar Yadav | Junior Technical Superintendent
- Rinkesh Kumar Mangal | Junior Technical Superintendent
- Poonam Chand Sankhla | Junior Technical Superintendent
- Ram Singh Ratnu | Technician
- Vivek Verma | Junior Technician

**Department of Electrical Engineering**
- Gajraj Sharma | Junior Technician
- Hemraj Dhodhawat | Junior Technician
- Kailash Chander | Junior Technician
- Abhishek Sharma | Junior Technician

**Department of Mechanical Engineering**
- Praveen Suthar | Junior Technician
- Bhagya Wardhan | Junior Technician
- Rambeer Singh | Junior Technician

**Department of Biology**
- Bharat Pareek | Junior Technical Superintendent
- Mohan Mukesh Malviya | Junior Technician

**Department of Chemistry**
- Ganpat Chowdhary | Junior Technician
- Shubham Pandey | Junior Technician

**Department of Physics**
- Narendra Kumar Singh | Technical Superintendent
ACADEMICS

Academic Programs

Currently, the Institute offers the following four sets of Programs:

1. Bachelor of Technology Programs:
   1. B.Tech. (Computer Science and Engineering)
   2. B.Tech. (Electrical Engineering)
   3. B.Tech. (Mechanical Engineering)

2. Master of Science Programs
   1. M.Sc. (Chemistry)
   2. M.Sc. (Mathematics)
   3. M.Sc. (Physics)

3. Master of Technology Programs
   1. M.Tech. (Electrical Engineering)
   2. M.Tech. (Mechanical Engineering)

4. Doctor of Philosophy Programs
   1. Ph.D. with specialisation in Computer Science & Engineering
   2. Ph.D. with specialisation in Electrical Engineering
   3. Ph.D. with specialisation in Mechanical Engineering
   4. Ph.D. with specialisation in Biology
   5. Ph.D. with specialisation in Chemistry
   6. Ph.D. with specialisation in Mathematics
   7. Ph.D. with specialisation in Physics
   8. Ph.D. with specialisation in Humanities & Social Sciences

First set of Ph.D. Theses

IIT Jodhpur opens its account, with four students successfully defending their Ph.D. theses during this year. Following are the details.

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Name of the Student</th>
<th>Title of Thesis</th>
<th>Supervisor</th>
<th>Department</th>
<th>Date of Defense</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Sandeep Yadav</td>
<td></td>
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<tr>
<td>4.</td>
<td>Deepak Kumar Chhangani</td>
<td>Role of MGRN1 E3 Ubiquitin Ligase in Protein Quality Control Mechanism and Polyglutamine Diseases</td>
<td>Amit Kumar Mishra</td>
<td>Biology</td>
<td>7 January 2016</td>
</tr>
</tbody>
</table>
Collaborations with Academia

The Institute has signed Memoranda of Understanding (MoUs) with six international universities, two international agencies, three national institutes and universities, and one national agency for furthering cooperation on specific fronts. These MoUs are:

(a) **International Institutes and Universities**

1. **University of Western Ontario, Canada (9 August 2010)**
   To explore the possibilities for cooperation in education, training, and research and also to encourage direct contact and mutual cooperation between faculty members, departments, and research centers.

2. **Universitat Rovira i Virgili, Tarrgona, Spain (29 August 2010)**
   For the development of mutually beneficial academic program and courses; coordination of academic staff travel for the purposes of teaching, research, and training; cooperation of student mobility program for study, research, and for joint academic activities such as research publications, conferences and symposia; exchange of documentation and research materials in the field of mutual interest provided that there are no legal barriers against exchange and collaboration in international master’s and doctoral programs between both the institutions.

3. **University of Waterloo, Canada (25 November 2010)**
   For collaborative measures to foster international experience and advancement of knowledge on the basis of reciprocity, mutual benefit, interaction and exchange of students in graduate programs.

4. **University of Manitoba, Canada (9 December 2010)**
   For the development of mutually beneficial programs for student internships and graduate study in order to provide students opportunities for advancement of knowledge and international experience.

5. **University of California, Merced (26 April 2011)**
   For the development of mutually beneficial relationships for promoting academic exchange, scholarly cooperation, and collaborations under mutually agreeable terms and conditions: the exchange of faculty members, scientists and students and scientific material, access to library resources, pursuit of joint meetings, symposia and/or conferences and access to laboratories as may be appropriate and feasible in the two institutes.

6. **Arid Forest Research Institute, Jodhpur, India (15 August 2011)**
   For the development of sheltering belt plantation as urban forestry model for at a selected site at IIT Jodhpur.

7. **Institute of Science and Technology, Nara, Japan (28 February 2012)**
   To promote academic exchanges in fields where each party needs to enhance its educational and academic programs: the academic exchanges will include, implementation of collaborative research, joint symposia, lectures and education and exchange of scholars, researchers, and administrative staff; exchange of information in fields which are of interest to both parties and exchange of graduate students in fields of interest to both parties.
## (b) International Agencies

1. *The Commissariat a l’Energie Atomique et aux Energies Alternatives, France (22 November 2010)*
   
   To cooperate in areas of solar energy research, such as Concentrated Solar Power (CSP) and Concentrated Photovoltaic (CPV), water production by using solar energy, renewable energy storage and smart management, integration of solar energies and energy efficiency in buildings.

2. *Embassy of France in India (28 March 2011)*
   
   To explore prospective domains for students and scholars to learn French language effectively.

## (c) National Institutes and Universities

1. *All India Institute of Medical Sciences, Jodhpur*
   
   To collaborate in various academic activities in the spheres of expertise.

2. *National Law University, Jodhpur*
   
   To collaborate in various academic activities in the spheres of expertise.

   
   To promote academic exchanges in fields where each party needs to enhance its educational and academic programs.
Collaborations with Industry

IIT Jodhpur has initiated to collaborate with industry towards enhancing the learning experience of students and collaboration opportunities for Faculty Members. These include:

1. Vanguard Lectures; and
2. Industry Immersion Program.

Vanguard Lectures

The Vanguard Lecture Series is an integral part of Blended B.Tech. Program. It enables the Students to listen to inspirational talks given by experts from Industry and Academia, and to get a big-picture of the technological advances and emerging trends in different fields.

In the year 2015, two more series of Vanguard Lectures were organised since July 2015, namely:

1. Series 3: July - September 2015, and

The following are the details of speakers and topics covered in the two series.

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Speaker &amp; Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Series 3: July – September 2015</strong></td>
<td></td>
</tr>
<tr>
<td>(1)</td>
<td>Mr. N. Jayaram</td>
</tr>
<tr>
<td></td>
<td>Vice President, Research and Development</td>
</tr>
<tr>
<td></td>
<td>TVS Motor Company Limited, Hosur</td>
</tr>
<tr>
<td></td>
<td>“New Product Development (Simulation Way)”</td>
</tr>
<tr>
<td></td>
<td>27 July 2015</td>
</tr>
<tr>
<td>(2)</td>
<td>Dr. Arunkumar M. Sampath</td>
</tr>
<tr>
<td></td>
<td>General Manager, Product Development, Auto Division</td>
</tr>
<tr>
<td></td>
<td>Mahindra &amp; Mahindra Limited, Chennai</td>
</tr>
<tr>
<td></td>
<td>“Innovation and Product Development in Automotive Sector”</td>
</tr>
<tr>
<td></td>
<td>31 July 2015</td>
</tr>
<tr>
<td>(3)</td>
<td>Mr. M. Paranjpe</td>
</tr>
<tr>
<td></td>
<td>Chief, Hydro &amp; Renewable Operations and Safety</td>
</tr>
<tr>
<td></td>
<td>Tata Power Company Limited, Khopoli</td>
</tr>
<tr>
<td></td>
<td>“Hydropower Plant Challenges”</td>
</tr>
<tr>
<td></td>
<td>3 August 2015</td>
</tr>
<tr>
<td>(4)</td>
<td>Dr. Sachin P. Lodha</td>
</tr>
<tr>
<td></td>
<td>Principal Scientist, TCS’s Innovation Labs</td>
</tr>
<tr>
<td></td>
<td>Tata Consultancy Services, Pune</td>
</tr>
<tr>
<td></td>
<td>“Applied Algorithms”</td>
</tr>
<tr>
<td></td>
<td>4 August 2015</td>
</tr>
</tbody>
</table>
(5) Mr. Pranab Ghosh  
Head, Planning  
Tata Motors Limited, Jamshedpur  
“Automotive Manufacturing”  
5 August 2015

(6) Dr. Barun Chakrabarti  
General Manager, Research & Development  
Larsen & Toubro Hydrocarbon Engineering Limited, Mumbai  
“Engineering – From Class Room to Real World : The L&T Perspective”  
7 August 2015

(7) Professor S. Natarajan  
Professor, Indian Institute of Science, Bangalore  
“Permanent Color and Chemistry”  
4 September 2015

Series 4: January – May 2016

(1) Professor Navneet Arora  
Professor, Indian Institute of Technology Roorkee  
“Excellence in Engineering and Expectations from an Engineer”  
7 January 2016

(2) Mr. Anil Bhansali  
MD, Microsoft India (R&D) Private Limited and General Manager, Cloud & Enterprise  
Microsoft India Development Center  
&  
Mr. Prashant Gupta  
Director, Microsoft Cloud & Enterprise Division  
Microsoft India Development Center  
“Advanced Analytics and Machine Learning on Cloud – Creating impact for Education, Healthcare and other domains”  
25 January 2016

(3) Professor Amitabha Ghosh  
Platinum Jubilee Senior Scientist, The National Academy of Sciences, India  
Former Director, Indian Institute of Technology Kharagpur  
“Conceptual Evolution of Newtonian Mechanics & The Little Known Story of F=ma”  
4 February 2016

(4) Professor Raghunath K. Shevgaonkar  
Professor, Indian Institute of Technology Bombay  
Former Director, Indian Institute of Technology Delhi  
“Electromagnetic Theory “  
22 February 2016
Industry Immersion Program

In July 2014, when the Institute launched the blended Technical Education model at the B.Tech. level, the intent was to inspire students to build passion for technology to solve the grand technology challenges of the Indian Industry. One of the elements of the model is to have industry captains give the first lectures of each course to lay the cornerstone by giving the big-picture of sectoral technologies, industry needs and research opportunities. The model gained momentum with Vanguard Lecture Series, and now this has become a distinctive feature of the blended Technical Education Model for the B.Tech. Program of the Institute. Then, this was followed by the Grand Technology Projects (GTPs) Competition during January-March 2015, and interested students showed special excitement. Most students are now seeing merit in converting their B.Tech. Projects to GTPs.

Currently, five industry partners have joined the Industry Immersion Program at the B.Tech. level, namely:
(1) Mahindra & Mahindra Limited, Mumbai;
(2) Larsen & Toubro Limited, Mumbai;
(3) Tata Motors Limited, Mumbai;
(4) TVS Motor Company Limited, Chennai; and
(5) Tata Power Limited, Mumbai.

Beginning 11 May 2015, 31 Students and 5 Faculty Members immersed inside these leading technology Industries as the first of the three successive summer engagement. The key features of this Industry Immersion Program (IIP) include:

(a) For Students: Learning-by-doing, Experiential and cooperative learning, Working on live assignments under the tutelage of industry professionals, and Engaging in industry-supported projects spanning over 2½ years starting IV semester.

(b) For the Institute: Faculty Members will be able to look beyond the Institute and develop linkages with Industry; Course curricula will become more real – a silent advantage; Faculty Members will have opportunities for research and consultancy projects that are current and impactful; and greater sensitivity to integrate industry needs in academia, to benchmark students and Faculty Members from Industry perspective, and to reflect and undertake needed correction in strategies of the Institute.

By choosing to join the Industry Immersion Program, select students have chosen a path different from others. It will put them on a pedestal of competence and accomplishments - beyond the qualification by the B.Tech. Degree.
RESEARCH

IIT Jodhpur becomes one of the five IITs in DBT-Pan IIT Center for Bioenergy

The Department of Biotechnology (DBT), Ministry of Science & Technology, Government of India, and five IITs, namely, IIT Bombay, IIT Kharagpur, IIT Roorkee, IIT Guwahati, and IIT Jodhpur, have come together to launch a virtual Center for Bioenergy. IIT Bombay will coordinate the activities of this virtual center. The main objective of this Center is to develop advanced technologies in the area of biofuels, paving the way for a sustainable solution to the energy crisis. Also, the Center aims to develop a mutually beneficial relationship with the bio-energy industry in India.

V. Narayanan, Coordinator (Research & Development), IIT Jodhpur, represented the Institute at the signing of the Memorandum of Agreement (MoA), at IIT Bombay on 3 September 2015.

Faculty Members at IIT Jodhpur working on Bio Fuels

Biomass, or bio-energy, has been acknowledged as a renewable energy source that can replace fossil fuels, with the added bonus that the biomass can absorb carbon dioxide from the atmosphere and reduce the greenhouse effect. Bio-fuel, obtained either from microbial fermentation or from the pyrolysis of biomass in an inert gas atmosphere, has a significant appeal for use in transportation fuels, both economically and technologically. Algae can produce more oil than other biofuel feed stocks. The bottle neck of this technology is to devise cultivation methods for algae which can support higher growth rates and oil productivities, efficient methods to convert algae oil to fatty acid methyl esters (biodiesel) or to develop a “Right Catalyst” that can convert biomass to fuel (bio) for the current technology.

“Catalytic Upgrading of Algae Biomass to Transport Fuel” is the project Rakesh K. Sharma, Assistant Professor is working on. This research aims to develop new and efficient heterogeneous catalytic systems for conversion of algae biomass to transport fuel via tandem hydrocracking followed by Hydrodenitrogenation and/or hydrodeoxygenation processes. These heterogeneous catalytic systems based on metals
nanoparticles supported/intercalated/layered in zeolites and clays. Successful catalysts are aimed to be green, recyclable and scalable (kilogram level). These catalysts will be sulphide free non noble metal catalysts. In next phase, the substrate applications will be extended from algal-oil to edible and non-edible oils. The reactions will be essentially carried out at two operating conditions, for mild (50-200°C, 100 bar) and deep hydrotreatment (200-350°C, 200 bar). Mechanistic studies of these catalytic processes will be focal point to design a better catalyst.

“Development of low cost Microbial carbon capture cells for power generation and algae cultivation” is the project Meenu Chhabra, Assistant Professor, Department of Biology, is working on. Bio-fuels from algae have a potential to completely replace fossil based fuels and provide energy security for the future. However, the cost of algae bio-fuels is still too high for commercial application. In this context, a process for the production of algae and electrical energy using microbial carbon capture (MCC) cells is proposed. In MCC cells, the process of algae biomass degradation complements the process of algae biomass production with concomitant power generation.

These two projects together, which are funded by Department of Biotechnology, Government of India, are likely to offer an exciting technology proposition of offering non-fossil fuels for the nation.
R & D Projects

The Faculty Members in the Institute are currently working on 47 sponsored research projects. Their details are:

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Project Title</th>
<th>Department</th>
<th>PI:</th>
<th>Grant Amount (Lakhs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Identification, assessment and characterization of E3 ubiquitin ligases implicated in the neurodegenerative diseases</td>
<td>Department of Biotechnology (DBT), Government of India</td>
<td>Amit Mishra</td>
<td>74.5</td>
</tr>
<tr>
<td>2</td>
<td>Understanding the molecular function of MGRN1 in Chaperone Mediated Autophagy</td>
<td>Department of Biotechnology (DBT), Government of India</td>
<td>Amit Mishra</td>
<td>41.19</td>
</tr>
<tr>
<td>3</td>
<td>How AMFR gene regulates cell division and cancer after stress exposure?</td>
<td>Board of Research in Nuclear Sciences (BRNS), DAE, Government of India</td>
<td>Amit Mishra</td>
<td>23.9</td>
</tr>
<tr>
<td>4</td>
<td>Self-assembly of collagen peptides as foundational knowledge for cardiovascular disease</td>
<td>Board of Research in Nuclear Sciences (BRNS), DAE, Government of India</td>
<td>Karunakar Kar</td>
<td>18.43</td>
</tr>
<tr>
<td>5</td>
<td>Bioremediation of low level wastes including denitrification using microbial fuel cells</td>
<td>Board of Research in Nuclear Sciences (BRNS), DAE, Government of India</td>
<td>Meenu Chhabra; Co-PI: Atul Kumar</td>
<td>23.73</td>
</tr>
<tr>
<td>6</td>
<td>Development of low cost Microbial Carbon capture (MCC) cells for algae cultivation and powers generation</td>
<td>Department of Biotechnology (DBT), Government of India</td>
<td>Meenu Chhabra</td>
<td>172</td>
</tr>
<tr>
<td>7</td>
<td>Deposition of particulate matter in lungs</td>
<td>Board of Research in Nuclear Sciences (BRNS), DAE, Government of India</td>
<td>Sushmita Jha</td>
<td>24.79</td>
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<tr>
<td>8</td>
<td>Role of the inflammasome associated proteins in glioma</td>
<td>Science and Engineering Research Board (SERB), DST, Government of India</td>
<td>Sushmita Jha</td>
<td>22.30</td>
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<tr>
<td>9</td>
<td>Dual scale simulations of surfactant, co-surfactant water system</td>
<td>Science and Engineering Research Board (SERB), DST, Government of India</td>
<td>Ananya Debnath</td>
<td>21.7</td>
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<td>Project Number</td>
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<td>Amount</td>
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<td>10</td>
<td><strong>Chemical Dynamics Simulations of Complex Organic Reactions</strong></td>
<td>Science and Engineering Research Board (SERB), DST, Government of India</td>
<td>Manikandan Paranjothy</td>
<td>Rs. 18.7 Lakhs</td>
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<tr>
<td>11</td>
<td><strong>Generation, Storage and Distribution of Solar Hydrogen</strong></td>
<td>Department of Science &amp; Technology (DST), Government of India</td>
<td>Rakesh Kumar Sharma</td>
<td>Rs. 39.63 Lakhs</td>
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<tr>
<td>12</td>
<td><strong>Asymmetric Hydrogenation on Carbon Nanotube Surface</strong></td>
<td>Department of Science &amp; Technology (DST), Government of India</td>
<td>Rakesh Kumar Sharma</td>
<td>Rs. 25.25 Lakhs</td>
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<td>13</td>
<td><strong>Molecular Sensors: Synthesis and Anion Recognition Studies</strong></td>
<td>Science and Engineering Research Board (SERB), DST, Government of India</td>
<td>Rakesh Kumar Sharma</td>
<td>Rs. 27 Lakhs</td>
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<tr>
<td>14</td>
<td><strong>Catalytic Upgrading of Bio-Oil to Transport Fuel</strong></td>
<td>Department of Biotechnology (DBT), Government of India</td>
<td>Rakesh Kumar Sharma</td>
<td>Rs. 94.79 Lakhs</td>
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**Department of Computer Science & Engineering**

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<th>Amount</th>
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<td>15</td>
<td><strong>Energy Efficient Technologies for Smart Buildings</strong></td>
<td>The Indo-US Science and Technology Forum (IUSSTF), Department of Science &amp; Technology, Government of India</td>
<td>Venkata Ramana Badarla</td>
<td>Rs. 1.3 Crores</td>
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**Department of Electrical Engineering**

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<td>16</td>
<td><strong>Enabling Technologies for Intelligent Wireless Sensor Network for Health and Environment Monitoring</strong></td>
<td>Department of Science &amp; Technology (DST), Government of India</td>
<td>Anil Kumar Tiwari</td>
<td>Rs. 75 Lakhs</td>
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<tr>
<td>17</td>
<td><strong>Visveswaraya Ph.D. Scholarship scheme for Electronics &amp; IT</strong></td>
<td>Department of Electronics &amp; Information Technology (DeitY), Government of India</td>
<td>Anil Kumar Tiwari</td>
<td>Rs. 16.25 Lakhs</td>
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<th>Amount</th>
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<tr>
<td>18</td>
<td><strong>Computationally efficient fixed complexity sphere decodes for multiuser MIMO communications</strong></td>
<td>Science and Engineering Research Board, Department of Science &amp; Technology, Government of India</td>
<td>Arun Kumar Singh</td>
<td>Rs. 22.82 Lakhs</td>
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<th>PI</th>
<th>Amount</th>
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<tbody>
<tr>
<td>19</td>
<td><strong>Development of Programmable Emulator for Photovoltaic Plant to Facilitate Complex Testing Requirements</strong></td>
<td>Science and Engineering Research Board (SERB), DST, Government of India</td>
<td>Deepakkumar M. Fulwani</td>
<td>Rs. 9.48 Lakhs</td>
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</table>
(20) **Development of Metal Doped TiO$_2$ Low Dimension Structures by Sputtering for Gas Sensing Applications**  
Board of Research in Nuclear Sciences, Department of Atomic Energy, Government of India  
PI: Mahesh Kumar  
Rs. 17.46 Lakhs

(21) **Ion-Beam Synthesis and Characterization of Gallium Nitride Based Nanocrystals embedded in Si based Matrices for New-Generation Photodetector and Light-Emitter Applications**  
Department of Science & Technology (DST), Government of India  
PI: Mahesh Kumar  
Rs. 55.72 Lakhs

(22) **Development of mems based gas sensors using RF sputtered transition metal doped ZnO Nanostructures**  
Science and Engineering Research Board, Department of Science & Technology (DST), Government of India  
PI: Mahesh Kumar  
Rs. 24.17 Lakhs

(23) **Development of Tunable RF Filter Based on Ferroelectric Thin Film by Sputtering**  
Indian National Science Academy  
PI: Mahesh Kumar  
Rs. 5 Lakhs

(24) **Reproductive Child Health**  
UNICEF, Jaipur Branch  
PI: Sandeep Kumar Yadav  
Rs. 38.52 Lakhs

(25) **Algorithms for Blind Signal Detection and Demodulation**  
Defense Research & Development Organization (DRDO), Jodhpur, Government of India  
PI: Sandeep Kumar Yadav  
Rs. 55.24 Lakhs

(26) **Developing Dielectric Semiconductor Combinations and Processes for Flexible Organic Electronics**  
Science and Engineering Research Board (SERB), DST, Government of India  
PI: Shree Prakash Tiwari  
Rs. 12.84 Lakhs

(27) **Design of a sensor signal conditioning system(I) & multiprocessor Scheduling Algorithms using control theoretic Approach(II)**  
Department of Electronics & Information Technology (DeitY), Government of India  
PI: Shree Prakash Tiwari  
Rs. 99.72 Lakhs

(28) **Encapsulation of Organic devices by atomic layer deposition(DRDO CAR Proposal)**  
Defense Research & Development Organization (DRDO), Jodhpur, Government of India  
PI: Shree Prakash Tiwari  
Rs. 9.96 Lakhs

**Department of Humanities & Social Sciences**

(29) **Wisdom as cognitive and motivational-emotional heuristics in ecologically rational decision making**  
Department of Science & Technology, Government of India  
PI: Ankita Sharma  
Rs. 22.3 Lakhs
(30) **Where the Bougainvillea Blooms: Stories of Place from a Resilient Landscape**  
M. R. A. R. Educational Foundation  
*Pl:* Vidya Sarveswaran  
**Rs. 0.5 Lakhs**

**Department of Mathematics**

(31) **Multimedia security based on biometrics for copyright protection and authentication**  
*Science and Engineering Research Board, DST, Government of India*  
*Pl:* Gaurav Bhatnagar  
**Rs. 22 Lakhs**

**Department of Mechanical Engineering**

(32) **Bifurcation and Stability Assessment of a Highly Lightweight Rotor-Bearing System with Moving Platform**  
*Science and Engineering Research Board (SERB), DST, Government of India*  
*Pl:* Barun Pratiher  
**Rs. 21.8 Lakhs**

(33) **Establishment of the Centre of Excellence in Solar Thermal Research and Education**  
*Ministry of New & Renewable Energy, Government of India*  
*Pl:* Laltu Chandra  
**Rs. 40 Crores**

(34) **IOC-BHEL-IITJ CSP Plant**  
*Indian Oil Corporation Ltd.*  
*Pl:* Laltu Chandra  
**Rs. 60 Lakhs**

(35) **Thermal Design of PCM Cool and Warm Vest**  
*Defense Research & Development Organization (DRDO), Jodhpur, Government of India*  
*Pl:* Prodyut Ranjan Chakraborty  
**Rs. 9.96 Lakhs**

(36) **Hybrid reactionless manipulation and visual serving of a satellite mounted robot for autonomous on orbit services**  
*Department of Science & Technology (DST), Government of India*  
*Pl:* Suril Vijaykumar Shah  
**Rs. 35 Lakhs**

(37) **Singularity free reactionless manipulation of a satellite mounted dual-arm robot for capture of tumbling orbiting object**  
*Department of Science & Technology (DST), Government of India*  
*Pl:* Suril Vijaykumar Shah  
**Rs. 24.77 Lakhs**

**Department of Physics**

(38) **Development of III-Nitrides film(s) for high frequency saw device applications**  
*Department of Space, Government of India*  
*Pl:* Ambesh Dixit  
**Rs. 22.62 Lakhs**

(39) **Development of Ferroelectric and their composite with hexaferrites for microwave absorption applications**  
*Defense Research & Development Organization (DRDO), Jodhpur, Government of India*  
*Pl:* Ambesh Dixit  
**Rs. 9.55 Lakhs**
(40) **Investigation of Magnetolectric coupling in Cu1-xTMxO Multiferroic System**  
Board of Research in Nuclear Sciences (BRNS), DAE, Government of India  
PI: Ambesh Dixit  
Rs. 23.42 Lakhs

(41) **Development of plasmonic metal hybrid electrode system for II-VI quantum dot sensitized solar cells (QDSSCs) realization of carrier multiplication for better efficiency**  
Department of Science & Technology (DST), Government of India  
PI: Ambesh Dixit  
Rs. 32.87 Lakhs

(42) **Development of high thermal conductivity PCM composites for thermal management**  
Defense Research & Development Organization (DRDO), Jodhpur, Government of India  
PI: Ambesh Dixit  
Rs. 9.8 Lakhs

(43) **Design and development of high capacity and low cost Li2TMSiO4(TM=transition metals) silicate materials for future rechargeable lithium ion battery**  
Department of Science & Technology (DST), Government of India  
PI: Ambesh Dixit  
Rs. 23.88 Lakhs

(44) **Probing Magnetic Structures and Spin Flop transition in bulk and nanostructured FeVo4 Multiferroic System**  
UGC-DAE, Department of Science & Technology (DST), Government of India  
PI: Ambesh Dixit

(45) **Hunting of New Physics Through b-> S Transitions**  
Council of Scientific & Industrial Research (CSIR), Government of India  
PI: Ashutosh K. Alok  
Co-PI: Subhashish Banerjee  
Rs. 11.92 Lakhs

(46) **Synchrony Based Evolution of Various Biological and Artificial Systems to Understand Complex Computational Aspects**  
Department of Science & Technology (DST), Government of India  
PI: Satyajit Sahu  
Rs. 35 Lakhs

(47) **Graph Theoretical Aspects in Quantum Information Processing**  
Council of Scientific and Industrial Research (CSIR), Government of India  
PI: Subhashish Banerjee  
Rs. 9.92 Lakhs
Patents & Publications

In 2015-16, our Faculty Members have filed 2 patents, published 75 research papers and articles in scholarly journals; 20 of their works have been covered as conference presentations and in conference proceedings; 10 preprints and 4 book chapters have been contributed.

<table>
<thead>
<tr>
<th>Department</th>
<th>Patents Filed</th>
<th>Journal Articles</th>
<th>Conference Papers</th>
<th>Preprints</th>
<th>Book Chapters</th>
<th>Total</th>
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<tr>
<td>Biology</td>
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<td>3</td>
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<tr>
<td>Computer Science &amp; Engineering</td>
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<td>Electrical Engineering</td>
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<tr>
<td>Humanities &amp; Social Sciences</td>
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<tr>
<td>Mathematics</td>
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<td>Mechanical Engineering</td>
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<tr>
<td>Physics</td>
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<td><strong>75</strong></td>
<td><strong>20</strong></td>
<td><strong>10</strong></td>
<td><strong>4</strong></td>
<td><strong>112</strong></td>
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</table>

Category-wise Break up of Scholarly Publications

- Journal Articles: 68%
- Conference Papers: 18%
- Preprints: 9%
- Book Chapters: 3%
- Patents Filed: 2%
The following is the department-wise list of patents and publications.

**Department of Biology**

**Journals Articles**


1. **Title**

“Real-time Calibration free water quality sensor (Device and System)”

**Inventors**
Rakesh K. Sharma (IIT Jodhpur) & Hareesh, P. V. (Panasonic Corporation, Japan)

**Patent Reference Number (Provisional)**
1468/CHE/2015

**Date**
23 March 2015

2. **Title**

“Metal Nanoparticles Intercalated Clay for Solvent Free Hydrogenation of Squalene into Squalane”

**Inventors**
Rakesh K. Sharma & Vineet K. Soni

**Patent Application Number**
201611009866

**Date**
21 March 2016

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http://doi.org/10.1007/s11128-016-1295-y


http://doi.org/10.1007/s11172-014-0676-6


http://doi.org/10.1080/19443994.2014.957936


http://doi.org/10.1021/acs.jpcb.5b02101


http://doi.org/10.1039/C5CP01140J


http://doi.org/10.1007/s10895-015-1654-6


http://doi.org/10.1039/C5RA17119A


Conference Papers


Department of Computer Science & Engineering

Journal of Articles


   http://doi.org/10.1109/ANTS.2015.7413632


**Conference Papers**


Department of Humanities and Social Sciences

Journal Articles


Conference Papers


Department of Mathematics

Journal Articles


Conference Papers


Preprints


Book Chapters


Department of Mechanical Engineering

Journal Articles


Conference Papers


Book Chapters


Department of Physics

Journal Articles


Preprints


Conference Papers

Awards & Recognitions

Department of Biology
1. Amit Kumar Mishra, Assistant Professor, Department of Biology, IIT Jodhpur, has been chosen by Indian National Science Academy (INSA) Council as one of the Founding Members of the Indian National Young Academy of Science (INYAS). Their term will be for a period of five years, up to 31 December 2019.

2. Amit Kumar Mishra, Assistant Professor, Department of Biology, IIT Jodhpur, has been selected for the "Young Researcher Award" in the category of (Cellular and Molecular Neuroscience) of the Venus International Foundation Faculty Awards (VIFFA) 2015. This award will be presented to him at the VIFFA 2015 event.

3. Amit Kumar Mishra, Assistant Professor, Department of Biology, IIT Jodhpur, has been conferred the 2014 Young Scientist Award by the Biotech Research Society of India (BRSI). This honour was conferred on him during the International Conference on New Horizons in Biotechnology at CSIR-National Institute for Interdisciplinary Science and Technology, Thiruvananthapuram, held during 22-25 November 2015.

4. For his research contributions, the New York Academy of Sciences has launched Amit Kumar Mishra’s profile on their website.

Department of Electrical Engineering
1. Mahesh Kumar, Assistant Professor, Department of Electrical Engineering, IIT Jodhpur, has been chosen by Indian National Science Academy (INSA) Council as one of the Founding Members of the Indian National Young Academy of Science (INYAS). Their term will be for a period of five years, up to 31 December 2019.

2. Mahesh Kumar, Assistant Professor, Department of Electrical Engineering, has been selected by the Materials Research Society of India (MRSI) to receive the MRSI Medal for 2016. The medal will be presented to him during the Annual General Meeting of MRSI to be held at Jorhat, Assam, during 18-20 February 2016. The MRSI is an interdisciplinary society founded in 1989 by Bharat Ratna Professor C. N. R. Rao, who is dedicated to the field of materials science and engineering in India. The Society is committed to stimulate and integrate research in the field of materials for rapid industrial progress in the country.

3. Shree Prakash Tiwari, Assistant Professor, Department of Electrical Engineering has been elevated as Senior Member of the Institute of Electrical and Electronics Engineers (SMIEEE) as an honour to his contribution to the profession.

Department of Physics
1. Satyajit Sahu’s (Assistant Professor, Department of Physics) research work on finding signatures of hidden information processing network, received recognition and has appeared in Scientific Reports published by Nature Publishing Group.

2. Ashutosh K. Alok, Assistant Professor, and Subhashish Banerjee, Assistant Professor and Head of the Department received international recognition for their work on Probing Signatures of Quantum Gravity. They, along with S. Uma Sankar (IIT Bombay) are working on “Probing signatures of quantum gravity like background at LHCb and B-factories”. This work opened the doors for probing some very fundamental aspects of nature such as quantum gravity background by measuring observables in flavor physics which are mainly used to probe new physics models beyond Standard Model. Their work “Re-examining sin 2β and Δm2 from evolution of B0d mesons with decoherence” has been published in Physics Letters B, a renowned journal in the field of particle physics. Also, the work was presented at the prestigious European Physical Society’s Conference on High Energy Physics, held at the University of Vienna, Austria in July 2015.
Outreach

The following Outreach activities have been undertaken by the Faculty Members at IIT Jodhpur during the FY 2015-16.

Undergraduate Research Initiative

IIT Jodhpur started the Undergraduate Research Initiative (UGRI) Program in 2011 with the objective of promoting research and innovation among undergraduate students. This program is organised every summer; it helps participating students improve their professional knowledge and skills. Students from across the country were encouraged to participate in the UGRI Program. 18 students participated in the UGRI 2015. Students were selected on the basis of their academic achievements and the merit of the research proposal submitted by them, be it an analytical one or an experimental one. It began on 11 May 2015 and ended on 10 July 2015. Selected students were provided accommodation in Students’ Hostel at IIT Jodhpur. During this period, the participating students were offered a token financial assistance to meet their basic expenses. During this 10 week program, the students worked on their projects under the mentorship of Faculty Members at IIT Jodhpur.

Ishaan Vikaas Program

A special program in the name of Ishaan Vikaas, an initiative of the Ministry of Human Resource Development, has been launched as a comprehensive plan to bring selected school girls and boys, from the North-Eastern states into close contact with the IITs and IISERs during their vacation periods with the objective of opening up the young minds and giving them a broad overview of the future paths which they would like to traverse. They should get a wider perspective on how they can take a much more proactive role in shaping their own future. At the same time, as a part of Ishaan Vikaas, an academic activity will take place to encourage internship for the engineering college students of North-Eastern states in various institutes of national importance.

From this year onwards, IIT Jodhpur has taken part in this Government’s mission to give whole-hearted support for the success of this Program. The Institute has organized the Program twice this year, during summer and winter.

During this summer, about 40 school children, accompanied by 7 teachers and 5 B.Tech. Students, accompanied by one Faculty Member have visited IIT Jodhpur for two weeks (30 June - 9 July, 2015) and eight weeks, respectively. In this context, a schedule has been prepared for the school children, while each visiting B.Tech. Student has been assigned a well-defined research problem under the mentorship, guidance and supervision of the Faculty Members of respective department.

During 12-24 December 2015, the Institute has hosted about 47 school children accompanied by 6 teachers from various regions of the North-East. A well-defined schedule was maintained to meet the requirements. The schedule maintained for the program encompassed not only the domains of science and technology but also highlighting various facets of humanities and social sciences. Visits to the state-of-the-art laboratories for hands-on experience followed by the lectures. In addition, visit to the Defense Laboratory, Jodhpur and the Central Arid Zone Research Institute (CAZRI) was also included as a part of this program. The program ended with a visit to various local places of visit in Jodhpur.
Rashtriya Avishkar Abhiyan

Rashtriya Avishkar Abhiyan (RAA) is a program of the Ministry of Human Resource Development (MHRD) in pursuance of the focus on connecting school-based knowledge to life outside the school and making learning of Science and Mathematics a joyful and meaningful activity, and to bring focus on innovation and use of technology.

The Rashtriya Avishkar Abhiyan (RAA) is a convergent framework that aims at nurturing a spirit of inquiry and creativity, love for Science and Mathematics and effective use of technology amongst children and encourage those who show an inclination and talent for these subjects to be encouraged and supported to heights of academic excellence and research.

The activities of Rashtriya Avishkar Abhiyan (RAA) are organized by Ananya Debnath, Faculty Member In-charge, with the support of Heads of Departments, Faculty Members, and Staff Members.

Under Rashtriya Avishkar Abhiyan initiative, an “Open House for School Students” was organized on 21 November 2015 at IIT Jodhpur, which included public lectures and laboratory visits. The objectives of this event were to enable students in getting motivated and engaged in Science, Mathematics and Technology; and to provide an exposure to students, of national needs and current science. Total 79 students, escorted by 2 teachers each from their school, participated from 7 Schools in Jodhpur.
Lecture Series

The Institute invites accomplished persons from different walks of life to expand and enrich the horizons of its Faculty Members, Staff Members and Students. These invitations are grouped under the following categories, namely:

1. Distinguished Lectures,
2. MEA - IITJ Distinguished Lectures, and

Details of the lectures organized in the Institute in this year are, as below:

**Distinguished Lectures**

The Distinguished Lecture series brings in a meaningful exchange of ideas from outside to the Institute with eminent scholars of Humanities, Sciences and Technology.

A distinguished lecture on “The Development of Temple Architecture in India” was delivered by Dr. Chithra Madhavan, a renowned archaeologist and historian, on 29 January 2016.

**MEA - IITJ Distinguished Lectures**

In collaboration with the Ministry of External Affairs (Government of India), the Institute launched the “MEA – IIT Jodhpur Distinguished Lecture Series”, where current and former Ambassadors of India spend time at the Institute to share their experiences and understanding of India from outside India.

The Institute, continuing its tradition of MEA-IITJ Distinguished Lectures, invited Ambassador Ajai Malhotra for a lecture. Ambassador Malhotra visited the Institute on 11 September 2015 and addressed the IIT Jodhpur community on “Climate Change and India”.

**Extra-Mural Lectures**

Professionals with standing and missionary zeal, who dedicated their lifetime in specific domains, are invited to the Institute to share their career paths - the trials and tribulations, and the way forward for the current generation seeking to tread such challenges.
During this year, on 1 February 2016, Professor Amitabha Ghosh, Platinum Jubilee Senior Scientist, The National Academy of Sciences, India, and Former Director of IIT Kharagpur, delivered a lecture on “Gravitation Inertia and the Universe: The amazing consequences of a relook into the Newton’s laws”.

Besides the above, the following Special Lectures were witnessed in the Institute during this period.

**Special Lectures**

IIT Jodhpur and Department of Management Studies, Jai Narayan Vyas University, Jodhpur came together to organize a special lecture by Professor Pankaj Chandra, Member, Board of Governors, IIT Jodhpur and Former Director, IIM Bangalore, on 23 October 2015. Professor Chandra spoke on “Pivoting Indian Manufacturing Policy Differently”.

A special public lecture was delivered by Jerry M. Hultin, Chairman, Board of Directors, and Co-Founder, Global Futures Group, USA on “REBUILDING CITIES: A holistic approach” on 9 February 2016. Jerry Hultin also served as the 15th President of the Polytechnic Institute of New York University.

**GIAN Program**

Global Initiative for Academic Networks (GIAN) in higher education is a program of the Ministry of Human Resource Development (MHRD) to invite accomplished scientists and entrepreneurs living abroad, to give short courses at premier Institutes in India. This scheme is relevant especially for new IITs facing faculty shortage. Under this program, the Faculty Members of the Institute organized short-term courses as below.

1. **Synthesis and Characterization of Materials for Energy Storage Devices**
   - Dates: 12-16 December 2015
   - Host Faculty: Ritu Gupta
   - Foreign Faculty: Timothy S. Fisher, Purdue University, USA

2. **Robot Modeling and Control, and Applications to Aerial Robots**
   - Dates: 22-28 December 2015
   - Host Faculty: Suril Vijakumar Shah and Sudipto Mukherjee (IIT Delhi)
   - Foreign Faculty: Vijay Kumar, University of Pennsylvania, USA

3. **Fundamentals of Applied Vehicle Dynamics and Chassis Systems**
   - Dates: 12-23 January 2016
   - Host Faculty: B. Ravindra
   - Foreign Faculty: Raghu Enchempati, Kettering University, USA

4. **Advanced Digital VLSI Circuit Design**
   - Dates: 7-18 March 2016
   - Host Faculty: Suresh Gundapaneni
   - Foreign Faculty: Manoj Sachdev, University of Waterloo, Canada
This year, the following workshops and conferences were organized in the Institute.

**Workshops & Conferences**

1. A workshop for “Discussion and Finalization of DPR for an Experimental CSP Plant at IIT Jodhpur” was organized by jointly by IIT Jodhpur, Indian Oil Corporation Limited, and Bharat Heavy Electrical Limited, during 8-9 July 2015 at IIT Jodhpur.

2. The 9th edition of the National Frontiers of Engineering Symposium (9NatFoE), the annual flagship event of the National Academy of Engineering (INAE), was hosted at IIT Jodhpur during 5-7 June 2015.


4. National Conference on Semiconductor Materials and Devices was jointly organized by IIT Jodhpur, Defence Lab Jodhpur and Semiconductor Society of India at IIT Jodhpur during 4-6 March 2016.
INSTITUTE EVENTS

Celebration of National Festivals & Observance of Days of National Importance

First International Yoga Day

First International Day of Yoga was celebrated on 21 June 2015 at the GPRA Residential Campus of IIT Jodhpur. Faculty Members, Staff Members and Students took an active part in the event.

![Participants in Yoga session](image1)

![Organizers with Yoga instructors](image2)

69th Independence Day Celebration

IIT Jodhpur celebrated the 69th Independence Day on 15 August 2015 at its Permanent Campus in Karwad Village. The Director hoisted the National Flag, while the National Anthem was sung with affection and devotion to the mother land, by all present. The Director urged the gathering that sincere commitment to one's goal be ensured to serve the nation. On this occasion, the First Building at the Permanent Campus of IIT Jodhpur was inaugurated. The opportunity to do the honours was presented to the three junior most members of the IIT Jodhpur family – the youngest Faculty Member (Ritu Gupta), the youngest Staff Member (M. M. Malviya), and the youngest Student (Akash Yadav).

Activities were organized for the children of IIT Jodhpur employees. Students presented music and dance performances, and street play. Also they rendered their thoughts on the advancement of technology since Independence. The General Secretary of Students Gymkhana, IIT Jodhpur, proposed a Vote of Thanks. This was followed by tree plantation and lunch.

The National Flag was hoisted at the other three Temporary Campuses earlier in the morning: Academic Campus, and the GPRA and BSNL Residential Campuses.
Teacher’s Day

IIT Jodhpur organized a program on Teacher’s Day to pay tribute to the contribution of Dr. Sarvepalli Radhakrishnan and to acknowledge the importance of Teachers towards nation building.

Coordinator (Academics) started the program by welcoming the Director, Faculty Members, and Students. On this occasion, the Coordinator (Students) delivered a speech on the importance of Teacher’s Day, to all present. Certificates of Academic Distinction were handed over by the Heads of Departments to the meritorious students registered in the Academic Year 2014-15.

The program ended with a Vote of Thanks by Coordinator (Faculty) followed by High Tea.
Vigilance Awareness Week

Vigilance Awareness Week was observed at IIT Jodhpur during 26-31 October 2015. It concluded with a program on Preventive Vigilance as a Tool of Good Governance, where all the Offices at IIT Jodhpur presented procedures followed by them in various works. As a part of their presentations, the issues, challenges and bottlenecks faced by them at different stages were discussed, and some suggestions to overcome were received from the participating members to mitigate confusions and delays in various dealings.

On this occasion, Ridhi Aggarwal, Ph.D. Student (Computer Science & Engineering) received a token of appreciation for her presentation on the topic of the program. The program was attended by the Faculty Members, Staff Members and Students. The program concluded with a pledge taken by the members present.

First Constitution Day

The Constitution Day was celebrated at IIT Jodhpur on 26 November 2015. On this occasion, the Faculty Members and Staff Members of IIT Jodhpur came together. The program was introduced by Mr. S. Balachandra Iyer, Registrar. The Preamble of the Constitution of India was read out by Deepak Fulwani, Assistant Professor, Department of Electrical Engineering, and Kshema Prakash, Deputy Librarian, in English and Hindi, respectively.
The 67th Republic Day was celebrated by the members of IIT Jodhpur, on 26 January 2016 at the Project Office Building on the Permanent Campus in Karwad Village. The Director hoisted the National Flag, and the National Anthem was patriotically rendered by all present.

Students presented their thoughts on the importance of Republic Day, urgent need to curb the societal ills and working towards technology-driven societal advancement in India. Then, Students presented a cultural show with a musical performance by Sangam, the music band of students, and a street play by Nukkad, the drama group of students. The General Secretary of Student Gymkhana, IIT Jodhpur, proposed a Vote of Thanks. Thereafter, music, drawing and musical chairs competitions were organized for the children of IIT Jodhpur employees, and prizes were given to the winners.

A visit was arranged to the ongoing construction site of various buildings in the Permanent Campus of IIT Jodhpur. Students, Staff Members and Faculty Members, present for the occasion, visited the site. The program was followed by lunch.

The National Flag was hoisted at the Academic Campus, and the GPRA and BSNL Residential Campuses, earlier in the morning.

Tree plantation activity was undertaken at the Permanent Campus of IIT Jodhpur in Karwad on 21 February 2016. Around 900 neem saplings were planted jointly by the members of the IIT Jodhpur community and the Jodhpur Tree Plantation and Environment Protection Committee, led by M. S. Singhvi, Senior Advocate, (High Court of Rajasthan, Jodhpur) in the presence of Honourable Justice Sandeep Mehta, (Sitting Judge, High Court of Rajasthan, Jodhpur).
The event was attended by Faculty Members, Staff Members, and Students of IIT Jodhpur, and 20 Advocates of High Court of Rajasthan, Jodhpur.
Present Campuses

At present, IIT Jodhpur operates from two sets of temporary campuses, namely:

Temporary Academic Campus: It operates independently from the premises of MBM Engineering College in Jodhpur, situated on the Old Residency Road, Ratanada, at a distance of about 4 km from the Jodhpur Railway Station and 3 kms from the Jodhpur Airport.

Temporary Residential Campuses: IIT Jodhpur has two residential campuses located at (1) GPRA Residential Campus, New Pali Road Jodhpur, and (2) BSNL Residential Campus, Subhash Nagar, Jodhpur. GPRA Campus is located at New Pali Road, about 17 kms from the academic campus and provides accommodation to nearly 600 B.Tech. boy and all girl students. Also, it provides accommodation to nearly 150 other members of IIT community, including Faculty Members, Staff Members, and their family members. On the other hand, BSNL Campus is located in the heart of the city and provides accommodation to nearly 150 male M.Tech. and Ph.D. students. Limited housing is available on this campus for married students.

TEMPORARY ACADEMIC CAMPUS
Currently, the academic campus of IIT Jodhpur comprises of three blocks, namely:
(i) Academic Block 1: It houses several laboratories, the library, a computer center and offices of some Faculty Members.
(ii) Academic Block 2: It comprises of lecture halls, classrooms, language lab and multimedia lab.
(iii) Administrative Block: It comprises the Directorate, administrative offices, technical laboratories and offices of some Faculty Members.

In addition, the academic campus consists of some temporary structures used for different purposes such as laboratories and office spaces. IIT Jodhpur has established good academic facilities for teaching and research. The Institute has well equipped Laboratories and a Library.
Laboratories and Research Facilities

IIT Jodhpur has established state-of-the-art teaching and research laboratories. These advanced laboratories have machinery and devices of international standard, which are actively used in research. The major laboratories include Heat Transfer, Fluid Mechanics, Electronic Circuit Laboratory, Robotics, Electro Mechanical Energy Conversion Laboratory and Solar Radiation.

Library

The Library has a collection of about 12,000 volumes of books comprising of textbooks, research and reference books, monographs etc. In addition, the Library provides access to a range of electronic resources from professional and scholarly societies and publishers, such as American Society for Mechanical Engineers, Institute for Electrical & Electronics Engineers, and Association for Computing Machinery, to name a few. Also, it subscribes to popular scientific, research and archival databases, like SciFinder, MathSciNet, JStor, Prowess, and EBSCO Academic Search.

The Library operates in a computerized environment with automated member & circulation services, and digital library services. Memberships, circulation, reference & information service, inter library loans & document lending services, current awareness service, digital library service are some of the important services that are presently offered.

TEMPORARY RESIDENTIAL CAMPUSES

GPRA Residential Campus

The major residential area is in a scenic campus located on New Pali Road, Vivek Vihar, Jodhpur, about 20 kms from the railway station. The campus is well guarded and equipped with basic amenities including Wi-Fi, recreational rooms and a computer center. Also, the residential campus provides accommodation for Faculty Members and Staff Members of the Institute. Transport facility is available between the Institute and Residential campus.

BSNL Residential Campus

The second residential campus is located in BSNL Colony on Pal Link Road in Subhash Nagar. Basic common facilities are available at BSNL colony. Transport facility is available between the Institute and BSNL Campus. All male M.Tech. and Ph.D. and some married students are given accommodation in this residential campus.

Facilities

Following are some basic facilities made available in the residential areas: (a) ATM & Bank: The residential area has a branch of SBI (State Bank of India) as well as an ATM of SBI, enabling students to make transactions with ease. There are several other banks namely UCO, HDFC and SBBJ close to the academic area. (b) Canteen: There are two sets of canteens, one at Residential Campus and the other one in Academic Campus. They provide hygienic food, fresh juices and various other snacks for the students.
(c) **Gymnasium:** A well-equipped gymnasium is present in the Residential Campuses, and is operational during 5 am to 10 pm. Students can avail these facilities to stay healthy and to maintain their physique.

(d) **Dining Facility:** There are two sets of Dining Facilities, one in the Residential Campuses and the other one in the Academic Campus. The mess offers good quality food, regularly monitored by the Wardens for hygiene and nutritional values, and provided at affordable cost.

(e) **Shops:** Shops catering to the various primary needs of students are present near the Academic Campus. A small outlet is functional inside GPRA campus for urgent petty purchases.

(f) **Transport Services:** The Institute has a bus service running between the Residential and Academic Campuses at regular intervals, exclusively for the Students of the Institute.

(g) **Entertainment Room:** Every hostel consists of recreation facilities (like TV Rooms, where students can enjoy matches and watch movies) along with indoor games (like table tennis and carroms).

**Medical Services**

Both the Residential Campuses have Health Centers for providing routine health services. Due to geographical locations of the two Campuses and the type of residents, Health Center at GPRA Campus provides services to the patients round the clock, while medical services are available at BSNL Campus for limited hours in the evening, typically from 5 pm to 10 pm. In addition to the availability of medical services at Residential Campuses, medical assistance is available at Academic Campus. This assistance is normally provided from 3 pm to 4.30 pm, when laboratory sessions are in full swing and medical assistance may be required. The Institute has its ambulance services available round-the-clock.

Besides the Health Centers, the Institute has empanelled five hospitals in the city of Jodhpur. Two of these hospitals have specializations in ophthalmology and one in orthopedic, and the remaining two hospitals are the best known general purpose hospitals in the city. For specialized medical attention doctors at our Health Centers refer patients to one of these hospitals. In addition to these five hospitals, the city has a Medical College and three hospitals run by Government of Rajasthan. Also, the city All India Institute of Medical Sciences (AIIMS), which is nearly 12 km GPRA Campus and nearly 5 km from BSNL Campus. Also, the Institute has constituted a Medical Board consisting of Senior Doctors from the Medical College and the AIIMS; advice is taken for enhancement of medical services of the Health Centers and in critical medical cases. IIT Jodhpur has empanelled two hospitals in Jaipur. These two hospitals are accredited by National Accreditation Board for Hospitals & Healthcare, and patients can be referred to these hospitals as per the need of the treatment.
Permanent Campus

In the forthcoming years, IIT Jodhpur will shift to its sprawling state-of-the-art residential permanent campus on 852 acres of land located ~24 km away from the center of the city of Jodhpur on National Highway 65 towards Nagaur, N-NE from the center of Jodhpur. The permanent campus has 3 parcels of land. The Institute is finalizing plans for adopting one of for harvesting technologies. This new campus has been planned meticulously and envisioned to stand as a symbol of academics – simple, but deep.

The foundation stone for the permanent campus was laid on 16 April 2013 by the Hon. Union Minister for Human Resources Development (Government of India), Dr. M. M. Pallam Raju. The Permanent Campus of the Institute is being constructed. Work to build Phase 1 of the campus began in March 2015. When complete, it will be the first fully-planned technical institute campus in India. More importantly, it will be an international exemplar of sustainability with strategies for ensuring NET ZERO ENERGY, WATER and WASTE. The other salient features of the Permanent Campus are:

(1) Walking campus, which is pedestrian oriented and bicycle dominant;
(2) Learning facilitated anywhere, anytime with wireless ICT backbone (including Multi-media enabled learning spaces with flexible, shared public spaces);
(3) Thermally comfortable smart buildings with GRIHA 4/5 star compliant buildings and GRIHA LD benchmark campus (including dense desert settlement morphology,
low height buildings (up to a maximum of 3 storeys) built with low embodied energy materials, and improved local and traditional methods);
(4) Plantation with native species, soil stabilization, protection from dusty wind to arrest erosion, desertification, and building-up soil moisture over time;
(5) Rain water harvesting, and water reduction and sewage recycling, together greening the site over time; and
(6) Segregated wastes and customized recycling

The campus will have housing for Faculty Members and Staff Members, along with a school (up to Class XII), bank, post office and market. Also, it will have a Primary Health Center with hotline connections to reach the top hospitals of the city, like the All India Institute of Medical Sciences, Jodhpur, and a fully equipped ambulance service. A large parcel of the Permanent Campus (of about 182 acres) is set aside for the development a TECHNOLOGY PARK to strengthen institute-industry interactions.

The first migrations into the campus are likely to take place during October 2016.
Computer Center

The Institute has a modern Computer Center, presently running on a gigabit LAN with 1Gbps internet bandwidth. It is the nucleus of all computing activities for Students, Staff Members and Faculty Members. Several terminals running on Windows and GNU/Linux operating systems across the campus, provide access to several licensed software, like MatLab, Mathematica, Cadence, Mentor Graphic, Ansys, PSCAD and Solidworks. A 802.11/b/g/n Wi-Fi service is enabled in the academic and residential areas. Also, the Computer Centre hosts a High Performance Computing cluster for scientific research.

Resources
The Institute has five key resources at the Computer Center, namely, the Linux Operating System, SVN Server, GIT Server, OwnCloud and various licensed application software that are used for academic and research purpose, have made it possible to offer the various resources and facilities.

Facilities
The Institute extends three facilities, namely, networking, computing, Internet access, and LDAP and Active Directory ID facilities through its Computer Center.

Services
The Institute offers services like FTP, LDAP, HPC, Web Hosting, Network Connectivity, VPN, EduRoam, and News Group, through its Computer Center.
Library

Library supports the teaching and research activities of the Institute by facilitating acquisition, organization and dissemination of knowledge resources, and also by providing library & information services to IIT Jodhpur community. Library is located on the ground floor of Academic Block I in the Academic Campus of IIT Jodhpur, in room nos. 1001, 1001 Extension, and 1011. Library functions with the guidance of Library Committee, which has representatives from all Departments, and Student Representatives.

Library Collection

The Library has a rich and growing collection of 12,000 volumes of books (approx.), which include textbooks, and books of general and reference nature. A wide range of scholarly journals and databases are also subscribed from various sources for the academic and research purposes of the Institute.

Services & Facilities

The following services and facilities are being provided by the Library to its registered users.
1. Member & Circulation Services
2. Orientation & User Education
3. Borrowing Facility
4. Reference & Information Service
5. Course Reserves
6. Current Awareness Service
7. Inter Library Loan & Document Supply
8. Digital Library Facility & Services

Digital resources are accessible through the Library website, which is a comprehensive site maintained by Library. They include the Library subscribed resources, online catalogue, lists of useful resources accessible in the open domain like the open access journals, books, repositories, video lectures, open courseware. These resources are continuously updated.
Library also maintains a portal for hosting bibliographic listing of the Faculty Publications. Additionally, a course guide portal has also been developed and maintained by Library, wherein, resources i.e., books available in Library, subscribed journals, resources accessible in open domain are listed and linked, course-wise. This platform is very useful for the students in finding topical and course-wise resources. Library also provides remote access to the subscribed scholarly resources and anti-plagiarism checking.

Appearing below are some vital statistics of Library for FY 2015-16:

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Description</th>
<th>Statistics</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Books added</td>
<td>Total 511</td>
</tr>
<tr>
<td></td>
<td>a. Number of titles added</td>
<td>207</td>
</tr>
<tr>
<td></td>
<td>b. Number of volumes added</td>
<td>511</td>
</tr>
<tr>
<td>2.</td>
<td>Number of Scholarly Resources subscribed</td>
<td>Total 39</td>
</tr>
<tr>
<td></td>
<td>a. Fulltext resources</td>
<td>31</td>
</tr>
<tr>
<td></td>
<td>b. Research databases</td>
<td>8</td>
</tr>
<tr>
<td>3.</td>
<td>Document Supply &amp; Inter Library Loan service requested fulfilled</td>
<td>Total 149</td>
</tr>
<tr>
<td></td>
<td>a. Document supply of articles &amp; research papers</td>
<td>146</td>
</tr>
<tr>
<td></td>
<td>b. Books arranged on Inter Library Loans</td>
<td>3</td>
</tr>
<tr>
<td>4.</td>
<td>Circulation Transactions</td>
<td>Total 24,962</td>
</tr>
<tr>
<td></td>
<td>a. Number of book check-outs</td>
<td>12022</td>
</tr>
<tr>
<td></td>
<td>b. Number of book check-ins</td>
<td>12320</td>
</tr>
<tr>
<td></td>
<td>c. Number of book renewals</td>
<td>578</td>
</tr>
<tr>
<td></td>
<td>d. Number of book recalls</td>
<td>42</td>
</tr>
</tbody>
</table>

**Details of E-Resources**

Library has licensed the following electronic resources in this year, for teaching, research and private study of its academic community.

**A. Fulltext Resources**

1. Association of Computing Machinery Digital Library
2. American Chemical Society Journals
3. American Institute of Physics Journals
4. American Physical Society Journals
5. American Society for Mechanical Engineers Digital Library
6. Bioinformatics Journal
7. EBSCO Academic Search Complete
8. Human Molecular Genetics Journal
9. IEL (IEEE) Online Digital Library
10. Interdisciplinary Studies in Literature and Environment Journal
11. Journal of Biological Chemistry Journal
12. Journal of Consciousness Studies
13. Journal of Immunology
14. JStor Archives
15. MIT CogNet Journals
17. Proceedings of the National Academy of Sciences
18. Quantum Information and Computation Journal
19. Royal Society of Chemistry Journals
20. Science Online
21. Elsevier Science Journals
22. Society of Industrial & Applied Mathematics Journals
23. Springer Journals

B. Research Databases
1. CMIE Prowess
2. EPW India Times Series
3. IndiaStat
4. MathSciNet
5. SciFinder

The Library is also a core member of the eShodhSindhu: Consortium for Higher Education Electronic Resources, operated by INFLIBNET Center, Gandhinagar, through which subscriptions to major resources is fulfilled. Also, the Library is a member of DEveloping Libraries NETwork (DELNET), New Delhi through which the Library meets its Inter Library Loan requirements.

Library also subscribes to Antiplagiarism Tool and Remote Access Tool for its users. Orientation sessions and Library Instruction sessions for Students are conducted by the Library Staff from time to time.

Along with providing regular library facilities and services, the library staff members are also engaged in rendering services in preparation of Institute’s publications like the Annual Report, Institute Newsletter; and also actively contribute in maintaining the Institute’s website and repositories.
Laboratories

IIT Jodhpur has established good number of teaching and research laboratories and facilities, which aid in elevating the students from minimalist academic concerns to inquisitive world of scientific arena. These teaching and research laboratories help Faculty Members and Students work for better future by supplementing and improving existing technologies and bodies of knowledge, using competence, creativity and imagination. Appearing below is a department-wise list of laboratories established in IIT Jodhpur whose details are given in the following pages.

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Name of the Laboratory</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Department of Biology</strong></td>
<td></td>
</tr>
<tr>
<td>1.</td>
<td>Advanced Biosciences and Neuroscience laboratory</td>
</tr>
<tr>
<td>2.</td>
<td>Chemical Biology laboratory</td>
</tr>
<tr>
<td>3.</td>
<td>Environmental Biotechnology Laboratory</td>
</tr>
<tr>
<td>4.</td>
<td>Protein Engineering Laboratory</td>
</tr>
<tr>
<td><strong>Department of Chemistry</strong></td>
<td></td>
</tr>
<tr>
<td>1.</td>
<td>Chemistry Laboratory</td>
</tr>
<tr>
<td><strong>Department of Computer Science &amp; Engineering</strong></td>
<td></td>
</tr>
<tr>
<td>1.</td>
<td>Multimedia Laboratory</td>
</tr>
<tr>
<td>2.</td>
<td>Networking Technologies Laboratory</td>
</tr>
<tr>
<td><strong>Department of Electrical Engineering</strong></td>
<td></td>
</tr>
<tr>
<td>1.</td>
<td>Control / DSP / Microprocessor Laboratory</td>
</tr>
<tr>
<td>2.</td>
<td>Electronic Circuit Laboratory</td>
</tr>
<tr>
<td>3.</td>
<td>Instrumentation &amp; Communication Laboratory</td>
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<tr>
<td>4.</td>
<td>Power Electronics Laboratory</td>
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<tr>
<td>5.</td>
<td>Robotics Laboratory</td>
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<tr>
<td><strong>Department of Humanities &amp; Social Sciences</strong></td>
<td></td>
</tr>
<tr>
<td>1.</td>
<td>Digital Language Laboratory</td>
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<tr>
<td><strong>Department of Mechanical Engineering</strong></td>
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<tr>
<td>1.</td>
<td>Advance Manufacturing Laboratory</td>
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<tr>
<td>2.</td>
<td>Central Workshop</td>
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<td>3.</td>
<td>Dynamics &amp; Vibration Laboratory</td>
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<tr>
<td>4.</td>
<td>Electro Mechanical Energy Conversion Laboratory</td>
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<tr>
<td>5.</td>
<td>Fluid Mechanics &amp; Heat Transfer Laboratory</td>
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<tr>
<td>6.</td>
<td>High Temperature Solar Thermal Laboratory</td>
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<tr>
<td>8.</td>
<td>Renewable Energy Laboratory</td>
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<tr>
<td>9.</td>
<td>Solar Radiation Laboratory</td>
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<tr>
<td><strong>Department of Physics</strong></td>
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</tr>
<tr>
<td>1.</td>
<td>Biomolecular Information Processing Laboratory</td>
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<tr>
<td>2.</td>
<td>Magnetic Property Measurement System (MPMS / SQUID) Laboratory</td>
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<tr>
<td>3.</td>
<td>Materials Analysis Laboratory</td>
</tr>
<tr>
<td>4.</td>
<td>Physics Laboratory</td>
</tr>
</tbody>
</table>
The Department of Biology has the following laboratories for teaching and research purposes.

1. Advanced Biosciences and Neuroscience laboratory

The Advanced Biosciences and Neuroscience laboratory is a part of the center of excellence in biologically inspired systems science (BISS). This laboratory provides cellular and molecular investigative tools for UG and PG teaching and research in neuroscience. Cell culture studies are utilised along with molecular biology, biochemistry and microscopy approaches to elucidate the molecular mechanisms underlying molecular and cellular interactions underlying inflammation and repair. Inflammation is a key component of many diseases including traumatic brain injury, cancer, multiple sclerosis, stroke, asthma, Parkinson’s disease and Alzheimer’s disease. Inflammation is characterized by accumulation and proliferation of innate immune cells. This is followed by clearance of dead cells and cellular debris along with enhanced expression of molecular mediators called cytokines and chemokines, which cause migration and proliferation of immune cells and may even lead to cell death. Understanding the mechanisms by which inflammation occurs, and the molecular mediators involved in this process, is necessary for identification of potential therapeutic targets.

2. Chemical Biology Laboratory

The Chemical Biology Laboratory deploys cellular and molecular biology approaches to explore the pathogenesis of cancer and other neurodegenerative diseases. Given the interest in neuronal death, it is no wonder that this lab team is interested in E3 ubiquitin ligases essential for quality control events in neuronal survival. Protein ubiquitylation is highly versatile, ordered, the multistep post translation modification enzymatic process that regulates numerous aspects of cell physiology. This lab team has been studying the role of such E3 ligases to find out the role of quality control E3 ubiquitin ligases in maintenance of proteostasis and hence playing a role in cellular survival and death. Such important biochemical findings may contribute to innovative therapeutic approaches for the diseases associated with misfolded proteins.

Organisms at the cellular level possess a well-established protein quality control mechanism which the lab team is trying to understand at present. The role of E3 ubiquitin ligases was reported in such mechanisms so far. Our laboratory is dedicated to
a qualitative research in the field of protein quality control mechanisms. We have recently found that a HECT domain containing E3 ubiquitin ligase E6-AP helps in Amyotrophic Lateral Sclerosis diseases suppression through its association with the misfolded protein aggregates formed by SOD1 mutants. Such findings support that an E3 ligase can have a capability to clear the misfolded protein aggregation. However, while appreciating the incredible efficiency of cellular systems, we must recognize the crucial role of chaperones which are supposed to work preferentially compared to E3 ubiquitin ligases in order to refold the misfolded proteins, and hence conserving the energy utilized during the translation of those proteins. Various examples made us think that we could explore the role of both the chaperones and E3 ubiquitin ligases in the clearance of misfolded proteins. Therefore, now we are working not only with E3 ubiquitin ligases but also with the chaperones and even in their functional association to confer an efficient quality control mechanism to the cell.

3. Environmental Biotechnology Laboratory

The Environmental Biotechnology Laboratory at IIT Jodhpur, in addition to serving various undergraduate and post-graduate courses, undertakes research in the areas of bioenergy and bioremediation. Researchers in the lab investigate on waste to energy conversion processes with an aim to develop sustainable biotechnological solutions to water pollution and energy. At present, successful bioremediation processes for nitrate and chromium(VI) contaminated wastes have been developed. Also, research is underway for the development of low cost Microbial Carbon Capture cells for power generation and algae cultivation. In addition to this, researchers in the lab have been successful in isolating novel yeasts, the potential biodiesel producing candidates.

4. Protein Engineering Laboratory

The Protein Engineering Laboratory at IIT Jodhpur is undertaking cutting edge research in developing biomaterials based on the understanding of structural and functional properties of useful proteins such as collagen. The implications of the research could also extend towards development of effective biomedical devices and implants.
The Department of Chemistry has the following laboratories for teaching and research purposes.

1. Chemistry Laboratory

The core objective of the chemistry laboratory of IIT Jodhpur is to train students in scientific methods that would solve real problems at the frontier of our understanding of the matter. This is a multi-use laboratory and provides a number of resources to assist undergraduate, graduate and Ph.D. students in planning their professional careers after completing their academic program at IIT Jodhpur.

This laboratory maintains a broad spectrum of state-of-the-art instrumentation including basic laboratory set up (for organic, inorganic, organometallic and material synthesis), Nitrogen, Oxygen and LPG gas line, Inert atmosphere boxes, vacuum line work, fume hood pH, conductivity, BOD, COD, meters, Rotary evaporator, Vacuum pumps, centrifuges, High pressure reactor system, Chiller, microbalances, Orbital Shaker, GC, HPLC and Radleys ready reactor. In the academic year 2012-2013, the lab procured equipment such as Polarimeter, Melting point Instrument, Solar Simulator, Digital Titrator, Kugalrohr, Electrochemical work stations, and Battery analysers. A 500 MHz NMR spectrometer with solid state probe is an essential resource, whose mission is to make a state-of-the-art high field NMR and methods available to researchers, providing a place for them to pursue their projects and develop new methodologies in NMR methods.

The following are some pictures of Chemistry Laboratory.
The Department of Computer Science & Engineering has the following laboratories for teaching and research purposes.

1. Multimedia Laboratory

The Media Laboratory provides facilities to carry out work related to E-learning, image processing, and computer vision. The thrust areas of research in this lab are: Semantic analysis of video/image content, video surveillance, human motion analysis, document image analysis, content based image retrieval etc. E-learning related activities include video recording, audio-video digitization, video editing, etc. In the academic year 2011-2012, a research on Indian sign language recognition using Kinect has been initiated.

**Equipment:**
2. Cameras: Sony 177PD, Sony Camcorder, Cannon 500D VCR: Sony DSR 45AP
3. Tripods: Manfrotto, iMac.

2. Networking Technologies Laboratory

Networking Technologies Laboratory has been started functioning in the Academic Year 2011-2012. It aims at enabling undergraduate and graduate students, who pursue their interest in the area of computer networks, to understand the concepts of computer networks and work with contemporary networking equipment in a realistic setting. In addition, the lab aims at providing necessary infrastructure to carry out research activities on advanced topics, such as wireless mesh networks, sensor networks, communication on power lines, from computer networks. The activities that take place in this laboratory are:

1. Prototyping of networking hardware (Example, Ethernet switch, IPV4 router etc.) using NetFPGA.
2. Developing packet processors using “Click router” modular software framework.
3. Establishing infrastructure for the mini-Internet, single-hop wireless networks, multi-hop wireless mesh and sensor networks, power line communication networks, home phone line networks.
4. Studies related to the performance analysis of various protocols over on different network configurations.
6. Setting up planet-lab infrastructure (which will essentially become part of the global distributed computing platform created over the Internet by connecting over 500+ sites). This allows the students and researchers not only to understand the traffic patterns on the Internet but also to develop new technologies/applications on the Internet for distributed storage, networking mapping, peer-to-peer systems, content distribution service, and cloud computing.
The Department of Electrical Engineering has the following laboratories for teaching and research purposes.

1. **Control / DSP / Microprocessor Laboratory**

   The lab provides software and hardware infrastructure for carrying out experiments in the field of Control Systems, Microprocessor and DSP. Broadly, the lab includes the following experimental setup:
   1. Control Systems
      (a) Ball & Beam System from Quanser
      (b) Magnetic Levitation System from Quanser
      (c) Inverted Pendulum System from Quanser
      (d) Software include Scilab / MatLab
   2. DSP Lab Equipment
   3. Microprocessor Lab

2. **Electronic Circuit Laboratory**

   In this laboratory the students make and test their analog and digital circuits by using all kinds of circuit components like diode, transistor, op-amps, and clocks. The lab has following equipment:
   1. Arbitrary Function Generator from Agilent
   2. Digital Oscilloscope from Agilent
   3. Programmable Power Supply from Scientific
   4. 6 1/2 BIT DMM from Agilent
4. **Instrumentation and Communication Laboratory**

The mission of Instrumentation and Communication Laboratory is to provide a platform for UG and PG students on research and hands-on learning in Measurement and Automation Technology. The state-of-the-art facilities at this laboratory offer innovative research opportunities in the astronomical space of communication and real-time measurement technology. The experienced Lab team nurtures students' talent in research and offers an opportunity for developing sophisticated measurement, test, control systems, data analysis system and next generation communication technologies.

Students also develop theoretical and practical competence in (i) building baseband communication circuits, (ii) the application of NI LabVIEW graphical programming software, (iii) the PXI based NI RF/Wireless measurement stand, (iv) evaluating NI WSNs and LabVIEW software, adjusting a software-defined radio system, measuring the parameters of studied antennas and (v) the operation of analog modulation schemes. NI-Lab contains software and hardware subsystems which enable rapid prototyping and development of embedded systems for various applications. Currently, this lab constitutes the following setups:

1. NI ELVIS based Communication Systems and Theory Teaching Stand
2. Large MIMO Stand for Spectral, Channel Efficiency Studies and New Standard Development
3. Protocols Stand for WLAN, WiMAX, GPS, RFID, Zigbee, GSM, CDMA, WCDMA, Bluetooth
4. FPGA-enabled Software Defined Radio Stand for Custom Communication Scheme Development and Research
5. Basic Analog and Digital Communication Techniques Teaching Stand
6. Wireless Sensor Networks Stand
7. Signal Intelligence and Wireless Spectral Monitoring Stand
8. Wireless Prototype Characterization and Testing Stand
9. FPGA based protocol development for base-band studies and signal processing
10. VNA based Antenna Characterization Stand
11. Fiber Optic Communication Stands
12. Network Based Manufacturing
13. USRP (Universal Software Radio Peripheral) based wireless communication
system for physical layer design, record and playback, signal intelligence, algorithm validation and more.

14. Network Communication and Manufacturing Control Stand

After three years of its formation, this lab has contributed immensely to the learning and research activities at IIT Jodhpur. Communications and Networking Lab, Intelligent Instrumentation, System Analysis Techniques and Bio-Sensors courses are being offered through this lab for both graduate and undergraduate students. The lab has provided the right hardware and software tools for many industrial consultancy projects, including the development of DRM/DRM+ IP for digital radio standards, Link budget design for Marine environment, DRFM based Radar echo simulator and Blind Signal Demodulator. Other projects being done in the lab are development of affordable wireless video transmission systems, cognitive radio and Zigbee protocol development.

5. Power Electronics Laboratory

The power electronics laboratory is used for undergraduate studies and research in the area of power electronics based power conversion systems, control systems and drives. The laboratory facilitates for faculty and students to conduct research in the areas power converters and AC/DC micro-grid. The laboratory is equipped with state-of-art test and measurement instruments, converters, power supplies and programming boards. Major equipment available in this lab are:

1. High Precision power Analyzer – YOKOGAWA WT3000.
2. DSO- Tektronix 200MHz (DPO 2024) and 1GHz (DPO 4104B).
3. Function Generator-Tektronix AFG 3021B.
4. Power Supply: 0-30V, 1A; 0-32V, 3A; 0-32, 10A.
5. Three phase inverter drive.
6. Three phase inverter stacks.
7. DC-DC converters.
10. Isolation Transformers.
11. FPGA training kits and programming boards.

6. Robotics Laboratory

IIT Jodhpur has an advanced robotics laboratory for PG/UG education and research. The infrastructure includes the following:

1. Vicon Motion Tracking System
2. Mobile Manipulator comprising of Barret WAM ARM mounted on a PowerBot Mobile robot platform
3. Pioneer P3-DX mobile robots - 10 units
4. Turtlebot
5. Wheel Chair
6. Force Plate
7. Infrastructure for Mobile Robotics - Navigation, Path-planning, SLAM
8. Dynamic and Kinematic Control problem, Redundancy Resolution, Inverse Kinematics of Manipulators and Mobile Manipulators, Visual Servoing, and
9. GAIT Analysis and Robot Assisted Rehabilitation
Department of Humanities & Social Sciences

The Department of Humanities and Social Sciences uses the Language Lab teaching and practice of language.

1. Digital Language Laboratory

The Digital Language Laboratory provides resources, facility, and support for foreign language instruction and learning to the entire student community of IIT Jodhpur. The lab is the multilingual computing and assessment center of the Institute. The lab team explores and implements methods through which multimedia technology renders a more authentic experience to learning a foreign language. Here, for language learning purposes one could seek recourse to technologies like the Internet and interactive video, audiovisual techniques, multi-modal iconic approach, and speech recognition. The exercises include listening and comprehension, grammar-based exercises, placement solutions, and mastery tests. The main features of this facility include Smart Class Symposium LL from Robotel and New Dynamic English Learning Program from Dyned International. All the facilities at the Digital Language Laboratory are proficiency-oriented, standard-based, and nurture the students’ enthusiasm for gaining global exposure and proficiency in a foreign language.
Department of Mechanical Engineering

The Department of Mechanical Engineering has the following laboratories for teaching and research purposes.

1. Advance Manufacturing Laboratory

In the Advance Manufacturing Laboratory, CAD model of object is prepared using 3D modelling software like ProE, SolidWorks, and Catia. FE analysis is carried out using Analysis software like Ansys, Nastran/Patran and precision manufacturing is carried out using CNC programming/CNC machines and Rapid Prototyping Machine/3D Printer. The manufactured components are characterised for mechanical behaviour using UTM, Hardness testers, Impact testers etc. The role of CNC machines in increasing flexibility and precision of the product to be manufactured and, increasing productivity are illustrated. The Advance Manufacturing Laboratory of institute is equipped with following facilities:

1. CAD Section
2. Precision Machining Section
3. Rapid Prototyping Section
4. Mechanical Behaviour Characterisation section
2. Central Workshop

Central workshop is the central facility of Institute, consisting of various workshops such as Welding shop, Carpentry shop, Fitting shop, Sheet metal shop, Foundry and Heat treatment shop and Machine shop. Undergraduate Students get hands on experience in above sections by doing the job work and carrying out projects as part of their coursework and also students utilize the facilities for fabrication purpose of their academic projects. It also supports the R&D projects of the institute handled by various Faculty Members and Ph.D. and M.Tech. Thesis work of research scholars by providing them assistance in fabrication of their research set-ups.

The following machines and equipment are available in the Central Workshop:

1. Welding fume extraction down draft table
2. Multi process welding equipment
3. Portable single phase MIG/MAG
4. AC/DC welding equipment
5. MIG/MAG welding equipment
6. Treadle operated shearing Machine
7. Hand operated Folding Machine
8. Kaizen Muffle Furnace
9. Hand operated Jeeny or Burying Machine
10. Motorized Circle cutting Machine
11. Hand operated Circle cutting Machine
12. Hydraulic shearing Machine
13. Portable Heating Plant
14. Portable hardening plant
15. Forging Heating Plant
16. Aluminium Melting Plant
17. Fitting Table
18. Mould Making Facility
19. Portable Tool Grinder

3. Dynamics and Vibration Laboratory

Dynamics and Vibration Laboratory is well equipped with various mechanisms such as Motorized Gyroscope Apparatus, Static and Dynamic Balancing Apparatus, Universal Governor Apparatus, Coriolis Component of Acceleration Apparatus, Epicyclic Gear Train Apparatus, Cam Analysis Machine Apparatus, Universal Vibration Apparatus, Stroboscope and Tachometer 10 in helping the students to understand the behavior of the various mechanisms and forces acting on them.

In addition, the laboratory is also equipped with various vibration measuring instruments for computing the vibration characteristics of a machine or structures and equipment for vibrating the machine or structures in order to find its resonance characteristics in various environmental conditions. Following equipment are available for measuring and/or testing vibration characteristics of elements to structures.

4. Electro Mechanical (EM) Energy Conversion Laboratory

In order to familiarize students to Electrical Machines properties & characteristics, IIT Jodhpur has established “Electro Mechanical Energy Conversion Laboratory” and has continually been developing the potential of its lab facility. In this lab, state-of-the-art “Electrical Engineering” facilitates the students to empower their potential by familiarizing themselves with the fundamental of electro-mechanical energy conversion process, including several practical & industrial applications of machines in true applicable environment. This lab occupies conventional as well as modern
equipment to fulfil the basic and modern technological requirements with continual developing efforts.

5. Fluid Mechanics and Heat Transfer Laboratory

At Fluid Mechanics Laboratory students learn about the following:
1. Analyses and evaluation of experimental data
2. Comparison between theoretical models and experimental data
3. How to design a fluid mechanical and heat transfer system e.g. a piping system considering various technical aspects, heat exchanger, thermal energy storage, receiver, wind catcher, volumetric air receiver.

In addition to the above, this laboratory aims at generating innovative ideas in students by promoting the design of experiments and small scale projects. At present in the fluid mechanics laboratory are conducted experiments on losses in pipes (smooth/rough) and fittings (e.g. valves, bends), comparison between different flow meters, particle image velocimetry technique, Hot-wire anemometer, labscale sub-sonic wind tunnel for pressure distribution around a cylinder/air-foil, lift and drag balance, boundary layer development, weather monitoring. Furthermore the lab provides training on standard software, such as, CFAST for fire simulation.

Currently the Heat Transfer Laboratory is equipped with the demonstration of various thermometry techniques, heat exchange system, ventilation system, Natural and forced convection system, heat conduction unit for different materials, lab and industrial-scale solar water heater system, and thermal radiation unit. All these equipment are installed with respective software.

For testing, calibration and research purpose in these laboratories, various equipment such as Laser Doppler Velocimeter with Particle Analyzer, pressure and
temperature calibration, blower with variable flow, pressure transducers, differential pressure transducers, turbine test rig, turbo-machine test rig, IC engine test rig etc., have been procured.

Moreover, multi-purpose test set up is being indigenously designed and the components / sub-systems involved are being fabricated locally. This system aims at investigation and evaluation of solar thermal sub-systems such as volumetric air receiver, thermal energy storage, air-water heat exchange systems and their simultaneous operation. Devices such as earth air heat exchange system, wind catcher, and air-cooled heat exchange systems are being fabricated and tested for certain applications.

6. High Temperature Solar Thermal Laboratory

Six laboratories are being set-up under the MNRE funded project entitled as “Establishment of Center of Excellence in Solar Thermal Research and Education at IIT Jodhpur”. High Temperature Solar Thermal Laboratory is one of these specialized laboratories. The aim of this laboratory is:

1. Fundamental aspects of fluid flow and heat transfer related problems, like, dust deposition
2. Design and analysis of sub-systems for concentrated solar thermal systems

Some of the sub-systems being designed and analyzed in this laboratory are:
(a) Open Volumetric Air Receiver for process heat applications
(b) Compact heat exchanger
(c) Solar Convective Furnace

This laboratory includes test facility, such as, Solar Air Tower Simulator (SATS) facility, advanced research grade equipment like Laser Doppler Velocimetry. SATS facility includes, open volumetric air receiver, thermal energy storage, air-water heat exchanger and is being extended with solar convective furnace.

7. Material Testing and Solid Mechanics Laboratory

The material testing lab of the institute provides facilities to test samples of different types of materials to find out their mechanical properties like modulus of elasticity, tensile and compressive strength, stress strain curve, bending properties, hardness etc. The lab is equipped with following test equipment:
1. Universal testing Machine 5-50 kN
2. Rockwell Tester
3. Brinell Tester
4. Vickers Tester
5. Poldi Hardness Tester
6. Portable hardness tester
8. Renewable Energy Laboratory

To resolve most daunting challenge of this world—energy needs—and also our nation’s heavy reliance on fossil fuels, Renewable Energy Laboratory (REL) promotes rigorous and objective empirical research at IIT Jodhpur on issues related to energy and environment. REL focuses on designing, testing, and disseminating renewable and efficient energy system. The mission of REL is to help these technologies to realize their full potential to contribute to environmentally sustainable development in industrial and developing countries. In the renewable energy field, expert faculty and students at this Laboratory are currently striving to create an innovative system to efficiently harness energy from sunlight and wind power. REL has computer interfaced systems and approximately 30 students can work at a time. Students are the greatest resource of REL and IIT Jodhpur has made substantial commitment to the area of renewable energy and been providing all required resources to execute a viable plan and innovative research at REL. One aspect of the evolution of REL is the development of collaborative partnership with other academic and industrial groups. In the near future, it will be a hub for training and public-private sector collaboration. Recently, the lab has started a consultancy project, with Panasonic R & D India Pvt. Ltd., on the prototyping of microbial fuel cells. In addition, the lab has started work on data collection, interpretation, and analysis of PV power plants less than 5 MW in Rajasthan and Gujarat. The Renewable Energy Laboratory uses the following equipment:

1. Wind power of 2KW Charge controller ~12V, Synchronous generator with permanent magnets ~12V, Lamp board ~12V, Off grid inverter etc.
2. PEM Fuel cell Fuel cell with DC converter, Electronic load, Metal hydride storage cell, Electrolyser, 200W/20V/10A.
4. Combined RF/DC Sputtering Unit for Coatings Applications.

9. Solar Radiation Laboratory

The Ministry of New and Renewable Energy (MNRE) has selected the IIT Jodhpur campus site as one of their solar radiation centers. Solar radiation measurement (Global and Direct), Humidity, Ambient temperature, Rain gauge and wind speed measurement are carried out at this center and the data is transmitted via a satellite link to the MNRE nodal center C-WET in Chennai. The instruments in this laboratory are powered by a couple of solar panels. The data collected from this center enables the solar resource assessment required for the setting up of solar thermal and solar photovoltaic power plants as outlined in the Jawaharlal Nehru National Solar Mission (JNNSM).
The Department of Physics has the following laboratories for teaching and research purposes.

1. Biomolecular Information Processing laboratory

This laboratory is involved in the understanding of information processing by various kinds of biomolecules and related synthetic molecules. The process involves in using a single molecule first and then a group of molecule on a given interface. The interaction among the molecules in a given external stimuli will help us understanding the communication among them.

2. Magnetic Property Measurement System (MPMS/SQUID)

IIT Jodhpur has created an excellent facility in the field of material characterization. Recently an additional dimension has been added to it by procuring magnetic property measurement system (MPMS). MPMS (SQUID) is getting installed in coming few months. This will provide a wide temperature 2 K – 1000 K range for both DC and AC magnetic measurements in conjunction with field dependent magnetic measurements. Such measurements will help to understand magnetic properties and associated spin dynamics in magnetic materials.

3. Materials Analysis Laboratory
The research focuses on the development of novel materials for different applications including materials for energy generation and storage. The current work includes the development of solution processable CIGS compound semiconductor materials for solar cell applications and transition metal oxide based materials for lithium ion batteries and supercapacitor applications. The laboratory is equipped with synthesis of bulk and thin films techniques such as sputtering, sol-gel process assembly etc., and numerous characterization techniques such as X-ray diffraction, Scanning electron microscope, Optical spectroscopic techniques, LCR meter, ferroic measurement system for bulk samples etc.

In addition, the group is also focusing on the development of multifunctional materials for different applications such as solar selective coatings, ferroic materials for high frequency absorbing system, and magnetic particles for different applications. The laboratory is equipped with state-of-the-art facilities to carry out thermal analysis, electrochemical analysis, surface morphology studies, separation techniques for chemicals, electrical conductivity measurement devices, glove box etc.

4. Physics Laboratory

The mission of the Physics laboratory at IIT Jodhpur is to provide students with experiential knowledge in basic physics. This laboratory has state-of-the-art facilities including specific equipment and is currently offering different experiments in Mechanics, Waves, Electricity, Magnetism, and Optics. Now the lab has facilities for experimenting with Speed of Light, Zeeman Effect, and Michelson Interferometer.
IIT Jodhpur provides round the clock health care facilities to Students, Faculty and Staff Members of the Institute, at its residential campuses. The Health Center has five doctors and five supporting staff members. Both the Residential Campuses have Health Centers for providing routine health services. Due to geographical locations of the two Campuses and the type of the residents, Health Center at GPRA Campus provides services to the patients round the clock, while medical services are available at BSNL Campus for limited hours in the evening, typically from 5 pm to 10 pm. In addition to the availability of medical services at Residential Campuses, medical assistance is available at Academic Campus. This assistance is normally provided from 3 pm to 4.30 pm, when laboratory sessions are in full swing and medical assistance may be required. The Institute has its ambulance services available round-the-clock.

Besides the Health Centers, the Institute has empanelled five hospitals in the city of Jodhpur. Two of these hospitals have specializations in ophthalmology and one in orthopedic, and the remaining two hospitals are the best known general purpose hospitals in the city. For specialized medical attention doctors at our Health Centers refer patients to one of these hospitals. In addition to these five hospitals, the city has a Medical College and three hospitals run by Government of Rajasthan. Also, the city All India Institute of Medical Sciences (AIIMS), which is nearly 12 km GPRA Campus and nearly 5 km from BSNL Campus. Also, the Institute has constituted a Medical Board consisting of Senior Doctors from the Medical College and the AIIMS; advice is taken for enhancement of medical services of the Health Centers and in critical medical cases. IIT Jodhpur has empanelled two hospitals in Jaipur. These two hospitals are accredited by National Accreditation Board for Hospitals & Healthcare, and patients can be referred to these hospitals as per the need of the treatment.

The Health Center coordinates and supervises the treatment of students, employees, and their dependents during hospitalization in other hospitals that are empaneled by the Institute, to provide in-patient care. Also, an ambulance is available in the GPRA Residential Campus for attending to any medical emergencies.

On request, the Health Center extends its health care services to Institute visitors during their stay in the residential campus. Under emergency circumstances medical services are also extended to the non-IIT Jodhpur community residents in the residential campus. Details like patient records, medicine procurement/disseurrence, assets, equipment of Health Center are all computerized.
**Sports Facilities**

Sports and games facilities to students are provided at four places, namely, the hostel premises, academic campus, playground of Vidhyashram International School, and in the new campus area of Jai Narayan Vyas University. Conveyance is taken care of by the Office of Logistics in the Institute. Students also enjoy a gymnasium facility at the residential campus.

**SC/ST Cell**

An SC/ST Cell for ensuring the proper utilization and adaptation of reservation policies and guidelines issued by the Government of India, is functional at IIT Jodhpur. The Cell deals with matters related to grievances received from SC/ST and OBC employees and students in the Institute. The Cell acts as a communicator between the Institute and the Ministry of Human Research and Development in matters related to SC/ST and OBC students and employees in the Institute. IIT Jodhpur has adopted the reservation policy while selecting the students for MCM scholarship. In addition, a substantial number of SC students whose total family income is limited to Rs. 6 lakhs per annum, are deriving the benefit of Central Sector Scholarship of Top Class Education available from the Ministry of Social Justice and Empowerment.
The Women Cell, IIT Jodhpur, functions in accordance with the provisions contained in Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act, 2013. The following are some activities organized by the Women Cell during FY 2015-16.

Public Lecture

The Women Cell of the Institute organized a lecture on “Sexual harassment at workplace and precedent law” by Advocate Dr. Nupur Bhati on 18 September 2015. Advocate Bhati, a serving lawyer in Rajasthan High Court, elucidated the provisions under the Sexual Harassment at Workplace Act, 2013 and touched upon some cases as examples. The lecture was attended by the Faculty Members, Staff Members, Students, and Members of Women Cell.

Celebration of 2016 International Women’s Day

2016 International Women’s Day was celebrated at the Indian Institute of Technology Jodhpur on 8 March 2016. The program was organized by Women Cell, IIT Jodhpur. Honourable Justice Jaishree Thakur, Sitting Judge of Rajasthan High Court, Jodhpur, who graced the occasion as the Chief Guest delivered the keynote address.

The Women Cell, IIT Jodhpur, on the occasion of the International Women’s Day, organized Logo Design and Slogan Writing Competitions for their Students and Employees, ahead of time. During this program, Prizes and Certificates of Appreciation were given away to the winners and runners up. A memento was presented to the Chief Guest.

On this day the Women Cell, IIT Jodhpur adopted an official logo and a slogan, which was released by the Chief Guest. They were the prize winning contributions from the Logo Design and Slogan Writing Competitions organized by the Women Cell, IIT Jodhpur. Thereafter, a short video on “Contribution of Women” was screened. The event concluded with a visit to the exhibition of the entries received in Logo Design and Slogan Writing competition organized by the Women Cell, IIT Jodhpur.
The Women Cell of the Institute organized a workshop on “Gender Intelligence” during 5-7 May 2016, for all employees of IIT Jodhpur. The workshop was conducted by Ms. Rashmi Datt and Ms. Mona Dutta from Dialog Services, Gurgaon. The first part of the workshop focused on assertive training aspect for women, which was attended by all women employees of the Institute. The second part of the workshop was for both men and women employees. The workshop was attended by the Faculty Members, Staff Members, and Members of Women Cell.
STUDENT ACTIVITIES

The “Student Gymkhana”, IIT Jodhpur, is divided into five "societies", and in turn each society is divided into several clubs. These societies fulfil the varied interests of the students and contribute to their holistic development. These six societies are:

1. Academic, Research and Management (ARM) Society,
2. Media, Arts and Design (MAD) Society,
3. Nurturing-Understanding Technology and Science (NUTS) Society,
4. Sports, Adventures, Games and Explorations (SAGE) Society, and

Academic, Research and Management (ARM) Society

The Academic, Research and Management (ARM) Society is a platform for all activities and initiatives related to Academics and Research. It encourages academic and research activities in Institute among students. Also, the society works towards effective involvement of students in the decision making. The Mission of the ARM Society is:

(a) To strengthen Student-Faculty interaction and take them beyond only formal association;
(b) To serve as a platform for students to undertake research projects under Faculty Members, and to create an environment of cognizance in the student community pertaining to the real-life problems; and
(c) To organize various technical meets and seminars to expose students to the recent discoveries and technological advancements and the innumerable opportunities that they can pursue.

The functions and responsibilities of the ARM Society are:
(a) To help individual students address their specific academic concerns;
(b) To coordinate with the centralized academic facilities such as Computer Centre, Library and Reading Room;
(c) To support the Senate of the Institute on matters such as revision of academic curriculum; and
(d) To share concerns of the students on academic and research matters.

The society deals with all matters regarding public relations and management of the various activities of all the societies of Students' Gymkhana which take place in the Institute. It helps in enhancing one’s personality, management skills, public speaking, writing and coordination with student colleagues, towards overall development of students. The following clubs operate under the society:

(a) Promotions Club
The Club writes content as well as reports for various Intra and Inter collegiate fests, special events and seminars, which are held throughout the year. Also, it coordinates for the content to be published in local media.

(b) Public Speaking and Personality Development Club
Public speaking is one very important aspect which shows the personality of an individual. The club organizes sessions to hone public speaking skills, increase confidence levels and makes students proficient in Public Speaking.

(c) Entrepreneurship Club
The club collaborates with the E-cells of other institutes and conducts various seminars and useful activities related to entrepreneurship.

(d) Resource Management Club
The main work of this club is to manage resources during various inter and intra-level activities efficiently.

(e) Finance and Case-Studies Club
Many individuals are faced with investing and financing decisions at some point in their life. Having a firm grasp over financial matters aids them in making those decisions. The club helps students undertake Case Studies which help to see how the complexities of real life situations influence decision making.

(f) Leadership Enhancement and All-round Development (LEAD) Club
This initiative aims at enhancing the overall personality and soft skills of the students, and prepares them for the professional world. Workshops organized by professionals skilled in personality grooming, resume writing, personal interview, etc. Group discussions, mock interviews and public-speaking sessions are conducted to train students for interviews and help in their personality development. Students get a real-world exposure, while getting expert guidance not only from professionals, but also from senior students.
Media, Arts, and Design (MAD) Society

Creativity is more than just being different. Anybody can plan being weird; that’s easy. What’s hard is to be simple. Making the simple, awesomely simple, that’s creativity. The society makes people develop their imagination, their talent; teaching them the advancement in technology to enhance their knowledge in their field of interest. The society has its independent activities, workshops and competitions under the following areas of interest:

(a) **Animatrons (The Animation Club)**

The Club teaches students to bring the animator out of them, via workshops by professionals and its own team. With the blend of Stop Motion Animation and Software Animation, the Club moves towards paper animation, 2D and 3D graphics animation, pixilation, flash light animation.

(b) **Ateliers (The Fine Arts Club)**

To play with colours is the passion of this Club. Training is imparted to students via workshops and competitions in fine or decorative arts. We organize a lot of activities of interest like painting, sketching, glass etching, face and T-shirt Painting, wax carving, and graffiti workshops. This Club gives shape to various festivals of IIT Jodhpur.

(c) **Designerds (The Designing Club)**

The Club designs logos, posters, newsletters, T-shirts, etc. The Club has given some of the best designers, who can train with software, like Adobe Photoshop, Indesign and Illustrator. The Club members excel in graphic designing which promotes thoughts and imagination. Also, the club has won competitions in Mood Indigo – IIT Bombay.

(d) **Frame-X (The Film Making and Video Editing Club)**

The Club makes videos, record and edits them. The Club, constantly and actively, takes part in various Inter-College Fests presenting short films or documentaries which have gained popularity. The Club members use the most sophisticated HandyCams, GoPro cameras dealing with software, like Windows Movie Maker, Sony Vegas and Adobe After Effects.

(e) **Porta Talkies (The Movie Screening Club)**

The Club is responsible for screening of movies, matches and on demand talks.

(f) **Shutterbugs (The Photography and Photo-Editing Club)**

The Club consistently holds its workshops on Photoshop and provides hands on experience on technically sound semipro DSLR Cameras. The Club holds responsibility of all media coverage of student activities IIT Jodhpur.

Nurturing-Understanding Technology and Science (NUTS) Society

With the thought “Imagination is more important than knowledge”, the Science and Technology Society (NUTS) of IIT Jodhpur provides students an opportunity to think beyond the conventional boundaries of science, to realize their dreams and develop the technology for the next generation. The following clubs operate under this society:

(a) **Aeromodelling Club**

The Aeromodelling Club is a group for aviation and Aeromodelling enthusiasts in the Institute. The Club provides students an opportunity to make rockets, gliders, planes, hovercrafts and fly them up in the air. The activities of the Club include lectures and workshops on various Aeromodelling and aviation topics and working on small projects.
(b) **Automobile Club**

The Club promotes students to design and make their own car. The Club has developed an eco-friendly manual cum electric driven vehicle. The Club is associated with an international body, Society of Automotive Engineers (SAE), and encourages and prepares students to participate in national level competitions such as Effi Cycle and Baja.

(c) **Astronomy Club**

The Club organizes regular lectures and discussions to help students develop a better understanding of those astronomy phenomenons in nature. The Club made a record at the Inter IIT-Tech Meet 2014 by detecting 72 objects in the overnight observatory competition “The Messier Marathon”.

(d) **Electronics Club**

The Club makes students familiar with electronic circuits, and teaches them skills like working on mini computers (such as beagle bone, Raspberry pie). Also, the club makes students familiar with analog as well as digital electronics through various lectures and competitions organized throughout the year.

(e) **Robotics Club**

The Club conducts regular lectures and workshops to provide students a hand on experience on technologies, such as DTMF, image processing, and motion sensing. Today the Club is an active platform for students to display and develop their practical machine-building skills and knowledge.

(f) **Programming and Web Designing Club**

With regular lectures, competitions and winter coding camp, the Club provides students a chance to learn from people around them and improve their coding skills. Students get a chance to sit with a group of like-minded people and prepare for various national and international level coding competitions.

(g) **Science Club**

The Club provides students an opportunity to solve the Rubik’s Cube, make their own angry bird station, and play with air gun, Rube Goldberg etc. The activities of this club tests students’ imagination skills and help to improve it.

**Sports, Adventures, Games and Explorations (SAGE) Society**

Sports are known for producing the most remarkable athletes, colourful characters, influential leaders and memorable heroes. IIT Jodhpur Sports and Games Society reflects the same spirit of introducing sporting activities to the campus community. This society aims to promote sports and exercise in the true spirit of sportsmanship and motivate students to work with team spirit. The Society strives and endeavours to inculcate and introduce this essential activity as a part of the routine in every student's life. All efforts are made to bring out and encourage the sports person in each one under the guidance of professional coaches and with best sporting facility.

Individuals can be strong on their own, but they are much stronger in a team. Victory achieved alone can be sweet, but there is nothing sweeter than sharing that moment with fellow members. One of the rare times in life one learns to play with his friends and some of his enemies, and yet learns to respect each one of them for the innate respect of the sport. That is the essence of introducing sports in a student's life to instill the qualities of vigour, sacrifice
and overall sportsman spirit. The society organizes the Institute team that participates in Inter IIT Sports Meet held annually at any one of the IITs. Inter-IIT Championship title is much coveted in the whole IIT Jodhpur family. It is the place where every sports student is given the opportunity to showcase his/her talent in respective sports and to wear the jersey and run around the grounds representing the glorified history of respective IITs along with the responsibility to continue the legacy. Every Inter-IIT player has this unique urge to win the game for the pride and the honour of the Institute, for the blood, and the tears and the sweat to make a team and to earn the spot. The Institute has representation in the sports, like Aquatics, Athletics, Badminton, Basketball, Cricket, Football, Lawn Tennis, Squash, Table Tennis, Volleyball, and Weightlifting at Inter IIT Sports Meet.

The Institute has many sporting events lined up throughout the year, which act as a platform to showcase your talent and to keep the adrenaline levels racing. Every year the council organizes an Intra-Institute Sports Festival called “KRIDANSH”. This sports fest is designed to attract mass participation. It sees the best sporting talents in the Institute pitted against each other to fight for the glory of their respective branches. It has games like tug of wars, Kho-Kho and Kabaddi, along with regulars.

In addition to sports, the society arranges several adventure tours and coordinates the Carrom Club, the Chess Club, the Skating Club, the Yoga Club and the Joggers Club.

**Writing, Awareness, Vocals, Entertainment, and Social (WAVES) Society**

WAVES is the fountainhead of all cultural activities in the institute. It provides students opportunities to pursue their passion for performing arts and in honing their aesthetic sensibilities. Under WAVES, there are five Clubs, which function throughout the year.

(a) **Dance Club**

The Dance Club organises activities ranging from Intra Institute to Inter-Collegiate events with a special emphasis on workshops on different dance forms. The team, with name ‘dEFFATHEbEAT’, has participated in different college festivals across country, including Chaos (IIMA) and Mood Indigo (IITB) and has also been selected in Indian Hip Hop Dance Championship auditions.

(b) **Music Club**

The Music Club is all about passion and the platform you need to showcase them. Spanning from the students' band performances for freshers, to the live stages of college festivals, Music Club brings opportunities for all the interested students. The major highlights include Unplugged Nights and the Musical Extravaganza. Apart from these, music learning sessions are conducted for the beginners.

(c) **Quiz Club**

The main aim of the Club is to generate interest in quizzing as a fun activity that everyone can indulge in and at the same time gain some handful amount of knowledge. The Club organizes interesting Quiz contests/sessions throughout the year to expose students to the artistic world of Quizzing and provide a platform to contest at several national and intra-collegiate quizzes.
(d) Drama Club
The Club, also known as “DRAMEBAAZ”, performs a variety of plays which are both didactic and simultaneously entertaining. Nukkad performance is the highlight of the Republic and Independence Day celebrations in the Institute, and is quite applauded by the audience, leaving them awestruck every time. Also, it performs stage plays.

(e) Literature Club
The Club works on the vision to explore a whole new world of books, belles-letters and the magic of words. The Club is not all about writing, but hosts fun events like Jam, Shout, Hurdles, and Debates. Language is no bar; we have both Hindi and English Literature Clubs.

(f) SPIC MACAY Club
The Society for the Promotion of Indian Classical Music And Culture Among Youth (SPIC MACAY) is a society that helps protect and popularize our rich Indian heritage. SPIC MACAY IIT Jodhpur Chapter was formalized in the year 2012.
Student Fests & Events

The Student Gymkhana of the Institute organizes events with dual purpose. On the one side, these events help engage students in creative work during their leisure hours and thereby build skills and interests in them. And, on the other side, these events help students to self-organise themselves and provide platforms for others to excel.

The events organized by the Student Gymkhana can be seen in two streams, namely:
1. Inter-Institute Festivals and Tournaments; and
2. Intra-Institute Festivals and Championships.

The students were successful in nurturing a culture filled with energy and initiative. They have organized events which served as a medium of communication and bonding amongst themselves. Major festivals like Ganesh Chaturthi, Diwali, Sankranti, Eid and Holi were celebrated with great enthusiasm. Sports activities were also regularly conducted to encourage sportsmanship, which were supported by the Faculty Members. The following are some of the major student activities that had taken place in the campus in the year 2014-15.

INTER-INSTITUTE FESTIVALS

VARCHAS

Varchas is the inter-collegiate sports festival of IIT Jodhpur. The festival celebrates the spirit of sportsmanship and serves as a platform to showcase countless hours of perspiration put in by college teams to achieve excellence in sports. Varchas was first conducted in the year 2011, with a vision of promoting sports among the colleges of India, and providing the athletes in India, a platform to showcase their talent. Competitions are held in the fields of football, cricket, table tennis, lawn tennis, badminton, squash, volleyball, basketball and athletics in national level stadiums of Jodhpur. Varchas promotes healthy competition and is a great opportunity for the teams to prove their mettle in their respective sports.

Moreover, belonging to the educated core of the country, the students of IIT Jodhpur try to fulfil their social obligation through “Soch -The Social Aspect of Varchas”. Soch is a platform where the students take up pertinent social issues and try to find possible solutions through discussions and debates; spread awareness and conduct drives to involve people spanning across varied backgrounds. An attempt is made to create a profound social impact for the amelioration of the society.

In 2015, this sports festival was organized from 29 October to 1 November. The Chief Guest at Varchas 2015 was Padma Shri Limba Ram, an Indian archer from Rajasthan. Varchas 2015 witnessed a footfall of over 1000 participants and various competitions were conducted in events like athletics, volleyball, cricket, football, table tennis, basketball, aquatics, chess and badminton.
In 2015, the Soch team put their best foot forward to organize the following events as part of Soch.

(a) **Awaaz**: A panel discussion was conducted with a great contribution from some renowned speakers and students from all over the city of Jodhpur on the theme “Importance of Sports in Education”.

(b) **Intra and Inter School Competitions**: To understand the outlook of younger generation who are tomorrow’s responsible citizens, a visit was undertaken to some schools in Jodhpur. Competitions like drawing, essay writing, were conducted to get a reflection of their thoughts and ideas regarding cleanliness.

The fest concluded with Director’s Dinner hosted in the Temporary Academic Campus of IIT Jodhpur on 1 November 2016. The marathon, which is a part of Varchas 2015, was organized on 17 April 2016 at 6 am in coordination with the Jodhpur Development Authority (JDA). The theme of this year’s marathon was “Smart and Swacch Jodhpur”. An overwhelming response was received from the people and athletes from across the state of Rajasthan.
IGNUS

IGNUS, the techno-cultural fest of IIT Jodhpur was celebrated from 25-28 February 2016. The fest was opened by famous Sitar player Shujaat Khan on 25 February 2016 with collaboration of Spic Macay. Robosoccer, Nrityansh, Clash of Bands, Robowar, Antarang, IGNUS Open 2016 were the flagship events that were organised during this fest. Workshops on Android App Development, Bridge Designing, Augmented Reality, Vehicle Overhauling, Ethical Hacking, Embedded System, Entrepreneurship, Data Science & machine Learning, Serial & Wireless Communication, Placement Etiquettes, and Quadcopter were organized during this event. Famous singer Krishnakumar Kunnath, popularly known as KK performed during the pronite.

An Alumni Meet was also organized on 27 February 2016. Professor Prawal Sinha, Professor In-Charge (Faculty), IIT Jodhpur, Anand Krishnan Plappally, Faculty In-Charge, Alumni Relation Committee, IIT Jodhpur, and Damayanti Bhattacharya, CEO, IIT Bombay Alumni Association addressed the Alumni of IIT Jodhpur.
IIT Jodhpur Student Gymkhana hosts Intra-Institute Festivals for its own student community. They are:

(a) **Spandan**

Spandan is the Intra-Institute cultural fest of IIT Jodhpur, usually the first fest of the session. It draws an enthusiastic crowd, eager to portray their talents in the cultural arena. Versatility in the various categories is extensive, with competitions organized in fields, like drama, dance, singing, literature, photography events, informals and fashion show. Three days of Spandan awakens the whole campus leaving the students to prepare all night. Spandan is one of the first public occasions to take place in the year, and hence it brings together students from all years to interact with each other. Participation with zeal and showcasing the hidden creativity tamed inside an individual, are the motives of the fest.

(b) **Nimble**

Nimble, the Intra-College technical fest provides a platform to the techno buds of the Institute to show their hidden talent. Nimble comprises of four action packed days, filled with a great variety of tech and science events ranging from intense mind boggling events (such as robotics, electronics and programming) to fun filled events (like angry bird, quizzes, and crypto)). Apart from the events, talks are organized by eminent personalities in the field of Science and Technology, to motivate students to work harder, as there is no end to discoveries and inventions.

(c) **Kalakriti**

Kalakriti is a mixed bag of fun-filled competitions, interesting workshops and back-to-back movie screenings. “Because everything you can imagine is real!” : this line wakes up the dormant talent amongst students and the output is sudden burst of colors. With a multitude of events ranging from Fine Arts and Clay Modelling, to Photography and Video Editing, ‘Kalakriti’ witnesses huge participation from designers and non-designers alike. Events like ‘Scribble Day’ brings together the entire final year batch of students, whom all the other students bid adieu and leave a farewell message or graffiti on a common piece of cloth given to them. A great way to bring smile on everyone’s face, ‘Kalakriti’ succeeds in spreading joy, unity and togetherness in the small tight-knit community of ours.

(d) **Kridansh**

Kridansh is organized to give sports enthusiasts a chance to pursue their passion in sports. Matches are organized both outdoor and indoor, such as Gully Cricket, Street Football and Single Court Basketball, Chess, Carroms, Badminton, Table Tennis, and Swimming. Full-fledged dedication from participants and organizers makes Kridansh one of the liveliest events of the year.
“Framed 2016” Art Exhibition

“Framed” is the annual Art Exhibition of IIT Jodhpur conducted by the Media, Arts and Design Society, Students Gymkhana, IIT Jodhpur. The main motive of ‘Framed’ is to promote and showcase the artwork done by the students of IIT Jodhpur throughout the year. This year it was organised on 13 March 2016, in the Institute. It includes the Photography, Photo Editing, Posters designed by Students, and Sketches & Paintings made by the Students. For the first time, this event was opened for people outside of the Institute. There were entries from all over the country. The exhibition recorded a considerable footfall from students of other colleges and local public of Jodhpur. Mr. Ravi Dhingra, Canon Photo Mentor, who has been a judge in many national level competitions, was Chief Guest for the event.
## Scholarships to Students

The following III Year B.Tech. students have received academic scholarships for Summer 2016.

<table>
<thead>
<tr>
<th>Scholarship</th>
<th>Funding Agency</th>
<th>Period of Scholarship</th>
<th>Names of Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>S. N. Bose Scholars Program</td>
<td>DST and the Indo-US Science and Technology Forum (IUSSTF)</td>
<td>3 Months (from May to July, 2016)</td>
<td>V. Ashwin (Electrical Engineering)</td>
</tr>
</tbody>
</table>

**GRIDTECH 2015 Award to IIT Jodhpur Students**

Aniruddh Ramrakhyani, Suryateja Voruganti, and Alvin Roy Aliath, final year B.Tech. (Electrical Engineering) students were awarded Second Prize at the Student Innovation Pavilion of 5th International Exhibition and Conference GRIDTECH 2015, for their project “Short-time Transformer-less Dynamic Voltage Restorer”. They carried out the project under the guidance of Dhaval C. Patel, Assistant Professor, Department of Electrical Engineering. The prize was given away by Shri Girish Pradhan, Chairman, CERC. Supported by the Ministry of Power (Government of India), the event was organised by PGCIL from 8-10 April 2015 at Pragati Maidan, New Delhi.
IIT Jodhpur Students qualify for SAE BAJA 2016

Team VAAYU 2.0 of Automobile club at IIT Jodhpur is participating in BAJA 2016 - an all-terrain vehicle design competition organised by SAE India. The virtual round of competition was held at Chitkara University, Patiala, Punjab on 10th and 11th July 2015. VAAYU 2.0 qualified for the final event with scoring of 92.64/100 in presentation component which is 13th rank out of 152 teams qualifying and about 400 teams participating in the event. After qualifying in virtual round, the team will be gearing up for developing an all-terrain vehicle to participate in the final round of competition which will be held at NATRIX, Pithampur, Madhya Pradesh, during February 2016.

Photographic Talent of IIT Jodhpur Students showcased at a photography exhibition in Denmark

Photographic talent of three students of IIT Jodhpur, was showcased at a photography exhibition “Sparks from India: A photographic journey through incredible India”, in Denmark. These students are:

1. Himanshu Sahu, B.Tech. Class of 2015 (Mechanical Engineering),
2. Mohit Gupta, III Year B.Tech. (Electrical Engineering), and

Their work has been on display at Gallerie Lorien in Denmark from 17 October to 14 November, 2015, along with the works of other professional artists from around the world.
Second Position in Techfest @ IIT Bombay

Counselling Service

The prime objective of the team is to organize the Orientation Program. This is especially tailored to bring the freshers up to speed with life in Institute, while maintaining a homely feel, and gently enabling the transition into this Institute. The Counseling Service has been an integral part of the Institute since its inception. Every year, it strives hard to ensure that every student gets to know IITJ at its most intricate levels, and absorb all that the Institute has to offer. Further, the Counseling Service Team takes care of special language needs that some students might face during this time. It spares no effort in this, and work towards making this transition memorable throughout their lives.

The Counseling Service Team consists of a Faculty Advisor with 30 students (called Student Guides) bestowed to work for welfare of students. A Student Guide is the backbone of the team, with every guide taking 8-10 freshers under his/her vision and guidance. The Student Guide works towards helping the student adjusts well in the hostel and in his academic life. The Student Guide keeps in continuous touch with the student and his/her family. The team ensures that not only the student, but his/her parents too get the opportunity to interact with the Student Guide, to maintain a healthy relationship. As part of this Counseling, it is the duty of the team to promote development of the student in all three aspects, namely:
1. Academics
2. Extra-Curricular
3. Personal

For this purpose, voluntary, confidential and free counselling service is offered for a wide range of issues that include:
1. Academic support: Providing information about the different academic programs of the Institute, imparting efficient time management skills and study skills;
2. Personal: Overcoming homesickness, adjusting to the new environment and related difficulties;
3. Counselling advocacy: Psycho-education and referral services to students;
4. Interaction with the Institute and the existing body of students; and
5. Encouraging students to discover their extra-curricular interests/hobbies.

Counselling service also focuses on the concerns and difficulties of the students by providing personal guidance to deal with problems arising during their college life at the Institute. The following activities are undertaken by the Counseling Services team:
1. Maintaining the Institute as a ragging free campus;
2. Organizing “Orientation Program” every year, for the sophomore batch so as to make them acquainted with the culture of IIT Jodhpur;
3. Organizing workshops related to:
   (a) Career counselling,
   (b) Stress management,
   (c) Time management,
   (d) Health care and hygiene,
   (e) Vocational training,
   (f) Relationship problems,
   (g) Coping with homesickness and
   (h) Addiction and others;
4. Conducting motivational talks by eminent speakers;
5. Addressing the academic problems of the students by conducting:
   (a) English language sessions for students from vernacular background, and
   (b) Basic Information Technology (IT) skill building sessions etc.;
6. Organizing interaction building events amongst students of different batches, and with faculty members etc.; and
7. Individually attending to problems of students with poor academic performance.

Launched in 2014, the IIT Jodhpur Counseling Service is continuing the Campus Mentoring System. In this system, a group of students are associated with one Faculty Member and one Staff Member, who in turn act as the Mentors of the students.

Yellow Day Celebrations

“Yellow is the best colour to create enthusiasm for life and can awaken greater confidence and optimism. As we get engrossed in our mundane routines, we forget to take a break and enjoy the little things in our life. What is needed is a moment where we stop and appreciate all the awesome things around us”. With this motive, IIT Jodhpur Counselling Service Team initiated a tradition this year to dedicate one day i.e., 12 February, to appreciate the good things in our life. On this day, all members of IIT Jodhpur Community were requested to wear clothes in the shades of yellow and join for a get together in the lawns of the Academic Campus. The team had put up yellow chart papers for the members to record their thoughts on “What makes you smile”. The event was attended by the Students, Faculty and Staff Members of the Institute.

Faculty Members greeting each other in yellow attires
Recording thoughts on “What makes you smile!”
Student Placement Cell

The Office of Student Placements (OSP) is run and managed by the students in sync with the official authorities, thereby taking care of the placement and internship procedures. The students coordinate the job of contacting various companies, their interaction with the students, arranging pre-placement talks, tests, and interviews.

In 2015-16, companies in core engineering, information and communication technology, and banking sector, government and public sector organizations have visited IIT Jodhpur for placements.

Total 96 of our students i.e., 90 B.Tech. Students and 6 M.Tech. Students, have been placed with different companies in the year 2015-16.

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Company</th>
<th>Number of Students Selected per Branch</th>
<th>Total Number of Students Placed</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Angara E-Commerce Pvt. Ltd.</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>2.</td>
<td>C42 Engineering India Pvt. Ltd.</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>3.</td>
<td>Coal India Limited</td>
<td>3 4</td>
<td>7</td>
</tr>
<tr>
<td>4.</td>
<td>Cognizant</td>
<td>5 1 3</td>
<td>9</td>
</tr>
<tr>
<td>5.</td>
<td>Cognizant Technology Solutions</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>6.</td>
<td>CRISIL</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>7.</td>
<td>D. E. Shaw India Software Pvt. Ltd</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>8.</td>
<td>Drishti Soft Solutions Pvt. Ltd</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>9.</td>
<td>Futures First Info Services Pvt. Ltd</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>10.</td>
<td>Grofers India Pvt. Ltd.</td>
<td>2</td>
<td>2</td>
</tr>
</tbody>
</table>

Their details of companies and placements are as below.
<table>
<thead>
<tr>
<th>S. No.</th>
<th>Company</th>
<th>Number of Students Selected per Branch</th>
<th>Total Number of Students Placed</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>ICT</td>
<td>SS</td>
</tr>
<tr>
<td>1.</td>
<td>Cognizant</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>2.</td>
<td>Tata Consultancy Services</td>
<td>2</td>
<td>2</td>
</tr>
</tbody>
</table>

**M. Tech. Postgraduate Students**

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Company</th>
<th>Number of Students Selected per Branch</th>
<th>Total Number of Students Placed</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>ICT</td>
<td>SS</td>
</tr>
<tr>
<td>11.</td>
<td>HCL Technologies</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>12.</td>
<td>HPCL</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>13.</td>
<td>IgniteWorld Pvt. Ltd.</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>14.</td>
<td>Ishi Systems</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>15.</td>
<td>JSW Energy Ltd.</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>16.</td>
<td>Larsen and Toubro</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>17.</td>
<td>Mahindra &amp; Mahindra Ltd.</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>18.</td>
<td>Maxheap Technologies Pvt. Ltd.</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>19.</td>
<td>Microsoft</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>20.</td>
<td>Morgan Stanley</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>21.</td>
<td>National Engineering Industries</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>22.</td>
<td>Nucleus Software Exports Limited</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>23.</td>
<td>Practo Technologies Pvt. Ltd.</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>24.</td>
<td>Samsung India Software Center (SISC)</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>25.</td>
<td>SteelWedge Technologies Pvt. Ltd.</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>26.</td>
<td>Tata Consultancy Services</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>27.</td>
<td>Tata Motors Ltd.</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>28.</td>
<td>Voylla Fashions Pvt. Ltd.</td>
<td>2</td>
<td>1</td>
</tr>
</tbody>
</table>

**Total Students Placed**

| M. Tech. | 29 | 28 | 22 | 11 | 90 |
Alumni Relations

The Office of Alumni Relations of the Institute works for the alumni of the Institute, no matter where the alumni live. The Office is a canvas of collective experiences and shared memories. We urge the Alumni to share with us your stories of both struggle and success. As brand ambassadors of the Institute and torch bearers of change, this special bond between the Alumni and the Institute, should be the catalyst for valuable exchange between the Institute and the big-wide world.

The Office of Alumni Relations is managed by the Alumni Relations Committee, consisting of two Faculty Members and four Students.

All students completing any specific degree program at IIT Jodhpur become Life Members with the Office of Alumni Relations and no fee is associated with the membership.

An Alumni Meet was organized on 27 February 2016. Professor Prawal Sinha, Professor In-Charge (Faculty), IIT Jodhpur, Anand Krishnan Plappally, Faculty In-Charge, Alumni Relation Committee, IIT Jodhpur, and Damayanti Bhattacharya, CEO, IIT Bombay Alumni Association addressed the Alumni of IIT Jodhpur.
Registered Students in IIT Jodhpur

IIT Jodhpur has, as on 31 March 2016, a total of 750 students registered in various programs offered by the Institute. The table and chart below depict the program-wise break-up of the registered students in the Institute.

<table>
<thead>
<tr>
<th>Program</th>
<th>Year of Registration</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ph.D.</td>
<td>2015</td>
<td>39</td>
</tr>
<tr>
<td></td>
<td>2014</td>
<td>34</td>
</tr>
<tr>
<td></td>
<td>2013</td>
<td>28</td>
</tr>
<tr>
<td></td>
<td>2012</td>
<td>18</td>
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<tr>
<td></td>
<td>2011</td>
<td>17</td>
</tr>
<tr>
<td></td>
<td>2010</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>139</strong></td>
</tr>
<tr>
<td>M.Tech.</td>
<td>2015</td>
<td>24</td>
</tr>
<tr>
<td></td>
<td>2014</td>
<td>16</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>40</strong></td>
</tr>
<tr>
<td>M.Sc.</td>
<td>2015</td>
<td>14</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>14</strong></td>
</tr>
<tr>
<td>B.Tech.</td>
<td>2015</td>
<td>112</td>
</tr>
<tr>
<td></td>
<td>2014</td>
<td>131</td>
</tr>
<tr>
<td></td>
<td>2013</td>
<td>169</td>
</tr>
<tr>
<td></td>
<td>2012</td>
<td>145</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>557</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Grand Total</strong></td>
<td><strong>750</strong></td>
</tr>
</tbody>
</table>

Program-wise Break up of Registered Students in IIT Jodhpur (as on 31 March 2016)
Following are lists of students registered in various programs offered by the Institute, detailed according to the Centers and Branches of the various programs.

**Ph.D. Students**

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Roll No.</th>
<th>Name</th>
<th>Center / Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>PG201081501</td>
<td>Belal Usmani</td>
<td>Energy</td>
</tr>
<tr>
<td>2.</td>
<td>PG201081502</td>
<td>Dharmendra Singh Rajpurohit</td>
<td>Energy</td>
</tr>
<tr>
<td>3.</td>
<td>PG201081504</td>
<td>Suresh Kumar</td>
<td>Energy</td>
</tr>
<tr>
<td>4.</td>
<td>PG201181001</td>
<td>Deepesh Patidar</td>
<td>Energy</td>
</tr>
<tr>
<td>5.</td>
<td>PG201181003</td>
<td>Pura Ram</td>
<td>Energy</td>
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<tr>
<td>6.</td>
<td>PG201181004</td>
<td>Vikas Pratap Singh</td>
<td>Energy</td>
</tr>
<tr>
<td>7.</td>
<td>PG201181005</td>
<td>Vikash Chandra Janu</td>
<td>Energy</td>
</tr>
<tr>
<td>8.</td>
<td>PG201181501</td>
<td>Lokesh Saini</td>
<td>Energy</td>
</tr>
<tr>
<td>9.</td>
<td>PG201181502</td>
<td>Surendra Singh Barala</td>
<td>Energy</td>
</tr>
<tr>
<td>10.</td>
<td>PG201182001</td>
<td>Abhay Samant</td>
<td>ICT</td>
</tr>
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<td>11.</td>
<td>PG201182005</td>
<td>Puneet Kumar Jain</td>
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<td>Ram Niwash Mahia</td>
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<tr>
<td>13.</td>
<td>PG201182007</td>
<td>Ravi Raj Choudhary</td>
<td>ICT</td>
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<tr>
<td>14.</td>
<td>PG201182009</td>
<td>Sapan Ranwa</td>
<td>ICT</td>
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<tr>
<td>15.</td>
<td>PG201182010</td>
<td>Saurabh Maheshwari</td>
<td>ICT</td>
</tr>
<tr>
<td>16.</td>
<td>PG201182501</td>
<td>Amit Bhati</td>
<td>ICT</td>
</tr>
<tr>
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Undergraduate Students

**B. Tech. Students, Batch 2012**

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FINANCIAL POSITION

The MHRD has released a sum of Rs. 14625.00 Lakhs as Grant-in-Aid under Normal Plan Head and Rs. 946.68 Lakh as opening balance as on 01-04-2015. The internal income of the Institute was Rs. 828.05 Lakh. The total Plan expenditure during the year was Rs. 13633.61 Lakh (Recurring Rs. 2852.76 Lakh and Non-Recurring Rs. 10780.85 Lakh).