

**Pandit Dwarka Prasad Mishra**  
**Indian Institute of Information Technology,**  
**Design and Manufacturing, Jabalpur**  
Dumna Airport Road, Jabalpur- 482005  
Madhya Pradesh, India  
Phone: +91 761 2632549, +91 761 2794145  
Email: placement@iiitdmj.ac.in  
Website: placement.iiitdmj.ac.in

**PANDIT DWARKA PRASAD MISHRA**  
**INDIAN INSTITUTE OF INFORMATION TECHNOLOGY,**  
**DESIGN AND MANUFACTURING, JABALPUR**  
AN INSTITUTE OF NATIONAL IMPORTANCE SETUP BY  
MHRD, GOVT. OF INDIA

# **PLACEMENT BROCHURE** 2019-20

**Design & Visualization**  
Navneet Kamal, MDes  
Assisted by  
Kailas P, BDes

**Content Compilation**  
Utkarsh Dongre, BTech CSE  
Kailas P, BDes

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Design n Print  
designnprint.jbp@gmail.com

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## FROM THE DIRECTOR

It gives me immense pride and pleasure in introducing to you PDPM IIITDM Jabalpur as an edifying Institute of National Importance setup by Govt. of India under IIIT Act 2014, in empowering young minds. This is a class of highly accomplished individuals, with exceptional technical and leadership abilities, honed by the academic rigour and challenging learning environment. Students here are trained to be ready to face any challenge that may come in their path. This has helped them become not just the next great innovators but also leaders in their respective fields.

PDPM IIITDM Jabalpur creates an environment that is competitively intense and intellectually satisfying in the serene 250 acres of greenery complete with classrooms, laboratories, hostels, library, and sports complex. Today, graduating from this colossus has become the rite of passage for the would-be successful young engineers and entrepreneurs.

Dear Recruiters, Welcome to PDPM IIITDM Jabalpur, a centrally funded technical Institute. I can say with confidence that the training our students have gone through equips them to succeed and in fact, guide the world in the right direction. Once again, I invite you for the recruitment of the batch of 2016. There are a large number of organizations with which we have enjoyed lasting and fruitful relationship. These have been visiting the campus year after year which certainly brings out the point that our alumni do deliver with unmatched professional enthusiasm. This year too we would like to see you on campus. However, there are many organizations that do have PDPM IIITDM Jabalpur Alumni on their rolls, but may not have come to the campus for fresh recruitments. Through this, I offer invitation to all of them. I sincerely wish that this is a great and fruitful relationship in the making.

I appreciate the Placement Office for their untiring efforts, and I am certain that our students, with help of the placement office, will find their dream jobs. Wishing the students all my best in Placement 2019-20.

**Prof. Sanjeev Jain**  
Director, PDPM IIITDM Jabapur



## An Institute born for Innovation in Engineering and Design

Extensive Employability Skill Building Workshops  
CEO Dinner Series and Conversation Programmes  
Behavioral Science Modules and Compulsory Foreign Language

Exclusive Triple C model - Corporate Counseling Club  
ICT enabled PPM - Pre-placement Mock Sessions  
Networking Opportunities with a Strong Alumni Network

## FROM THE CHAIRPERSON PLACEMENT CELL

PDPM IIITDMJ is an Institute of National Importance imparting quality technical and design education. During the last decade, it has marked its footprint not only amongst Indian industry and research fraternity but on the global level too. The Institute lays strong emphasis on multidisciplinary academic framework with hands-on experience through project based learning. This gives ample opportunities to students to groom themselves not only for problem solving and innovation in knowledge economy but also imparts the skills to work in a collaborative environment and handle work pressures.

It's my privilege to invite the Industry, Academic Institutions and Research Labs to the Institute for interaction with our energetic young minds, the students of today and makers of tomorrow. As an Institute, we believe that academia industry collaboration would not only help prepare the young students for the world outside the campus, but also excite them to trigger meaningful innovations in the industry with their bold initiatives. Our undergraduate students undergo six months internship at reputed organizations in India and abroad. We have established several tie-ups with international academic institutions and industries, and are constantly working to create and enhance industry-academic relationship.

Through my engagement with the batch as the Chairperson, Placemen Cell, I have prodigious assurance in the talent of the budding minds. Being a firm believer in the fact that action speaks louder than the words, I extend a very cordial invitation to your esteemed organization to see for yourself the abundance talent at IIITDM Jabalpur. I request you to visit at least once, and I can assure you that you would be equally excited to recruit, and in the process harness the rich experience, commitment, integrity, technical skills and brilliant design acumen of our students.

Rest assured it would be worth to interact with the students of IIITDMJabalpur.

Best Wishes.

### Dr. Pritee Khanna

Chairperson, Placement Cell  
PDPM IIITDM Jabalpur





## About IIITM JABALPUR

Advancement in science and technology is ushering upon us hopes of a better tomorrow every single day. The society today is in demand of service and facilities which can be met only through participatory involvement of all engineering domains. The current engineering education system in India, though huge and diverse, is mainly based on the conventional idea of a pipeline model.

Today the industry cannot survive solely by offering technical service. Engineers today need to show acumen in the domains of functional aesthetics and ergonomics as well. Successful implementation of untapped technologies in the form of IT-enabled design, rapid product development: hybrid manufacturing solutions, cloud-based services and artificial intelligence are integrated into the new academic program.

The academic program should also be able to respond to an industry driven adaptive management structure. With the above requirements in mind, the ministry of Human Resource Development (MHRD), Government of India, felt the need to set up an Institute of National Importance devoted to exclusively Information Technology (IT), Design and Manufacturing (D and M). It was envisaged that such an academic Institute would foster excellence in the desired areas of specialization and would facilitate and promote the competitive advantages of Indian products and manufacturing in global markets. Further, the Institute would serve as an inter-disciplinary center for research and innovation. The Indian Institute of Information Technology, Design and Manufacturing, Jabalpur (IIITDMJ), an Institute of National Importance was thus established in January 2005. Strong industry interface, close-cooperation with other academic and research institutions and India-Japan collaboration are the key features of this Institute.

**The institute is inclined towards imparting engineering and design skills to its students as well as nurturing the innate quality of every human being, that is, innovation.**

## CAMPUS





## COLLABORATIONS

The IIITDM Jabalpur – Japan collaboration is an aspect of a wider partnership envisaged between Japan and India. The Institute is being developed and nurtured under India - Japan partnership as a unique Institute of its kind with focus on IT enabled design and manufacturing. Under a joint agreement between the two Governments, Japan, a leader in cutting edge manufacturing technologies is committed to provide support for development of the teaching and research programmes, and also to promote the infrastructure of the Institute. For effective implementation of this collaboration, Government of Japan has formed consortium with the following universities and industries:

### Among Universities

1. The University of Tokyo
2. Tohoku University
3. Kyushu University
4. Tokyo Institute of Technology
5. Shibaura Institute of Technology
6. Kanagawa Institute of Technology

### Among Industries

1. Hitachi
2. Toshiba
3. Amada
4. Okuma
5. Sumitomo Metals
6. GE Energy

### Besides, MoUs are signed with:

- alfa TKG Co., Ltd. Japan
- ABV-IIITM Gwalior
- Bharat Forge Limited, Pune
- BARC, Mumbai
- BrahMos Aerospace, New Delhi
- Beijing Univ. of Chemical Tech., Beijing, PRC
- BRBRAITT, BSNL
- Chiba University, Japan
- IBM
- NMSTU, Magnitogorsk, Russia
- Smart City Lab, Germany
- Zeus Numerix Pvt. Ltd., Mumbai

## JENESYS

JENESYS, Japan - East Asia Network of Exchange for Students and Youths, is a project advanced by the Japanese Government from the standpoint of providing a sound foundation for strong solidarity within Asia through large scale youth exchange. This program is expected to deepen mutual understanding among young people who will assume important roles in the next generation in each East Asian country.

The students of the Institute visit Japan for exposure as well as on summer internships for a duration of one to two months. Their visit is fully supported by the Japanese Government. This exposure visit of students helps them understand the education and training system of Japan. The industry people also explain the students the process of getting summer internships in some of the leading industrial labs. They also get an exposure to opportunities of getting higher education in Japan.

## JICA

PDPM IIITDM Jabalpur is one of the partner schools of Japan International Cooperation Agency (JICA) in 'Innovative Asia Program' among nine Institutes of national importance in India.

PDPM IIITDM Jabalpur also hosted the JICA and Ministry of Foreign Affairs Japan delegation.



## WORLDWIDE DESIGN CONSORTIUM

The Institute is involved in a worldwide design consortium aimed at addressing the present challenges in product design with the following universities across the globe:

- (a) Delft University of Technology, the Netherlands
- (b) Purdue University, United States of America
- (c) Vaal University of Technology, South Africa
- (d) University of Medellin, Columbia

# STARTUP INDIA

This initiative aims at fostering entrepreneurship and promoting innovation by creating an ecosystem that is conducive for growth of Startups. The objective is to make India a nation of job creators instead of being a nation of job seekers.



**Rajendra Lora**, Founder Freshokartz Agri Products

Freshokartz Agri Products is one stop shop for all your fruits and vegetable needs.



**Shubh Bansal**, Co-Founder Truebil.com

Truebil.com is India's leading omnichannel platform for buying and selling of pre-owned cars.



# ACADEMICS

## PROJECT BASED INTERNSHIP

The Institute recognizes that the classroom cannot serve as the ultimate seat for any student. Exposure to on-field technology and associated involvement in live research projects remains a much needed element to ensure a holistic form to one's educational journey. The Project Based Internship (PBI) realizes this vision by providing students to work in the premises of leading industries and academia for a duration of six months on the completion of their sixth semester. One of the most unique features of our academic program, the PBI provides students with an opportunity to learn and implement their classroom take-aways over three years.

## DESIGN AND FABRICATION PROJECT

The two semester long Engineering Design & Fabrication Project can be considered as a miniature scale product development module. Using some of Industry's most frequently used design strategies like TRIZ, Morphological Analysis and Ideality Analysis, students work on the identification and formulation of problem statements which form the subsequent basis for product design and fabrication over a period of roughly seven months. The key take-away of this course is the valuable experience gained by students in the domains of design, fabrication, packaging and finishing.



# COMPUTER SCIENCE & ENGINEERING

The Discipline of Computer Science and Engineering consists of highly qualified faculty members and technical staff, committed to produce professionals and entrepreneurs with sound knowledge and skillset on cutting edge technologies. Advance lab facilities and project-based self-learning supported by courses on fundamental and emerging topics help groom students as true professionals to address emerging challenges of Society 5.0 and Industry 4.0.

## CORE COURSES

- Fundamentals of Computing
- Data Structures and Algorithms
- Database Management System
- Operating System
- Computer Organization and Architecture
- Design and Analysis of Algorithms
- Data Communication
- Computer Networks
- Software Engineering
- Language Theory
- Compiler Design

## LABS

- Image and Vision Engineering
- Machine Intelligence
- IOT and Embedded Systems

## ELECTIVE COURSES

- Artificial Intelligence
- Blockchain Technologies
- Basics of Deep Learning
- Big Data Analytics
- Biometric Technologies and Applications
- Cyber Security
- Cloud Computing
- Dependable Computing
- Human Computer Interaction
- Machine Learning
- Natural Language Processing
- Network Security and Cryptography
- Mobile and Wireless Networks



# LIST OF FACULTY

Name	Designation	PhD From
Prof. Sanjeev Jain	Professor & Director	Barkatullah University
Prof. Aparajita Ojha	Professor	RDV Jabalpur
Dr. Pritee Khanna	Associate Professor	Kurukshetra University
Dr. Atul Gupta	Associate Professor & Head	IIT Kanpur
Dr. Sraban Kumar Mohanty	Assistant Professor	IIT Guwahati
Dr. Vinod Kumar Jain	Assistant Professor	ABV-IIITM Gwalior
Dr. Manish Kumar Bajpai	Assistant Professor	IIT Kanpur
Dr. Ayan Seal	Assistant Professor	Jadavpur University
Dr. Kusum Kumari Bharti	Assistant Professor	ABV-IIITM Gwalior

# ELECTRONICS & COMMUNICATION ENGINEERING

Electronics and Communication Engineering discipline aims to enrich students with a strong foundation of principles that mark the innovation in electrical and electronics technology. With A-class lab equipment and other e-learning facilities, the students are provided with a dynamic environment for learning and research. Online access to various reputed international Journals not only keeps students aware of the most recent developments in the fields of electronics, but also serves as a motivation. The students are well prepared to understand the contemporary technology and to aid to its further development.

## POWER AND CONTROL

1. Control System Engineering
2. Special Topics in Power and Control Systems
3. Power Electronics and Drives
4. System Design Power and Control
5. Fuzzy Logic and Neural Networks

## MICROELECTRONICS AND VLSI

1. Electronics Devices and Circuits
2. Linear Integrated Circuits
3. Analog IC Design
4. VLSI Design
5. MEMs and Microsystems
6. Advanced VLSI Design

## MICROWAVE AND COMMUNICATION

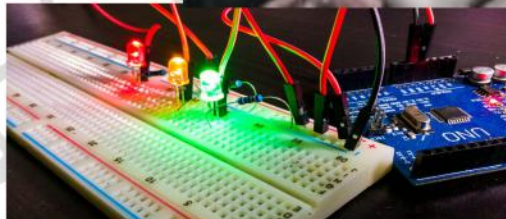
1. Fundamentals of Electromagnetic Theory
2. RF and Microwave Circuit Design
3. RF and Optical MEMs
4. Antenna Theory and Design
5. Nano-Photonics and Plasmonics
6. Principles of Communications

## SIGNAL PROCESSING

1. Signal System and Networks
2. Digital Signal Processing
3. Time and Frequency Analysis
4. Multi-rate signal Processing
5. Statistical Signal Processing
6. Wavelets and Filter Banks

## LABS

FIST Lab and Basic Electronics Lab  
Microwave Radiation Lab  
Computational Electromagnetic Lab  
Communication Engineering Lab, Signal Processing Lab  
Power and Control Lab, Nano Electronics and VLSI Lab



# LIST OF FACULTY

Name	Designation	PhD From
Prof. P. N. Kondekar	Professor	IIT Bombay
Dr. Prabin K. Padhy	Associate Professor & Head	IIT Guwahati
Dr. Dinesh Kumar V.	Associate Professor	IISc Bangalore
Dr. Sachin K. Jain	Assistant Professor	IIT Kanpur
Dr. Anil Kumar	Assistant Professor	IIT Roorkee
Dr. Manoj Singh Parihar	Assistant Professor	IIT Delhi
Dr. Matadeen Bansal	Assistant Professor	ABV-IIITM Gwalior
Dr. Dheeraj Sharma	Assistant Professor	IIT Indore
Dr. Varun Bajaj	Assistant Professor	IIT Indore
Dr. Biswajeet Mukherjee	Assistant Professor	IIT Bombay
Dr. Trivesh Kumar	Assistant Professor	IIT Kanpur
Dr. Dip Prakash Samajdar	Assistant Professor	University of Calcutta
Dr. Atul Kumar	Assistant Professor	IIT Guwahati
Dr. Irshad Ahmad Ansari	Assistant Professor	IIT Roorkee
Dr. Ravi Panwar	Assistant Professor	IIT Roorkee

# MECHANICAL ENGINEERING

The Discipline of Mechanical Engineering at IIITDM Jabalpur focuses on furnishing the students with theoretical concepts along with their practical applications. Under the guidance of an immensely experienced and highly qualified faculty, students not only learn the conventional courses like Thermodynamics, Design of Mechanical Components etc., but also study about the new technologies such as CAD and Rapid Prototyping. With the Indo-Japanese collaboration, a great importance is given to the 'Manufacturing' aspect where students learn about conventional machining concepts as well as advance manufacturing machines and processes.

Also, the well equipped labs with adequate manufacturing facilities lead students in gaining exposure to practically learn and implement the theories on machines.



## CORE COURSES

1. Thermodynamics
2. Solid Mechanics
3. Kinematics and Dynamics of Machines
4. Manufacturing Technologies
5. Fluid Mechanics and Heat Transfer
6. Design of Mechanical Components

## DESIGN ELECTIVE

1. Computer Aided Design
2. Vibrations of Mechanical System
3. Finite Element Method (FEM)
4. Automobile Engineering
5. Design of Mechanical Systems
6. Vehicle Engineering
7. Computer Aided Geometric Design

## MANUFACTURING ELECTIVES

1. NC Machine Tools
2. Advance Manufacturing Process and Technologies
3. Computer Integrated Manufacturing
4. Rapid Product Development Technique

## THERMAL AND FLUID ELECTIVE

1. IC Engines
2. Computational Fluid Dynamics
3. Advance Heat Transfer
4. Energy Conservation Devices

## SOFTWARES

1. Solid works
2. CATIA
3. Adams
4. ANSYS
5. MATLAB

# LIST OF FACULTY

NAME	Designation	PhD From
Prof. Puneet Tandon	Professor & Head	IIT Kanpur
Prof. Tanuja Sheorey	Professor	IIT Kanpur
Prof. Vijay Kumar Gupta	Professor	IIT Bombay
Dr. Sunil Agrawal	Associate Professor	IIT Kanpur
Dr. Prashant K. Jain	Associate Professor	IIT Delhi
Dr. M. Amarnath	Assistant Professor	IIT Madras
Dr. H. Chelladurai	Assistant Professor	IIT Kanpur
Dr. Mohd. Zahid Ansari	Assistant Professor	Inha University, South Korea
Dr. Sujoy Mukherjee	Assistant Professor	IISc Bangalore
Dr. Shivdayal Patel	Assistant Professor	IIT Delhi
Dr. Harpreet Singh	Assistant Professor	IIT Roorkee
Dr. Saurabh Pratap	Assistant Professor	IIT Kharagpur
Dr. Himansu Sekhar Nanda	Assistant Professor	NIMS, Tsukuba, Japan

## OTHER ACTIVITIES

### IIITDMJ Racing

IIITDMJ Racing is the official SAE collegiate club of IIITDM Jabalpur. Focusing mainly on Automobile Engineering, a team of 25 members every year manufactures a F1 prototype race car starting from scratch to a fully functional vehicle. It involves indigenous design and fabrication of each component. So



far, the team has produced 4 versions of race car, namely – Luminescence 1.0, Zarkava 2.0, IIITrino 3.0 and Vega 4.0. The team secured an overall rank of 29th among 126 teams at SUPRA SAE 2018.

### Robocon IIITDMJ Jabalpur

Team Robocon IIITDMJ has well over 30 members. The ROBOCON journey includes decent national ranks in annual events.



### TECHgium 2019

TECHgium is a national level open engineering contest organised by L&T Technology Services every year. Three students made it to National Finals among 18000+ teams across nation providing an optimum solution for Noise Cancellation in Multi Megawatt Wind Turbines.

## LABS

Additive Manufacturing Lab

Advance Manufacturing Process Lab

Automobile Research Lab

CAD/CAM Lab

Composite Lab

Computational Fluid Dynamics Lab

deLOGIC Lab

Fluid Mechanics and Heat Transfer Lab

Geometric Modeling Lab

Kinematics and Dynamics of Machines Lab

Machine Dynamics and Vibrations Lab

Manufacturing Innovation Center

Mechanical Material Testing Lab

Solid Mechanics Lab

Thermodynamics Lab

Tribology Lab

UG Computational Lab

VCR Engine Lab



## NATURAL SCIENCES

Natural Sciences are the integral part of IIITDM Jabalpur since its inception. The fields of Natural Sciences, already integrate various other disciplines of the Institute with some emerging fields such as Materials Engineering, Nanomaterials, Biomedical Physics, Numerical Analysis & Scientific Computing, Image processing etc. The basic purpose of interdisciplinary curriculum of the Institute is expanding the knowledge and applications overlapping different fields of experts. Learning process cannot be restricted to a limited space and therefore Natural Sciences are coupled with other disciplines to follow the same.

Physics discipline has six faculty members undertaking cutting edge research on Magnetic materials, Multiferroics, Nanomaterials for magnetism and other applications, Biomedical Physics and Electrodeposited magnetic thin films.

Mathematics discipline has six faculty members focusing on Parallel Computing, Computational Fluid Dynamics, Hyperbolic IBVP, Spectral Methods, Probability Theory, Topological study of Wireless Networks and Wireless Communication.



### Physics Courses

Engineering Mechanics  
Electrodynamics and Optics  
Modern Physics  
Material Science

### Mathematics Courses

Mathematics I  
Mathematics II  
Advanced Engineering Mathematics  
Analytical Methods in Engineering  
Discrete Mathematics  
Applied Probability and Statistics  
Numerical Methods  
Optimization  
Stochastic Processes

### Labs and Facilities

Scanning Electronic Microscope (SEM), X-Ray Diffractometer (XRD), Atomic Force Microscopy (AFM), Tensile Machine, Optical Microscope, Basic X-Ray unit, e/m Thomson's Apparatus, Millikan's Oil Drop Apparatus, Tube Furnace, Box Furnace, Spectrometer, He-Ne Laser Four Probe Setup, Hysteresis Loop Setup, Flywheel Sonometer, Capacitor Charging Discharging Kit

## LIST OF FACULTY

Name	Designation	PhD From
<b>Mathematics</b>		
Dr. Subir Singh Lamba	Assistant Professor & Head	IIT Kanpur
Dr. Bhupendra Gupta	Assistant Professor	IIT Kanpur
Dr. Lokendra K. Balyan	Assistant Professor	IIT Kanpur
Dr. Nihar Kumar Mahato	Assistant Professor	IIT Kharagpur
Dr. Manoj Kumar Panda	Assistant Professor	IIT Kanpur
Dr. Deepmala	Assistant Professor	Pt. Ravishankar Shukla University, Raipur
<b>Physics</b>		
Dr. Asish Kumar Kundu	Associate Professor	JNCASR Bangalore
Dr. Mukesh Kumar Roy	Assistant Professor	IIT Kanpur
Dr. Nihar Ranjan Jena	Assistant Professor	Banaras Hindu University
Dr. Yashpal Singh Katharria	Assistant Professor	Inter-Univ. Accelerator Centre/JNU, New Delhi
Dr. Amresh Chandra Mishra	Assistant Professor	IIT Kharagpur
Dr. Neeraj Kumar Jaiswal	Assistant Professor	ABV-IIITM Gwalior

## DESIGN DISCIPLINE

In Design Discipline at PDM IIITDM Jabalpur, a holistic and all-inclusive philosophy is applied to train Human resources in the paradigm of Modern Design at Master's and Doctoral level, so as to make them adept designers. The rigorous curriculum, the intense research methodologies, the diligent practice of skills creates knowledge based professionals of industrial design and innovation. Presently the Institute is offering a doctoral program (PhD), a two years graduate level MDes course and the newly designed four years undergraduate level BDes course.

### COMMUNICATION

English section at IIITDM Jabalpur has pioneered in preparing a curriculum to nurture creative and innovative minds, adept in cultural values and communication skills. The elective courses for UG, like , Indian Philosophy, Soft Skills and Personality Development, have earned popularity among students and have aimed to nurture creativity in the students at the Institute in shaping their minds to lead and develop India and the world.

### LABS

Sol<sup>l</sup> Lab (Social Innovation Lab)  
Ergonomics Laboratory  
Art, Science and Design Lab  
New Media and Exploration Lab



DESIGN  
DISCIPLINE  
IIITDM JABALPUR

## LIST OF FACULTY

Name	Designation	PhD From
Prof. Puneet Tandon	Professor	IIT Kanpur
Dr. Prabir Mukhopadhyay	Associate Professor & Head	University of Limerick, Ireland
Dr. Sangeeta Pandit	Assistant Professor	IIT Guwahati
Dr. Shekhar Chatterjee	Assistant Professor	Gujarat University
Dr. Tripti Singh	Assistant Professor	Banasthali University
<b>Communication</b>		
Dr. Mamta Anand	Assistant Professor	Banasthali University

### STUDENT PROJECT



# DESIGN COURSES

## BDes

### Product Design

Applied Ergonomics  
Engineering Design  
Industrial Design  
Materials and Processes  
Studies in Form  
Sustainable Design

### Communication

Communication Design  
Design Drawing  
Design Arts and Aesthetics  
Interface Design  
Packaging Design and Branding  
Representation Techniques  
Visual Ergonomics

### Others

Design Fundamentals  
Design Research including User Study  
Design Forecasting and Trend Research  
Design Management  
Engineering Graphics  
Introduction to Ergonomics in Design  
Science in Design  
Software Skills  
Service Design

## MDes

### Product Design

Applied Ergonomics  
Design Styling and Trend Forecast  
Materials and Process in Design  
Medical Equipment Design  
Product Detailing  
Product Design  
Product Design in Electronics  
Sustainable Design

### Communication Design

Art & Aesthetics in Design  
Information Design  
Interactive Design  
Photography  
Packaging and Branding  
Typography  
Video and Animation Design  
Visual Ergonomics, Visual Design

### Others

Elements and Principles of Design  
Ergonomics for Industrial Design  
Design Workshop  
Design and Technology  
Design Thinking  
Strategic Design Management  
Culture and Design

## PhD

Universal Design  
Product Design  
Visual Ergonomics  
Industrial Ergonomics  
Communication Design  
Systems Design  
Interaction Design

## Communication Courses

Effective Communication Skills  
Culture and Human Values  
Soft Skills and Use of English Language  
Literature in Social Cultural Panorama  
Indian Philosophy & Literature in English



## Form Design

## Design Thinking



## Sketching & Rendering



# WORKSHOPS AND CONFERENCES

**MARCH 2019**  
Design Workshop  
(DeW 2019)

**OCTOBER 2018**  
Conference on Information and  
Communication Technology  
(CICT 2018)

**SEPTEMBER 2018**  
Third International Conference  
on Computer Vision & Image  
Processing (CVIP 2018)

**FEBRUARY 2018**  
1<sup>st</sup> International and  
4<sup>th</sup> National Conference on  
Reliability and Safety Engineering (INCRS 2018)

**NOVEMBER 2017**  
Conference on Information and  
Communication Technology  
(CICT 2017)

**OCTOBER 2017**  
International Conference on  
Physics and Mechanics of New Materials  
and Their Applications (PHENMA 2017)

**OCTOBER 2017**  
Intel Code Modernization Workshop -  
Parallel Programming using Intel  
Architecture and Software Tools

**JULY 2017**  
Workshop on IoT Smart City  
Applications with FIWARE

**FEBRUARY 2017**  
Workshop on Network  
Simulation & Tools (NS3 and Omnet++)

DeW is an interdisciplinary design workshop organized by IIITDM Jabalpur in collaboration with the Ministry of Foreign Affairs, Japan.



DeW 2019 was focused on Security and Privacy of Cyber-Physical Systems.

Cloud based infrastructure and services have grown multifold over the last decade especially for business applications, social networks and Industrial Internet of Things (IIoT). Consequently, security and privacy in Cyber-Physical Systems have become extremely important.

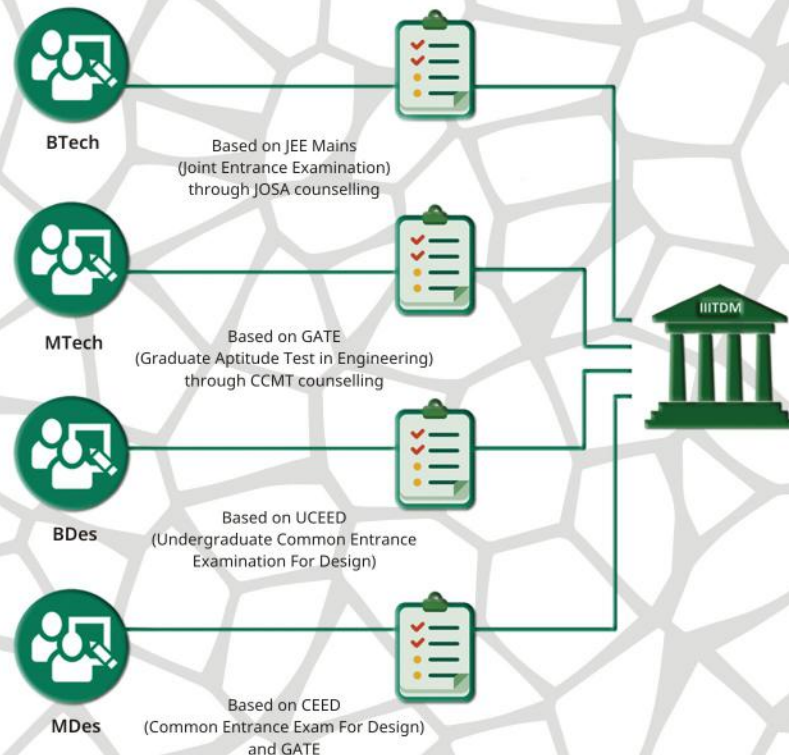


## RESEARCH & DEVELOPMENT

### Some of the ongoing Projects

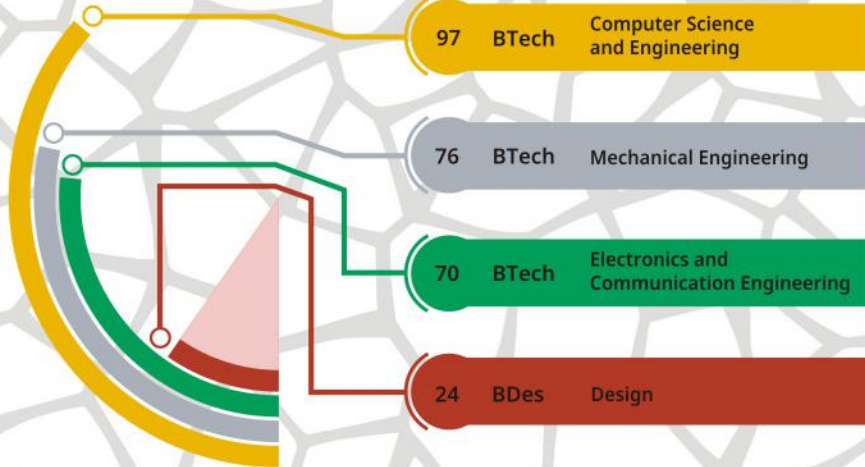
- Academic Collaboration under Design Innovation Centre
- Electronics and ICT Academy
- Special Manpower Development Programme for Chips to System Design
- Analytical Modelling and Simulation of III-V Nanostructure based Hybrid Solar Cells
- Computational Design of Functional Nucleotides for Artificial Life
- Design and Analysis of Multiplierless Multirate Filterbank with Low Complexity
- Design and Development of RF Energy Harvesting Circuits for Low-power Electronic Devices
- Design, Simulation and Development of Conformal Phased Array Antenna for Airborne Applications
- Development of Adaptive Double Sided Incremental Forming Process for Dieless Manufacturing
- Development of Induction- Conduction based Material Deposition System for Metal Additive Manufacturing
- Development of Load Forecasting System for MP State
- Development of Low-Cost Science Experiments/Demonstrations for Strengthening the Activity based Science Learning in Tribal Schools
- Development of Mathematical Models to Minimize the Impact of Airline Disruption in Real Time Bases
- Efficient Use of Discarded Heterogeneous Electronic Waste for Development of Cost Effective Microwave Absorber
- Electronic and Spintronic Properties of Halogen Functionalized Graphene Nanoribbons
- Empowering Women through Visual Communication Tools
- FPGA Prototype of Non-recursive Key based Cryptosystem for Secure Transmission of Real Time Privacy Signal
- Fractal Based Dielectric Resonator Antennas for Compact Wideband and High Gain Applications
- High Sensitive MEMS Piezoresistive Microcantilever Sensor
- Implementation of Sigma Delta Modulator using Nanowire Electrically Doped Hetero Material TFET for Ultra Low Power Applications
- Investigation of Compact and Miniaturized Dielectric Resonator Antenna Loaded with Metamaterial based Structures for Wireless Applications
- Mathematical and Computational Modelling of Epidemic Forecast and Disease Transformation
- Mathematical Modelling of Biased Swimming Micro-organisms by Bio Convection
- Numerical Modeling and Development of New Method for Hybrid Metal Forming of Complex Parts of Ultra-high Strengths Materials
- Prediction of Diseases through Computer Assisted Diagnosis System using Images Captured by Minimally-Invasive and Non-Invasive Modalities
- Privacy Enhancing Revocable Biometric Identities (PERBI)
- Radiation Effects in Gallium Oxide
- Similarity Detection and Process Information Retrieval from Large Part-Drawing Database of Manufacturing Companies: A Mini Industry 4.0 Solution
- Technology Intervention in Product Design for the Elderly - Case Studies on Umbrella and Stick Designs

## ADMISSION PROCEDURE



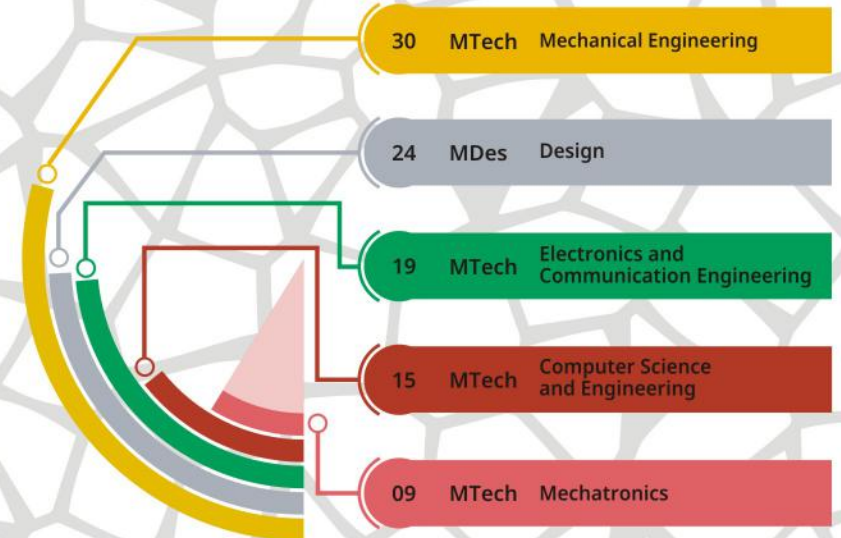
## DEMOGRAPHICS: 2019-20

UNDER GRADUATES : 267



## DEMOGRAPHICS: 2019-20

POST GRADUATES : 97





## LIFE OUTSIDE THE CLASSROOM

### STUDENT LIFE

Amidst the tight academic schedule, every now and then students manage a spree for themselves. A variety of events are organized where students ardently participate and showcase their talents. These events act as an opportunity for students to deploy their technical and managerial skills and assimilate all-important practical outlook.

IIITDMJ emphasizes on several extra-curricular activities in addition to its rigorous academic programme. IIITDMJ students have formed various clubs under Students Gymkhana, which organises various cultural, sports and science & technology activities throughout the year.

### CLUBS

Timely meetings throughout the year and student's active participation are the most remarkable characteristics of the Institute's clubs. As a result, students of PDPM IIITDMJ Jabalpur participate in various inter-college festivals to show their talents. Various activities that the students are involved with, are evident from the number of student clubs like Automotive, Photography, Astronomy, Fabrication, Robotics, Electronics, CAD, Programming, Dance, Dramatics, Entrepreneurship, Music, Indian Cultural & Heritage, Literary, Jagriti, NSS, various sports clubs and others.

Institute has the infrastructure for various recreational and sports activities like Cricket, Football, Table Tennis, Lawn Tennis, Basketball, Badminton, Volleyball, Kho-Kho etc. Students develop these much needed traits of leadership, comradeship and team work by involving themselves in these co-curricular and extra-curricular activities.





# EVENTS

## TARANG

Tarang is one of the most eagerly awaited events in the academic calendar of IIITDMJ and has evolved to be Central India's largest cultural festival. It is an avenue for the best talent from the top colleges across the country to battle it out in an array of cultural events. It is the annual cultural festival of the Institute held in the month of October, and is one of the most popular college festivals of Central India, attracting the participation of thousands of students from various premier Institutes across the country.

## ABHIKALPAN

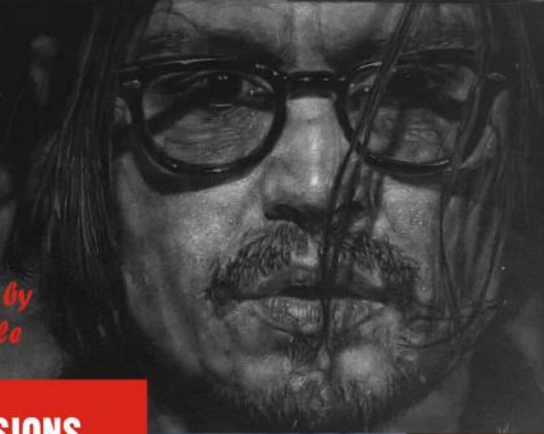
Abhikalpan is the inter college technical and entrepreneurship festival of the institute. It is a stage where the technical knowledge is given a practical exposure. During the festival, various events in the field of robotics, automotive, astronomy, electronics, programming etc. are conducted along with guest lectures and workshops.

## GUSTO

Gusto is the annual sports festival of the Institute, during which teams of various Institutes from all over the country compete with each other. Campus witnesses vibrancy unparalleled during the fest that closes in with celebrations and memories to be cherished for years by the participants.



*Johnny Depp by  
Chandan Nale*



**MY IMPRESSIONS**



**PHOTOGRAPHS**

*Train & Rain  
by  
Vishal Agrawal*



*Buddha Chalk Carving  
by Animesh Sharma*



*Institute by Srinath Naik*



*Cart by Sreehas Dommata*

# ARTWORKS



## GRADUATION DINNER & MINI ALUMNI MEET



# PLACEMENT PROCEDURE

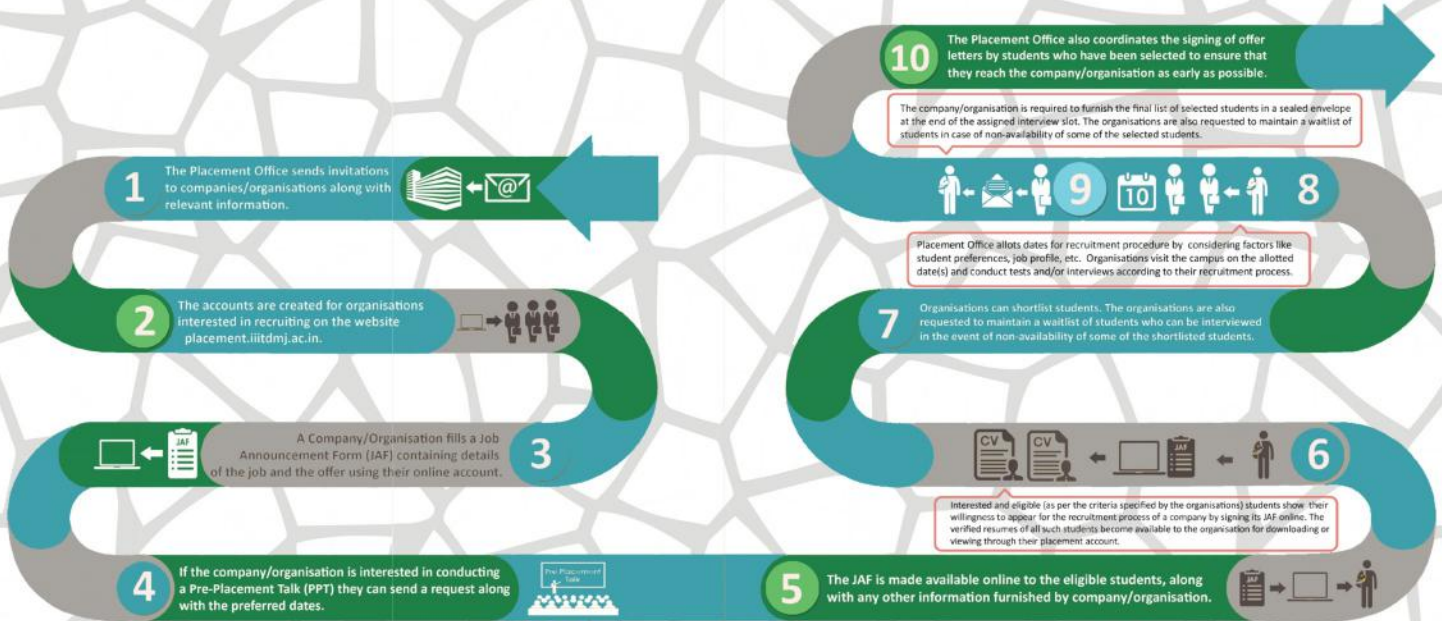
## CV / RESUME VERIFICATION

All claims made by students in resumes submitted for campus placement are duly verified by the Placement Office. The verification standards are uniform throughout the Institute.

## PREPARATION ACTIVITY

IIITDM Jabalpur aims to give its students the grooming that they require not just for facing placement interviews, but also to excel in their corporate careers in the future. With this goal, the Placement Cell conducts several employability enhancement activities:

- Communication skill evaluation sessions
- Mock groups discussions and personal interviews
- Informal interactive talks with alumni
- Aptitude, technical and mental ability tests
- Communication skills enhancement programs
- Workshops in collaboration with recruiting companies to aid students in resume preparation, case study solving etc.







## ACHIEVEMENTS

Mr. Abhishek Patel (MTech ECE), secured 5<sup>th</sup> position in the 2<sup>nd</sup> World Cup Woodball Championship 2019 held at Uganda (Africa) from May 24 - 30, 2019.

Mr. Aditya Dhawan, Mr. Arjun Singh Jadoun, Mr. Ishan Banerjee, Ms. Sanya Agarwal and Mr. Shivashish Dwivedi (students of BTech ME) won the First prize at IMTEX 2019 Technical Quiz at Bengaluru.

Mr. Om Pattnaik, Mr. Lokesh Kumar Gupta and Mr. Narasimha Reddy (students of BTech ME) qualified for finals in L&TTECHgum .

Mr. Shivam Bharti, Mr. Rakesh Kumar Sahu and Mr. Avinash Sahu (students of MDes) won an award in student category among 117 international entries in the International conference 'UX India - 2018' held in Bangalore.

Ms. Shivangi Pande (BDes) was also among the top 5 award winners in the International conference 'UX India - 2018' held in Bangalore.



## RECRUITER'S SPEAK

Oracle (Mr. Avishek Dasgupta, Lead-Campus Relations JAPAC Team)

"These are precisely the values that Oracle stands for. We see a perfect fit between Oracle and PDPM IIITDM Jabalpur."

Infosys (Mr. Sudhir Misra, Head HR)

"It has always been refreshing and pleasant visiting PDPM IIITDM Jabalpur for campus recruitment. We are impressed by the enthusiasm and intellect displayed by the students."

IBM (Ms. Adyasha Sahu, Recruitment Specialist)

"Bandwidth of knowledge is good."

Hitachi India Pvt. Ltd. (Mr. Venkatesh Rao, Manager HR)

"I have no hesitation in saying that the students of this Institute match with the very best of India."

CANON Inc. Japan (Mr. Shibata Shogo)

"My impression of PDPM IIITDM students is getting better and better every year."

BESCO (Mr. A. K. Banerjee, Senior Advisor)

"I have no doubt that the reshaping of India in the much needed traction to the manufacturing sectors can only be provided by these youngsters. The presentation made by the students of PDPM IIITDM Jabalpur displayed high degree of imagination and innovation."

MHI (Ms. Sayaka Hanatani)

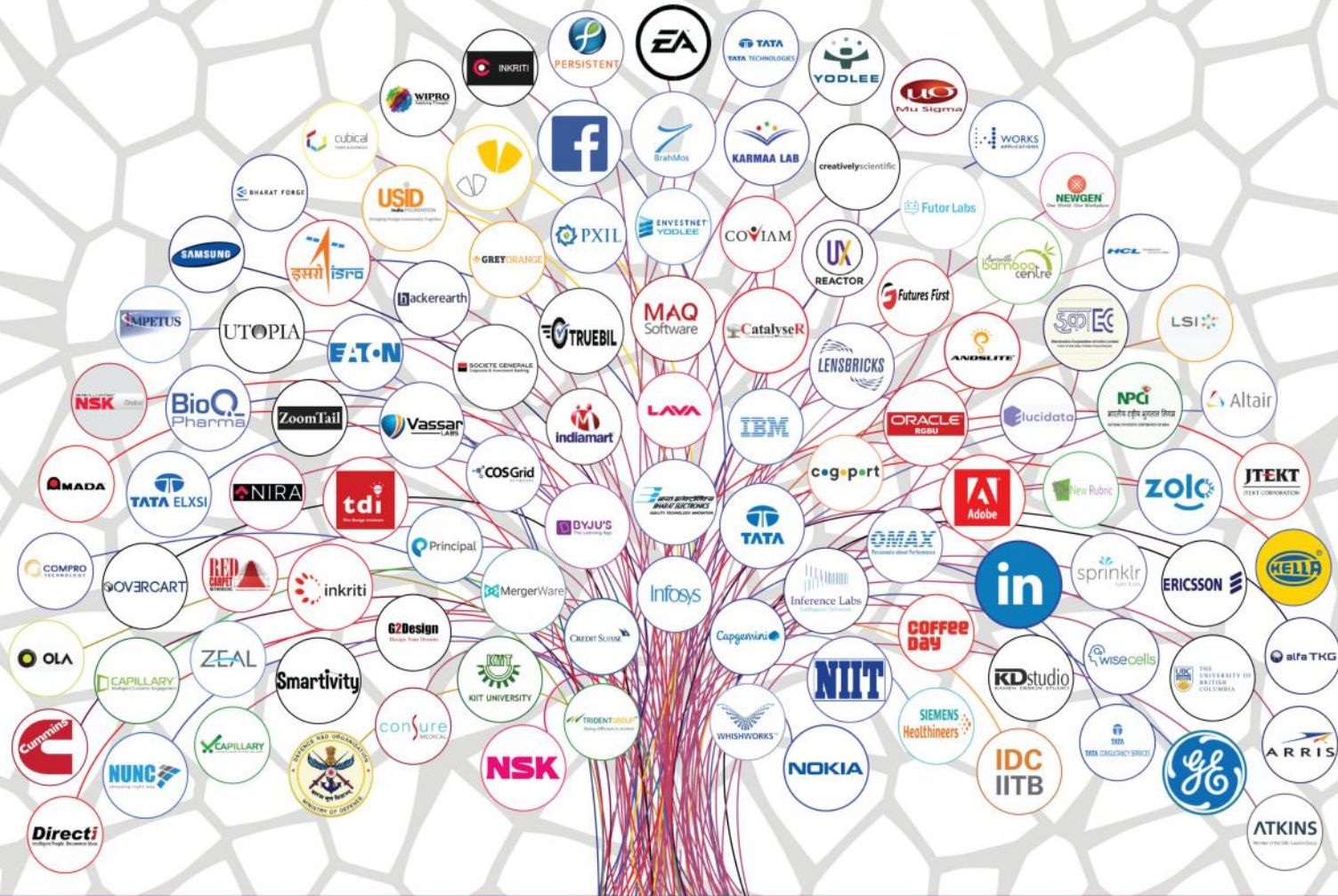
"Students are great and we are impressed with the kind of projects they do."

NSK India Sales Company Pvt. Ltd. (Mr. Yoichi Imamura, Head HR)

"With so many good students to select, I felt like a child in a candy shop."

S&P Capital IQ (Ms. Swetha Bodanapu, Head HR)

"We simply find a wonderful talent pool out here at PDPM IIITDM Jabalpur and exactly the kind of talent that Capital IQ wants."



## MARQUEE PATRONS

### A

AA Autotech, Gurgaon  
Adobe India  
Amada India  
Amdocs  
Anglo Eastern Group  
Arihant Industries  
Arnim Technologies  
ARRIS  
Ashok Leyland  
Altair Engineering  
Antasoft Tech, Indore  
ARC  
Alfa TKG Integrated Solutions  
Avaya India Pvt. Ltd.  
Amazon  
Atkins Global

### B

BARC  
BEL  
BESCO Ltd. (Wagon Division) Kolkata  
Bharat Forge  
BMW  
BORL  
BPCL  
Brahmos Aerospace  
BRBRAITT (BSNL)  
Bharti Hexacom Ltd., Jaipur  
BHEL R & D, Hyderabad  
BSNL Jaipur

### C

CANON Japan  
CANON India

Capgemini  
Capillary Tech, Bangalore  
Carnegie Mellon University, USA  
CEERI Pilani  
CMC Ltd.  
CMS Info Systems Pvt. Ltd.  
Cellcomm Solutions Limited  
Central Electricity Authority  
Compare Infobase Limited  
Co-Cubes  
Cognizant  
Cognitree  
Cubical Laboratories  
Coviam  
Coupon Dunia  
Customised Technologies  
CSC  
Cummins

### D

DD NEWS Lucknow  
Delhi Transco Ltd.  
DRDO  
Delft University of Technology,  
Netherlands  
Directi

### E

ECIL Hyderabad  
Ecollabs Infomix Pvt Ltd.  
Ericsson India  
Escorts Ltd.  
Euthenia Consultancy Pvt. Ltd.  
Eaton Corporation  
Engage Enterprises Pvt. Ltd.  
Excellon Software

Escorts Ltd.  
Euthenia Consultancy Pvt. Ltd.  
Eaton Corporation  
Engage Enterprises Pvt. Ltd.  
Excellon Software

### F

Frontier Alloy Steels  
Facebook  
Co-Cubes  
Future First

### G

Garg Web Tech Pvt. Ltd.  
GM Glass Works No.2  
Godrej & Boyce Mfg. Co. Ltd.  
Greaves Cotton Limited  
GE Digital  
Geometric Ltd.

### H

HLS ASIA Ltd.  
Hella Pune  
Hitachi India Pvt. Ltd  
Health Enabler  
Honda Siel Power Products Ind. Ltd  
HackerEarth  
Havells  
Hungerbox

### I

IBM  
IFFCO  
IIT Chennai  
IIT Delhi  
IIT Kanpur  
IIT Ropar

## MARQUEE PATRONS

IIT Kanpur  
IIT Ropar  
IIT Bombay  
IIT Guwahati  
IIT Kanpur  
ISRO Ahmedabad  
ISRO Bangalore  
ITI Manakpur  
Innovative Mechatronix Systems  
Pvt. Ltd.  
IIIT Hyderabad  
Infosys

### J

JBM Ltd.  
JSL Hissar

### K

Kubota Corp  
KPIT Cummins  
KIIT

### L

Link Online Pvt Ltd.  
L & T Power, India  
LAVA International  
Letscatchup  
LUCID  
LUCID

### M

MHI India  
MHI Japan  
MNIT Jaipur  
MOSCHIP  
Mahindra Two Wheelers  
Maihar Cement (Birla Group)  
Maruti Suzuki India Limited

McGill University Canada  
Mercedes-Benz  
MyDeals247  
MAQ Software  
Mobisir Technologies  
Microsoft IDC  
Mu-Sigma

### N

NEC HCL System Technologies Ltd.  
National Engineering Industries Ltd.  
Neometrix Technology Pvt. Ltd.  
New Rubric Solution  
Nexbase Marketing Pvt. Ltd.  
NGCN Infosolutions  
NPCI, Hyderabad

### O

ORACLE  
Olive Technology  
Ordnance Development Center  
Overcart

### P

Persistent Systems Ltd.  
People Tech Group, Bangalore

### Q

Quolt Design  
Quazar Tech Delhi

### R

Rare Mile  
Renault Nissan

### S

Sona Koyo Steering Systems Ltd.

Siemens Goa  
Smartivity Labs  
Siemens Healthcare  
Schneider Electric  
Snap Deal  
Sutra Analytics  
Smartprix  
Samsung  
SBI

### T

TCS  
Tata Motors  
Tata Steel Limited  
Tata Technologies  
Teach for India  
Trident

### U

University of British Columbia  
UX Reactor  
Urumi Systems  
University of Illinois  
Université de Rouen Normandie, France

### V

Vassar Labs  
Volkswagen India Pvt. Ltd.

### W

Web Synergies  
Wipro Infotech  
Wisecells Learning Solutions  
Works Application Japan

### Y

YODLEE  
YUJ Designs  
3DPLM

# PLACEMENT TEAM

**Dr. Pritee Khanna**  
Chairperson Placement Cell  
chair\_placement@iiitdmj.ac.in  
# +91 9425156915

**Ms. Tulika Ruth Nelson**  
Placement Officer  
placement@iiitdmj.ac.in  
# +91 94258 07615

## Faculty Representation from Disciplines

**Dr. Prashant K. Jain**  
Ex-Officio, Placement Cell  
pkjain@iiitdmj.ac.in

**Dr. Lokendra Balyan**  
Member, NS  
balyan@iiitdmj.ac.in

**Dr. Vinod K. Jain**  
Member, CSE  
vkjain@iiitdmj.ac.in

**Dr. (Mohd.) Zahid Ansari**  
Member, ME  
zahid@iiitdmj.ac.in

**Dr. Tripti Singh**  
Member, Design  
ts@iiitdmj.ac.in

**Dr. Atul Kumar**  
Member, ECE  
atul.kumar@iiitdmj.ac.in

## Technical & Logistic Support

**Anil Kumar**  
Jr. Superintendent  
Placement Cell

**Alok Kulkarni**  
Senior Technician CC

**Rahul B. Wankhade**  
Office Assistant  
Placement Cell

**Santosh Kumar Gouda**  
Junior Engineer (Elec)

**Abdul Khan**  
Visitors Hostel

**Robinson George Markam**  
Junior Technician CC

**Om Prakash**  
Visitors Hostel

## Student Followup Team

**Arpan Tarkas**  
BTech ME  
☎ +91 9993 981 250  
■ 2016049@iiitdmj.ac.in

**Mohith Kota**  
BTech ECE  
☎ +91 9666 698 888  
■ 2016130@iiitdmj.ac.in

**Utkarsh Dongre**  
BTech CSE  
☎ +91 8982 883 113  
■ 2016285@iiitdmj.ac.in

**A Kranthi Kiran Reddy**  
MTech ME  
☎ +91 9581 908 255  
■ 1813202@iiitdmj.ac.in

**Satyendra Kr. Prajapati**  
MTech ME  
☎ +91 7987 269 204  
■ 1813212@iiitdmj.ac.in





## JABALPUR

The River Narmada, too, is a beautiful woman, as most rivers are, in India. But though she passes close to Jabalpur, she shyly avoids the town or perhaps the town has grown away from her, and its own past. Consequently, there is really very little in Jabalpur town to capture the attention of the visitor. But a short drive out of the long narrow plain holding the town, brings one to sub-montane lands: rocky, rugged and a natural bulwark against attackers. One of the more intriguing monuments to Jabalpur's past is the Madan Mahal Fort. On a historical note, a pleasure resort and capital of the Gond Kings during the 12th century, Jabalpur was later the seat of the Kalchuri dynasty. The Marathas held sway over Jabalpur until 1817, when the British wrested it from them and left their impression on the spacious cantonment with its colonial residences and barracks. Today Jabalpur is an important administrative centre, a bustle with commercial activity. Soaring in glittering splendour, the Marble Rocks at Bhedaghat rise to a hundred feet on either side of the Narmada. The serene loveliness of the scene is one of cool quiet, the sunlight sparkling on the marble-white pinnacles and casting dappled shadows on the pellucid waters. These white rocks with views of black and dark green volcanic seams are truly majestic, and produce a magical effect on moonlit nights. The holy river flows by tranquilly flanked by the towering cliffs which reflect in it like a mirror the changing moods of nature. A little distance away, it becomes turbulent as it plunges in a mighty waterfall known as Dhuandhar.



Jabalpur Dumna Airport  
(IATA Code: JRL) 3.6 km



National Highway (NH) 7, connecting Varanasi and Kanyakumari, passes through Jabalpur. NH-12 connects Jabalpur to Jaipur.



West Central Railway Zone linked by direct trains from Delhi, Mumbai, Kolkata, Bengaluru, Hyderabad, Bhopal, Patna, Allahabad, Varanasi, Pune etc.



The Institute is situated approximately 3 kms before the airport on Dumna Airport Road.



## TIGER TRAILS

**KANHA • BANDHAVGARH • PENCH**

