



NEWSLETTER

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Messages For The Students

Dear Alumnus/Alumni,

At the outset, wish you all a very prosperous new year ahead. I am glad to note that with the persistent effort from the alumni office and the office bearers of the alumni association, the Alumni body has now been registered as a Society under the MP Society Act 1973. Through this platform, I expect each one of you individually to participate in leveraging the Alumni and Institute Activities to a new pinnacle. While the institute looks back to its graduated students with a belief that they will be successful in every endeavor they foray into, the alumni must also take up the moral responsibility to uphold the belief and faith towards the institute and contribute in their best capacity to take the institute to new heights as well. I wish all success to each one of you through this newsletter and hope that the connection through this office between you and the institute, grows stronger with each passing day.

Best Regards

Prof. S.G. Deshmukh

Officiating Director

PDPM IIITDM Jabalpur

Dear Proud Alumni,

Wish you a Very Happy and Prosperous New Year 2018.

It is an immense pleasure to release the 1st issue of the second volume of the e-Newsletter.

It is always warming to know the alumni of the institute performing so well in all their respective spheres. I would like to inform all that the society registration process for recognizing the IIITDM Alumni association under the MP Society Act 1973 is completed. We are now a proudly registered society which is to be read as "PDPM IIITDMJ Alumni Association". With this approval the alumni body gets a new identity which now rests as a duty on all of us, to take the association to a new peak. Meanwhile, the formal PAN Card filing process for the Alumni Association and the possibility of providing Tax rebate to any financial contribution by Alumni to the institute /student related activities/ student support is also under process. It is my strong urge to the students to formulate chapters and elect representatives of the chapters so that the alumni bonding can further be strengthened. I would humble request the alumni that for making any financial contribution to any student/infrastructural activity of the institute, please contact us on alumni@iiitdmj.ac.in. All are requested to avoid transferring funds directly to the accounts of any individual associated with the institute. Once again, I wish each one of you my sincere most and warmest wishes for a prosperous new year ahead.

REMAIN CONNECTED & STAY BLESSED.

Best Regards

Biswajeet Mukherjee

Faculty-In-Charge

PDPM IIITDM Jabalpur



Convocation 2017



The 9th Convocation of the Institute was held on Wednesday 16th August, 2017 to confer the degrees on the students who passed out in the year 2017. There were 215 B. Tech, 67 M. Tech, 25 M.Des and 18 PhD degree recipients this year. The graduates received their degrees from and blessings for tremendous success in the years to come. There were 7 gold medalists who were awarded for academic excellence and standing first in their concerned departments.

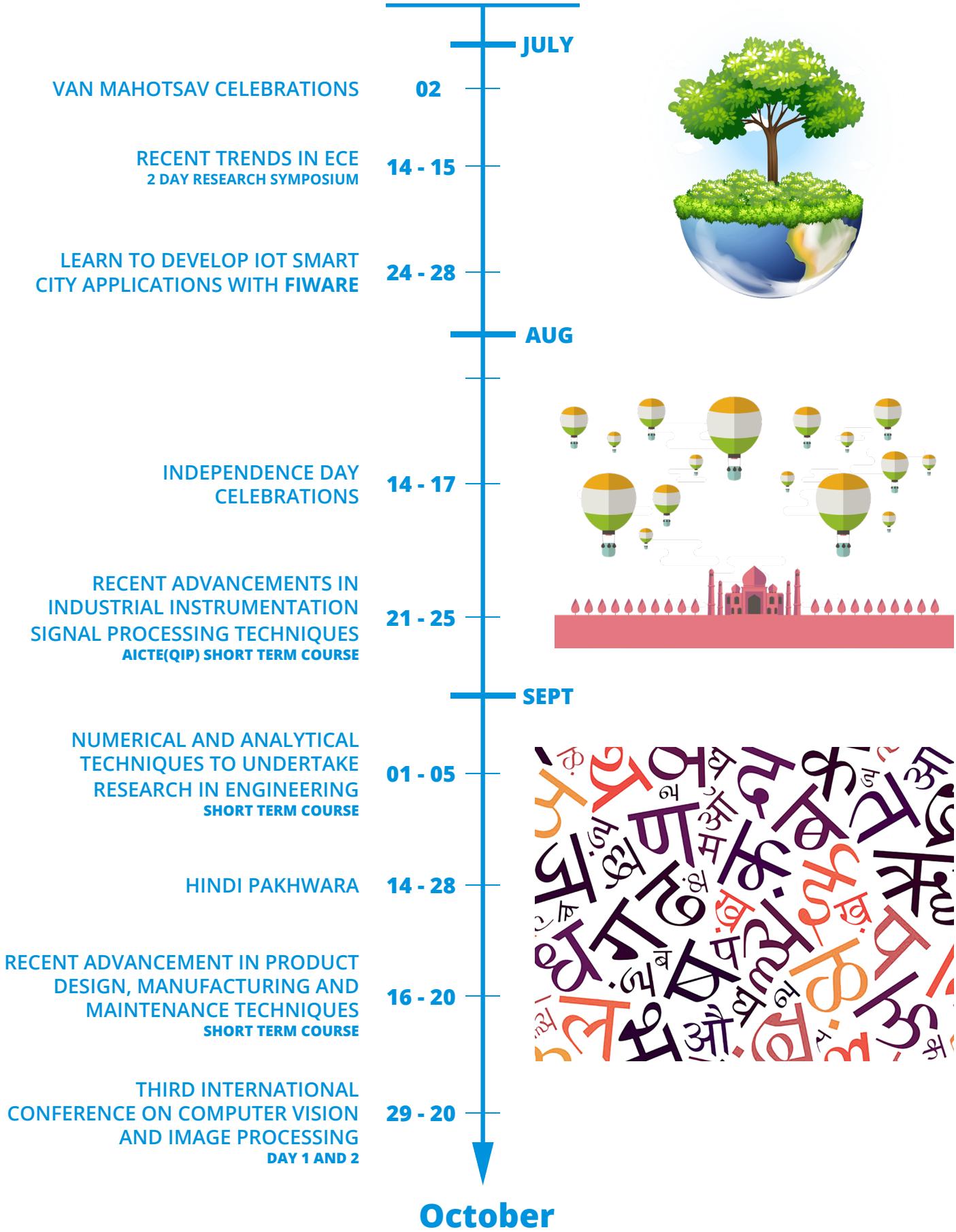


Dr. Sudhir K. Mishra, Distinguished Scientist and Director General (BrahMos), DRDO, Ministry of Defence and CEO & MD, BrahMos Aerospace, an India-Russia Joint Venture, is a Graduate of Government Engineering College, Jabalpur, M.Tech. in Mechanical Engineering from Indian Institute of Technology, Madras and Ph.D. from National Institute of Technology, Warangal. He has contributed immensely in India's quest to achieve excellence in Missile technologies. His technical expertise and contribution has resulted in the realisation of several DRDO Missile Programmes. As CEO & MD, BrahMos Aerospace, he is responsible for the design, development, production and product support encompassing complete Product Life Cycle of BrahMos Weapon System. He has guided "Team BrahMos" in design, development, modernising and upgrading BRAHMOS missile to achieve newer capabilities and versions for Land to Land, Sea to Land and Air to Sea/Land and conducted flight test for extended range. His defence diplomatic skills have resulted in the culmination of several defence R&D projects with friendly countries within the framework of foreign policy and defence cooperation. He has visited Russia, Israel, France, Holland, Switzerland, Pakistan, South Africa, England, Malaysia, Vietnam, UAE, Indonesia, Philippines and Japan.

BrahMos" in design, development, modernising and upgrading BRAHMOS missile to achieve newer capabilities and versions for Land to Land, Sea to Land and Air to Sea/Land and conducted flight test for extended range. His defence diplomatic skills have resulted in the culmination of several defence R&D projects with friendly countries within the framework of foreign policy and defence cooperation. He has visited Russia, Israel, France, Holland, Switzerland, Pakistan, South Africa, England, Malaysia, Vietnam, UAE, Indonesia, Philippines and Japan.

Chairman's Gold Medal	Shubham Gupta (CSE)
Director's Gold Medal	Aditi Sharma (ECE)
D&M Proficiency Gold Medal	Mayur Mishra (ME)
Academic Performance Proficiency Silver Medals	Shubham Gupta (CSE) Aditi Sharma (ECE) Piyush Pandey (ME)
IIITDM proficiency prizes (PG)	Akhil Aishwarya Dwivedi (CSE) Saurabh Kumar (ECE) Pulimamidi Venkatesh (ECE) Varun Tiwari (ME)
IIITDM proficiency prizes (UG)	Somil Jain (CSE) Aditi Sharma (ECE) Swapnil Shandilya (ME)
Director's Silver Medal	Parantap Chakrabarti Anuj Gulati

Past Events



Past Events



OCT

01

THIRD INTERNATIONAL CONFERENCE ON COMPUTER VISION AND IMAGE PROCESSING DAY 3

03

IEEE DAY CELEBRATIONS
SPECIAL THANKS TO ROBOKRITI (MR.ATUL GUPTA) & 3AOSSA 3D PRINTED BONES (MR. PIYUSH UKEY).

07 - 08

PARALLEL PROGRAMMING USING INTEL ARCHITECTURE AND SOFTWARE TOOLS
INTEL CODE MODERNIZATION WORKSHOP

14 - 16

INTERNATIONAL CONFERENCE ON PHYSICS AND MECHANICS OF NEW MATERIALS AND THEIR APPLICATIONS (PHENMA 2017)

NOV

10 - 11

NATIONAL INNOVATION DRIVE
NATIONAL EDUCATION DAY CELEBRATIONS

DEC

09 - 11

DEW 2017
INDUSTRIAL INTERNET AND INDUSTRY 4.0

19 - 27

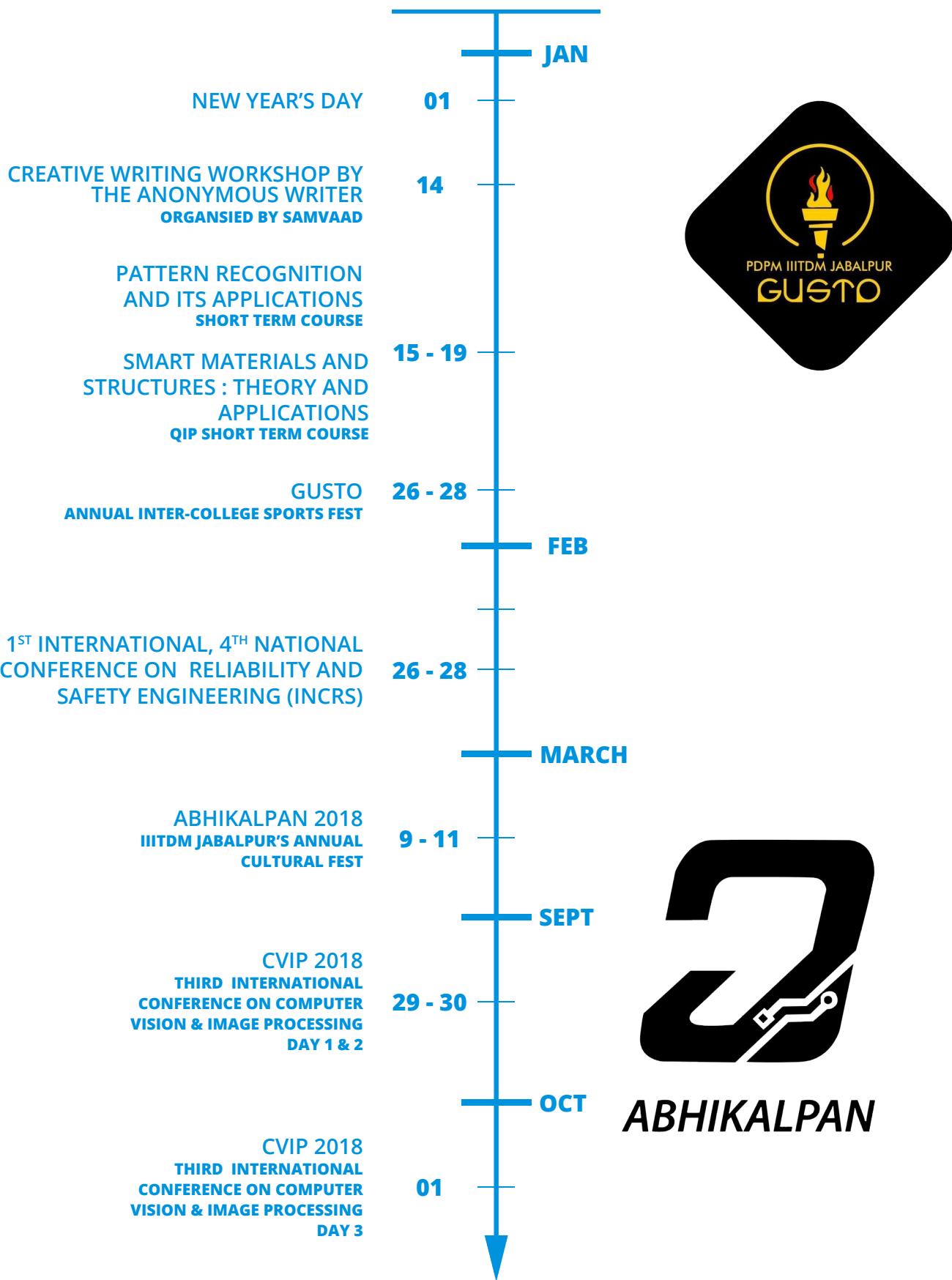
DATA MINING ALGORITHMS FOR GRAPH, TEXT AND STREAMING DATA GIAN COURSE

31

NEW YEAR'S EVE

UPCOMING EVENTS

Upcoming Events



Design Workshop 2017

The annual Design Workshop 2017 (DeW 2017) is to be organized at IIITDM Jabalpur in collaboration with Ministry of Foreign Affairs, Japan during 09-11 Dec 2017. The central idea of the workshop is Industrial Internet and Industry 4.0, which is truly interdisciplinary in nature in alignment with the core theme of IIITDM Jabalpur which is IT enabled Design and Manufacturing.

Modern Industrial enterprise is the integration of wide range of physical system and machinery with networked sensors and software for their interoperability. Industrial Internet is envisioned to play a crucial role in Industry 4.0 the digital transformation of industry and the fourth industrial revolution worldwide.

The purpose of the present workshop is to bring together people from the arena of academia, industry and research to share expertise and technical knowhow on the challenges and implementation of Industrial Internet and Industry 4.0. DeW 2017 will include wide spectrum of topics relevant to Electronics, Communication Technology, sensor and networks, cyber-physical systems, Internet of things, cloud computing and Industrial design and automation etc.



INVITED SPEAKERS

- Prof. Hiroshi Suzuki, JUE Japan
- Prof. N.S. Dinesh, IISc Bangalore
- Prof. Abhay Karandikar, IIT Bombay
- Mr. Rahul Tomar, Smart Cities Lab
- Mr. Vipul Vinzuda, NID Ghandinagar
- Mr. Shrikant Nivasarkar, Nivasarkar Consultant Pune
- Prof. N. Ramesh Babu, IIT Madras
- Dr. P. Thanapandi, alfaTKG Co Ltd Japan

A Warm Welcome To The IIIT Jabalpur Family

Dr. Harpreet Singh



Dr. Harpreet Singh joined PDPM IIITDM Jabalpur during May 2016. He received Master and PhD degree in Mechanical Engineering from IIT Roorkee. His research interests are related to advancement of precision machining, nano finishing, green manufacturing, processing and characterization of composite materials and is the first researchers in the world to proposed and develop a pulse DC supply and ultrasonic vibration assisted ECH machine.

Dr. Mohona Ghosh



Mohona Ghosh has received her PhD from the computer science department of IIIT-Delhi. Prior to joining IIITDMJ, she worked as a post-doctoral fellow in Nanyang Technological University (NTU), Singapore. Her main research interest is in cryptanalyzing (i.e., breaking or finding flaws) in the existing symmetric cryptographic primitives. Her broader areas of interest include cryptography, digital forensics and cyber security.

Dr. Irshad Ahmad Ansari



Dr. Irshad Ahmad Ansari completed his Ph.D from IIT Roorkee with MHRD teaching assistantship, and subsequently joined Gwangju Institute of Science and Technology, South Korea as a Postdoctoral fellow. His major research interest includes Image Processing, Signal Processing, Soft Computing, Data Classification, Brain Computer Interface.

Dr. Atul Kumar



Dr. Atul Kumar received Ph.D. degree in Electronics and Communication Engineering from IIT Guwahati, India in 2016. He has been a faculty member in the Department of Electronics and Communication Engineering, National Institute of Technology Jamshedpur, India. His research interests include chaotic digital communications, cooperative communication and multiple-input multiple-output (MIMO) systems.

Dr. Shivdayal Patel



Dr. Shivdayal Patel has worked as a Research Fellow at Institute superior Tecnico of Lisbon (Portugal). He received his PhD in solid mechanics from Applied Mechanics Department at IIT Delhi. His research interests are broadly related to numerical aspects of Probabilistic Design of Body and Vehicles armors, Composites, Impacts, Stochastic Finite element analysis, fracture and damage mechanics. He is mainly interested to proposed new computational techniques or modification in the already existing techniques for the modeling of fracture and damage mechanics problems.

Dr. Saurabh Pratap



Dr. Saurabh Pratap worked as a Post-Doctoral Fellow in the Department of Industrial and Manufacturing Systems Engineering at University of Hong Kong, Hong Kong. He has completed his Ph.D. degree in Industrial and Systems Engineering Department at IIT Kharagpur, India in 2016. He carried out collaborative research with the Laboratory for production Management and Process in EPFL, Switzerland.



Dr. Trivesh Kumar

Dr. Trivesh Kumar received the PhD in Electrical Engineering from IIT Kanpur in 2015. He has worked as Assistant Professor in Department of Electrical Engineering, Institute of Infrastructure Technology Research and Management (IITRAM), Ahmedabad. He contributed towards the prototype development of remote access of water-meter and miniaturization of RFID antenna. His current research interests include circularly polarized antennas & analysis, microwave measurements, Microwave Circuits, radio-frequency identification and fiber optic sensors etc.



Dr. Himansu Sekhar Nanda

Dr. Himansu Sekhar Nanda earned his doctorate in Materials Sciences and Engineering (Biomaterials) from international graduate school of prestigious National Institute for Materials Science (NIMS), Japan in 2014. In his doctoral work, he worked on the development of drug releasing porous scaffolds from polymeric biomaterials and applied those for skin, cartilage and bone tissue. He was working on preparation of metal oxide nanoparticles for nanomedicine and scaffold based drug screening studies. His major research interests include development of controlled release porous scaffolds for soft and hard tissue engineering application,



Dr. Dip Prakash Samajdar

Dr. Dip Prakash Samajdar had been working as an Assistant Professor in the Department of Electronics and Communication Engineering at Heritage Institute of Technology, Kolkata and as Guest Lecturer in the Department of Electronic Science, University of Calcutta. His research interests include the theoretical and experimental studies of III-V Quantum Well and Quantum Dot structures as well as the mathematical modelling of III-V material based Hybrid Solar Cells & Organic Solar Cells (OSCs).



Dr. Tripti Singh

Dr. Tripti Singh Assistant Professor, Design Discipline, IIITDM Jabalpur, M.P. India. She earned her Ph.D. degree from Banasthali University in 2011. She previously worked in India's premier Institutes e.g. IIT Mandi as Media Design Fellow and for IIT Kanpur as a Scientist. She specialized in Communication Design, Digital Fashion Textiles, Multimedia, Web design and Print Design. 14 years experience as Digital Medium Artist. Extended expertise Designing in Visualization (Info-graphics, Data & information) collection in multimedia content, i.e. Photography, Animation, , Mobile page graphics, Painting, and Sketching (Tablet).



Dr. Ravi Panwar

Dr. Ravi Panwar received Ph.D from IIT Roorkee with MHRD teaching assistantship, and subsequently joined Korea Advanced Institute of Science &Technology (KAIST), South Korea as a Postdoctoral Fellow with Brain Korea Research Fellowship. His major research interest includes microwave absorbers, metamaterials, frequency selective surfaces, microwave imaging, and microwave measurement techniques. He is also serving as an active technical reviewer of leading International journals like IEEE, IET, Taylor & Francis, and Elsevier, etc.

Visiting Faculty

DEPENDABLE COMPUTING (January 16 - January 20)

Takashi Nanya
Professor Emeritus
University of Tokyo

DISTRIBUTED OBJECTS, MOBILE AGENTS CONCURRENCY THEORY (January 29 - February 2)

Ichiro Satoh
Professor
National Institute of Informatics

DATA SCIENCE, MACHINE LEARNING FOR CSE (February 5 - February 9)

Kenji Fukumizu
Professor
Institute of Statistical Mathematics

CYBER SECURITY FOR CSE (March 26 - March 30)

Koichi Sakurai
Professor
Kyushu University

VLSI DESIGN FOR ECE AND CSE (March 12 - March 16)

Masahiro Fujita
Professor
University of Tokyo

SOFTWARE QUALITY ASSURANCE (March 19 - March 22)

Hironori Washizaki
Professor
Waseda University

Dates of EMFs of Japanese professors are finalized now.

Alumni Achievements

Alumnus Name	Batch	Course	Branch	Current Position, Location	Achievements
Nunsawath Ravi Nayak	2012-2016	B.Tech	ECE	MBA at Indian Institute of Management AMRITSAR	Published Conference paper at KOREA -2016, Received certificate from Telangana Governor for doing Social Service.
Gajavelli Prashanth	2015-2017	M.Tech	ME	IIM Amritsar student	Participated in national level chess championship
Yashasvi Giridhar	2012-2016	B.Tech	ME	Graduate Student Aerospace Engineering, TU Delft	Best Supplier Award- Tata Technologies (2016 & 2017); Recipient Director's Gold Medal for Best All Round Performance, IIITDMJ (2016); Certificates of Appreciation and Merit for performance in Sports & Academic activities, IIITDMJ (2014-15)
Arpit Gupta	2012 - 2016	B.Tech	CSE	Executive Trainee, PGCIL - Gurgaon	GATE 2016 AIR 518, GATE 2017 AIR 94, Former Software Engineer at SRI-B
Aarushi	2013-2017	B.Tech	CSE	MBA, Indore (Studying)	-
Ritwik Roy	2013 - 2017	B.Tech	CSE	MBA, XLRI (Studying)	-
Parantap Chakrabarti	2013 - 2017	B.Tech	ME	OFSS, Associate Consultant	-
Jitendra Jangir	2011-2015	B.Tech	ME	AEE @ ONGC Kakinada	Gate AIR115
Pranav Shukla	2012-2016	B.Tech	ME	Graduate Student at Virginia Tech, USA	Full funding for MS degree at Virginia Tech
Pabba Anu Bharath	2013-2017	B.Tech	CSE	Project Assistant, IISc Bengaluru	Interaction Design for International development Award- Interact 2017, International Conference on Human Computer Interaction.

Alumnus Name	Batch	Course	Branch	Current Position, Location	Achievements
Deepak Kumar	2012-2016	B.Tech	ECE	Graduate Student at University Of British Columbia	University Graduate Fellowship, Mitacs Graduate Fellowship, Graduate Dean Entrance Fellowship
Sudheer chandra	2012-2016	B.Tech	ME	IIM Shillong , Shillong	NA
KUMAR KARTIKEYA	2005-2009	B.Tech	ME	AE-II, ANSYS SOFTWARE PVT LTD	DFSS GREEN BELT CERTIFICATION (EATON CORP)
Abhishek khan-na	2008-2012	B.Tech	CSE	Senior software engineer Arris	Cba from ISB
Divya Lalwani	2012-2016	B.Tech	ECE	System Engineer , IBM India Pvt. Ltd. Pune	Silver Medal for Branch Topper, Manager's Choice Award in IBM-IDEA Project
Ankit Malik	2009-2013	B.Tech	ECE	M.tech in Material Science and Technology, DRDO, Pune	M.tech in Material Science and Technology

Testimonials



Apoorv Bhadriya
M.Tech (Mechatronics)
Batch 2015 - 2017

Being a student of IIITDM Jabalpur I was fortunate enough to receive an academically rich environment. Also, strong emphasis is laid on developing experimental skills of the student which is necessary for the all-round development of an individual in the present scenario. Round the year various extracurricular activities are also carried out which helps in improving the skills of the student.



Gaurav Pandey
Mechanical Engineering (MS)
Batch 2015 - 2017

As an iitian, To all the iitians I just want to share one thought - No organization is perfect, so is our institution !! perfection is just a state of mind so leaving all the imperfections behind, we must utilize all the available resources we have in our institution !! Irrespective of all the imperfections, We must value the internal branding of our institution and must realize the value of resources and energy we are getting from it so that we can use the best out of these resources to overcome all our imperfections, because these resources have so much for us to gain if used properly and precisely !!



Navinder Singh Bhamra
Masters in Mechatronics
Batch 2015 - 2017

It has been a great experience having done my masters at PDPM IIITDM, Jabalpur. Though, it's quite newly established institute, the environment is academically very promising. The credit certainly goes to the proactive faculties and other staff members. Library and computer facilities are adequate. Throughout my stay of two years, the institute in my perspective has undergone many progressive steps. On one hand, the Mechatronics Discipline is now under Mechanical Department, right where it belongs. This is great both academic and placement wise. On the other hand, it no more feels like staying 10kms away from city - thanks to several recently opened canteens and general stores. Also, the co-curricular activities in institute are splendid and not overwhelming like some old institute, which could lead to distraction from academics. Overall, it's a nice institute to study from."



Sushant Gaurav
B.Tech (Mechanical)
Batch 2011 - 2015

IIITDM Jabalpur - A temple for grooming students and bringing out their latent talents
A place for holistic development of nation's posterity and future. An amalgam of information design and manufacturing A castle for budding entrepreneurs A spring board for enthusiasts to help them rise and shine IIITDM Jabalpur - A place to dream and build it into a reality.



Pranjal Nautiyal
B.Tech (Mechanical)
Batch 2011 - 2015

The research culture in IIITDM Jabalpur is a major advantage to the students in the knowledge-driven economy of modern times. New technologies are evolving and transforming our society at an unprecedented pace. This poses an existential threat to the conventional 'technician' jobs and industry is rather looking for innovators and researchers, who can think out of the box and who have the training, skills and drive to innovate and adjust with the rapidly changing landscape of the engineering world. The curriculum of IIITDM promotes that culture of innovation. My advice to the ambitious, young engineering students is to think beyond exams and grades, and get into research & development because that's where the real action is happening."



Swapnil Shandilya
B.Tech (Mechanical)
Batch 2009 - 2013

IIITDMJ is a unique blend of engineering and design disciplines. Offering multidisciplinary curriculum which increases the width of knowledge at undergraduate level. Equipped with cutting edge facilities in manufacturing engineering which provides exposure to the level that most industrial people feel short of. Above all I admired PBI concept a lot. Given that it is properly utilized, student can build a strong foundation for future being it research or job. Allowing great minds to educate us for design project, management sciences eliminated the institutional barriers. Acknowledging the kind support provided for big projects like SUPRA, TECHgium and ROBOCON further added to

the morale. All together convinced me of institute's motto "Born for Innovation". Respectfully addressing the faculty particularly Mechanical engineering for developing an interest more than teaching. Thanking seniors for helping us in need and some legendary ones to show us directions. Friends, batch mates were actually family members who were with me in every good bad part of college life. Initially aliens, juniors soon became younger brothers. Ignoring all the bad things which you will soon realize once you leave college were small enough to forget. As of now, I realized how integral IIIT was to my life that unknowingly on 30th December I was searching my mailbox for "dracad" mail of registration for semester II.



Vibhor Shukla
B.Tech (Mechanical)
Batch 2009 - 2013

I received an academically rich environment with a zeal to innovate all around. Had an amazing internship experience thanks to the college. With such diversity in IIITDMJ, one feels really special to witness self growth along with the growth of this mighty institution.

JICA Scholarship

Awardees from Batch 2013

Established as an Incorporated Administrative Agency under the Act of the Incorporated Administrative Agency - Japan International Cooperation Agency (Act No. 136, 2002), JICA aims to contribute to the promotion of international cooperation as well as the sound development of Japanese and global economy by supporting the socioeconomic development, recovery or economic stability of developing regions.



Rohit Bhardwaj
Mechanical Engineering (MS)
Toyohashi University of Technology



Gaurav Pandey
Mechanical Engineering (MS)
Toyohashi University of Technology



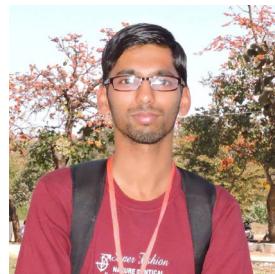
Ronit Kumar
Mechanical Engineering (MS)
Toyohashi University of Technology



Minkesh Asati
Computer Science Engineering (MS)
Tokai University



Devansh Tiwari
Computer Science Engineering (MS)
Waseda University



Harsh Gupta
Mechanical Engineering (MS)
Toyohashi University of Technology



Anuroop Shrivastava
Mechanical Engineering (MS)
Tokai University



Japan International Cooperation Agency

Professional Recognition

S. No	Name	Achievement	Details	Year	Month	Day
1	Ayan Seal	Other	A member of an Editorial Board, Medwin Publishers	2017	July	5
2	Biswajeet Mukherjee	Other	Awarded MPCST (Madhya Pradesh Council of Science & Technology) International Travel Grant to attend the 11th International Congress on Engineered Material Platforms for Novel Wave Phenomena ' Metamaterials 2017, Marseille, France	2017	September	26
3	Biswajeet Mukherjee	Award	Young Faculty in Engineering Award by Venus International foundation	2017	July	8
4	Biswajeet Mukherjee	Award	INSA Visiting Scientist Fellowship	2017	June	5
5	K. K. Soundra Pandian	Award	Awarded the, "Outstanding Scientist" by Venus International Research Foundation, 2017.	2017	October	1
6	K. K. Soundra Pandian	Other	Visiting Postdoc Fellow (Researcher) - New York University	2017	September	9
7	Manoj Singh Parihar	Award	Best paper award on "A Design of Compact Planar Active Integrated Inverted-F Antenna (AI-PIFA) for Mobile Handsets" in International Conference on Optical and Wireless Technologies 2017 (OWT-2017) at MNIT Jaipur	2017	May	1
8	Mohd Zahid Ansari	Other	Google Scholar citations: 220 (h-index : 8, i10-index: 6)	2017	October	4
9	Mohona Ghosh	Award	Winner of "SKINNY Family of Block Ciphers Cryptanalysis 2016-17" global competition, https://sites.google.com/site/skinnycipher/cryptanalysis-competition/2016-2017-competition	2017	March	7
10	Neeraj Kumar Jaiswal	Honour	Outstanding Reviewer of Applied Surface Science, Elsevier	2017	January	5

S. No	Name	Achievement	Details	Year	Month	Day
11	Prabir Mukhopadhyay	Other	Selected Editorial Board Member of the Journal E-Cronicon Orthopaedics , E-Cronicon Society, United Kingdom	2017	January	18
12	Pritee Khanna	Honour	Guest Editor, Virtual Special Issue on Pattern Recognition Techniques for Non Verbal Human Behavior, Pattern Recognition Letters	2017	July	10
13	Puneet Tandon	Honour	Editor, MATEC Web of Conferences, Volume 95 (2017), 2016 the 3rd International Conference on Mechatronics and Mechanical Engineering (ICMME 2016), Shanghai, China, October 21-23, 2016 [Editors: H.L. Yuan, R.K. Agarwal, P. Tandon and E.X. Wang]	2017	February	9
14	Puneet Tandon	Prize	IMTEX 2017 Second Consolation Prize for the Research Work on EDM of Non-Conductive Materials	2017	January	30
15	Puneet Tandon	Honour	Member, International Programme Committee, 6th International Conference on Research into Design (ICoRD™ 17), January 9-11, 2017, Indian Institute of Technology Guwahati, India	2017	January	9
16	Puneet Tandon	Honour	Member, International Organizing Committee ' Asia - Computer Aided Design Conference and Exhibition, CAD™ 17, Okayama, Japan (http://www.cadconferences.com/IOCAsia.html)	2017	August	10
17	Ravi Panwar	Award	Early Career Research Award	2017	April	3
18	Vijay Kumar Gupta	Other	Expert Member, Design Review of "Design and Development of Piezoelectric Vibration Sensor for Munitions", ARDE Pune	2017	February	10
19	Vijay Kumar Gupta	Other	Member, Technical Programme Committee, International conference on Computational Material Science and Thermodynamic Systems	2017	August	2

Institutional Projects

S. No	Title	Duration	Investigator	Funding Agency	Total Sanctioned Amount	Status
1.	Start Up Centre, IIITDM Jabalpur	2016-19	Coordinators: Prof. Puneet Tandon, Dr. Sraban K. Mohanty, and Dr. Sachin K. Jain	MHRD and DST, Govt. of India	Rs. 150.00 Lakhs	On going
2.	Electronics and ICT Academy	2015-20	Chief Investigator: Prof. Aparajita Ojha, Co-Chief Investigators: Prof. V. K. Gupta, Prof P. N. Kondekar, Dr. Atul Gupta, Dr. P. K. Jain	Department of Electronics and ICT, Govt. of India	Rs. 2500.00 Lakhs	On going
3.	Design and Innovation Centre	2016-18	Coordinators: Prof. Tanuja Sheorey and Dr. Atul Gupta	MHRD, Govt. of India through RDVV, Jabalpur	Rs. 100.00 Lakhs	On going
4.	Special Manpower Development Programme for Chips to System Design	2015-19	PI: Prof. P. N. Kondekar, Co-PI(s): Dr. Jawar Singh and Dr. Dheeraj Sharma	CEERI	Rs. 16.95 Lakhs	On going

Research Projects

S. No	Title	Duration	Investigator	Funding Agency	Total Sanctioned Amount	Status
1.	In-process monitoring of Stamping Process of thin plate	2017-19	PI: Prof. Puneet Tandon, Co-PI: Dr. P.K. Kankar and Dr. P.K. Jain	DST-JSPS (India-Japan)	Rs. 18.60 Lakhs	Awarded
2.	Damage Assisted Failure Analysis of Engineering Structures using Cohesive Zone Approach and XFEM	2017	PI: Dr. Sachin Kumar	DST	Rs. 19.35 Lakhs	Awarded
3.	Development of Adaptive Double Sided Incremental Forming Process for Dieless Manufacturing	2017-20	PI: Prof. Puneet Tandon, Co-PI(s): Dr. P. K. Jain and Dr. P. K. Kankar	IMPRINT-India, MHRD	Rs. 252.12 Lakhs	Ongoing
4.	Exploration of 8/9 nano-meter process variation immune doping- and junction-free devices and their circuits	2017-20	PI: Dr. Jawar Singh	SERB, DST	Rs. 31.45 Lakhs	Ongoing
5.	Privacy Enhancing Revocable Biometric Identities (PERBI)	2016-19	PI: Dr. Pritee Khanana, Co-PI(s): Dr. Manish Kumar Bajpai and Dr. Ayan Seal	BRNS	Rs. 28.78 Lakhs	Ongoing

S. No	Title	Duration	Investigator	Funding Agency	Total Sanctioned Amount	Status
6.	Computational Design of Functional Nucleotides for Artificial Life	2016-19	PI: Dr. N. R. Jena	SERB, DST	Rs. 50.00 Lakhs	Ongoing
7.	Development of low cost science experiments/ demonstration for strengthening the activity based science learning in tribal school	2016-17	PI: Dr. Mukesh Roy	Vigyan Prasar	Rs. 12.60 Lakhs	Ongoing
8.	Design and Analysis of Multiplierless Multirate Filterbank with Low Complexity	2016-19	PI: Dr. A. Kumar	SERB, DST	Rs. 18.80 Lakhs	Ongoing
9.	Implementation of Sigma Delta Modulator Using Nanowire Electrically Doped Hetero Material Tunnel Field Effect Transistor (TFET) for Ultra Low Power Applications	2016-19	PI: Dr. Dheeraj Sharma	SERB, DST	Rs. 43.49 Lakhs	Ongoing
10.	High Sensitive MEMS Piezoresistive Microcantilever	2016-19	PI: Dr. Mohd Zahid Ansari	SERB, DST	Rs. 30.17 Lakhs	Ongoing

S. No	Title	Duration	Investigator	Funding Agency	Total Sanctioned Amount	Status
11.	Fractal based Dielectric Resonator Antennas for Compact, Wideband and High Gain Applications	2015-18	PI: Dr. Biswajeet Mukherjee	SERB, DST	Rs. 30.76 Lakhs	Ongoing
12.	Investigation of Compact and Miniaturized Dielectric Resonator Antenna loaded with Metamaterial based structures for wireless applications	2016-18	PI: Dr. Biswajeet Mukherjee	MPCST	Rs. 7.00 Lakhs	Ongoing
13.	Design and Development of RF Energy Harvesting Circuits for Low-power Electronic Devices	2015-19	PI: Dr. Jawar Singh	SERB, DST	Rs. 54.52 Lakhs	Ongoing
14.	Electrodeposition of magnetic film in the presence of external magnetic field	2015-18	PI: Dr. Amaresh Chandra Mishra	SERB, DST	Rs. 27.43 Lakhs	Ongoing
15.	Electronic and spintronic properties of halogen functionalized graphene nanoribbons	2015-18	PI: Dr. Neeraj K. Jaiswal	SERB, DST	Rs. 19.93 Lakhs	Ongoing

S. No	Title	Duration	Investigator	Funding Agency	Total Sanctioned Amount	Status
16.	Development of Additive-Subtractive Integrated RP System for Improved Part Quality	2014-17	PI: Dr. Prashant K Jain, Co-PI(s): Prof. Puneet Tandon and Dr. P. M. Pandey	SERB, DST	Rs. 19.50 Lakhs	Ongoing
17.	Time-varying harmonics and inter-harmonics estimation in real-time for online applications	2013-16	PI: Dr. Sachin Kumar Jain	SERB, DST	Rs. 19.75 Lakhs	Ongoing
18.	Process Development for the Fabrication of Free Form Components through Incremental Sheet Forming	2012-17	PI: Prof. Puneet Tandon, Co-PI(s): Dr. P. K. Jain	BRNS	Rs. 87.83 Lakhs	Ongoing
19.	Virtual Laboratory on Automated systems	2010-17	PI: Prof Tanuja Sheorey, Co-PI(s): Prof Puneet Tandon and Prof V K Gupta	MHRD	Rs. 41.00 Lakhs	Ongoing
20.	Virtual Laboratory on Manufacturing	2010-17	PI: Prof. V. K. Gupta, Co-PI(s): Prof. Puneet Tandon and Prof. Tanuja Sheorey	MHRD	Rs. 44.00 Lakhs	Ongoing

S. No	Title	Duration	Investigator	Funding Agency	Total Sanctioned Amount	Status
21	Mechanistic Model Development for Fission Product (FP) Retention for Computer Code PRAB-HIVINI	2017-18	PI: Dr. Goutam Dutta	BARC	Rs. 11.96 Lakhs	Ongoing
22	An Efficient Use of Discarded Heterogeneous Electronic Waste for Development of Cost Effective Microwave Absorber	2017-20	PI: Dr. Ravi Panwar	DST	Rs. 43.94 Lakhs	Ongoing

Faculty Initiation Grants

S.No	Name of Faculty	Title of the Project	Amount in Lakh(s)	Remark
1	Dr. Manish Kumar Bajpai	I/O Efficient High Resolution 3-D Image Reconstruction of an Object using Algebraic Reconstruction Methods	1.00	To tie-up Dr SK Mohanty
2	Dr. Sraban Kumar Mohanty	Design of an Eigen Solver for very Large Matrices	2.00	To tie-up with Dr. M.K. Bajpai
3	Dr. Sujoy Mukherjee	Biometric Ionic Polymer Metal Composite (IPMC) Propulsor for under water vehicles	2.00	--
4	Dr. Ayan Seal and Dr Ruchir Gupta	Design and Development of Automatic Target Recognition instrument in Low-light Conditions	2.00	--
5	Dr. Dheeraj Sharma	Nanoscale Trigate MOSFET for System-on-Chip Applications	1.00	--
6	Dr. Varun Bajaj	Brain Computer interface for classification of human Emotion	1.00	--
7	Dr. Manoj Singh Parihar	Nonlinear Analysis of Reconfigurable Printed Antennas	2.00	--
8	Dr. Anil Kumar	Design and Analysis of Non-uniform Multirate Filter Bank for Non-stationary Signals	2.00	--
9	Dr. Biswajeet Mukherjee	Design Development and Miniaturization of Dielectric Antennas for wireless and high power applications	1.00	--
10	Dr. V.K.Jain	Energy Efficient Routing Protocol for Mobile and Multi Sink Wireless Sensor Network	2.00	--
11	Dr. M.D.Bansal	Energy Efficiency optimization of Multiple-Input Multiple-output Cognitive Relay System	2.00	--

S.No	Name of Faculty	Title of the Project	Amount in Lakh(s)	Remark
12	Dr. N. R. Jena	Mutational Properties of DNA Base Lesions	1 .00	--
13	Dr. M. K. Panda	Bioconvection in a suspension of isotropically or anisotropically scattering phototactic algae exposed to both diffuse and collimated solar radiation or diffuse solar radiation only	2.00	--
14	Dr. Nihar Kumar Maha-to	Viscosity Approximation for Variational inequalities and equilibrium problems with monotonicity.	1.00	--
15	Dr. Neeraj Kumar Jaiswal	Electronic and spintronic properties of halogen functionalized grapheme nanoribbons	1.75	--

Patents

S. No	Name	Patent No	Title	Status	Year
1	K. K. Soundra Pandian	201721021389	SOMNAMVICE: " Wearable Sleepwalking Notifier"	Filed	2017
2	K. K. Soundra Pandian	201721023126	A Wireless and Voice Control: Ex-ARm" Exoskeleton Arm For Rehabilitation and Dexterity Impairment: Ex-Arm	Filed	2017
3	K. K. Soundra Pandian	201721016562	A Goggle: An Auxiliary reading device for visually Impaired VISTA Glass	Filed	2017
4	K. K. Soundra Pandian	201721022120	SATHI: "Speech Assistance and Technical Help for Incapacitate"	Filed	2017
5	Puneet Tandon	201721006539 A	A process and System for Manufacturing of Formed Sheets and / or Components thereof with Offset Contours	Published	2017
6	Sachin Kumar Jain	Design Registration	Wrist pulse monitoring device [Design registration]	Filed	2017

Student Achievements

YASH RAIZADA (ECE, 2014)



The Harvard Project for Asian and International Relations (HPAIR), Harvard University, Sydney, Australia (August 2017)

Honored to be a part of 608 talented delegates from 63 countries around the globe for the Harvard University's largest student conference which was held in collaboration with University of Sydney in Sydney, NSW, Australia. As Harvard University's largest annual event, the Harvard Project for Asian and International Relations creates a forum of exchange and facilitates discussion of the most important issues relevant to the Asia-Pacific region. This year in collaboration with University of Sydney. Since its inception in 1991, the annual HPAIR conferences have brought together students from the world's foremost universities and leaders in the fields of government, business, culture, and academia.

Go Green in the City, Schneider Electric, Paris, France (September 2016)

Amid 16000 innovators participating from 170 countries, selected among the top 12 finalist teams for the global innovation & business case challenge. Pitched the idea to a 10 membered jury consisting of executives from the automation giant at Le Hive (HQ of Schneider Electric) in Rueil-Malmaison, Paris, France. The project

proposes an innovative scheme of waste management through mobile app and generating energy at the last stage which, if implemented, could reduce waste by 50% in the years to come.

Youth Delegate to China, Government of India - 4 cities (Beijing, Guilin, Chengdu, Guangzhou), China, June 2016

Selected to be a part of 100-member youth delegation from all across India by the Indian Government based on all-round excellence. The trip was aimed at creating an international perspective in the Indian youth to bring about global vibrancy & prosperity. Not only got coveted opportunity of interacting with Chinese youth leaders but also visited prominent places of historic, educational and cultural significance. Also availed the chance of meeting dignitaries of the Chinese Government.

SHIP FOR WORLD YOUTH LEADERS 2017

The program is called "Ship for World Youth Leaders". It is organized by the Cabinet office government of Japan. This was the 29th edition of the program. In this program other than Japan as many as 10 other countries participates in it. The countries that participated this time were Brazil, Canada, Costa Rica, Egypt, Fiji, India, Japan, Kenya, New Zealand, Kingdom of Tonga and Ukraine. There were 11 representatives from India selected by the Ministry of Sports and Youth Affairs, Government of India. It was a 45 days program held at Japan, New Zealand and Fiji. Most of the program took place on the ship called "Nippon Maru". The motto of the program was to increase the Communication skills, Leadership skills, Project Management skills and Cross Cultural Understanding of the Participating Youths. The aim was to prepare the leaders of tomorrow and to create a platform where they can connect, understand and learn from each other.



Priyanka Agarwal
(CSE, 2015)



Farhan Ansari
(CSE, 2014)

NOTIONAL PRIZE 2017

2014-CSE

S.No	Roll No.	Student Name	SPI	CPI
1	2014060	Gogulapati Sreedurga	9.6	9.1
2	2014166	Shivani Singhal	8.8	8.6
3	2014028	ANUPAM SINGH	8.7	8.9
4	2014168	Shreya Pareek	8.7	8.6
5	2014197	Vaishali Kushwaha	8.7	8.5
6	2014097	Madhur Agarwal	8.5	9
7	2014017	AMAN AGARWAL	8.5	8.5
8	2014176	Sibani Mohanty	8.5	8.5

2014-ME

S.No	Roll No.	Student Name	SPI	CPI
1	2014183	Subhadeepa Sahoo	9	9.3
2	2014126	Prashant Singh	9.1	8.8
3	2014252	SURYANSH AGARWAL	8.5	8.5

2014-ECE

S.No	Roll No.	Student Name	SPI	CPI
1	2014243	SARTHAK GUPTA	9.7	9.1
2	2014162	Shilpi Mishra	9.5	9
3	2014010	ADITI BHATT	8.9	9
4	2014120	P Sudharshan	8.9	8.7
5	2014038	AVANTIKA SINGH	8.9	8.5
6	2014242	SAMTA JOSHI	8.9	8.5
7	2014255	U. SNEHA LEKHA	8.9	8.5

2015

S.No	Roll No.	Student Name	SPI	CPI
1	2015216	SAKSHAM AGRAWAL	9.1	9
2	2015240	SHUBHAM AGARWAL	9.4	9
3	2015036	ANKUR AGRAWAL	8.4	8.9
4	2015034	ANKITA MAKKER	8.4	8.8
5	2015148	MEGHA MOONDRA	9.2	8.8
6	2015047	ARPIT JAIN	9.1	8.7
7	2015039	ANUJ KHARE	9.1	8.7
8	2015053	ASHWANI KUMAR PAL	8.9	8.7
9	2015011	AITHANAGA SAI PRASANTH	8.9	8.6
10	2015058	AVINASH KUMAR	8.1	8.6
11	2015209	RISHTIGUPTA	8.5	8.6
12	2015190	PRICESINGH	8.4	8.5
13	2015224	SATYENDRA PRATAP SINGH	8	8.5

2016

S.No	Roll No.	Student Name	SPI	CPI
1	2016115	Kanika Dhiman	10	9.4
2	2016005	Abhay Gupta	8.7	9
3	2016042	Anviksha Khunteta	8.9	8.8
4	2016059	Ayaskant Panigrahi	8.6	8.8
5	2016074	Deepansh Jain	9	8.8
6	2016019	Aman Chauhan	8	8.7
7	2016107	Himani Narain	8.4	8.7

2016

S.No	Roll No.	Student Name	SPI	CPI
8	2016103	Harsh Srivastava	10	8.7
9	2016026	Amish Naidu	7.9	8.6
10	2016157	Mohammad Akram	8.7	8.6
11	2016264	Simran Srivastava	9.1	8.6
12	2016189	Prateek Mittal	8.6	8.5
13	2016215	RohitKumar	8.8	8.5
14	2016182	Piyush Karira	8.8	8.5

PG 2016 - MECHATRONICS

S.No	Roll No.	Student Name	SPI I	CPI I	SPI II	CPI II
1	1615008	Mihir jena	8.5	8.5	9.0	8.8

PG 2016 - CSE

S.No	Roll No.	Student Name	SPI I	CPI I	SPI II	CPI II
1	1611004	Debanjan Chowdhury	9.3	9.3	8.8	9.1

PG 2016 - ECE

S.No	Roll No.	Student Name	SPI I	CPI I	SPI II	CPI II
1	1612102	Arun Pant	9.8	9.8	9.9	9.8
2	1612310	Shubham Jain	9.2	9.2	9.0	9.1

PG 2016 - ME

S.No	Roll No.	Student Name	SPI I	CPI I	SPI II	CPI II
1	1613104	Mayur Vispute	7.9	7.9	9.7	8.8
2	1613108	Sanjog Patidar	8.3	8.3	9.1	8.7
3	1613208	Puneet Pawar	8.2	8.2	8.9	8.6

JENESYS 2017

S. No	Roll No.	Name of the students
1	2015216	SAKSHAM AGRAWAL
2	2015240	SHUBHAM AGARWAL
3	2015148	MEGHA MOONDRA
4	2015039	ANJU KHARE
5	2015053	ASHWANI KUMAR PAL
6	2015190	PRINCE SINGH
7	2015506	DABHOLKAR AMEYA PRAJYOT
8	1611004	DEBANJAN CHOWDHURY
9	1612310	SHUBHAM JAIN
10	1613104	MAYUR VISPUTE
11	1510361	ANKIT NAYAK

SHASHANK DUBEY (Ph.D SCHOLAR)

Shashank Dubey, pursuing PhD in ECE discipline, got first prize in poster presentation in a conference.

The details are as follows:

Conference name: 3rd International conference on emerging electronics.

Authors name : Shashank Dubey and Pravin Kondekar

Name of paper: Doping dependent stacked channel FinFET for multiple threshold voltage applications.

Date of event: 27-30 December, 2016

Venue: IIT, Bombay

Award: Best poster award



SWAPNIL SHANDILYA AND AVASHESH SINGH

TECHgium™ was an open-innovation initiative by L&T Technology Services Limited. To provide a platform for the nation's most-talented engineering graduates to solve real-world engineering problems. 22 cross disciplinary problem statements were given to teams containing maximum of 4 members from final or pre-final year of engineering institution. Event was organized in 4 steps starting with the registration in October 2016 to Finale Event in May 2017. 7000+ students from 164 engineering colleges of nation participated to showcase their talent on a national level platform. A team from PDPM IIITDM Jabalpur having two final year students from Mechanical Engineering department(Swapnil Shandilya 2013215 & Avashesh Singh 2013046) participated and claimed Silver Award with Prize Money of 2 Lakh rupees in the Finale of Techgium organized at Taj Vivanta in Bangalore.



Swapnil Shandilya and Avashesh Singh (ME, 2013)

U.SNEHA LEKHA (ECE, 2014)

U.Sneha Lekha of B-Tech 3rd year has participated in DigiBeti: India's Best Presentation Contest organized by ICT Academy and secured 2nd position at all India level. The main motive of this event was to spread awareness on national initiatives through digital empowerment of girls. The supporting partners for this competition were Ministry of Human Resource Development, Department of Electronics and IT Ministry of Communication & Information Technology, AICTE, BBBP Scheme, Skill India and the state partners were Government of Tamil Nadu : Department of Information Technology, ELCOT, Government of Pondicherry : Directorate of IT, and 4 UT's participated, they received

Pondicherry e-Governance society. Among the 27 states, 5000 entries, out of which 520 were shortlisted in the first screening test, in the second screening test 20 were selected for the final round of public voting. Securing 45k votes i stood at 2nd place receiving a certificate, trophy, book and an apple ipad mini2. The final award ceremony was held at ITC Grand Chola, Chennai in which many top most industrialists, 200 colleges chairpersons, IAS officers and managing directors of different MNC's naming Intel, Cognizant, IBM etc. have attended and motivated with their views on current scenarios.



A Collegiate club of
PDPM Indian Institute of Information Technology,
Design and manufacturing, Jabalpur
Institute of national importance
Established by MHRD, Government of India



Engineering. Design. Passion

ASSIST IIITDMJ-Racing

IIITDMJ-Racing is the official Supra SAE India team of IIITDMJ Jabalpur and is made up of 107 dynamic individuals who spend a whopping 40 hours per week of time towards the progress of the project to build a student prototype formula race car. They have represented our college twice at the National Level Competition and are ready to add another feather to the cap but the only thing that is pulling them down is the financial and resource constraint. If you can assist them in either way please contact us.

Kindly revert back on alumni@iiitdmj.ac.in, if this small request, finds a place in your hearts and we shall provide you with the bank details.



PDPM Indian Institute of Information Technology,
Design and Manufacturing, Jabalpur



ROBOCON 2018 TEAM

The Asia-Pacific Robot Contest (ABU Robocon) is an Asian Oceania College robot competition, founded in 2002 by Asia-Pacific Broadcasting Union. The concept of the ABU Robocon 2018's Theme & Rules is based on a traditional game of Vietnam, called "NÉM CÒN" (Shuttlecock Throwing).

This year we have to make two robots, one autonomous and another manual bot. The autonomous bot has to throw the shuttlecock through different rings.

With this exciting theme, splendid ideas and an enthusiastic team, ROBOCON IIITDMJ, we are ready to participate in ROBOCON INDIA 2018.

Being the part of IIITDMJ family, you are aware of the efficiency and dedication of our team. In the past years our team has performed exceptionally well in the contest and in order to continue with the same Performa or even better we need your help and support in the form of sponsorship. For autonomous bot we will need around **Rs. 90,000** and for manual **Rs. 60,000**. The expenses include locomotion, throwing mechanism, structure and fabrication.

Please join us, every contribution from your side will bring us one step closer to our goal.

MAJOR REQUIREMENTS:-

LOCOMOTION:

- DC Planetary geared encoder motors.
- Mecanum wheels

CHASSIS:

- Aluminum rods and blocks.
- Bearings

ELECTRONIC COMPONENTS:

- Single Board Computer
- Advance Line Following Sensor
- High Torque Stepper Motors



robocon.iiitdmj.ac.in



robocon@iiitdmj.ac.in



Jagrati –An Initiative by IIITIANS

"Education does not produce money, education produces wisdom, money is the side product."
 Millions of children in today's world undergo the worst forms of child labor which includes child slavery, child prostitution, child trafficking. Jagrati, an initiative by IIITDM Jabalpur focuses on improving the present conditions of children in India. It was started by some students of our college. It provides free education to the underprivileged children of nearby villages.

Perhaps the greatest social service that can be rendered by anybody to the country and to mankind is to bring up family. Cloth donation, plantation, medical camps, different fascinating competitions & celebration of festivals are regularly organized by our family.

We here at Jagrati not only educate the children but also focus on inculcating human values to them and improving their overall personality. At Jagrati, we help these little souls to find their talents and to shape their future.



We regularly visit the nearby villages and make them understand the value of education. Today we have more than 200 students and 60 dedicated volunteers working together for a good cause.

Recently Navodaya Wing has been started in Jagrati for some selected bright students of classes 3,4 and 5. They are taught separately from other students in this wing. The mere difference is that they are taught from the competition point of view. The volunteers who teach them are mainly the passed out students of Jawahar Navodaya Vidyalaya. Regular tests are taken on weekly basis including prizes and awards to keep them motivated. Today, Jagrati has reached heights and gained a lot of popularity. But the real success we have achieved is the love and support of the people. Any kind of darkness can be removed by the light of education.

Kindly revert back on alumni@iiitdmj.ac.in if this small request finds a place in your heart and we shall provide you with the bank details. Please join us, every contribution from your side will bring us one step closer to our goal.



IIITDMJ ALUMNI ASSOCIATION

Alumni Body

Faculty-in-charge	Dr. Biswajeet Mukherjee
Office of Alumni Affairs	Ms. Tulika Ruth Nelson
	Mr. Anil Kumar
Executive committee	Sameer Saurabh – President
	Dr. Apoorv Vasal - Vice President
	Somesh Singh – Secretary
	Suteerth Tripathi - Treasurer cum Joint Secretary
Executive members	Dr. Mohd. Rajik Khan
	Ankit Shukla
	Dr. Rajlaxmi Chouhan

Student Coordinators



Sanjog Patidar
M.Tech (ME), 2016



Abhishek Pradhan
B.Tech (ECE), 2015



Aswath Sivakumaran
B.Des, 2017

For any financial contribution towards Students/Infrastructure activities,
please contact us at: alumni@iiitdmj.ac.in

