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2014-15
Annual Report

Indian Institute of Technology Jodhpur

Come, join us in the sands of time …

Annual Report

2014-15

Indian Institute of Technology Jodhpur
Old Residency Road, Ratanada
Jodhpur 342011

Contents

From Director's Desk…

The Institute is in its formative years. Structural changes are bound to occur in such a growing Institute. Its principal stakeholders are playing the key role of steering these vital transitions. The eventual destination is to build an Institute that helps address the technology grand challenges of the nation. The current technology tracks adopted by the Institute are: Arid Zone Technologies, Critical Technologies, Healthcare Technologies, and Automotive Technologies.

Another special path the Institute has embarked on is towards strengthening its relationship with leading Industries of the nation – Mahindra & Mahindra Limited, Tata Motors Limited, L&T Limited, Tata Power Limited, TVS Motor Company Limited, and TCS Limited. IIT Jodhpur – Industry association has embarked on redefining the Technology Education model at the Bachelors level.

The year has been very active and resulted in significant discussions to better the Institute through focused vision, structural changes, and streamlining of processes.

C. V. R. Murty

IIT Jodhpur
Vision & Mission

VISION

The Institute shall promote technology thought and action, and 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 the core values of the Institute:

  (a) Students: Prepare competent Technology Graduates ready to meet Grand Challenges of India;

  (b) Staff Members: Train active functionaries of a process driven professional institute;

  (c) Faculty Members: Facilitate builders of an internationally competitive academic institute; and

  (d) Industries: 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

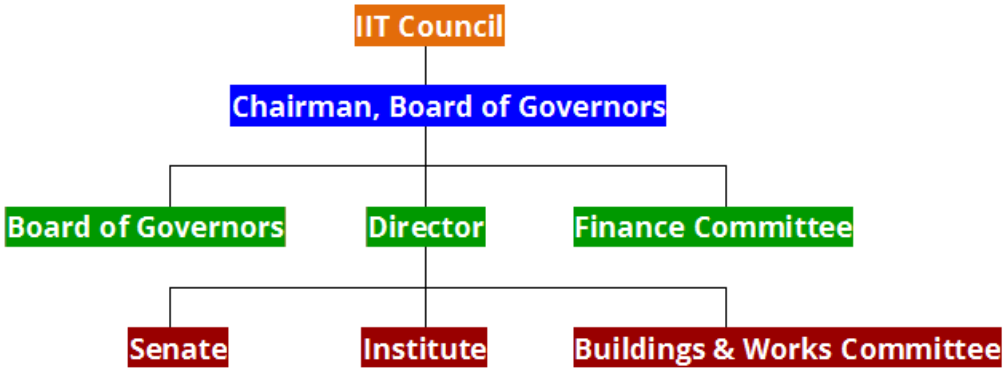
(6) Be continually responsible for upholding utmost confidentiality of all information and circumstances arising out of any interaction.

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**
   CMD National Scheduled Tribes Finance and Development Corporation
   NBCC Tower
   Plot No. 15
   Bhikaji Cama Place
   New Delhi 110066

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 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
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

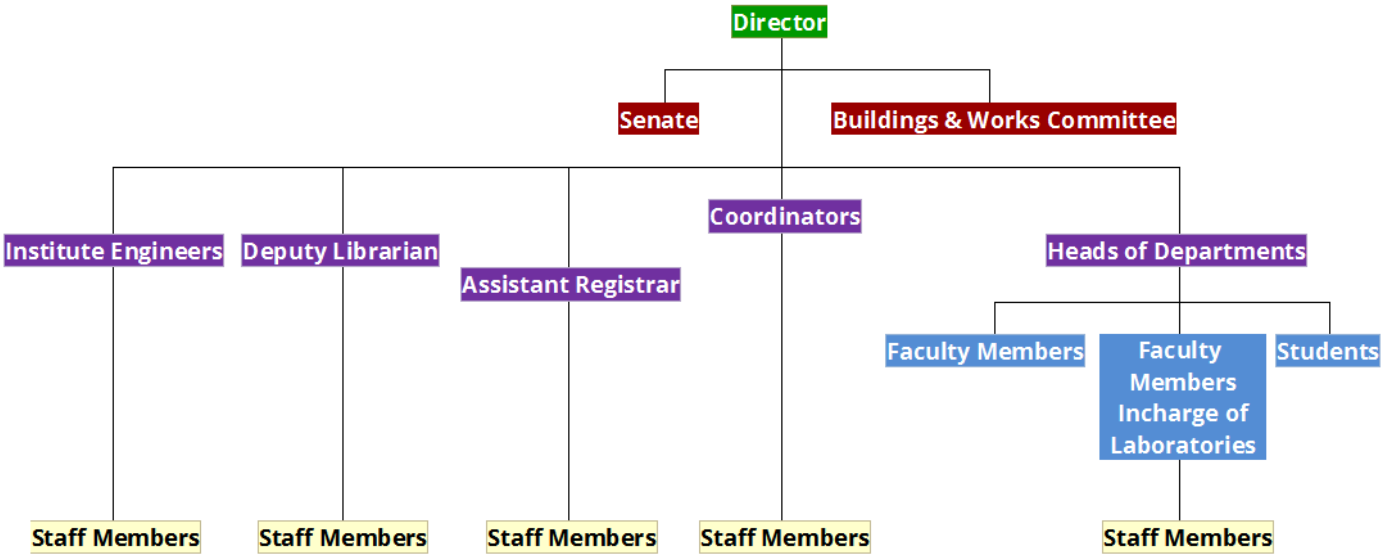
2. **Mr. R. K. Govil**
   Additional Director General Civil (Retd.), CPWD
   26, Ankur Apartments
   7, I.P. Extension
   Delhi 110092

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

Key Functionaries

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	Laboratories
Rakesh Kumar Sharma	Automation
Satyajit Sahu	Library
Sushmita Jha	Biologically Inspired System Science (Focus Group)
V. V. M. Sarma Chandramouli	Centre for System Science (Focus Group)

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

Chairman / Chairperson

Samanwita Pal	Council of Wardens
P. Manikandan	Student Placement Committee
Anil Kumar Tiwari	Medical Services Committee
V. V. M. Sarma Chandramouli	Logistics Committee
V. V. M. Sarma Chandramouli	Scholarships and Prizes Committee
Anand Krishnan Plappally	Alumni Relations Committee
Monika Sinha	Counselling Services Committee

Officers

Gaurav Harit	Chief Vigilance Officer
Rahul Chhibber	Transparency Officer
Puneet Sharma	Hindi Officer
Kirankumar R. Hiremath	Green Initiative Officer
Monika Sinha	Women Cell Officer
Amardeep Sharma	Public Relations Officer

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)

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

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 COMPUTER SCIENCE & ENGINEERING

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:

Faculty Member	Research Areas
 Venkata Ramana Badarla *Head of Department*	Wireless Networks, and Cloud Computing
 Abhishek Mishra	Algorithms & Complexity
 Gaurav Harit	Image and Video Analysis

The department also has an Adjunct Faculty Member, Professor Venkatesh Raman from Institute of Mathematical Sciences, Chennai.

DEPARTMENT OF ELECTRICAL ENGINEERING

The Department offers B.Tech. (Electrical Engineering), M.Tech. (Electrical Engineering) and Ph.D. Program with specialisation in Electrical Engineering. It has some state-of-the-art laboratory and research facilities.

The following Faculty Members are associated with the department:

Name	Research Areas
 Anil Kumar Tiwari *Head of Department*	Electrical Engineering: Image Processing, Video Processing, and Signal Processing application in Bio-Medical
 Abdul Gafoor Shaik	Protection of various components of Power System, Protection of Distribution Network with DG penetration, Power Quality assessment and mitigation in Distribution Networks with Renewable Energy Source penetration
 Arun Kumar Singh	Communication Theory, Wireless and Mobile Communications, Satellite based Navigation Systems, Spread Spectrum Systems
 Deepakkumar M. Fulwani	Control and state estimation of uncertain systems, Power system, Control issues in wind energy conversion system
 Dhaval Patel	Power Electronics and Drives
 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
 Shree Prakash Tiwari	Microelectronics & VLSI Technology, Microfabrication, Organic Electronics, Device Physics and Characterization, New Device Structures
 Vivek Dixit	Nanophotonic / Optoelectronic Devices, Semiconductor device physics, III-V semiconductors, Plasmonics

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.

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:

Name	Research Areas
 B. Ravindra *Head of Department*	Design, Dynamics, Vibration and Control
 Akshay Prakash	Computational Fluid Dynamics

 Anand Krishnan Plappally	Water, Water Management and Characterization of Engineered Materials
 Barun Pratiher	Dynamics of Machines and Structures, Flexible Robots, MEMS, Rotor Dynamics, Nonlinear Oscillations
 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

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:

Name	Research Areas
 Sushmita Jha *Head of Department*	Cellular and Molecular Neuroscience, Cell and Molecular Physiology
 Amit Kumar Mishra	Cellular and Molecular Neuroscience, Cell Cycle Regulation and Cancer
 Ganesh B. Bagler	Computational Biology and Bioinformatics, Complex Networks, Systems Biology, Complex Systems
 Karunakar Kar	Protein Biophysics, Amyloids and Collagens, Rationally Engineered Biomaterials
 Meenu Chhabra	Biological Science & Bio-Engineering: Renewable Bioenergy Bioremediation

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:

Name	Research Areas
 Rakesh Kumar Sharma *Head of Department*	Water splitting catalysis, solar hydrogen production, Macromolecule based molecular sensors, Heterogeneous catalysis for small molecule activation, Green chemistry, Catalysis for stereocontrol, Plastic electronics, Feedstock chemistry, Catalysis for energy solutions, Coordination Chemistry based of d- and f- block element and Water chemistry
 Ananya Debnath	Theoretical and Computational Chemistry
 Atul Kumar	Quantum Information Processing
 Manikandan Paranjothy	Theoretical and Computational Chemistry, Chemical Reaction Dynamics
 Samanwita Pal	Solution and solid state NMR and NQR spectroscopy

DEPARTMENT OF MATHEMATICS

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:

Name	Research Areas
 Kirankumar R. Hiremath *Head of Department*	Theoretical, mathematical and computational aspects of wave-matter interactions
 Bibhas Adhikari	Linear and Non-linear Algebraic Systems, Optimization Techniques, Network Systems
 Dinabandhu Pradhan	Graph Theory and Graph Algorithms
 Gaurav Bhatnagar	Wavelet Analysis, Fractional Transform Theory, Multimedia Security, Image Processing, Information Fusion

 I. Venkat Appala Raju	Financial Mathematics, Insurance Models
 Puneet Sharma	Topological Dynamics, Low Dimensional Chaos
 V. V. M. S. Chandramouli	Smooth Dynamical Systems, Renormalization of Unimodal maps and Henon-like maps
 Vivek Vijay	Financial Risk Analysis, Categorical Data Analysis, Regression

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:

Name	Research Areas
 Subhashish Banerjee *Head of Department*	Open Quantum Systems; Quantum Information; Non-Equilibrium Statistical Mechanics; Quantum Optics
 Ambesh Dixit	Semiconductors, multifunctional ferroics & materials for energy-fabrication & characterization, Photovoltaic materials & devices ab initio DFT study and device simulations
 Ashutosh Kumar Alok	Particle Physics and Cosmology
 Monika Sinha	Astrophysics, Astroparticle physics
 Satyajit Sahu	Information Processing in Biological Systems
 V. Narayanan	Optics and Solar Field Design, Plasmonics, Laser Produced Plasmas (LPP), Pulsed Laser Deposition (PLD), Plasma Diagnostics (Interferometry & Optical Emission Spectroscopy (OES)), Laser Matter Interaction and Laser Cluster Interaction

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

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:

Name	Research Areas
 Vidya Sarveswaran *Head of Department*	***English:*** Literature and Environment (Ecocriticism), Film and Literature, Literatures of the Global South, Regional Literatures in Translation, American Literature
 Ankita Sharma	***Psychology:*** Gerontology, Clinical and Positive Psychology
 Debabrata Pal	***Economics:*** Social Choice Theory, Law and Economics, Socio-economic Networks, Economic Theory
 K. J. George	***Philosophy:*** Applied Ethics, Ethics of Technology, Bioethics

 Mainak Mazumdar	***Economics:*** Intellectual Property Rights (IPR) and Pharmaceutical Industry, Productivity and Efficiency Analysis, Growth and Regional Development, Inequality Poverty and Social mobility
 Rijo M. John	***Economics:*** Health Economics, Health Policy, Applied Econometrics, Development Studies
 Snehlata Jaswal	***Psychology:*** Cognition, Psychometrics, Depression
 Sreekumar Jayadevan	***Philosophy:*** Philosophy of Science, Aesthetics of Design, Formal Logic, Philosophy of Technology
 V. Hari Narayanan	***Philosophy:*** Cognitive Studies, Evolutionary Theory, Analytic Philosophy and Mindfulness

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

Kshema Prakash	Deputy Librarian
Chaman Lal Airi	Executive Engineer (Electrical)
Sanjeeb Mukherjee	Executive Engineer (Civil)
Amardeep Sharma	Assistant Registrar
Manish Kumar Bhomia	Assistant Registrar
Ashish Kachhawaha	Superintendent
Gaurav Nigam	Superintendent
Sandeep Chandel	Superintendent
Vijay Borana	Senior Technical Superintendent
Narendra Kumar Singh	Technical Superintendent
Rimpesh Katiyar	Technical Superintendent
Chandresh Pareek	Junior Engineer
Vinay Kumar	Junior Engineer
Naresh Chouhan	Junior Superintendent
Sandeep Pareek	Junior Superintendent
Sharabh Pradhan	Junior Superintendent
Sudesh Kumar Agnihotri	Junior Superintendent
Bharat Pareek	Junior Technical Superintendent
Dheerendra Kumar Yadav	Junior Technical Superintendent
Poonam Chand Sankhla	Junior Technical Superintendent
Raju Peta	Junior Technical Superintendent
Rinkesh Kumar Mangal	Junior Technical Superintendent
Shailendra Pratap Singh	Junior Technical Superintendent
Amit Kumar Soni	Senior Library & Information Assistant
Chunni Chhatwani	Senior Library & Information Assistant
Kamleshkumar J. Patel	Senior Library & Information Assistant
Darsh Kumar Khatwani	Assistant
Gurpreet Kaur	Assistant
Pardeep Saini	Assistant
Sharad Srivastava	Assistant
Dhani Ram	Stenographer
T. Madhavi Lata	Stenographer
Ashok Kumar Lunia	Technician
Ram Singh Ratnu	Technician
Abhay Kumar Awasthi	Junior Assistant
Achinta Mondal	Junior Assistant
Adarsh Kumar Srivastava	Junior Assistant
Ajay Kumar Singh	Junior Assistant
Biswajit Pramanik	Junior Assistant
Goutam Sethiya	Junior Assistant

Rakesh Kumar	Junior Assistant
Rashmi Dhyani	Junior Assistant
Swati Kushwaha	Junior Assistant
Anurag Gupta	Junior Technical Laboratory Assistant
Pankaj Singh	Junior Technical Laboratory Assistant
Bhagya Wardhan	Junior Technician
Gajraj Sharma	Junior Technician
Ganpat Chowdhary	Junior Technician
Hemraj Dhodhawat	Junior Technician
Praveen Suthar	Junior Technician
Shubham Pandey	Junior Technician
Vivek Verma	Junior Technician

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)
    4. B.Tech. (System Science)
    5. B.Tech. (Biologically Inspired System Science)

2. Master of Technology Programs
    1. M.Tech. (Energy)
    2. M.Tech. (Information & Communication Technology)
    3. M.Tech. (System Science)

3. 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

4. Interdisciplinary Programs
    1. Ph.D. (Energy)
    2. Ph.D. (Information & Communication Technology)
    3. Ph.D. (System Science)

The Institute will be offering M.Sc. Program in Chemistry, Mathematics, and Physics, and M.Tech. Programs in Electrical Engineering and Mechanical Engineering from the ensuing academic year.

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.

3. **Sardar Patel University of Police, Security, and Criminal Justice, Jodhpur (12 June 2013)**

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

Collaborations with Industry

IIT Jodhpur is initiating 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.

So far, two series of Vanguard Lectures were organised since July 2014, namely:

1. Series 1: July - September 2014, and
2. Series 2: January - March 2015.

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

S. No.	Speaker & Topic
	Series 1: July – September 2014
(1)	Dr. Aravind Bharadwaj Head-Technology, Automotive & Farm Equipment Sectors Mahindra & Mahindra Limited, Chennai *"M & M Perspective on Emerging Automotive Technology Trends"* 23 July 2014
(2)	Dr. Siddhartha SenGupta Principal Scientist Tata Consultancy Services, New Delhi *"The Future of Information and Communication Technology"* 24 July 2014
(3)	Dr. Barun Chakrabarti General Manager and Head (R&D) Larsen & Toubro Limited, Mumbai *"Engineering – From Classroom to Real World: The L & T Perspective"* 25 July 2014
(4)	Dr. Vineet Kshirsagar Senior Director and Group Head (Government Business) Oracle India, Bangalore *"e-Governance"* 29 July 2014

(5)	Mr. Ashok Joshi Head - Vehicle Attributes & Tech Services Tata Motors Limited, Pune "*Vehicle Design*" 30 July 2014
(6)	Dr. S. Sekar Executive Director, Corporate (R&D) Bharat Heavy Electricals Limited, Hyderabad "*Challenges in Power Industry and BHEL's Technology Developments*" 30 July 2014
(7)	Professor M. Jagadesh Kumar NXP (Philips) Chair Professor, Department of Electrical Engineering Indian Institute of Technology Delhi, New Delhi "*Semi-Conductors: Driving our Future*" 30 July 2014
(8)	Dr. N. Kumar Former Director Defence Laboratory, DRDO, Jodhpur "*Nano-materials in Service of Human Kind*" 30 July 2014
(9)	Professor S. G. Dani Department of Mathematics Indian Institute of Technology Bombay, Mumbai "*Sequences of Numbers, Distribution, Randomness and Applications*" 19 August 2014
(10)	Professor Mohan Ramanan Department of English Hyderabad Central University, Hyderabad "*Some Aspects of English*" 25 August 2014
(11)	Professor K. Thyagarajan Department of Physics Indian Institute of Technology Delhi, New Delhi "*Electromagnetism and Optics*" 15 September 2014
	Series 2: January – March 2015
(12)	S. Dharmaraja Professor Indian Institute of Technology Delhi, New Delhi "*Probability, Statistics and Stochastic Processes with Application*" 14 January 2015

(13)	Raghuraman N. Govardhan Associate Professor Indian Institute of Science, Bangalore *"Types of Turbomachines and Various Fluid Phenomenon around us"* 19 January 2015
(14)	Raghuvir Tomar Professor LNM Institute of Information Technology, Jaipur *"Computational Electromagnetics and its Real World Application in Electronics and Communication Engineering"* 26 January 2015
(15)	L. V. Subramaniyam Senior Technical Staff Member IBM Research (India), Bangalore *"Artificial Intelligence: Real World Applications "* 27 January 2015
(16)	P. V. Madhusudan Rao Professor Indian Institute of Technology Delhi, New Delhi *"Journey of an Idea from Classroom to Market"* 29 January 2015
(17)	Timothy A. Gonsalves Director Indian Institute of Technology Mandi, Mandi *"OS Networks"* 2 February 2015
(18)	Gopala Krishna Srinivasan Professor Indian Institute of Technology Bombay, Mumbai *"Celestial Mechanics"* 13 February 2015
(19)	Asok K. Mallik Distinguished Professor Indian Institute of Engineering Science and Technology, Shibpur *"Design of Rigid and Compliant Planar Linkages – Theory to Practice"* 26 February 2015

Industry Immersion Program

The Institute has signed Memoranda of Understanding (MoUs) with five leading Indian Industries to strengthen its undergraduate technical education. The Industry Immersion Program, the unique flagship program of the Institute that blends the classical classroom B.Tech. Program with the 3-summer engagement in Industry, is being co-hosted with the following Industries:

Sl. No.	Industry
1.	**Larsen & Toubro Limited**

MoU signed on 9 February 2015

2.	**TVS Motor Company Limited**

MoU signed on 25 February 2015

3.	**Tata Motors Limited**

MoU signed on 16 March 2015

4.	**Tata Power**  MoU signed on 26 March 2015
5.	**Mahindra & Mahindra Limited**  MoU signed on 23 April 2015

The Institute is looking forward to sending its B.Tech. students to this Industry Immersion Program in the summer of 2015.

RESEARCH

R & D Projects

The Faculty Members in the Institute are currently working on 32 sponsored research projects. Their details are:

S. No.	Project Title
1.	**Enabling Technologies for Intelligent Wireless Sensor Network for Health and Environment Monitoring** *Department of Science & Technology (DST), Government of India* *PI: Anil Kumar Tiwari* *Rs. 75 Lakhs*
2.	**Development of Programmable Emulator for Photovoltaic Plant to Facilitate Complex Testing Requirements** *Science and Engineering Research Board (SERB), DST, Government of India* *PI: Deepakkumar M. Fulwani* *Rs. 9.48 Lakhs*
3.	**Development of Metal Doped TiO_2 Low Dimension Structures by Sputtering for Gas Sensing Applications** *Board of Research in Nuclear Sciences (BRNS), DAE, Government of India* *PI: Mahesh Kumar* *Rs. 17.46 Lakhs*
4.	**Reproductive Child Health** *UNICEF, Jaipur Branch* *PI: Sandeep Kumar Yadav* *Rs. 38.52 Lakhs*
5.	**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*
6.	**Bifurcation and Stability Assessment of a Highly Lightweight Rotor-Bearing System with Moving Platform** *Science and Engineering Research Board (SERB), DST, Government of India* *PI: Barun Pratiher* *Rs. 21.8 Lakhs*
7.	**Establishment of the Centre of Excellence in Solar Thermal Research and Education** *Ministry of New & Renewable Energy, Government of India* *PI: Laltu Chandra* *Rs. 40 Crores*
8.	**IOC-BHEL-IITJ CSP Plant** *Indian Oil Corporation Ltd.* *PI: Laltu Chandra* *Rs. 60 Lakhs*
9.	**Identification, assessment and characterization of E3 ubiquitin ligases implicated in the neurodegenerative diseases** *Department of Biotechnology (DBT), Government of India* *PI: Amit Mishra* *Rs. 74.5 Lakhs*

10.	**Understanding the molecular function of MGRN1 in Chaperone Mediated Autophagy** *Department of Biotechnology (DBT), Government of India* *PI: Amit Mishra* *Rs. 41.19 Lakhs*
11.	**How AMFR gene regulates cell division and cancer after stress exposure?** *Board of Research in Nuclear Sciences (BRNS), DAE, Government of India* *PI: Amit Mishra* *Rs. 23.9 Lakhs*
12.	**Self-assembly of collagen peptides as foundational knowledge for cardiovascular disease** *Board of Research in Nuclear Sciences (BRNS), DAE, Government of India* *PI: Karunakar Kar* *Rs. 18.43 Lakhs*
13.	**Bioremediation of low level wastes including denitrification using microbial fuel cells** *Board of Research in Nuclear Sciences (BRNS), DAE, Government of India* *PI: Meenu Chhabra; Co-PI: Atul Kumar* *Rs. 23.73 Lakhs*
14.	**Development of low cost Microbial Carbon capture (MCC) cells for algae cultivation and powers generation** *Department of Biotechnology (DBT), Government of India* *PI: Meenu Chhabra* *Rs. 172 Lakhs*
15.	**Deposition of particulate matter in lungs** *Board of Research in Nuclear Sciences (BRNS), DAE, Government of India* *PI: Sushmita Jha* *Rs. 24.79 Lakhs*
16.	**Role of the inflammasome associated proteins in glioma** *Science and Engineering Research Board (SERB), DST, Government of India* *PI: Sushmita Jha,* *Rs. 22.30 Lakhs*
17.	**Dual scale simulations of surfactant, co-surfactant water system** *Science and Engineering Research Board (SERB), DST, Government of India* *PI: Ananya Debnath* *Rs. 21.7 Lakhs*
18.	**Chemical Dynamics Simulations of Complex Organic Reactions** *Science and Engineering Research Board (SERB), DST, Government of India* *PI: Manikandan Paranjothy* *Rs. 18.7 Lakhs*
19.	**Generation, Storage and Distribution of Solar Hydrogen** *Department of Science & Technology (DST), Government of India* *PI: Rakesh Kumar Sharma* *Rs. 39.63 Lakhs*
20.	**Asymmetric Hydrogenation on Carbon Nanotube Surface** *Department of Science & Technology (DST), Government of India* *PI: Rakesh Kumar Sharma* *Rs. 25.25 Lakhs*
21.	**Molecular Sensors: Synthesis and Anion Recognition Studies** *Science and Engineering Research Board (SERB), DST, Government of India* *PI: Rakesh Kumar Sharma* *Rs. 27 Lakhs*

22.	**Catalytic Upgrading of Bio-Oil to Transport Fuel** *Department of Biotechnology (DBT), Government of India* *PI: Rakesh Kumar Sharma* *Rs. 94.79 Lakhs*
23.	**Multimedia security based on biometrics for copyright protection and authentication** Science and Engineering Research Board, DST, Government of India *PI: Gaurav Bhatnagar* *Rs. 22 Lakhs*
24.	**Development of III-Nitrides thin film(s) for high frequency saw device applications** *Department of Space, Government of India* *PI: Ambesh Dixit* *Rs. 22.62 Lakhs*
25.	**Development of Ferroelectric and their composite with hexaferrites for microwave absorption applications** *Defence Research & Development Organization, Jodhpur* *PI: Ambesh Dixit* *Rs. 9.55 Lakhs*
26.	**Investigation of Magnetoelectric coupling in Cu1-xTMxO Multiferroic System** *Board of Research in Nuclear Sciences (BRNS), DAE, Government of India* *PI: Ambesh Dixit* *Rs. 23.42 Lakhs*
27.	**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*
28.	**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*
29.	**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*
30.	**Graph Theoretical Aspects in Quantum Information Processing** *Council of Scientific and Industrial Research, New Delhi* *PI: Subhashish Banerjee* *Rs. 9.92 Lakhs*
31.	**Language, Cognition & the Human Mind** *Ministry of Human Resource Development, Government of India* *PI: Hari Narayanan V.* *Rs. 0.5 Lakhs*
32.	**Where the Bougainvillea Blooms: Stories of Place from a Resilient Landscape** *M. R. A. R. Educational Foundation* *PI: Vidya Sarveswaran* *Rs. 0.5 Lakhs*

Research Achievements

For his outstanding contribution in the field of Materials Engineering and Microelectronics, Mahesh Kumar has been decorated with INSA Young Scientist Medal at the INSA Annual Convention in December 2014. This award carries a medal, citation, cash prize of Rs. 25,000/- honorarium to the candidate, start-up research support with seed money of Rs. 5 lakhs per year for a period of three years and a visit abroad with full support for presenting research work at conferences, and/ or participating in collaborative/ training research projects wherever possible.

This prestigious award was given for his work on thin films of polar and non-polar Group III-Nitrides as grown by Molecular Beam Epitaxy. This work has led to the fabrication of blue emitting InGaN/GaN multiple quantum well LEDs. More recently he has initiated a program on ZnO thin films and nano structures for sensors at IIT Jodhpur.

Faculty Publications

JOURNAL PUBLICATIONS

In 2014-15, our Faculty Members have published 50 research papers and articles in scholarly journals; 19 of their works have been covered as conference presentations and in conference proceedings; one edited book and one chapter have been contributed. The following is a list of these research works.

1. **Bhatnagar, G.**, & Jonathan Wu, Q. M. (2014). *A novel chaos-based secure transmission of biometric data.* Neurocomputing, *147*, 444–455.
2. **Bhatnagar, G.**, & Liu, Z. (2015). *A novel image fusion framework for night-vision navigation and surveillance.* Signal, Image and Video Processing, 1–11.
3. **Bhatnagar, G.**, & Wu, Q. M. J. (2014). *Biometric Inspired Multimedia Encryption Based on Dual Parameter Fractional Fourier Transform.* IEEE Transactions on Systems, Man, and Cybernetics: Systems, 44(9), 1234–1247.
4. **Bhatnagar, G.**, Jonathan Wu, Q. M., & Atrey, P. K. (2014). *Robust logo watermarking using biometrics inspired key generation.* Expert Systems with Applications, 41(10), 4563–4578.
5. **Bhatnagar, G.**, Saha, A., Wu, Q. M. J., & Atrey, P. K. (2014). *Analysis and extension of multiresolution singular value decomposition.* Information Sciences, 277, 247–262.
6. **Bhatnagar, G.**, Wu, Q. M. J., & Liu, Z. (2015). *A new contrast based multimodal medical image fusion framework.* Neurocomputing, 157, 143–152.
7. Bisoyi, S., Zschieschang, U., Kang, M. J., Takimiya, K., Klauk, H., & **Tiwari, S. P.** (2014). *Bias-stress stability of low-voltage p-channel and n-channel organic thin-film transistors on flexible plastic substrates.* Organic Electronics, 15(11), 3173–3182.
8. Chakrabarti, R., **Debnath, A.**, & Sebastian, K. L. (2014). *Diffusion in an elastic medium: A model for macromolecule transport across the nuclear pore complex.* Physica A: Statistical Mechanics and Its Applications, 404, 65–78.
9. Chaudhary, G., **Sharma, R. K.**, & **Plappally, A. K.** (2014). *Local material composite sintered systems for fluoride removal.* Desalination and Water Treatment, 1–12.
10. **Chhabra, M.**, Mishra, S., & Sreekrishnan, T. R. (2015). *Combination of chemical and enzymatic treatment for efficient decolorization/degradation of textile effluent: High operational stability of the continuous process.* Biochemical Engineering Journal, 93, 17–24.
11. Chhangani, D., Chinchwadkar, S., & **Mishra, A.** (2014). *Autophagy coupling interplay: can improve cellular repair and aging?* Molecular Neurobiology, 49(3), 1270–1281.
12. Chhangani, D., Nukina, N., Kurosawa, M., Amanullah, A., Joshi, V., Upadhyay, A., & **Mishra, A.** (2014). *Mahogunin ring finger 1 suppresses misfolded polyglutamine aggregation and cytotoxicity.* Biochimica et Biophysica Acta (BBA) - Molecular Basis of Disease, 1842(9), 1472–1484.

13. Chhangani, D., Upadhyay, A., Amanullah, A., Joshi, V., & **Mishra, A.** (2014). *Ubiquitin ligase ITCH recruitment suppresses the aggregation and cellular toxicity of cytoplasmic misfolded proteins.* Scientific Reports, 4:5077, 1-12.

14. Chourasia, V. S., **Tiwari, A. K.**, & Gangopadhyay, R. (2014). *A novel approach for phonocardiographic signals processing to make possible fetal heart rate evaluations.* Digital Signal Processing, 30, 165–183.

15. Dani, S. G., Shah, R., & **Sharma, P.** (2014). *Affine almost automorphic actions on compact nilmanifolds.* Ergodic Theory and Dynamical Systems, 35(6), 1783-1794.

16. **Debnath, A.**, Thakkar, F. M., Maiti, P. K., Kumaran, V., & Ayappa, K. G. (2014). *Laterally structured ripple and square phases with one and two dimensional thickness modulations in a model bilayer system.* Soft Matter, 10(38), 7630–7637.

17. Dubey, K., & **Kar, K.** (2014). *Type I collagen prevents amyloid aggregation of hen egg white lysozyme.* Biochemical and Biophysical Research Communications, 448(4), 480–484.

18. Dubey, K., Anand, B. G., Temgire, M. K., & **Kar, K.** (2014). *Evidence of Rapid Coaggregation of Globular Proteins during Amyloid Formation.* Biochemistry, 53(51), 8001–8004.

19. Goli, R., **Shaik, A. G.**, & Ram, S. (2014). *Fuzzy-Wavelet Based Double Line Transmission System Protection Scheme in the Presence of SVC.* Journal of the Institution of Engineers (India): Series B, 96(2), 131-140.

20. Gupta, S., Singh, R., **Chakraborty, P. R.**, **Sharma, R. K.**, Soboyejo, A. B. O., Wei, X., & **Plappally, A. K.** (2014). *Multi-variable approach to determine treatment efficiency of wetland: size effect and electro-kinetic effects.* Desalination and Water Treatment, 1–11.

21. Hoop, C. L., Lin, H.-K., **Kar, K.**, Hou, Z., Poirier, M. A., Wetzel, R., & van der Wel, P. C. A. (2014). *Polyglutamine Amyloid Core Boundaries and Flanking Domain Dynamics in Huntingtin Fragment Fibrils Determined by Solid-State Nuclear Magnetic Resonance.* Biochemistry, 53(42), 6653–6666.

22. Hoop, C. L., Lin, H.-K., **Kar, K.**, Wetzel, R., & van der Wel, P. C. A. (2015). *Huntingtin N-Terminal Fragment Fibrils have a Rigid Amyloid Core Flanked by Non-Amyloid Domains with Increased Dynamics.* Biophysical Journal, 108(2, Supplement 1), 385a–386a.

23. Jain, P. K., & **Tiwari, A. K.** (2014). *Heart monitoring systems – A review.* Computers in Biology and Medicine, 54, 1–13.

24. **Jha, S.**, & Pan-Yun Ting, J. (2015). *Holding the inflammatory system in check: NLRs keep it cool.* F1000Prime Reports, 7:15, 1-11.

25. Jindal, S., **Chhibber, R.**, & Mehta, N. P. (2014). *Prediction of element transfer due to flux and optimization of chemical composition and mechanical properties in high-strength low-alloy steel weld.* Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 1-17.

26. Kumarasiri, A., Abdelhamid, E., **Dixit, A.**, & Lawes, G. (2015). *Effect of transition metal doping on multiferroic ordering in FeVO4.* Physical Review B, 91(1), 014420.

27. Omkar, S., Srikanth, R., & **Banerjee, S.** (2015). Characterization of quantum dynamics using quantum error correction. *Physical Review A*, *91*(1), 012324.

28. Omkar, S., Srikanth, R., & **Banerjee, S.** (2015). *The operator-sum-difference representation of a quantum noise channel.* Quantum Information Processing, 14(6), 2255–2269.

29. **Paranjothy, M.**, & Keshavamurthy, S. (2014). *Dynamical traps lead to the slowing down of intramolecular vibrational energy flow.* Proceedings of the National Academy of Sciences, 111(40), 14354–14359.

30. Perumal, S., Dubey, K., Badhwar, R., **George, K. J.**, **Sharma, R. K.**, Bagler, G., … **Kar, K**. (2014). *Capsaicin inhibits collagen fibril formation and increases the stability of collagen fibers.* European Biophysics Journal, 44(1-2), 69–76.

31. **Pratiher, B.** (2014). *Stability and bifurcation analysis of an electrostatically controlled highly deformable microcantilever-based resonator.* Nonlinear Dynamics, 78(3), 1781-1800.

32. Ranwa, S., Kulriya, P. K., Dixit, V., & **Kumar, M.** (2014). *Temperature dependent electrical transport studies of self-aligned ZnO nanorods/Si heterostructures deposited by sputtering.* Journal of Applied Physics, 115(23), 233706.

33. Ranwa, S., Kulriya, P. K., Sahu, V. K., Kukreja, L. M., & **Kumar, M.** (2014). *Defect-free ZnO nanorods for low temperature hydrogen sensor applications.* Applied Physics Letters, 105(21), 213103.

34. Roul, B., **Kumar, M.**, Bhat, T. N., Rajpalke, M. K., Krupanidhi, S. B., Kumar, N., & Sundaresan, A. (2015). *Observation of Room Temperature Ferromagnetism in InN Nanostructures.* Journal of Nanoscience and Nanotechnology, 15(6), 4426–4430.

35. **Sahu, S.**, Ghosh, S., Fujita, D., & Bandyopadhyay, A. (2014). *Live visualizations of single isolated tubulin protein self-assembly via tunneling current: effect of electromagnetic pumping during spontaneous growth of microtubule.* Scientific Reports, 4:7303, 1-9.

36. Samant, A., Mishra, S., Yadav, S., & **Badarla, V.** (2014). *A Cross Layer Protocol to Mitigate Effects of Radio's Linear Impairments.* International Journal of Information and Communication Technology.

37. **Shaik, A. G.**, & Pulipaka, R. R. V. (2015). *A new wavelet based fault detection, classification and location in transmission lines.* International Journal of Electrical Power & Energy Systems, 64, 35–40.

38. Sharma, P., Sarma, R., **Chandra, L**., Shekhar, R., & Ghoshdastidar, P. S. (2014). *On the Design and Evaluation of Open Volumetric Air Receiver for Process Heat Applications.* Energy Procedia, 57, 2994–3003.

39. **Singh, A. G.** (2014). *Achieving Ergodicity in Quasi-Static MIMO With Polynomial-Time Complexity and One Bit of Feedback.* IEEE Wireless Communications Letters, 3(5), 533–536.

40. Singh, R., Gupta, S., Raman, S., **Chakraborty, P. R.**, Sharma, P., **Sharma, R. K.**, **Plappally, A. K.** (2014). *Comparative analysis of hydrodynamics of treatment wetlands using finite volume models with empirical data.* Desalination and Water Treatment, 1–26.

41. **Sinha, M.**, & Sedrakian, A. (2015). *Magnetar superconductivity versus magnetism: Neutrino cooling processes.* Physical Review C, 91(3), 035805.

42. Tripathi, S., Mohan, A., & **Yadav, S.** (2014). *A multinotched octagonal shaped fractal UWB antenna.* Microwave and Optical Technology Letters, 56(11), 2469–2473.

43. Tripathi, S., Mohan, A., & **Yadav, S.** (2014). *Hexagonal fractal ultra-wideband antenna using Koch geometry with bandwidth enhancement.* IET Microwaves, Antennas & Propagation, 8(15), 1445–1450(5).

44. Tripathi, S., Mohan, A., & **Yadav, S.** (2014). *Ultra-wideband antenna using Minkowski-like fractal geometry.* Microwave and Optical Technology Letters, 56(10), 2273–2279.

45. Tripathi, S., Mohan, A., & **Yadav, S.** (2015). *A compact octagonal-shaped fractal UWB antenna with Sierpinski fractal geometry.* Microwave and Optical Technology Letters, 57(3), 570–574.

46. Tripathi, S., Mohan, A., & **Yadav, S.** (2015). *A compact UWB antenna with dual 3.5/5.5 GHz band-notched characteristics.* Microwave and Optical Technology Letters, 57(3), 551–556.

47. Veeranki, S. P., Mamudu, H. M., **John, R. M.,** & Ouma, A. E. O. (2015). *Prevalence and correlates of tobacco use among school-going adolescents in Madagascar.* Journal of Epidemiology and Global Health, 5(3), 239-247.

48. Veeranki, S. P., Mamudu, H. M., Zheng, S., **John, R. M.**, Cao, Y., Kioko, D., Ouma, A. E. O. (2015). *Secondhand Smoke Exposure Among Never-Smoking Youth in 168 Countries.* Journal of Adolescent Health, 56(2), 167–173.

49. Yadav, A., Kumar, G., Soboyejo, A. B. O., Gaur, R. S., Tiwari, S., & **Plappally, A. K.**(2014). *Empirical models for change in pH and temperature within gravity-based reactor columns.* Desalination and Water Treatment, 1–15.

50. Г. Н. Бондаренко, О. Г. Ганина**, Р. К**. **Шарма**, б И. П. (2014). *БелецкаяаКаталитическая активность Pd-катализаторов на различных носителях в гидрировании 1-фенилэтенилфосфоновой кислоты*, Русский Химическая бюллетень, *8*, 1856 *ISSN 0002 3353 (In Russian Language)*

CONFERENCE PRESENTATIONS & PUBLICATIONS IN CONFERENCE PROCEEDINGS

1. Adil, A., **Badarla, V.**, **Plappally, A. K.**, Bhandari, R., & Sankhla, P. C. (2015). *Development of affordable ICT solutions for water conservation in agriculture.* In 7th International Conference on Communication Systems and Networks (COMSNETS), Bangalore, India, 6-10 January (pp. 1–6). Piscataway, NJ: IEEE.

2. Bhartiya, P., Rathore, N., & **Fulwani, D.** (2014). *A tutorial on implementation of sliding mode observer for DC/DC power converters using FPGA*. In IECON 2014 - 40th Annual Conference of the IEEE Industrial Electronics Society, Sheraton Hotel Dallas, Dallas, TX, U.S.A., 30 October- 01 November (pp. 4153–4159). Piscataway, NJ: IEEE.

3. Bisoyi, S., Rodel, R., Zschieschang, U., Takimiya, K., Klauk, H., & **Tiwari, S. P.** (2014). *Charge-carrier injection, extraction and trapping dynamics in organic thin-film transistors based on different organic semiconductors evaluated by displacement current measurements.* In 72nd Annual Device Research Conference (DRC), The University of California, Santa Barbara, California, 22-25 June (pp. 73–74). Piscataway, NJ: IEEE.

4. Chaudhary, B., & **Pratiher, B.** (2014). *Nonlinear responses of externally excited rotor bearing system.* In CSNDD 2014 - International Conference on Structural Nonlinear Dynamics and Diagnosis, MATEC Web of Conferences, 16, 03006, (pp. 1-4). Les Ulis, France: EDP Science.

5. **Shaik, A. G.**, Yadav, S. K., Prashanth, P., & Vamshi Krishna, T. (2014). *Transmission line protection scheme using Wavelet based alienation coefficients.* In Muhamad, M. I. & Seroji, M. N. (Eds.), 2014 IEEE International Conference on Power and Energy (PECon), Pullman Hotel, Sarwak, Malaysia, 1-3 December (pp. 32–36). Piscataway, NJ: IEEE.

6. **Hiremath, K. K.** (2014). *Finite elements based numerical solution of nonlocal hydrodynamic Drude model of nano-plasmonic scatterers,* In 12th International Conference on Fiber Optics and Photonics, Kharagpur, India, 13-16 December (p. M3D.4). Washington, DC, USA: OSA.

7. Kulkarni, S. S., & **Badarla, V.** (2014). *On multipath routing algorithm for software defined networks.* In 2014 IEEE International Conference on Advanced Networks and Telecommuncations Systems (ANTS), New Delhi, India, 14-17 December (pp. 1–6). Piscataway, NJ: IEEE.

8. Pal, D., Adhikari, B., & **Mazumdar, M.** (2015). *Strategic network formation involving social relations: Enmity and friendship.* In 7th International Conference on Communication Systems and Networks (COMSNETS), Banglore, India, 6-10 January (pp. 1–6). Piscataway, NJ: IEEE.

9. Prakash, S. K., **Sharma, R. K.,** Roy, M. S., & **Kumar, M.** (2014a). *Carbon coated stainless steel as counter electrode for dye sensitized solar cells.* In Predeep, P. & Sujith A. (Eds.) AIP Conference Proceedings 1620, NIT, Calicut, Kerala, India, 19-21 March (pp. 218–222). Melville, NY: AIP Publishing.

10. Prakash, S. K., **Sharma, R. K.**, Roy, M. S., & **Kumar, M.** (2014b). *Investigation of chemically synthesized graphene as counter electrode for dye sensitized solar cells.* In Predeep, P. & Sujith A. (Eds.) AIP Conference Proceedings 1620, NIT Calicut, Calicut, Kerala, India, 19-21 March (pp. 223–229). Melville, NY: AIP Publishing.

11. Rathore, H., & **Badarla, V.** (2014). *Primary-secondary immune response adaptation for wireless sensor network.* In Eleventh Annual IEEE International Conference on Sensing, Communication, and Networking (SECON), Singapore, 30 June- 3 July (pp. 164–166). Piscataway,NJ: IEEE.

12. Sahu, Anurag, **Dixit, A.,** & **Hiremath, K. K.** (2014). *Plasmon enhanced absorption in Au:ZnO hybrid systems*, In 12th International Conference on Fiber Optics and Photonics, Kharagpur, India, 13-16 December (p. T3A.45). Washington, DC, USA: OSA.

13. Salvi, G., **Sharma, P.**, & Raman, S. (2014). *Efficient image retargeting for high dynamic range scenes.* In Shukla, B. (Ed.), 5th International Conference- Confluence The Next Generation Information Technology Summit, Amity University, Noida, Uttar Pradesh, 25-26 September (pp. 543–548). Piscataway, NJ: IEEE.
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Outreach

IIT Jodhpur is picking-up momentum in its outreach activities to provide technical advantage to persons outside the Institute. Some of these activities include engagement with interior India, sharing lecture series with the interested intellectuals, encouraging young students of India to take to technology, and special focus on students of North-East India.

Undergraduate Research Initiative

The Undergraduate Research Initiative (UGRI) Program at Indian Institute of Technology Jodhpur provides an effective platform to the students to engage in research with Faculty Members of the Institute. Also, students can get a chance to develop valueble mentorship through the guidance of experienced Faculty Members of the Institute.

In 2014-15, the UGRI program was opened for both IIT Jodhpur students and Non-IIT Jodhpur students. Eleven candidates were selected from a large pool of applications, on the basis of the merit of the proposal submitted. The program was organized from 6 May to 5 July 2014. During the program, a remuneration of Rs. 8000 per month, as stipend, was given to the participating candidates, along with a maximum amount of Rs. 1000 for preparing posters and reports.

Unnat Bharat Abhiyan

Aligning ourselves with the MHRD's Unnat Bharat Abhiyan, the Institute has just identified the three villages, with which it would be engaged. Work is underway to undertake a techno-social survey to understand the villages and identify technology challenges being faced by them.

There are a number of villages surrounding the permanent campus site of IIT Jodhpur with whom initiatives can be taken up in building organic relations as a part of Unnat Bharat Abhiyan (UBA). A survey was conducted in short-listing these villages. Idea is to develop some technologies such as low cost filters to reduce fluoride contents. UBA at IIT Jodhpur has shortlisted themes such as low cost waste management by using local material and Ayurvedic materials, compost toilets, solar energy, precision farming to be taken up in these villages. IIT Jodhpur is also taking initiatives in sensitizing students and faculty members to work under UBA activities.

A core team of people coordinates the activities of Unnat Bharat Abhiyan at IIT Jodhpur by rendering their services by being a part of the team, through their expertise various areas like technological interventions to improve the quality of life in villages; in socio economic study; in contributing to the task of building an organic relation with the villages through other means.

The activities of Unnat Bharat Abhyan are coordinated by V. Hari Narayanan, Coordinator (Students). Alongside, Faculty Members, Staff Members and Students are involved in the activities.

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
3. Extra-Mural Lectures.

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.

The following Distinguished Lectures were delivered till now:

(1) **Professor Bruce Alberts**
Renowned American Biochemist
Former President, National Academy of Sciences, USA
"Science and the World's Future"
17 January 2014

(2) **Professor K. L. Chopra**
Former Director, IIT Kharagpur
"Ethics in Science & Technology"
10 March 2015

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.

So far, two distinguished visitors were invited to the Institute:

(1) **Ashok Sajjanhar**
Former Ambassador to Latvia, Sweden and Kazakhstan;
Currently, Secretary of National Foundation of Communal Harmony (NFCH)
"India's Foreign Policy: Challenges and Opportunities"
11 April 2014

(2) **Bhaswati Mukherjee**
Former Ambassador of India to the Netherlands & Permanent Representative to the UN
"Indian Culture and Civilisation through the Ages"
12 February 2015

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. The Extra-Mural Lectures delivered in this year are:

(1) **Pallavi Kumar**
Executive Director
MOHAN Foundation, New Delhi
"Have you ever thought about organ donation?"
15 October 2014

(2) **Chitra Madhavan**
Historian and Archeologist
"The Development of Temple Architecture in India"
21 January 2015

(3) **Prabhat Ranjan**
Executive Director, Technology Information, Forecasting and Assessment Council (TIFAC), New Delhi
"My Journey to Brain"
30 January 2015

Participation in IIT Pavilion at India-US Technology Summit and Knowledge Expo

IIT Jodhpur participated in the India-US Technology Summit and Knowledge Expo, from 18-22 November 2014, at India Expo Mart, Greater Noida, Delhi NCR. The Technology Summit was organized by the Confederation of Indian Industries (CII) and Department of Science & Technology, Government of India, on 18-19 November 2014. The Knowledge Expo 2014 was organized from 20-22 November 2014, which was a confluence of six key verticals of the economy coming at the cusp of knowledge creation and consumption- higher education, intellectual property, design, innovation and entrepreneurship, research & development and technology.

A team of six members comprising of Faculty and Staff Members of IIT Jodhpur represented the Institute and showcased the Institute's thrust areas in research, like Solar Energy, technology areas in development in IIT Jodhpur's Technology Park like Critical Technologies, Arid Zone Technologies, Automotive Technologies, and Health Care Technologies, and its Academic Programs, on this occasion.

IIT Jodhpur Team at the Knowledge Expo 2014

INSTITUTE EVENTS

Second Convocation

The Second Convocation of IIT Jodhpur was held on 16 July 2014. Former Director General of Defence Research and Development Organisation and distinguished missile scientist Dr. V. K. Saraswat graced the occasion as the Chief Guest of the ceremony. On this occasion, 127 B.Tech. Students and 31 M.Tech. students received their degrees.

Members of Senate on dais

Award of Degrees to Students

Celebration of National Festivals

Independence Day Celebrations

The 68th Independence Day was celebrated in the Institute on 15 August 2014 with a great spirit of patriotism. The Director, Faculty Members, Staff Members and Students participated in it. The function started at 08.05 am on the morning of 15 August at the Academic Campus with the Director, Professor C. V. R. Murty hoisting the national flag, followed by rendering of the national anthem and Director's address. The students organized various cultural programs like performance of IITJ musical band 'Sangam', recitation of patriotic poems, speeches, dance and street play performance. Prizes were distributed to students who aced in academics and extra-curricular activities. The national festival was also celebrated in the two residential campuses of the Institute.

Cultural Presentation by Students on 15.8.2014

Republic Day Celebrations

The 66th Republic Day was celebrated in academic and residential campuses of IIT Jodhpur on 26 January 2015. Professor C. V. R. Murty, Director, IIT Jodhpur unfurled the flag in the academic campus at 8.00 am and addressed the members of Faculty and Staff, and Students. Republic Day was also celebrated at the two residential campuses. Later in the evening a cultural program and a get together was organized for the IIT Jodhpur community at the GPRA Residential Campus.

Ground Breaking Ceremony

The Institute performed the groundbreaking ceremony of auspicious *bhoomi poojan* at its permanent campus at Karwar Village on 2 May 2014. The *pooja* was performed by Sh. Amardeep Sharma, Assistant Registrar of the Institute. It was attended by the Director and other invitees of the Institute. This ceremony marks the beginning of our own, permanent campus construction activity.

Performing Bhoomi Poojan & Ground Breaking Ritual

Team Building Workshop

The institute conducted a 'Lightening Survey' and a 'Way Forward Survey' in which the Faculty and Staff Members of the institute have provided their valuable inputs that served very valuable and helped to identify a departure point. Towards our objective of making this Institute a special place for our students, staff members and faculty members, and a respectable one in the eyes of industry and the nation, a need was felt to shift gears to reach many more heights.

In continuation to these efforts, to synergise the energies of all Faculty and Staff Members at the Institute, a 2-day "Team Building Workshop" was arranged during 1-2 May 2014, which was attended by all faculty and staff members of the institute. The workshop was organized by M/s Dialog, a professional group from Gurgaon, which was coordinated by some of the faculty members with the help of Mr. M. L. Bapna, our advisor (Academia-Industry Interface). During this 2-day exciting event, the IIT Jodhpur community worked out the future landscape, blueprint and vision of the Institute with great enthusiasm and vigour by contributing their invaluable thoughts and inputs. These two days witnessed great enthusiasm and coming-togetherness of the IIT Jodhpur community.

Workshop on Leadership System

To take forward our human resource development focus, a workshop on "Leadership System" was organized on 9 August 2014 with the following objectives:

1. To crystallise the Vision, Mission and Core Values of the Institute, and develop a common understanding of the same;
2. To set strategic goals in keeping with the above;
3. To align with the said Vision and Mission; and
4. To develop a Leadership System at IIT Jodhpur to achieve the objectives.

The event was facilitated by Mrs. Rashmi Datt from M/s Dialog, Gurgaon, and Mr. M. L. Bapna, Advisor, Industry-Academia Interface, IIT Jodhpur. The Faculty and Staff Members of IIT Jodhpur attended this workshop.

Faculty Development Program

A Faculty Development Program was organized for the Faculty Members of IIT Jodhpur in the month of December 2014. It was organized in two series. First one was from 2-6, and the second one was from 9-13, December 2014.

During this FDP, eminent academicians and accomplished personalities were invited to conduct sessions on topics like Academic Career, Research – Proposals, Projects and Publishing, IPR Issues, Teaching – Pedagogical Aspects and Engaging the New Generation, Time Management, Professional and Personal Development. The program was attended by all the Faculty Members.

Farewell to the outgoing batch of Students

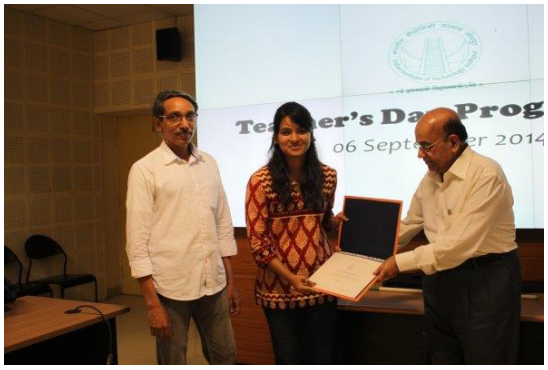
As a benign gesture to mark our association so far with the Final Year B.Tech. and Final Year M.Tech. Students, the Institute organized a small function followed by dinner with the outgoing students on 2 May 2014. This event was organized in the lawns of the Academic Campus of the Institute at 7:30 pm and the Director of the Institute graced the occasion and wished the outgoing students a fulfilling career and wonderful life ahead. On this occasion, the students who performed very well in extra-curricular activities were presented with medals and certificates. Mahesh Chand Gurjar from CSE, Sudhir Kumar Singh from EE and Abhinav from ME were given the awards in B.Tech. category, while Avadhesh Kumar Sharma was awarded in M.Tech. category. It was a moment of melancholy of feelings for the outgoing students, as well as for the Faculty and Staff members for the institute. With this event, IIT Jodhpur has marked the beginning of celebrating Institute Day on 2 May.

Award of Certificates to Best Performers and Farewell to the outgoing batch of Students
on the occasion of Institute Day on 2.5.2014

Observance of Days of National Importance & Awareness Drives

Teachers Day

In commemoration of the birth anniversary of Dr. Sarvepalli Radhakrishnan, Teachers Day was celebrated in the Institute on 6 September 2014. The Faculty Members and Students of IIT Jodhpur had an opportunity to hear Professor D.V. Pai from IIT Gandhinagar and Professor M. Jagadesh Kumar from IIT Delhi who visited us on the occasion, and to interact with them. On this occasion, students were awarded certificates for best performance in academics. In the evening, a cultural function was organized at the GPRA Residential Campus of IIT Jodhpur, as a part of the Teacher's Day celebration.



Teachers Day Program on 6.9.2014

Swacch Bharat Abhiyan & Gandhi Jayanti

The Institute undertook cleanliness drive under the Swachh Bharat Abhiyan from 25 September 2014 to 2 October 2014. A pledge for "Swachh Bharat Mission" was taken by the entire IIT Jodhpur community, on 2 October 2014, on the 145th birth anniversary of Mahatma Gandhi. Gandhi Jayanti was celebrated in the GPRA Residential Campus in the evening, where in the Students, Faculty Members, and Staff Members participated. As a part of the Swachh Bharat Abhiyan, IIT Jodhpur invited the

District Collector of Jodhpur District, Dr. Pritam B. Yashwant for a talk and an interactive session on Jodhpur Swachhata aur Harit (JoSH) launched by the District Collectorate in the local premises of Jodhpur, on 16 October 2014.

Coffee with Collector on Swachh Bharat Abhiyan, 16.10.2014

Rashtriya Ekta Diwas

National Unity Day was observed on 31 October 2014, the birth anniversary of Sardar Vallabhbhai Patel by taking the Rashtriya Ekta Diwas pledge. On this occasion, literary works of Sardar Patel were highlighted in Library.

Initiatives in Establishment & Administration

Recruitments

Before embarking on new recruitments of Faculty and Staff Members, the Institute has developed norms for the processes to be adopted. This has assisted the Institute in its new recruitment cycles. 12 offers to Administrative Staff Members and three to Faculty Members were made this year. New online application system was developed and adopted for both Faculty and Staff recruitment.

Administrative Systems and Processes

Administration is working to promote smooth Governance with emphasis on transparency, accountability, growth-orientation, and informed decision-making structures. Efforts are underway at developing a process-oriented organisation with defined norms and systems to undertake various activities of the Institute. Special attention is given to human aspects in the functioning of the Institute, including adherence to unified mission, vision and core values.

FACILITIES

Our Campus

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, operational during 5 am to 10 pm. Students can avail these facilities to stay healthy and to maintain his/her 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 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.

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.

Master Plan of IIT Jodhpur's Permanent Campus at Karwad Village on NH65

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

Entrance structure of IIT Jodhpur permanent campus

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.

Faculty Member housing

The first migrations into the campus are likely to take place by early July 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, and Internet access 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.


Room No. 1001, AB1 – Stacks & Circulation Section

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.

Room No. 1011, AB1 – Course Reserves & Digital Library Section

Room No. 1001 Extension, AB1 – Reading Room

Appearing below are some vital statistics of Library for FY 2014-15:

S. No.	Description	Statistics
1.	Books added	
	a. Number of titles added	141
	b. Number of volumes added	596
2.	Number of Scholarly Resources subscribed	Total 28
	a. Fulltext resources	23
	b. Research databases	5
3.	Document Supply & Inter Library Loan service requests fulfilled	Total 528
	a. Document supply of articles & research papers	513
	b. Books arranged on Inter Library Loans	35
4.	Circulation Transactions	Total 22,976
	a. Number of book check-outs	11170
	b. Number of book check-ins	11355
	c. Number of book renewals	423
	d. Number of book recalls	28

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
16. Nature Journal
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

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.

Library has conducted an anti-plagiarism awareness and training session using Turnitin Anti-Plagiarism software on 20 September 2014. It was attended by Faculty Members and Students.

Laboratories

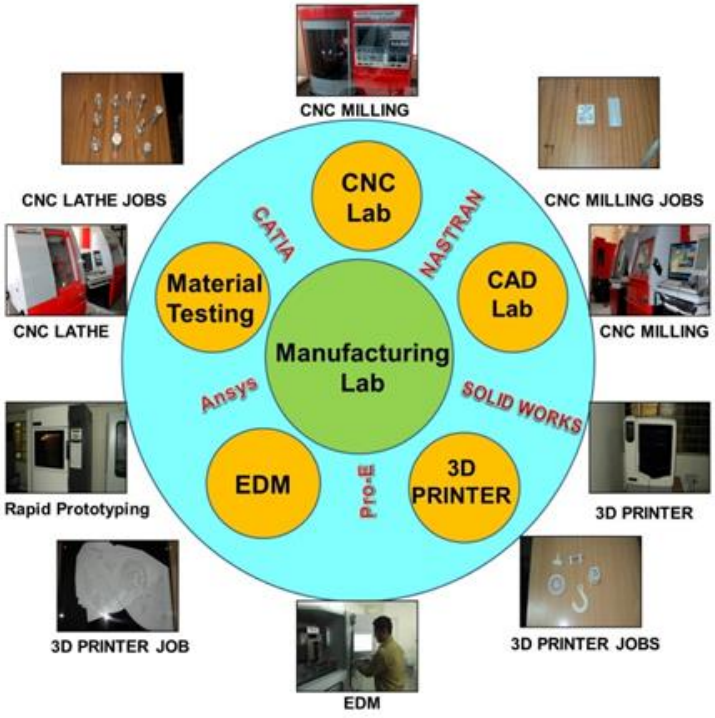
IIT Jodhpur has established good number of teaching and research laboratories and facilities, which aid in elevating the students from minimalist academic concerns to inquisitive world of scientific arena. These teaching and research laboratories help Faculty Members and Students work for better future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

Sl. No.	Name of the Laboratory
1.	Advance Manufacturing Laboratory
2.	Advanced Biosciences and Neuroscience laboratory
3.	Biomolecular Information Processing Laboratory
4.	Central Workshop
5.	Chemistry Laboratory
6.	Chemical Biology laboratory
7.	Control / DSP / Microprocessor Laboratory
8.	Digital Language Laboratory
9.	Dynamics & Vibration Laboratory
10.	Electro Magnetic Energy Conversion Laboratory
11.	Electronic Circuit Laboratory
12.	Environmental Biotechnology Laboratory
13.	Fluid Mechanics & Heat Transfer Laboratory
14.	High Temperature Solar Thermal Laboratory
15.	Instrumentation & Communication Laboratory
16.	Magnetic Property Measurement System (MPMS / SQUID) Laboratory
17.	Materials Testing & Solid Mechanics Laboratory
18.	Materials Analysis Laboratory
19.	Multimedia Laboratory
20.	Networking Technologies Laboratory
21.	Physics Laboratory
22.	Power Electronics Laboratory
23.	Protein Engineering Laboratory
24.	Renewable Energy Laboratory
25.	Robotics Laboratory
26.	Solar Radiation Laboratory

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 programing/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. 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.

3. 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.

4. 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

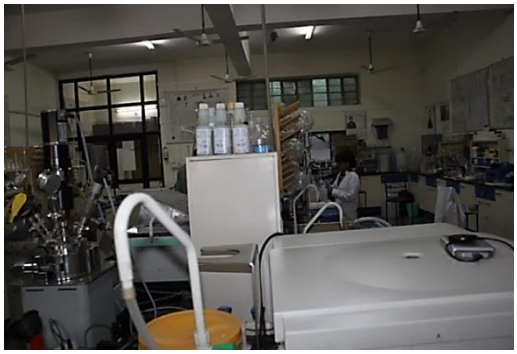
5. Chemical Biology Laboratory

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.

6. 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.

7. 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:

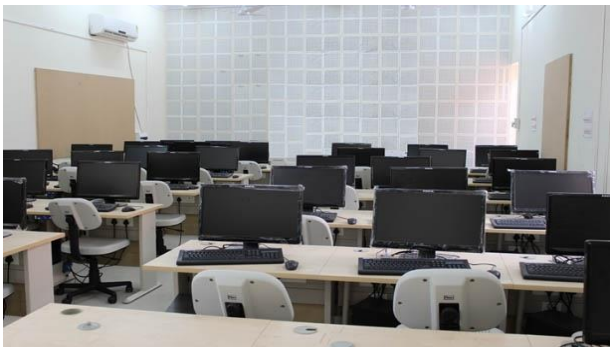
a. Control Systems

1. Ball & Beam System from Quanser
2. Magnetic Levitation System from Quanser
3. Inverted Pendulum System from Quanser
4. Software include Scilab / MatLab

b. DSP Lab Equipment

c. Microprocessor Lab

8. Digital Language Laboratory

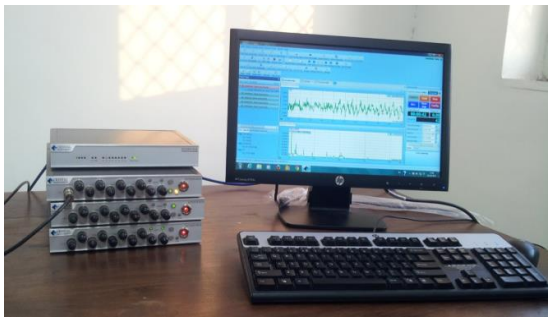


The Digital Language Laboratory provides resources, facility, and support for foreign language instruction and learning to the entire student community of IIT Jodhpur. The lab is the multilingual computing and assessment center of the Institute. The lab team explores and implements methods through which 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.

9. 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 finds its resonance characteristics in various environmental conditions. Following equipment are available for measuring and/or testing vibration characteristics of elements to structures.



10. 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.

11. 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

12. Environmental Biotechnology Laboratory

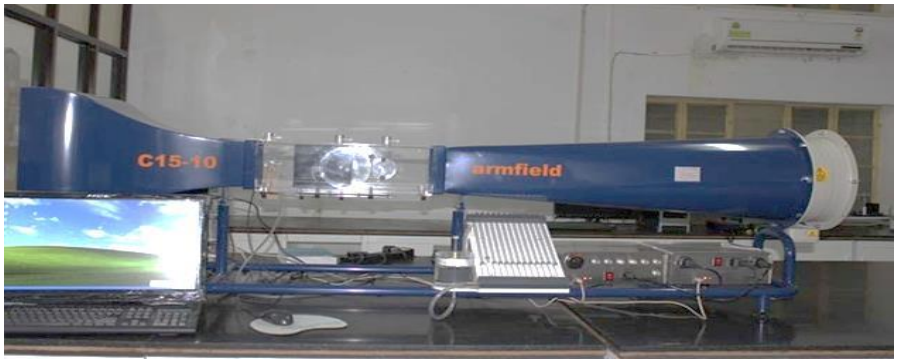
The Environmental Biotechnology Laboratory at IIT Jodhpur, in addition to serving various undergraduate and post-graduate courses, undertakes research in the areas of bioenergy and bioremediation. Researchers in the lab investigate on waste to energy conversion processes with an aim to develop sustainable 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.

13. 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.

14. 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

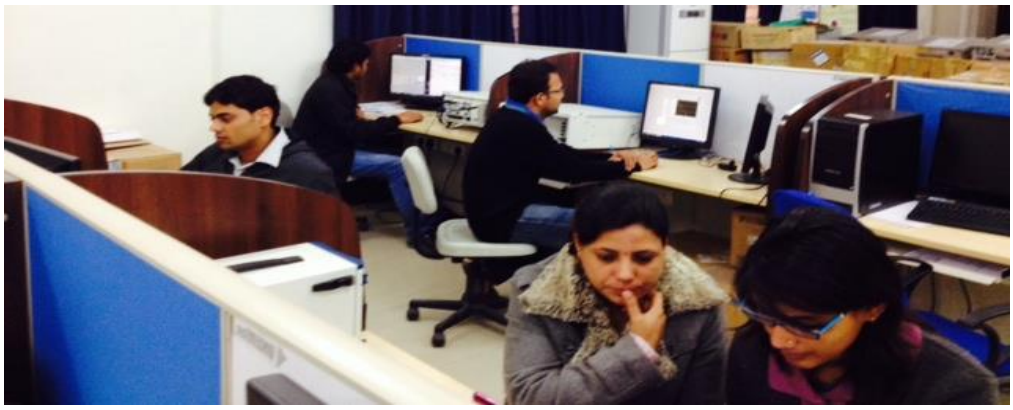
Some of the sub-systems being designed and analyzed in this laboratory are:

(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.

15. Instrumentation and Communication Laboratory

The mission of Instrumentation and Communication Laboratory is to provide 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.

16. 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.

17. 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
7. Material Testing and Solid Mechanics

18. 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.

19. 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:

1. Scanners: Book Drive Mini, UMAX Powerlook.
2. Cameras: Sony 177PD, Sony Camcorder, Cannon 500D VCR: Sony DSR 45AP
3. Tripods: Manfrotto, iMac.

20. 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.
5. Development of novel routing algorithms, transport layer mechanisms, and services for next generation networks.
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.

21. 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.

22. 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.
8. Differential currents Probes.
9. Current clamps.
10. Isolation Transformers.
11. FPGA training kits and programming boards.

23. 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.

24. Renewable Energy Laboratory

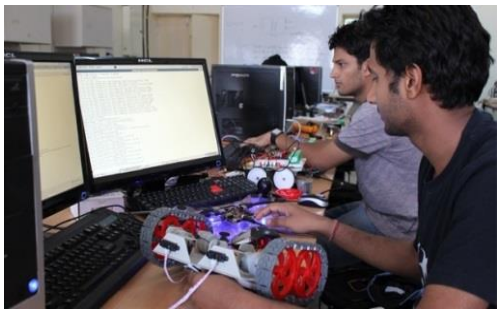
To resolve most daunting challenge of this world—energy needs—and also our nation's heavy reliance on fossil fuels, Renewable Energy Laboratory (REL) promotes rigorous and objective empirical research at IIT Jodhpur on issues related to energy and environment. REL focuses on designing, testing, and disseminating 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. Recently, a work on solar and wind system for household development has been planned and our research effort at REL draws on ongoing work in variety of fields, including energy engineering, and environmental risk analysis. 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.
3. Advanced Photovoltaics Solar module simulation model 23V/2A, Solar module with solar altitude emulator, Solar charge controller 12/24V, 6A, Solar accumulator 12V, 7Ah, Off grid inverter 230V, 275VA etc.
4. Combined RF/DC Sputtering Unit for Coatings Applications

25. 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
9. GAIT Analysis and Robot Assisted Rehabilitation

26. 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).

Health Center

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/disbursement, 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

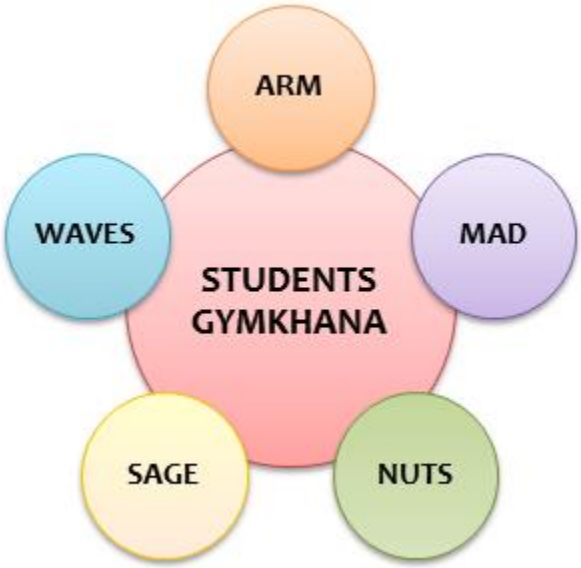
An SC/ST and OBC Cell for ensuring the proper utilization and adaptation of reservation policies and guidelines issued by the Government of India, is functional at IIT Jodhpur. The Cell deals with matters related to grievances received from SC/ST and OBC employees and students in the Institute. The Cell 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. 4.50 lakhs per annum, are deriving the benefit of Central Sector Scholarship of Top Class Education available from the Ministry of Social Justice and Empowerment.

STUDENT ACTIVITIES

Students Gymkhana

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
(5) Writing, Awareness, Vocals, Entertainment, Social (WAVES) Society.



Academic, Research and Management (ARM) Society

The Academic, Research and Management (ARA) 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 'dEFEATtHEbEAT', 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

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. In 2014, it was organized from 30 October to 2 November. Varchas 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 2014, Soch team put their best foot forward to spread awareness about cleanliness in the society.
The major events organized as part of Soch were:

(a) ***Awaaz:*** A panel discussion was conducted with a great contribution from some renowned speakers and students from all over the city of Jodhpur.

(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.

(c) ***Cross Country Marathon:*** It was organized on the last day of the festival in Jodhpur city with a motive to spread awareness about cleanliness in the society. An overwhelming response was received from the people and athletes from across the state of Rajasthan.

(d) ***Pronite:*** Apart from sportsmanship and social aspects, a pronite was organized to let the sportsmen refresh themselves. "The Local Train", an upcoming band performed in the pronite.

IGNUS

IGNUS is IIT Jodhpur's Annual Techno–Social Cum Cultural Festival. In these six years of its existence it has witnessed a footfall of colleges from all across the country making IGNUS a much awaited spectacle every year.

The fest comprises of an array of cultural events, activities and competitions which keep the fest full of life and zest. Ignus has created an unmatched aura of Science and Technology spectacle at the campus of IIT Jodhpur.

As a part of the social responsibility, IGNUS has initiated a social campaign, "PRAKRITI" to ensure sustainable development of the society by conducting various campaigns, competitions and exhibitions in various schools and colleges. Also adding to the fun are the buzzing informals like city wide treasure hunt, "Breakthrough", which is one of the only event of its kind to take place in Jodhpur.

In its sixth edition, IGNUS scaled new heights by collaborating with big brands. Javed Ali and Gajendra Verma performed on the two pronites organised during the fest. Events like Clash of Bands and Antarang (Fashion Show) were the other highlights. Workshops were organized by professionals from different companies, to provide students with a technical exposure to current topics including Cloud Computing, Ethical Hacking.

INTRA-INSTITUTE FESTIVALS

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.

Student Accolades

Three of our B.Tech. students as mentioned below have obtained DAAD Working Internship in Science and Engineering (WISE) scholarship for 2015.

1. Jinank Jain, III Year B.Tech. (Computer Science & Engineering) Student,
2. Navneet Mittal, III Year B.Tech. (Computer Science & Engineering) Student, and
3. Manish Soni, III Year B.Tech. (Electrical Engineering) Student.

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.

From 2014 onwards, Counseling Service launched Campus Mentoring 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.

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 2014-15, companies in core engineering, information and communication technology, and banking sector, government and public sector organizations have visited IIT Jodhpur for placements.

Total 99 of our students i.e., 93 B.Tech. Students and 6 M.Tech. Students, have been placed with different companies in the year 2014-15. Their details of 2014-15 are:

B.Tech. Undergraduate Students

S. No.	Company	Number of Students Selected per Branch				Total Number of Students Placed
		CSE	EE	ME	SS	
1.	Aasaanjobs Pvt. Ltd.	1	1	1		3
2.	Amazon	2	1			3
3.	BPCL	1				1
4.	C42 Engineering India Pvt. Ltd. Cognizant	10	6	3		19
5.	Crisil				1	1
6.	Directi				1	1
7.	DRDO		1			1
8.	Future Supply Chain Solutions Ltd.			1		1
9.	Girnar Software Pvt. Ltd.			1		1
10.	Havells India Ltd.		3	1		4
11.	HCL Technologies		2			2
12.	JSW Energy Ltd.			2		2
13.	L&T ECC		1	2		3
14.	Maxheap Technologies Pvt. Ltd. (CoomonFloor.com)	4				4
15.	Microsoft Corporation	4				4
16.	Misys Software Solutions (I) Pvt. Ltd.	1		1	3	5
17.	Morgan Stanley	2	1			3
18.	Mu Sigma Business Solutions Pvt. Ltd.				1	1
19.	Nagarro Software Pvt. Ltd.	3				3
20.	Oanda				1	1
21.	Sigmoid Analytics	2			1	3
22.	Snapdeal	3				3
23.	Tata Consultancy Services	1	2		1	4

24.	Tata Motors Ltd.		5	5		10
25.	Tescra Software Pvt. Ltd.	3				3
26.	Voylla Retail Pvt. Ltd.	3	1	2	1	7

M. Tech. Postgraduate Students

S. No.	Company	Number of Students Selected per Branch		Total Number of Students Placed
		ICT	SS	
1.	Cognizant Solutions	1		1
2.	Misys Software Solutions Pvt. Ltd.	1		1
3.	Morgan Stanley	1		1
4.	Nagarro Software Pvt. Ltd.		1	1
5.	Tata Consultancy Services	1		1
6.	Tescra Software Pvt. Ltd.	1		1

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.

The Alumni of IIT Jodhpur living in Delhi-Gurgaon-Noida region have come together on 16 February 2015 at India International Center, New Delhi. They are in the process of registering the IIT Jodhpur Alumni Association.

List of Registered Students in IIT Jodhpur

IIT Jodhpur has, as on 31 March 2015, a total of 769 students registered in various programs offered by the Institute. The table below gives the break-up of the registered students against the programs.

Program	Year of Registration	Number of Students
Ph.D.	2014	39
	2013	31
	2012	19
	2011	20
	2010	4
	Total	***113***
M.Tech.	2012	22
	2013	25
	2014	16
	Total	***63***
B.Tech.	2011	148
	2012	145
	2013	169
	2014	131
	Total	***593***
	Grand Total	**769**

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

Sl. No.	Roll No.	Name	Center / Department
1.	PG201081501	Belal Usmani	Energy
2.	PG201081502	Dharmendra Singh Rajpurohit	Energy
3.	PG201081504	Suresh Kumar	Energy
4.	PG201082502	Deepak Kumar Chhangani	ICT/BISS
5.	PG201181001	Deepesh Patidar	Energy
6.	PG201181003	Pura Ram	Energy
7.	PG201181004	Vikas Pratap Singh	Energy
8.	PG201181005	Vikash Chandra Janu	Energy
9.	PG201181501	Lokesh Saini	Energy

10.	PG201181502	Surendra Singh Barala	Energy
11.	PG201182001	Abhay Samant	ICT
12.	PG201182003	Heena Rathore	ICT
13.	PG201182005	Puneet Kumar Jain	ICT
14.	PG201182006	Ram Niwash Mahia	ICT
15.	PG201182007	Ravi Raj Choudhary	ICT
16.	PG201182009	Sapana Ranwa	ICT
17.	PG201182010	Saurabh Maheshwari	ICT
18.	PG201182011	Sibani Bisoyi	ICT
19.	PG201182501	Amit Bhati	ICT
20.	PG201182502	Kapil Sharma	ICT
21.	PG201182506	Shrivishal Tripathi	ICT
22.	PG201183001	Rohan Sharma	System Science
23.	PG201183501	Parmod Kumar	System Science
24.	PG201183502	Preeti Yadav	System Science
25.	PG201281001	Ajay Jain	Energy
26.	PG201281002	Dharmesh Kumar	Energy
27.	PG201281003	Poonam Sharma	Energy
28.	PG201281004	Shejale Kiran Prakash	Energy
29.	PG201282002	Deepak Bharti	ICT
30.	PG201282003	Giriraj Vyas	ICT
31.	PG201282006	Onkar Krishna	ICT
32.	PG201282007	Rakesh Kanji	ICT
33.	PG201282009	Suresh Dahiya	ICT
34.	PG201282010	Vaibhav Saini	ICT
35.	PG201282012	Vibha Sahlot	ICT
36.	PG201282501	Shilpa Pandey	ICT
37.	PG201283001	Anoopa Joshi	System Science
38.	PG201283003	Manvendra Sharma	System Science
39.	PG201283005	Parvinder Singh	System Science
40.	PG201283006	Pradumn Kumar Pandey	System Science
41.	PG201283007	Rakesh Kumar	System Science
42.	PG201283008	Ranveer Singh	System Science
43.	PG201283009	Vinay Pratap Singh	System Science
44.	PG201381001	Aditya Raw Gautam	Energy
45.	PG201381002	Goutam Kumar Gupta	Energy
46.	PG201381003	Om Prakash Mahela	Energy
47.	PG201381004	Prakhar Nigam	Energy
48.	PG201382002	Prachi Budania	ICT
49.	PG201382003	Rajnish Kumar	ICT
50.	PG201382005	Vipin Joshi	ICT

51.	PG201383001	Anjali Singh	System Science
52.	PG201382002	Anurag Sahu	System Science
53.	PG201383002	Dipti Trivedi	System Science
54.	PG201383005	Raj Kumar Satankar	System Science
55.	PG201383006	Shraddha Choudhary	System Science
56.	PG201383501	Deepak Kumar	System Science
57.	PG201383502	Dileep Kumar	System Science
58.	PG201383503	Manish Raghav	System Science
59.	PG201383504	Satendra Pal Singh	System Science
60.	PG201383505	Sunder Pal	System Science
61.	PG201383506	Vishal Sharma	System Science
62.	PG201384002	Ankisha Vijay	BISS
63.	PG201384003	Anuj Kumar Bharti	BISS
64.	PG201384004	Arun Kumar Upadhyay	BISS
65.	PG201384005	Ayeman Amanullah	BISS
66.	PG201384006	Bhubanesh Rathore	BISS
67.	PG201384007	Kriti Dubey	BISS
68.	PG201384008	Megha Singh	BISS
69.	PG201384009	Nidhi Sharma	BISS
70.	PG201384010	Rahul Badhwar	BISS
71.	PG201384011	Rakhi N. K.	BISS
72.	PG201384012	Ridhi Aggarwal	BISS
73.	PG201384013	Shalini Singh	BISS
74.	PG201384014	Vibhuti Joshi	BISS
75.	P14BL002	Sachin Kumar Vyas	Biology
76.	P14BL003	Amitap Khandelwal	Biology
77.	P14BS001	Alankar Agarwal	BISS
78.	P14BS002	Bibin G Anand	BISS
79.	P14BS004	Manju Kumari	BISS
80.	P14BS005	Shivanjali Saxena	BISS
81.	P14BS006	Vandana	BISS
82.	P14BS007	Ribhav Mishra	BISS
83.	P14CHM001	Erum Gull Naz	Chemistry
84.	P14CHM002	Abhinav Srivastava	Chemistry
85.	P14CS001	Hiteshi Jain	CSE
86.	P14CS002	Ravi Sharma	CSE

87.	P14EE001	Ajay Kumar Mahato	EE
88.	P14EE002	Priyanka Bajaj	EE
89.	P14EN001	Priya Malpani	Energy
90.	P14HS002	Pankaj Singh	HSS
91.	P14HS003	Sana Maidullah	HSS
92.	P14HS004	Meha Mishra	HSS
93.	P14HS005	Sumantran Ray	HSS
94.	P14ME001	Gurveer Singh	ME
95.	P14ME002	Nipun Ahuja	ME
96.	P14ME003	Rakesh Joshi	ME
97.	P14ME004	Ram Niwas Verma	ME
98.	P14ME005	Sandeep Gupta	ME
99.	P14ME006	Vaibhav Garg	ME
100.	P14ME007	Amrita Kaurwar	ME
101.	P14ME008	Phadatare Hanmant Pandurang	ME
102.	P14MT001	Supriyo Dutta	Mathematics
103.	P14PH001	Rajesh Kumar	Physics
104.	P14PH002	Sanjoy Chatterjee	Physics
105.	P14PH003	Javid Ahmad Naikoo	Physics
106.	P14PH004	Vijendra Singh Bhati	Physics
107.	P14SS001	Brajesh Kumar Shukla	System Science

Ph.D. Students registered under "Visvesvaraya Ph.D. Scheme for Electronics and IT"

Sl. No.	Roll No.	Name	Department
1.	P14VSS001	Adarsh Nigam	EE
2.	P14VSS002	Amrik Singh	EE
3.	P14VSS003	Ishan Varun	EE
4.	P14VSS004	Rahul Kumar	EE
5.	P14VSS005	Nupur Rathore	EE
6.	P14VSS006	Parveen	EE

M.Tech. Students, Batch 2012

Sl. No.	Roll No	Name	Center
1.	PG201271001	Avadhesh Kumar Sharma	Energy
2.	PG201271002	Balram Choudhary	Energy
3.	PG201271003	Gurveer Singh	Energy
4.	PG201271005	Rattandeep Singh	Energy
5.	PG201271006	Veenu Kumari	Energy
6.	PG201271007	Vinay Vaishnav	Energy
7.	PG201271008	Zeeshan Ahmed	Energy
8.	PG201271009	Sandeep Gupta	Energy
9.	PG201272001	Ammar Adil	ICT
10.	PG201272002	Deepa	ICT
11.	PG201272003	Gagandeep Singh	ICT
12.	PG201272004	Hiteshi Jain	ICT
13.	PG201272005	Kulkarni Siddharth Sadanand	ICT
14.	PG201272006	Manjunath Bj	ICT
15.	PG201272007	Naresh Kumar Verma	ICT
16.	PG201272009	Satyam Saxena	ICT
17.	PG201272010	Shakti Gaurav	ICT
18.	PG201272011	Shinde Neha Naresh	ICT
19.	PG201272012	Shirish Mishra	ICT
20.	PG201273001	Adarsh Kumar Misra	SS
21.	PG201273002	Brajesh Kumar Shukla	SS
22.	PG201273004	Saloni Sardana	SS

M.Tech. Students, Batch 2013

Sl. No.	Roll No	Name	Center
1.	PG201372001	Abhay Arora	ICT
2.	PG201372003	Arka Ujjal Dey	ICT
3.	PG201372004	Astha Tyagi	ICT
4.	PG201372006	Divya Sharma	ICT
5.	PG201372012	Piyush Chakrawarty	ICT
6.	PG201372014	Rupali	ICT
7.	PG201372015	Shruti Srivastava	ICT
8.	PG201372016	Sumit Kumar Paliwal	ICT
9.	PG201372017	Tushar	ICT
10.	PG201372018	Akshay Jain	ICT
11.	PG201372019	Praveen Chopra	ICT
12.	PG201372020	Umesh Chaturvedi	ICT
13.	PG201372021	Vishnu Dutta	ICT
14.	PG201371002	Chandni Kumari	Energy
15.	PG201371003	Sheetanshu Tiwari	Energy
16.	PG201371004	Vinay Maheshwari	Energy
17.	PG201373001	Abhinav Sharma	SS
18.	PG201373002	Amanjot Kaur	SS
19.	PG201373003	Anupam Jain	SS
20.	PG201373004	Hargeet Kaur	SS
21.	PG201373005	Jyoti Faujdar	SS
22.	PG201373006	Mathew Alexander	SS
23.	PG201373007	Nishith V. Oze	SS
24.	PG201373008	Raveendra Bavoor	SS
25.	PG201373010	Mahaveer Meel	SS

M.Tech. Students, Batch 2014

Sl. No.	Roll No	Name	Center
1.	M14CT003	Ankit Chouhan	ICT
2.	M14CT004	Anshul Gupta	ICT
3.	M14CT005	Charu Gupta	ICT
4.	M14CT006	Piyush Kumar Jaiswal	ICT
5.	M14CT008	Prem Raj	ICT
6.	M14CT009	Raj Singh Parihar	ICT
7.	M14CT012	Vivek Raghuwanshi	ICT
8.	M14EN002	Satish	Energy
9.	M14EN003	Swarn Kumar	Energy
10.	M14EN004	Vishwa Deepak Kumar	Energy
11.	M14SS001	Amit Kumar Gangwar	SS
12.	M14SS002	Aniruddha Singhal	SS
13.	M14SS003	Gaurav Jajoo	SS
14.	M14SS004	Shreya Goyal	SS
15.	M14SS005	V Saji	SS
16.	M14SS006	Vipul Bijawat	SS

B. Tech. Students, Batch 2011

Sl. No.	Roll No.	Name	Branch
1.	UG201110001	Abhishek Saini	CSE
2.	UG201110002	Amit Raj	CSE
3.	UG201110003	Apurv Gupta	CSE
4.	UG201110004	Ashish Kumar	CSE
5.	UG201110005	Banoth Surya Prasad	CSE
6.	UG201110006	Debashish Ghatak	CSE
7.	UG201110007	Deven Bhooshan	CSE
8.	UG201110008	Gurupratap	CSE
9.	UG201110009	Hari Om Gaur	CSE
10.	UG201110011	Hemraj Kumawat	CSE
11.	UG201110012	Jitendra Kumar Chaudhary	CSE
12.	UG201110013	Jitendra Singh Garhwal	CSE
13.	UG201110014	Kalpnath Rao	CSE
14.	UG201110015	Kankanti Nithin Veer Reddy	CSE
15.	UG201110017	Kuchana Maharshi Devaraj	CSE
16.	UG201110018	Mahesh	CSE
17.	UG201110019	Mayank Agrawal	CSE
18.	UG201110020	Mayank Mittal	CSE
19.	UG201110021	Palak Samaiya	CSE
20.	UG201110022	Pitta Divya Shree	CSE
21.	UG201110023	Praneeth A. S.	CSE
22.	UG201110024	Prashant Rastogi	CSE
23.	UG201110025	Ravi Kumar Meena	CSE
24.	UG201110026	Revti Raman Singh	CSE
25.	UG201110027	Rishi Mishra	CSE
26.	UG201110028	Sahil Kharb	CSE
27.	UG201110029	Sanjeev Kumar	CSE
28.	UG201110030	Santosh Kumar Siddharth	CSE
29.	UG201110031	Saurabh Kumar Gangwar	CSE
30.	UG201110032	Shah Jenil Dilip	CSE
31.	UG201110033	Shivam Verma	CSE
32.	UG201110034	Siddharth Kumar Singh	CSE
33.	UG201110035	Siddharth Maheshwari	CSE
34.	UG201110036	Sonu Mehta	CSE
35.	UG201110037	Syed Navaid Ahmad	CSE
36.	UG201110038	Yash Kumar Sonthalia	CSE
37.	UG201110039	Yeravothula Rohith	CSE
38.	UG201110040	Gatla Rajasekhar Reddy	CSE
39.	UG201110041	Abhishek Bassan	CSE
40.	UG201110042	Arvind Pandey	CSE
41.	UG201110043	Smriti Jain	CSE

42.	UG201110044	Wins Goyal	CSE
43.	UG201111002	Abhishek Pilania	EE
44.	UG201111003	Anshul Narayan Bhatt	EE
45.	UG201111004	Anshul Singh Parihar	EE
46.	UG201111005	Anurag Dharmawat	EE
47.	UG201111006	Atul Agarwal	EE
48.	UG201111007	Battula Sasi Kaushik	EE
49.	UG201111008	Brajesh Kumar	EE
50.	UG201111009	Bussa Pavan Kumar	EE
51.	UG201111010	Damacharla Sandeep	EE
52.	UG201111011	Devendra Kumar Jangid	EE
53.	UG201111012	Gajarla Ravi Teja	EE
54.	UG201111014	Guneet Singh Mehta	EE
55.	UG201111015	Hari Om Meena	EE
56.	UG201111016	Harshit Dixit	EE
57.	UG201111017	Hem Singh Meena	EE
58.	UG201111018	Hemant Kumar Biloniya	EE
59.	UG201111019	Kadoo Amruta Anil	EE
60.	UG201111020	Kotha Sudheer	EE
61.	UG201111021	Koyinni Deekshitha	EE
62.	UG201111022	Krishna Kumar Damolia	EE
63.	UG201111023	Kuldeep Singh Rathore	EE
64.	UG201111024	Kumar Saurav	EE
65.	UG201111025	Lalithkumar P.	EE
66.	UG201111026	Prashant Mittal	EE
67.	UG201111027	Rahul Rathore	EE
68.	UG201111028	Rangaraju Yashomani Srikar	EE
69.	UG201111029	Ravindra Kumar Sharma	EE
70.	UG201111030	Ravyansh Kumar	EE
71.	UG201111031	Sanchit Kumar Singh	EE
72.	UG201111032	Satyendra Kumar Gautam	EE
73.	UG201111033	Shivalika Agarwal	EE
74.	UG201111034	Shivam Punia	EE
75.	UG201111035	Sudhanshu Singh	EE
76.	UG201111036	Sunil Kumar	EE
77.	UG201111037	Vadakattu Sreeja	EE
78.	UG201111038	Vineet Kumar	EE
79.	UG201111039	Voruganti Surya Teja	EE
80.	UG201111041	Alvin Roy Aliath	EE
81.	UG201111042	Aniruddh Ramrakhyani	EE
82.	UG201111043	Ashutosh Mittal	EE
83.	UG201111044	Dhiraj Bhatt	EE
84.	UG201111045	Heena Masuriya	EE

85.	UG201112002	Ankit Aggarwal	ME
86.	UG201112004	Ashutosh Vishwakarma	ME
87.	UG201112005	Atishay Jain	ME
88.	UG201112006	C. Sri Harsha	ME
89.	UG201112007	Chetan Regar	ME
90.	UG201112008	Chilakamarri Satya Ranga Prasanth	ME
91.	UG201112009	Deep Kumar	ME
92.	UG201112010	Deshraj Meena	ME
93.	UG201112011	Devesh Singh	ME
94.	UG201112012	Dheeraj	ME
95.	UG201112013	Gajanand Saini	ME
96.	UG201112014	Gautam Kumar	ME
97.	UG201112015	Harsh Kumar Karmveer	ME
98.	UG201112016	Harshit Srivastava	ME
99.	UG201112017	Himanshu Sahu	ME
100.	UG201112018	Kishan Sharma	ME
101.	UG201112019	Kothapally Mounish	ME
102.	UG201112020	Kunal Vishnu Paraswani	ME
103.	UG201112021	Kundan Singh Meena	ME
104.	UG201112022	Maninder Singh	ME
105.	UG201112023	Manish Sachdeva	ME
106.	UG201112024	Mohit Dadhich	ME
107.	UG201112025	Mukul Kumar Gupta	ME
108.	UG201112026	Navneet Kumar Yadav	ME
109.	UG201112027	Neeraj Kumar	ME
110.	UG201112028	Rahul Sathya Babu	ME
111.	UG201112029	Sagar Anand Ramgare	ME
112.	UG201112030	Sandeep Shankarrao Hatte	ME
113.	UG201112031	Sanket Kinage	ME
114.	UG201112032	Shravan Mishra	ME
115.	UG201112033	Siddee Meena	ME
116.	UG201112036	Tagde Prateek Prakash	ME
117.	UG201112037	Vaidya Kedar Sanjay	ME
118.	UG201112038	Vikash	ME
119.	UG201113002	Abhishek Singh	SS
120.	UG201113003	Ajay Sunarthi	SS
121.	UG201113004	Akhil Arora	SS
122.	UG201113006	Ankit Singh	SS
123.	UG201113007	Arpit Agarwal	SS
124.	UG201113008	Atharv S. Ghaisas	SS
125.	UG201113010	Desidi Siva Prakash	SS
126.	UG201113012	Divya Grover	SS
127.	UG201113013	Gurjot Singh	SS

128.	UG201113014	Himanshu Shukla	SS
129.	UG201113015	Jaswant	SS
130.	UG201113016	Jitendra Kumar Meena	SS
131.	UG201113017	Kakkirala Anuroop	SS
132.	UG201113018	Kowlagi Sudhendra Narayan	SS
133.	UG201113019	Krati Saxena	SS
134.	UG201113020	Kusum Lata Meena	SS
135.	UG201113022	M Hari Haran	SS
136.	UG201113023	Manthani Tejaswi	SS
137.	UG201113024	Mohamed Rehan Mohamed Sagheer	SS
138.	UG201113025	Neelesh Dwivedi	SS
139.	UG201113026	Neha Singh Chauhan	SS
140.	UG201113027	P. Vivek	SS
141.	UG201113028	Pratik Kumar	SS
142.	UG201113029	Rahul Kumar	SS
143.	UG201113030	Raj Rohit Jalem	SS
144.	UG201113032	Rishabh Jain	SS
145.	UG201113033	Sankha Narayan Guria	SS
146.	UG201113036	Shinde Sahil Anil	SS
147.	UG201113037	Tavish Garg	SS
148.	UG201113039	Vinnakota Sai Rakshit	SS

B. Tech. Students, Batch 2012

Sl. No.	Roll No.	Name	Branch
1.	UG201210001	Abhishek Kumar	CSE
2.	UG201210002	Aditya Yadav	CSE
3.	UG201210003	Akash Mishra	CSE
4.	UG201210004	Akshit Jain	CSE
5.	UG201210005	Aseem Raj Baranwal	CSE
6.	UG201210006	Asheet Kumar	CSE
7.	UG201210007	Attanti Madhurya	CSE
8.	UG201210008	Bandela Prathyusha	CSE
9.	UG201210009	Basamgari Harika	CSE
10.	UG201210010	Bundele Manas Mahesh	CSE
11.	UG201210011	Dhake Akash Hiraman	CSE
12.	UG201210012	Dinesh Kumar Jangra	CSE
13.	UG201210013	Dinesh Kumar Saini	CSE
14.	UG201210014	Gaurav Shastri	CSE
15.	UG201210015	Gondi Dedeepya Sai	CSE
16.	UG201210016	Gorla Uhasree	CSE
17.	UG201210017	Jinank Jain	CSE
18.	UG201210018	Kalshetti Pratik Mallinath	CSE
19.	UG201210019	Kunal Dadheech	CSE
20.	UG201210020	Mala Muthyalappa	CSE
21.	UG201210021	Manish Jaiswal	CSE
22.	UG201210022	N. K. Kiran	CSE
23.	UG201210023	Pankaj Kumar	CSE
24.	UG201210024	Pawan Kumar Saini	CSE
25.	UG201210025	Rajesh Kumar Meena	CSE
26.	UG201210026	Rishabh Garg	CSE
27.	UG201210028	Ritesh Kumar	CSE
28.	UG201210029	Rohan Khanna	CSE
29.	UG201210030	Sachin Grover	CSE
30.	UG201210031	Samarth Kumar Goel	CSE
31.	UG201210032	Shah Akshat Mukeshkumar	CSE
32.	UG201210033	Shivam Kumar Garg	CSE
33.	UG201210034	Siddharth Talesra	CSE
34.	UG201210035	Sonika Agrawal	CSE
35.	UG201210036	Sunil Kumar	CSE
36.	UG201210037	Vaibhav Singh Khokhar	CSE
37.	UG201210038	Vijendra Sukariya	CSE
38.	UG201210039	Vikas Meena	CSE
39.	UG201210040	Ankit Jain	CSE

40.	UG201211001	Abhishek Thepra	EE
41.	UG201211002	Ajay Charan	EE
42.	UG201211003	Akarsh Rastogi	EE
43.	UG201211004	Akshay Arya	EE
44.	UG201211006	Anubhuti Mittal	EE
45.	UG201211007	Ashwani Kumar	EE
46.	UG201211008	Ashwani Nainawat	EE
47.	UG201211009	Deepak Verma	EE
48.	UG201211010	Devabattini Sriharsha	EE
49.	UG201211011	Dharm Raj Meena	EE
50.	UG201211012	Dheeraj P.	EE
51.	UG201211013	Dinesh Gurjar	EE
52.	UG201211014	Farazuddin Ansari	EE
53.	UG201211015	Ghanshyam	EE
54.	UG201211016	Hitesh Kumar Singhal	EE
55.	UG201211017	K. V. Vikas Reddy	EE
56.	UG201211018	Lalit Mirdha	EE
57.	UG201211019	Mamta Dhaka	EE
58.	UG201211020	Mukesh Kumar	EE
59.	UG201211021	Nisha Agrawal	EE
60.	UG201211022	Nishit Umesh Parekh	EE
61.	UG201211023	Pawan Kumar Verma	EE
62.	UG201211024	Piyush Dugar	EE
63.	UG201211025	Prakash Gehlot	EE
64.	UG201211027	Rajat	EE
65.	UG201211028	Rajat R Rahatgaonkar	EE
66.	UG201211029	Rajnesh Meena	EE
67.	UG201211030	Sanchit Gupta	EE
68.	UG201211031	Sanket Jain	EE
69.	UG201211032	Santosh Kumar Meena	EE
70.	UG201211033	Saurav Kumar	EE
71.	UG201211034	Sharath Kuntanhal	EE
72.	UG201211035	Shivam Upadhyaya	EE
73.	UG201211036	Shrish Lal Bhatnagar	EE
74.	UG201211037	Sriramadasu Ashok Kumar	EE
75.	UG201211038	Sunil Saran	EE
76.	UG201211039	Tarun Vatwani	EE
77.	UG201211040	Upendra Kumar Nagar	EE
78.	UG201211041	Vinay Shankar Saxena	EE
79.	UG201211042	Antos C. Varghese	EE
80.	UG201211043	Himanshu Takwani	EE

81.	UG201212001	Aditya Khandelwal	ME
82.	UG201212002	Ajay Kumar Jagetiya	ME
83.	UG201212003	Anjali Bansiwal	ME
84.	UG201212005	Ashish Kumar	ME
85.	UG201212006	Ashish Kumar	ME
86.	UG201212007	Atul Dubey	ME
87.	UG201212008	Ayush Bhadauria	ME
88.	UG201212009	B. V. Kishore	ME
89.	UG201212010	Balla Raghavendar Goud	ME
90.	UG201212011	Boddupalli Nibodh	ME
91.	UG201212012	Chamarthy Kameswara Shiva Dinesh	ME
92.	UG201212013	Chetan Gupta	ME
93.	UG201212014	Daman	ME
94.	UG201212015	Dilkhush Meena	ME
95.	UG201212017	Himanshu Yadav	ME
96.	UG201212018	Kamlesh Aseri	ME
97.	UG201212019	Kanak Shrivastava	ME
98.	UG201212020	Manish Soni	ME
99.	UG201212021	N. Vinaykumar Reddy	ME
100.	UG201212022	Navneet Mittal	ME
101.	UG201212023	Pavan Kumar Shakya	ME
102.	UG201212024	Sachin Yadav	ME
103.	UG201212025	Sandeep Kumar Meena	ME
104.	UG201212026	Saurabh Jain	ME
105.	UG201212027	Saurabh Pandey	ME
106.	UG201212028	Shah Jigar Deepak	ME
107.	UG201212030	Shreyas Srivastava	ME
108.	UG201212031	Shubham Gupta	ME
109.	UG201212032	Snigdhadeep Moitra	ME
110.	UG201212033	Sonu Siba Bara	ME
111.	UG201212034	Surendra Pal Singh	ME
112.	UG201212035	Tapesh Kumar Mourya	ME
113.	UG201212036	Thani Aswanth	ME
114.	UG201212037	Vaibhav Gupta	ME
115.	UG201212038	Varun Suryan	ME
116.	UG201212039	Vikash Kumar Goenka	ME
117.	UG201212040	Vishal Kumar	ME
118.	UG201212041	Anshuman Singh	ME
119.	UG201212042	Kirti Vardhan Rathore	ME
120.	UG201213002	Anmol	SS
121.	UG201213005	Divya Nagar	SS

122.	UG201213006	Gaurav Choudhary	SS
123.	UG201213007	Gourab Kumar Patro	SS
124.	UG201213008	Hari Om Meena	SS
125.	UG201213013	Kota V. Aakash	SS
126.	UG201213014	Kshitij Soni	SS
127.	UG201213016	Mahendra Kachhawa	SS
128.	UG201213018	Manish Malhotra	SS
129.	UG201213019	Narender Kumar	SS
130.	UG201213020	Paladugu Venkata Karteek	SS
131.	UG201213021	Palash Jain	SS
132.	UG201213022	Parag Rahangdale	SS
133.	UG201213023	Pise Indraneel Rajnish	SS
134.	UG201213024	Pragati Nagar	SS
135.	UG201213025	Prasoon	SS
136.	UG201213026	Priyanka Raju Masne	SS
137.	UG201213027	Purvi Tiwari	SS
138.	UG201213028	Raghunath Meena	SS
139.	UG201213029	Ravi Kumar	SS
140.	UG201213031	Rochika	SS
141.	UG201213033	Sharwan Songara	SS
142.	UG201213034	Shivam Choudhary	SS
143.	UG201213035	Shreshtha Garg	SS
144.	UG201213036	Sunil Suthar	SS
145.	UG201213037	Vibhav Sharma	SS

B. Tech. Students, Batch 2013

Sl. No.	Roll No	Name	Branch
1.	UG201310001	Aakash Asija	CSE
2.	UG201310002	Aayush Sharda	CSE
3.	UG201310003	Abhay Kumar Singh	CSE
4.	UG201310004	Aman	CSE
5.	UG201310005	Amit Jain	CSE
6.	UG201310006	Anjali Malav	CSE
7.	UG201310007	Archit Agrawal	CSE
8.	UG201310008	Arnav Chopra	CSE
9.	UG201310009	Arnav Jindal	CSE
10.	UG201310010	Avan Jayendra Rathod	CSE
11.	UG201310011	Bharti	CSE
12.	UG201310012	Bharti Arya	CSE
13.	UG201310013	Dishant Goyal	CSE
14.	UG201310014	Hemant Pratap Singh	CSE
15.	UG201310015	Kartik Singh	CSE
16.	UG201310016	Komanduri Sai Raghava	CSE
17.	UG201310017	Kushagra Surana	CSE
18.	UG201310018	Mahendra Kumar Jat	CSE
19.	UG201310019	Makarand Milind Gomashe	CSE
20.	UG201310020	Muttineni Navya	CSE
21.	UG201310021	Nikhil Jeevansingh Taji	CSE
22.	UG201310022	Nithin V.	CSE
23.	UG201310023	Piyush Yadav	CSE
24.	UG201310024	Priyank Arya	CSE
25.	UG201310025	Rajkumar Meena	CSE
26.	UG201310026	Ramkesh Meena	CSE
27.	UG201310027	Ravi Prakash Gupta	CSE
28.	UG201310028	Ravindra Kumar Saini	CSE
29.	UG201310029	Riteek Srivastav	CSE
30.	UG201310030	Shiv Bhagwan	CSE
31.	UG201310031	Shiv Kumar Sen	CSE
32.	UG201310032	Shiv Mohan	CSE
33.	UG201310033	Shubham Saxena	CSE
34.	UG201310035	Sourav Khoso	CSE
35.	UG201310036	Suresh Gehlot	CSE
36.	UG201310037	Tapan Bhatnagar	CSE
37.	UG201310038	Upendra Singh Chauhan	CSE
38.	UG201310039	Vaghela Rajan Arvindkumar	CSE
39.	UG201310040	Vaibhav Paliwal	CSE
40.	UG201310041	Vivek Lata	CSE
41.	UG201311001	Abhishek Agrawal	EE

42.	UG201311002	Abhishek Jaju	EE
43.	UG201311003	Abhishek Kumar Yadav	EE
44.	UG201311004	Amit Kumar	EE
45.	UG201311005	Anirudh Singh Shaktawat	EE
46.	UG201311006	Ankit Garg	EE
47.	UG201311007	Anshul Agarwal	EE
48.	UG201311008	Anshul Yadav	EE
49.	UG201311009	Ashok Kumar	EE
50.	UG201311010	Ashutosh Gupta	EE
51.	UG201311011	Ashutosh Vaishnav	EE
52.	UG201311012	Bhabhuta Ram	EE
53.	UG201311013	Dinesh Kumar Danwa	EE
54.	UG201311014	Dipender Singh Ridmalot	EE
55.	UG201311015	Ekant Kumar	EE
56.	UG201311016	Gurpinder Singh	EE
57.	UG201311017	Hede Tejan Rohit	EE
58.	UG201311018	Hemant Meena	EE
59.	UG201311019	Kanika Mahajan	EE
60.	UG201311020	Khushbu Saxena	EE
61.	UG201311021	Kshitij Sandeep Minocha	EE
62.	UG201311022	Mohit Gupta	EE
63.	UG201311023	Niranjan Sanodia	EE
64.	UG201311024	Paduru Kandarpa Sai	EE
65.	UG201311025	Prakhar Gupta	EE
66.	UG201311026	Rahul Jain	EE
67.	UG201311027	Rajendra Kumar Yadav	EE
68.	UG201311028	Ramdev Bhichar	EE
69.	UG201311029	Rishikesh Meena	EE
70.	UG201311030	Shraddha Garg	EE
71.	UG201311031	Siddhant Jain	EE
72.	UG201311032	Sisodiya Vrushali	EE
73.	UG201311033	Sneha Gupta	EE
74.	UG201311034	Sumit Pegwal	EE
75.	UG201311035	Sushant Gautam	EE
76.	UG201311036	Syed Afshan Ali	EE
77.	UG201311037	Talloju Jawahar	EE
78.	UG201311038	Tiloka Ram	EE
79.	UG201311039	V. Ashwin	EE
80.	UG201311040	Vaibhav Sharma	EE
81.	UG201312001	Aditya Saxena	ME
82.	UG201312002	Akhil Mehta	ME
83.	UG201312003	Amit Kumar	ME
84.	UG201312004	Ankit Raipuria	ME
85.	UG201312005	Arpit Kumar Gahlot	ME

86.	UG201312006	Ayush Raina	ME
87.	UG201312007	Balveer Danga	ME
88.	UG201312008	Bhaskarjyoti Barman	ME
89.	UG201312009	Dheeraj Kumar Sisodiya	ME
90.	UG201312010	Dron Airon	ME
91.	UG201312011	Hardik Jain	ME
92.	UG201312012	Harsh Vardhan Shrivastava	ME
93.	UG201312013	Himanshu Agrawal	ME
94.	UG201312014	Himanshu Kumar Singh	ME
95.	UG201312015	Himanshu Sharma	ME
96.	UG201312016	K. Lakshmi Phalguni	ME
97.	UG201312017	Kanuganti Vamshi	ME
98.	UG201312018	Lakshaya Bhatt	ME
99.	UG201312019	Lakshman Kumar	ME
100.	UG201312020	Lokesh Swami	ME
101.	UG201312021	Manish Rajendra Jadhav	ME
102.	UG201312022	Mayank Gupta	ME
103.	UG201312023	Mohammed Firoz	ME
104.	UG201312024	Mohit Agarwal	ME
105.	UG201312025	Patel Harsh Bhupendrabhai	ME
106.	UG201312026	Pradyuman Meena	ME
107.	UG201312027	Prakhar Srivastava	ME
108.	UG201312028	Pushpendra Dhurwe	ME
109.	UG201312029	Pushpendra Mishra	ME
110.	UG201312030	Rohan Kumar	ME
111.	UG201312031	Rohit Singh	ME
112.	UG201312032	Sachin	ME
113.	UG201312033	Shubham Shaurya	ME
114.	UG201312034	Subham Teji	ME
115.	UG201312035	Vaghela Nirav Jitendrakumar	ME
116.	UG201312036	Vaibhav Jain	ME
117.	UG201312037	Vikas Kumar	ME
118.	UG201312038	Vikrant Arora	ME
119.	UG201312039	Viraat Srivastava	ME
120.	UG201313002	Aman Ajmera	SS
121.	UG201313003	Anirudh Vyas	SS
122.	UG201313004	Arvind Saini	SS
123.	UG201313005	Ayush Bhaskar	SS
124.	UG201313006	Darapaneni Chandana	SS
125.	UG201313007	Deepika Jalli	SS
126.	UG201313008	Deepshi Garg	SS
127.	UG201313010	Gaikwad Sangram Dasharath	SS
128.	UG201313011	Gourav Singh	SS
129.	UG201313013	Jayant Carpenter	SS

130.	UG201313014	Jayant V. Khapre	SS
131.	UG201313015	Joshi Achyut Sanjay	SS
132.	UG201313016	Lingala Prasantha Kumar	SS
133.	UG201313017	Mandeep	SS
134.	UG201313018	Naresh Kumar Prajapati	SS
135.	UG201313019	P Manisha	SS
136.	UG201313020	Pankaj Panwar	SS
137.	UG201313021	Pankaj Yadav	SS
138.	UG201313023	Perla Sukesh	SS
139.	UG201313024	Pinkesh Kumar	SS
140.	UG201313025	Prabhash Jain	SS
141.	UG201313026	Prakhar Mathur	SS
142.	UG201313027	Pramod Kumar	SS
143.	UG201313028	Prashant Kumar	SS
144.	UG201313029	Pulavarthy Anirudh	SS
145.	UG201313030	Rohil Surana	SS
146.	UG201313031	Rohit Kumar	SS
147.	UG201313032	Sangepu Ashrith	SS
148.	UG201313033	Saroj Prasad Chhatoi	SS
149.	UG201313034	Sheela Meena	SS
150.	UG201313035	Shipra Jain	SS
151.	UG201313036	Shubham Singh	SS
152.	UG201313037	Tarun Devireddy	SS
153.	UG201313038	Vishal Kumar	SS
154.	UG201314001	Abhishek Thombre	BISS
155.	UG201314002	Aditya Choudhary	BISS
156.	UG201314003	Ajay Kumar Kumawat	BISS
157.	UG201314004	Arnav Mishra	BISS
158.	UG201314005	Chandresh Kumar	BISS
159.	UG201314006	Dhanajit Brahma	BISS
160.	UG201314007	Himanshu Sikaria	BISS
161.	UG201314008	Jalaj Sharma	BISS
162.	UG201314010	Kaushtubh Kumar	BISS
163.	UG201314011	Kuldeep Meena	BISS
164.	UG201314012	Nisha Kumari	BISS
165.	UG201314013	Pranjal Singh	BISS
166.	UG201314014	Rakesh Yadav	BISS
167.	UG201314015	Sharath Challapalli	BISS
168.	UG201314017	Shrey Maheshwari	BISS
169.	UG201314018	Ujjwal Anand	BISS

B. Tech. Students, Batch 2014

Sl. No.	Roll No	Name	Branch
1.	B14CS001	Abhimanyu Singh Gaur	CSE
2.	B14CS002	Abhinav Rai	CSE
3.	B14CS003	Ajeet Goyal	CSE
4.	B14CS004	Ajeet Ujjwal	CSE
5.	B14CS005	Ankita Muzalda	CSE
6.	B14CS006	Annuay. J	CSE
7.	B14CS007	Anurag Sanyal	CSE
8.	B14CS008	Archil Kumar Srivastava	CSE
9.	B14CS009	Ashish Sahu	CSE
10.	B14CS010	Ayush Agrawal	CSE
11.	B14CS011	B Sree Siddharth	CSE
12.	B14CS012	Bharat Singh	CSE
13.	B14CS013	Chaudhari Akshay Gajanan	CSE
14.	B14CS014	Daval Pargal	CSE
15.	B14CS015	Dhruv Sharma	CSE
16.	B14CS016	Edula Hari Hara Reddy	CSE
17.	B14CS017	Ganesh Bhimrao Patil	CSE
18.	B14CS018	Garimella Sravan	CSE
19.	B14CS019	Gaurav Kamal	CSE
20.	B14CS020	Gutapu Raj Kumar	CSE
21.	B14CS021	Hitesh Hingorani	CSE
22.	B14CS022	Kommuru Vinay Kumar	CSE
23.	B14CS023	Mahendra Meena	CSE
24.	B14CS024	Manish Goyal	CSE
25.	B14CS025	Pranav Arora	CSE
26.	B14CS026	Pushpinder	CSE
27.	B14CS027	Rinku Kumar Meena	CSE
28.	B14CS028	Rishabh Shukla	CSE
29.	B14CS029	Robin Gaur	CSE
30.	B14CS030	Rohit Paliwal	CSE
31.	B14CS031	Sahil Dhiman	CSE
32.	B14CS032	Sandeep Charan	CSE
33.	B14CS033	Rohan Govind Saraf	CSE
34.	B14CS034	Saurav Suman	CSE
35.	B14CS035	Shubham Jain	CSE
36.	B14CS036	Snehal Azad	CSE
37.	B14CS037	Sunil Choudhary	CSE
38.	B14CS039	Varun Kumar	CSE
39.	B14CS040	Vijay Kumar Paliwal	CSE
40.	B14EE001	Abhishek Mandwale	EE
41.	B14EE002	Abhishek Meena	EE

42.	B14EE003	Akshat Shrivastava	EE
43.	B14EE004	Anand Kumar	EE
44.	B14EE005	Ankush Garg	EE
45.	B14EE006	Anusha Gupta	EE
46.	B14EE007	Archit Sharma	EE
47.	B14EE009	Dara Shanmukha Sai Sanjay Gupta	EE
48.	B14EE010	Deepanshu Bhojak	EE
49.	B14EE011	Guntuku Deepak	EE
50.	B14EE012	Himanshu Verma	EE
51.	B14EE013	Jaiswal Ronak Nilesh	EE
52.	B14EE014	Jay Bhavin Sheth	EE
53.	B14EE015	Kanika Jakhar	EE
54.	B14EE016	Kaviti Sarath Kalyan	EE
55.	B14EE017	Kumari Saumya	EE
56.	B14EE018	Mahak Jain	EE
57.	B14EE020	Mohit Mehta	EE
58.	B14EE021	Naveen Kumar Chittoriya	EE
59.	B14EE022	Parmar Sunny Mukeshkumar	EE
60.	B14EE023	Piyush Sharma	EE
61.	B14EE024	Rahul Negi	EE
62.	B14EE025	Ramesh Kumar	EE
63.	B14EE026	Ravindra Parihar	EE
64.	B14EE027	Rishabh Bhardwaj	EE
65.	B14EE028	Ritu Singh	EE
66.	B14EE029	Sachin Mandowara	EE
67.	B14EE030	Shah Neelkumar Sureshkumar	EE
68.	B14EE031	Shivani Meena	EE
69.	B14EE032	Shounak Kulkarni	EE
70.	B14EE033	Sudhir Pratap Yadav	EE
71.	B14EE034	Thara Giriraj Prasad	EE
72.	B14EE035	Tripti Meena	EE
73.	B14EE036	Vamsi Prudhvi Chintaguntala	EE
74.	B14EE037	Vanam Bhanu Sai Simha	EE
75.	B14EE038	Vidit Jain	EE
76.	B14EE039	Vivek	EE
77.	B14EE040	Yasharth Sahu	EE
78.	B14ME001	Abhishek Sharma	ME
79.	B14ME003	Akhil Bindal	ME
80.	B14ME004	Akshay Vinay Bapat	ME
81.	B14ME005	Aman	ME
82.	B14ME006	Anandhu Suresh	ME
83.	B14ME007	Bandi Sai Mukesh	ME
84.	B14ME008	Boghara Pruthvi Rameshbhai	ME
85.	B14ME010	Jerry Mathew Oommen	ME

86.	B14ME011	Kartik Venkata Ramachandruni	ME
87.	B14ME012	Katakam Harsha Sai Manohar	ME
88.	B14ME013	Kuldeep Meena	ME
89.	B14ME014	Madhvendra Tiwari	ME
90.	B14ME015	Manoj Malviya	ME
91.	B14ME016	Mohammad Sharey	ME
92.	B14ME017	Mohit Vijay	ME
93.	B14ME019	Parella Ravi Teja	ME
94.	B14ME020	Patel Pranav Nareshbhai	ME
95.	B14ME021	Pawan Kumar	ME
96.	B14ME022	Pothula Krishna Teja	ME
97.	B14ME023	Rachit	ME
98.	B14ME024	Rahul Chanania	ME
99.	B14ME025	Rajendra Manda	ME
100.	B14ME026	Rishabh Badodia	ME
101.	B14ME027	Santhoju Shiva	ME
102.	B14ME028	Santhosh M	ME
103.	B14ME030	Shinde Shubham Bhaskar	ME
104.	B14ME031	Shivam Jaiswal	ME
105.	B14ME032	Shivam Srivastava	ME
106.	B14ME034	Shubham Kaushal	ME
107.	B14ME035	Sutariya Monark	ME
108.	B14ME036	Suyog Bodhankar	ME
109.	B14ME037	Udit Singh Parihar	ME
110.	B14ME038	Uma Shankar Sharma	ME
111.	B14ME039	Vanditi Mathur	ME
112.	B14ME040	Vedant Bhuyar	ME
113.	B14SS002	Angad Singh Sabherwal	SS
114.	B14SS003	B Sai Chaitanya	SS
115.	B14SS006	Devanshu Bhavin Kathrecha	SS
116.	B14SS007	K Tejas Reddy	SS
117.	B14SS008	Katragadda Karthik	SS
118.	B14SS009	Mansi Mittal	SS
119.	B14SS011	Pranali Pawar	SS
120.	B14SS013	Raj Prajapat	SS
121.	B14SS017	Shreyansh Chhajer	SS
122.	B14SS018	Tejas Gattani	SS
123.	B14SS019	Vaibhav Baban Ganer	SS
124.	B14SS020	Yashwant Kumar Meena	SS
125.	B14BS005	Dinesh Kumar Maurya	BISS
126.	B14BS006	Divya Naval	BISS
127.	B14BS009	Kumar Venkateshwar	BISS
128.	B14BS011	Mahesh	BISS
129.	B14BS014	Sahil Bhatia	BISS

130.	B14BS015	Shubham Talbar	BISS
131.	B14BS016	Vishal Verma	BISS

FINANCIAL POSITION

The MHRD has released a sum of Rs. 9900.00 Lakhs as Grant-in-Aid under Normal Plan Head and Rs. 1087.04 Lakh as opening balance as on 01-04-2014. The internal income of the Institute was Rs. 991.79 Lakh. The total Plan expenditure during the year was Rs. 10110.83 Lakh (Recurring Rs. 2855.05 Lakh and Non-Recurring Rs. 7255.78 Lakh).

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