

Volume - 1

Issue - 1

# SAVITUR

## RADIANT

### 2022



#### EMPOWERING EXCELLENCE

Editorial Division  
Report

#### FACULTY OF LIGHTS

Incredible feats achieved by  
the Institute's Faculty

#### STUDENTS OUR LIGHTING LAMP

Students contributing  
to the Institute



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

# SAVITUR (RADIANT)

## Bi-Annual Magazine



Pandit Dwarka Prasad Mishra

**INDIAN INSTITUTE OF INFORMATION TECHNOLOGY,  
DESIGN AND MANUFACTURING, JABALPUR**

(An Institute of National Importance established by an Act of Parliament)

# SAVITUR

## RADIANT

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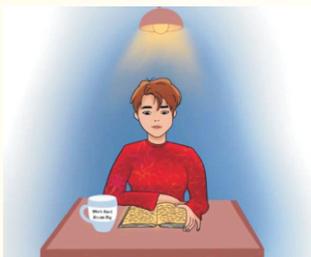
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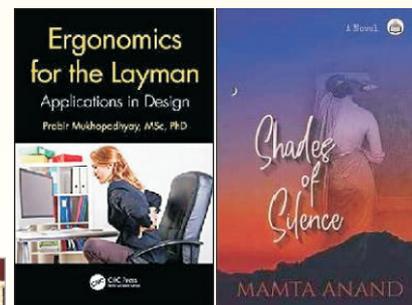


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**Patron**

Prof. P.N. Kondekar  
Director  
PDPM IIITDMJ

**Publisher**

Prof. Prabin Padhy  
Dean RSPC

**Editorial Board**

**Chief Editor**  
Dr. Mamta Anand, LA

**Discipline Editors**

Dr. Manish Kumar Bajpai, CSE  
Dr. Ponappa K., ME  
Dr. Pankaj Sharma, ECE  
Dr. Amrita Bhattacharjee, Design  
Dr. Yashpal Singh Katharria, NS

**Cover Photo**

Gaurav Patel, Ph.D.  
Design Discipline

## MESSAGE FROM DIRECTOR



*I hail the efforts of the dedicated faculty members of the Institute and the students who have done a marvelous job in securing a high rank for the Institute in India by their worthy contribution in the field of academics. Their projects and publications as I read through in the magazine 'Savitur'- the radiant, shall add to the wellbeing of the country and facilitate her progress and development.*

*I am happy in releasing the first issue of the magazine, 'Savitur' and shall hope that this and other issues of the magazine continue to inspire all its readers.*

*The editorial team under the leadership of the Dean RSPC, Prof. Prabin Padhy, deserves praise in bringing out the first issue of the magazine with a lot of hard work. I hope, it is liked by the readers who should feel compelled in knowing more about the Institute in its subsequent issues.*

*We would be thankful for the feedback from the readers on this issue for further improvisation. Perfection has no end. Tirelessly PDPM IIITDMJ strives towards perfection in all its endeavours.*

*This issue must mark a new inspired beginning in the lives of all who belong to IIITDMJ, our alumni and associates in the academia.*

*Readers, please join us in this inspired journey with Savitur.*

*My Best Wishes*

**Prof. Pravin N. Kondekar**

Director

PDPM IIITDMJ

Jabalpur (M.P.)

## MESSAGE FROM DEAN (RSPC)



Namaskar Readers,

I feel happy in publishing the first issue of the magazine, *Savitur*. It has evoked a feeling of pride in reading about the various achievements and awards of the colleagues and students given in the magazine.

The Institute has been a pioneer in coming up with a big number of sponsored projects and consultancy projects that are highly relevant to our times and crucially important for the nation.

Readers would share with me a sense of elation while reading about and seeing pictures in *Savitur* of the two historic visits of the Hon'ble Vice President of India, Shri Venkaiah Naidu and the Late Governor of M.P. Shri Lalji Tandon.

The editorial team members have done their duty well in composing several segments of the magazine.

I wish them all the success for the first issue of the magazine and should encourage them to bring many more such issues for the readers.

I would be eager to receive feedback from the readers on the magazine. I am sure we shall assimilate them in our subsequent issues.

Best Wishes

***Prof. Prabin Padhy***

*Dean RSPC*

*PDPM IIITDMJ*

*Jabalpur (M.P.)*

## LETTER FROM THE CHIEF EDITOR



*Dear Readers*

*Welcome to the first issue of the Institute bi-annual magazine, 'Savitur' (Radiant)*

*Borrowed from the Rig Veda, it means 'as bright as the Sun'. The Sanskrit name, 'Savitur', which means 'Radiant' in English, is inspired by the hard work of the administration, faculty and the students of IIITDMJ, an Institute of National Importance, established by the Govt. of India.*

*The aim of attaining education in India culturally is associated with the second birth, born in the soul 'Dvija' in Sanskrit, at the hands of the illumined teachers, erstwhile 'Guru'. To be born in wisdom and skill through education, capable of not only earning a living but serving the cause of life and making the world a happier place was considered to be a deserving human destiny. PDPM IIITDMJ takes this ancient moral precept as its guiding star. This issue brings to you this spirit of becoming alive as 'Savitur', in the soul, which is seen in the account of the rich academic culture of IIITDMJ, with its various and numerous achievements.*

*Graciously, I thank wholeheartedly, our wise dedicated leader and patron Prof. P.N. Kondekar, the Director of the Institute for the concept of the magazine. I thank Prof. Prabir Padhy, Dean (RSPC) for guiding us and publishing this Magazine. My sincere thanks are due to my Editorial team, I take pride in working with them. I cannot imagine this magazine without their dedicated role.*

*At the end, solemnly, the privilege I had to serve humbly as the Chief Editor of this issue of magazine has made my love for the Institute grow boundless. I felt inspired to know the great work of my colleagues and students. I thank our patron, the Director, for giving me this responsibility.*

*I look forward to hearing from you readers on this issue and other issues of 'Savitur' (Radiant). Please feel free to give us your valuable feedback. I thank you in anticipation for reading our work. I hope it is satisfactory. I promise to bring the effulgent spirit of the Institute in many more issues of 'SAVITUR' (RADIANT)*

*Wish You the Best*

**Dr. Mamta Anand**

*Assistant Professor- Grade-I*

*English*

*Liberal Arts Discipline, PDPM IIITDMJ*

*Jabalpur (M.P.), INDIA*

# The Golden Hour

## Making of History at IIITDMJ

Visits of the Hon'ble Vice President & the Hon'ble Governor of M.P. to IIITDMJ



*Hon'ble Vice president Shri Venkaiah Naidu, with Director Prof. Sanjeev Jain, inaugurating Reva Residency II.*

On the decadal Convocation ceremony the family of Indian Institute of Information Technology Design and Manufacturing Jabalpur, had an incredible fortune of welcoming the doyen politician as the Chief Guest of the occasion, Hon'ble Late Shri Lalji Tandon, then the Governor of M.P.

8th January 2020, marked a Golden Hour in the history of the Institute, when the Hon'ble Governor of M.P. arrived at the Institute with his retinue to bless our students of graduating 2014 and 2015 batch, along with the Post Graduates and Ph.D. scholars of the corresponding years.

Mantras, from Taittiriya Upanishad, '*Mata Devo Bhava, Pitr Devo Bhava, Acharya Devo Bhav,*' meaning, 'Mother is God, Father is God, Teacher is God', were played, mesmerizing a gathering of the dignitaries of the town, parents and family members of the students, academic fraternity and media persons. Other mantras from the divine collection of the rishis, served a reminiscent of the 'Convocation ceremony' conducted in the age of Upanishads, some 2500 years ago. These were in parts translated by Dr. Mamta Anand, anchor to the occasion.

In the august presence of the Hon'ble Governor, Late Shri Lalji Tandon, students received their degrees. The much coveted, Chairman's Gold Medal for the year 2018, for excellence in Academics, was awarded to Gogulapati Shreedurga and Sarthak Gupta.

Chairman's Gold Medal for the year 2019 was awarded to Ankita Makker.

Akashdeep Gupta, for the year 2018 and Satyendra Pratap Singh, for the year 2019 were awarded the



*Hon'ble Governor  
Late Shri Lalji Tandon  
on the dias with  
Mr. Deepak Ghaisas,  
Chairman and  
Prof. Sanjeev Jain,  
Director of  
the institute*

*Award of  
Chairman's Gold  
Medal to  
Ms. Shreedurga*



*Award of  
Chairman's Gold  
Medal to  
Ms. Ankita Makkar*



*Hon'ble Governor Late Shree. Lalji Tandon, with Director Prof. Sanjeev Jain, inaugurating Narmada Residency 3.*

Director's Gold Medal.

This was followed by the most momentous occasion of listening to the words of wisdom of Late Shri Lalji Tandon, chief guest of the Convocation. He praised the hard work of the faculty and the students for making the proud day of the Convocation happen. He advised the youngsters to realize that India must attain the status of the developed nation in a few years with the powerful strength of the youngsters like them, who in the country were 65% of the population.

Extolling the virtues of a real education in developing a sound character of the individual he enumerated the qualities which are desirable in any individual. It was necessary for a well educated individual to be impartial in matters concerning religion. They must be broad minded and honor human values.

Students listening unperturbed, were gratified the most when he said, 'there are no failures, there are only lessons'. He won their hearts when he asked them to take the entire universe for a company. This echoed the high wisdom of the country that believed in the entire creation being alive. Filled with insight, he inspired them to mark their progress through self introspection rather than the worldly standards.

In the final note, he enthralled them to dream and burn like the Sun to shine with their hard work on the skies of the humanity.

The Convocation ended with the Army band playing the National Anthem.

Thereafter, he inaugurated the Narmada Residency III, the faculty apartments and hoped the settling of the teacher on campus will exert the gravity of an ashram in IITDMJ.

The Convocation ended with a loud cheer from the students who were excited to see their dreams being answered.

Chairman Shri Deepak Ghaisas and Director Prof. Sanjeev Jain, bid adieu to the Hon'ble Governor Late Shri. Lalji Tandon, and the moments of the golden hour seeped deep into the consciousness of the IITDMJ family.

## The Final Rendition



*The Hon'ble Vice President Shri Venkaiah Naidu with the Director Prof. Sanjeev Jain*

Who in IIITDMJ could have imagined that the final rendition to the great welcoming of the Hon'ble Governor of M.P. in the month of January 2020, would only reach its climax, with the Hon'ble Vice President of India, Shri Venkaiah Naidu, setting his foot in IIITDMJ on 15th February 2020. It truly marked the making of history, his presence in IIITDMJ, his talk with the students, his awe inspiring reach to every heart in the speech, spoke of his mettle that leads a nation and its people to fulfill its destiny.

Elders of the IIITDMJ family, Shri Deepak Ghaisas, the Chairman and Prof. Sanjeev Jain, the Director, faculty and students regaled in his magnanimous presence. He filled the environs with pride, vision and a mission that gives a direction to the life making it enduring and happy.

He raised the spirit of the students with his sprightly demeanor, exemplifying the age old saying, 'some are born leaders'. Faculty and students heard him with rapt attention. He spoke to a gathering of more than thousands in the IIITDMJ auditorium and given his high stature still mellowed to reach everyone and was lovingly received by the IIITDMJ administration, faculty and students as their own.

Delivering his message, the most astute advice he gave to all gathered was never neglect mother tongue for love of English language. He encouraged people to learn English, Mandarin, Spanish and other foreign languages yet, at the same time, not forget their culture which could only be truly absorbed from one's mother tongue. Culture, that is the passive process of one's growth needed to be balanced with the active agent of the foreign tongue to have a wholesome growth.

Emphasizing more on the importance of Languages he asked, faculty and students to develop digital content in mother tongue and do research in mother tongue as that was the need of the hour.

This way he felt India could deliver a lot to the world and attain her pristine glory of being the, 'Jagat Guru', world teacher.



*The Hon'ble Vice President Shri Venkaiah Naidu with the Director Prof. Sanjeev Jain inaugurating Reva Residency II.*

It was this he felt would make the Indian society more inclusive.

His speech marked a moment in the lives of the individuals which they would never forget. The message spiced with his distinct brilliant sense of humour, made IITDMJ students render several rounds of applause. Nobody wanted him to leave, but holding the highest office of India meant there were millions waiting for him in his other meetings scheduled for the day, at several distant places in India.

Before leaving the campus, he inaugurated the Rewa Residency at IITDMJ.

The family of IITDMJ, resumed their work for the day with numerous memories of the visit of the Hon'ble Vice President, Shri Venkaiah Naidu, who met students, saw their projects, met faculty for a group photo and thus proceeded to Kolkata the same day.



*Director Prof. Sanjeev Jain Farewell Ceremony 24th November 2021*

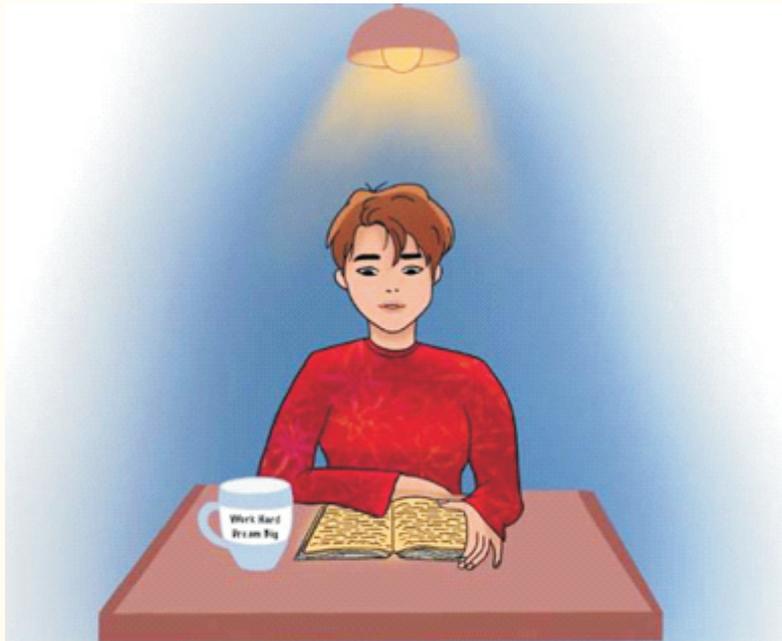
# Editorial Division Report

## EMPOWERING EXCELLENCE - dispelling darkness

As an Educational Institution of National Importance PDPM IIITDMJ does a service to the Nation and humanity by grooming the best minds with an aim to achieve excellence in their Academic endeavors which would lead to the development of a society free from the darkness of ignorance.

Students strive at IIITDMJ to accomplish the most in their years of Graduation and Post Graduation in Technology and Design. Disciplines of Computer Science Engineering, Electrical Engineering, Mechanical Engineering, Natural Science, Design and Liberal Arts offer Doctorate Degrees.

In Academia at the International and National level, PDPM IIITDMJ is increasingly seen as a beacon, a leader, directing the progress and development of the nation through the fields of Technology and Design. Here are some reports that prove the vital and pivotal role played by the IIITDMJ administration under the august leadership of Shri Deepak Ghaisas, Chairman and Prof. P.N. Kondekar, Director honorable members of the BoG and the administration facilitating the faculty and the students of IIITDMJ.



## About PDPM IIITDM Jabalpur

The modern manufacturing environment entails a large variety of cross-disciplinary activities including the Design and IT. Engineers are called upon to work within new environmental, economical and social constraints. These elements have found their way into the engineering curricula at PDPM IIITDMJ.

PDPM IIITDMJ integrates the knowledge of a given discipline with IT enabled design, prototyping as well as manufacturing considerations. Apart from laying an emphasis on IT, the new approach emphasizes on aesthetic, ergonomic and functional considerations of products responsive to industry driven adaptive management structure.

With above requirements in mind, and strong industry interface, close cooperation with other academic and research institutions are the key features of this Institute, PDPM IIITDMJ which was founded in 2005 by the Ministry of Human Resource Development New Delhi. The Institute received the status of Institute of National Importance by an act of the Parliament in 2015.

## Mission

The Mission of the Institute is to create a multi disciplinary academic environment to prepare and train manpower of excellence for nurturing and promoting knowledge-based activities and innovations in design, fabrication and manufacturing of products by bringing together a collaborative and mutually stimulating mix of different fields of science, engineering and arts.

## Institute a Beacon!

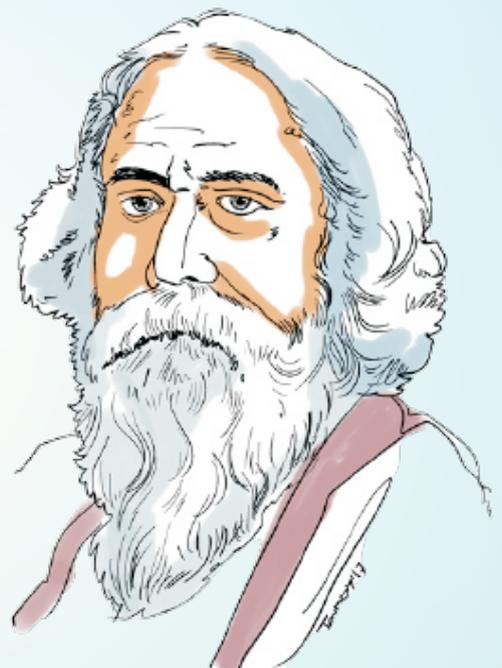
This section of the Magazine Savitur (Radiant) is dedicated to the noble goals set by the community of PDPM IIITDMJ faculty to assist the humanity with their research projects that is focused to change the face of the earth for the better.

Many of these projects have been awarded to the faculty from the International bodies and Government of India.

Many of these projects have won an acclaim from the society and has made the Institute a beckoning place, towering in the Academic world with leadership in sponsored Research Projects, Consultancy Projects and patents. A discipline wise list of it is given here.

**YOU CAN'T CROSS THE SEA MERELY  
BY STANDING  
AND STARING AT THE WATER.**

**- RABINDRANATH TAGORE**



## Sponsored Research Projects CSE



**Dr. Manish Kumar Bajpai**

- PI- Design and Development of Centralized database of scholarship / Fellowship Awarded in S & T Sector, DST, 2020- 2023, 24.12 Lacs
- PI- Mathematical and Computational Modelling of Epidemic Forecast and Disease Transformation, SPARC, 2019-2022, 48.99 Lacs
- PI- Bio-Inspired Computer Vision, USIEF, 2019-2022, 5 Lacs
- Co-PI: Privacy Enhancing Revocable Biometric Identities (PERBI), BRNS, 2017-2020, 28.78 Lacs



**Dr. Neelam Dayal**

- PI: Bot Prevention in Cyber Physical Systems, C3 HUB, IIT Kanpur, 2021-2024, 40 lacs



**Prof. Atul Gupta**

- PI: Android App for Plant Species Identification, DIC Jabalpur, 2017-2019, 5 lacs
- Co-PI: Electronics and ICT Academy, IIITDMJ, 2015- 2022, 9.5 Crore
- Co-PI: Design and Innovation Centre, UGC through RDVV Jabalpur, 2017- , 01 Crore
- Co-PI: Integrated Solid Waste Management, DIC Jabalpur, 2017-2019, 10 lacs
- Co-PI: Bot Prevention in Cyber Physical Systems, C3 HUB, IIT Kanpur, 2021-2024, 40 lacs



**Prof. Pritee Khanna**

- PI: Privacy Enhancing Revocable Biometric Identities (PERBI), BRNS, 2017-2020, 28.78 Lacs
- Co-PI: 3D-Mesh Model Steganography and Secure Communication in a Cloud Manufacturing Environment, DST, 2021- 2023, 5.98 Lacs
- Co-PI: Trend Analysis on the impact of Additive Manufacturing and Internet of Things and their confluence on Indian Industry, DST, 2021- 2023, 19.95 Lacs
- Co-PI: Designing CAD system for identifying neurodegenerative diseases using prediction model, NPIU, 2019-2021, 8.59 Lacs
- Co-PI: Smart Biometrics AI driven Biometric Privacy, DST, 2021, 5.56 Lacs



**Dr. Sraban Kumar Mohanty**

- PI: Designing of a Portable, User Friendly and Low-cost Pulse Magnetic Field Generating Sleep Inducer for Insomnia Patients, Design and Innovation center, MHRD Govt. of India, 2019- , 1.66 Lacs
- Co-PI: 3D-Mesh Model Steganography and Secure Communication in a Cloud Manufacturing Environment, DST, 2021- 2023, 5.98 Lacs
- Co-PI: FPGA prototype of non-recursive key based cryptosystem for secure transmission of real time privacy signal, DST, 2018-2021, 24.98 Lacs



**Prof. Aparajita Ojha**

- PI: Electronics and ICT Academy, IIITDMJ, 2015- 2022, 9.5 Crore
- PI: 3D-Mesh Model Steganography and Secure Communication in a Cloud Manufacturing Environment, DST, 2021- 2023, 5.98 Lacs



**Dr. Ayan Seal**

- PI: Prediction of diseases through computer assisted diagnosis system using images captured by minimally-invasive and non-invasive modalities, SPARC, 2019- 2021, 47.68 Lacs
- Co-PI: Privacy Enhancing Revocable Biometric Identities (PERBI), BRNS, 2017-2020, 28.78 Lacs
- Co-PI: Incorporating Intelligence in E-Mail System, BRNS, 2017-2019, 13.68 Lacs



**Dr. Munesh Singh**

- PI: Development of Fresh Water Pearl Culture Unit Based on IoT-Data Analytics, DST, 2020-2023, 17 Lacs
- Co-PI: Knowledge Graph for Adverse Drug Reaction (ADR) Association for Safety Signal Detection Using Public Safety Databases, Data Foundry Private Limited, 2019-2020, 15.5 Lacs



**Dr. Vijaypal Singh Rathore**

- PI: HT-Pred: A Complete Defensive Machine Learning Tool for Hardware Trojan Detection Data Security Council of India (DSCI), 2020- , 0.40 Lacs

## Sponsored Research Projects ECE



**Dr. Irshad Ahmad Ansari**

- PI: Investigation of Computational Intelligence Capabilities for Digital Signal Protection by STEM-RS, U.P. (Rs. 3,00,300/-) year 2021



**Dr. Biswajeet Mukherjee**

- PI: Low Profile Dielectric Resonator Antennas for Compact, Wideband and Conformal Applications by SERB, CRG (Rs. 25 lakh) year 2020



**Dr. Varun Bajaj**

- PI: Computer Aided Design for Development of Hardware prototype for Diagnosis of Diabetes using ECG Signals by CSIR (Rs. 20 lakh) year 2021
- PI: FPGA prototype of non-recursive key based cryptosystem for secure transmission of real-time privacy signal by DST, ICPS (Rs. 25 lakh) year 2020



**Dr. Prabin Kumar Padhy**

- PI: Smart Room Ventilator (SRV) by DIC, MHRD (Rs. 2.75 lakh) year 2020



**Dr. D P Samajdar**

- PI: Studies on electronic and optical properties in group III-V-N quaternary semiconductor quantum dots using density functional theory and k dot p method by CSIR (Rs. 17.1 lakh) year 2019

## Sponsored Research Projects ME



**Prof. Vijay Kumar Gupta**

- Co PI - Smart Room Ventilator (SRV) 28-02-19 funded by MHRD (DIC Scheme) | INR 276900



**Dr. Harpreet Singh**

- PI - Development of multi-operational microwave heating setup for the near net shape material processing 12-21-2019 funded by DST-SERB | INR 23.23 lakh



**Dr. Himansu Sekhar Nanda**

- PI - Bioactive Hybrid Scaffold Manufacturing via Surface Modification of 3D-printed Hydrophobic Scaffolds 12-1-2019 funded by Science and Engineering Research Board, Department of Science and Technology, India | INR 23,25,000
- PI - Biomimetic Bone Scaffold of Tailored Radial Porosity Gradient using Fused Deposition Manufacturing Jan 2019 - Nov 2019 funded by Senior Visiting Scholar Research Grant from State Key Laboratory of Molecular Engineering of Polymers, Fudan University, China | RMB 30,000



**Prof. Puneet Tandon**

- Mentor - Scale effect approach to evaluate the erosion mechanism and performance features in micro abrasive water jet machining process: A study of new approach based on process parameters and materials microstructures 18-11-2020 funded by SERB TARE | PI - Dr. YUVARAJN | INR 18,30,000
- PI - Trend Analysis on the impact of Additive Manufacturing and Internet of Things and their confluence on Indian Industry 07-10-2019 funded by DST NSTMIS | Co PI - VK Gupta and Pritee Khanna | INR 19,95,648.00
- PI - Numerical modeling and development of new methods for hybrid metal forming of complex parts of ultra-high strength (UHS) materials 2-1-2019 to 1-7-2021 funded by DST-RFBR (Indo-Russia) | Co PI - Alexander Pesin | INR 19,64,400.00

## Sponsored Research Projects Design



**Dr. Prabir Mukhopadhyay**

- Grant from Department of Science and Technology, Government of India on 5th March, 2021. This grant is for a 5 years duration, INR 74 Lakhs
- PI: Ergonomic Intervention in The Classroom Environment for Enhanced Learning 18th Aug, 2020 Funded by NCERT, New Delhi | INR 7,98,000



**Dr. Sangeeta Pandit**

- Ergonomic design intervention in hand block Bagh print of Madhya Pradesh 18th July, 2020 Co-PI : Prof. Tanuja Sheorey Funded by DIC | INR 2,76,250



**Dr. Tripti Singh**

- Empowering women through visual communication tools 2019-21 DST (SEED) INR 13.65 Lakh

## Sponsored Research Projects Natural Science



**Dr. L K Balyan**

- PI: Numerical Study of nonlinear diff. equations using pseudospectral methods, PDPM IIITDM, INR : 6,12,312
- Co-PI : Design and Analysis of Multiplier less Multirate Filter bank with Low Complexity.



**Dr. N.R. Jena**

- PI: Computational Design of Functional Nucleotides for Artificial Life, SERB, 04-01-17, INR 50,00,160.00
- PI: Discovery of Therapeutic Candidates for the Treatment of Zika Viral Infection by using Advanced Computational Techniques, CSIR, INR 1,784,000
- "Mutational properties of DNA base Lesions" (2014-2021), IIITDM Jabalpur, INR 10,00,000.00
- PI: Design and Development of Biosensors for the Early Diagnosis of Cancer and DIC, MHRD, India, 2017, INR 13,00,000



**Dr. Neeraj K. Jaiswal**

- PI: Investigation of  $sp^2/sp^3$  edge functionalized GaN nanoribbons for spintronic device applications, SERB, 28-11-19, INR 2144000/-



**Dr. Y. S. Katharria**

- PI: Radiation Effects in Gallium Oxide, Inter-University Accelerator Centre, New Delhi, 23-05-18, INR 600,000/-
- PI: Study of resistive switching in gallium oxide thin films for non-volatile memory application, UGC-DAE Consortium for Scientific Research, Indore, 28-08-18, INR 1,35,000/-
- PI: Design and Analysis of Multiplierless Multirate Filterbank with Low Complexity, DST, INR 18,79,680



**Dr. A. C. Mishra**

- PI: MI studies of electrodeposited nickel based thin film alloys for low magnetic field sensor application, BRNS, 01.04.2020, INR 26,83,820



**Dr. M. K. Panda**

- PI: Scientific and Industrial applications of bioconvection via mathematical modelling, CSIR, 15.10.2019, INR 16 lakh
- PI: Mathematical modelling of biased swimming micro-organisms via bioconvection, SERB, 26-06-18, INR 6.6 Lakhs
- PI: Modelling suspensions of active swimming micro-organisms under external gradients via Bioconvection, SERB, 2019, INR 22 Lakhs
- PI: Scientific and Industrial Applications of Bioconvection Via Mathematical Modelling, CSIR, 15-10-19, INR 15 Lakhs

**Sponsored Research Projects Liberal Arts**



**Dr. J. Al Muzzamil Fareen**

- As single Investigator, undertaken FIG Project on “Target Situation Analysis: Industrial Perceptions on Technical Students' Oral Presentation Skills for Placement in New Normalcy” at PDPM Indian Institute of Information Technology Jabalpur on February 2021. Amount of grant and duration Rs. 1,70,000/- (8 months)

**Sponsored Consultancy Projects CSE**

<p><b>Dr. M.K. Bajpai, Dr. K.K.Bharti</b></p> <p>Duration : Aug, 2019 - Feb, 2021 Client : BEL INR 25,86,000</p>	<p><b>Activity templating &amp; trend estimation</b></p>
<p><b>Dr. V.K.Jain</b></p> <p>Duration : 2019 - 2021 Client : MPPTCL, SLDC, Jabalpur INR 22 Lacs</p>	<p><b>1. Load Forecasting System for MP State</b></p>
<p>Duration : 2021 - 2022 Client : MPPTCL, SLDC, Jabalpur INR 5.19 Lacs</p>	<p><b>2. Maintenance of Load Forecasting System for MP State</b></p>
<p><b>Prof. Pritee Khanna</b></p> <p>Duration : 2019 - 2022 Client : A Mini Industry 4.0 Solution, AlfaTKG Integrated Solutions India Pvt. Ltd. INR 8.26 Lacs</p>	<p><b>Similarity Detection and process information Retrieval from Large Part-Drawing Database of Manufacturing Companies</b></p>
<p><b>Prof. Aparajita Ojha</b></p> <p>Duration : 2019 - 2022 Client : A Mini Industry 4.0 Solution, AlfaTKG Integrated Solutions India Pvt. Ltd. INR 8.26 Lacs</p>	<p><b>Similarity Detection and process information Retrieval from Large Part-Drawing Database of Manufacturing Companies</b></p>

**Dr. Ayan Seal**

Duration : 2018 - 2019

Client : ICMR, Jabalpur  
INR 1 Lacs



**Intensified Tuberculosis Control  
Project among Saharia :  
A Particularly Vulnerable Tribal  
Group in Madhya Pradesh**

**• Sponsored Consultancy Projects ME •**

**Dr. Irshad Ahmad Ansari and  
Prof. Vijay Kuamr Gupta**

Duration : January-February 2020

Client : Vehicle Factory Jabalpur  
INR 25000



**Acquisition, digitization and  
transfer of Furnace data  
(temperature) to make the  
Furnace compatible of  
Industry 4.0**

**Dr. Tushar Choudhary**

Duration :1 year

Client : HARIOM Electricals  
2 lakh



**Thermo-economic analysis  
of solar assisted heating and  
cooling system for smart  
building applications**

**Dr. Manu Srivastava**

Duration : 45 days

Client : SIFRA Enterprises  
INR 50000



**Prototypes for  
agricultural  
equipment parts**

**Prof. Puneet Tandon and  
Prof. V.K. Gupta**

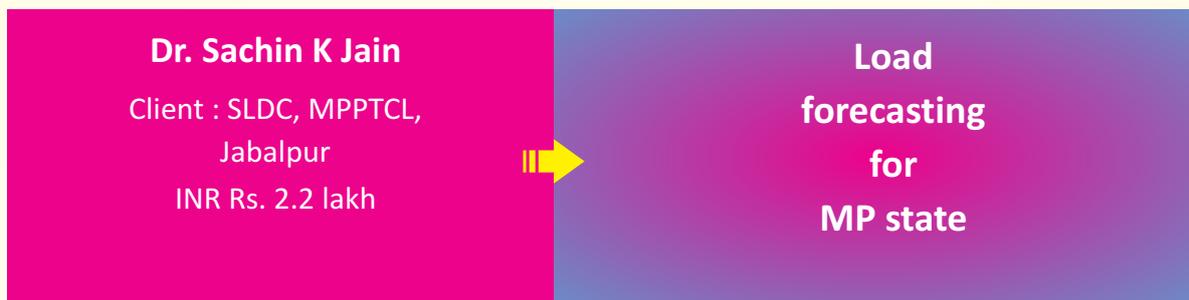
July 5, 2021 - July 4, 2022

Client : Gun Carriage Factory Jabalpur  
INR 20,06,000

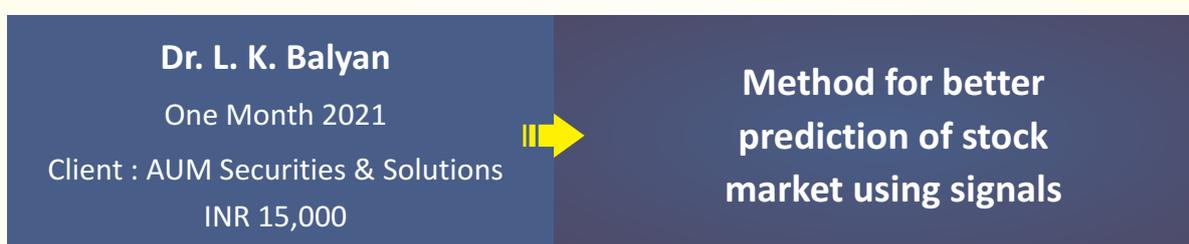


**Automation of  
Ammunition Loading  
and  
Handling system  
for Anti-Aircraft Gun**

## Sponsored Consultancy Projects ECE



## Sponsored Consultancy Projects NS



## Patents

### ME

#### Dr. Tushar Choudhary

- Bio-printing Device and System for Wound Healing, Published - 2021
- A System and A Process for Recycling Waste Fabrics, Published - 2021
- Solar Energy Monitoring System By IOT, Published - 2021
- A Smart Lampost for Air Purification, Published - 2021

#### Prof. Puneet Tandon, A. M. Pesin, V. A. Kharitonov, E.M. Drigun, D.O. Pustovoitov, N.M. Lokotunina, H. Yu.

- Production Method of Multifaceted Calibrated Steel, Published - 2020
- Surface Treatment Method of Solids of Revolution, Published - 2020
- Method of obtaining calibrated hex profiles from stainless steels, Published - 2019
- Method of high-quality complex shaped profile production, Published - 2020

#### Prof. Tanuja Sheorey, Harpreet Singh and Prakhar Khemka

- Polymer Matrix Composite Manufacturing Machine, Published - 2020

### ECE

#### Dr. Deepak. Ch, Dr. Arjun Choudhary, Dr. Abhishek Sharma, Dr. Arun Kumar, Sinha, Dr. Sulabh Bansal, Dr. Prakash Chandra Sharma, Dr. Varun Bajaj, Dr. Sanjiv, Sharma, Dr. Rohit Raja

- Dynamic Digital Twin System and A Method of Operating Thereof

## International Collaboration



**MANHATTAN COLLEGE**

**Prof. George Giakos,  
Manhattan College  
USA**



**THE UNIVERSITY OF CHICAGO**

**Dr. Jonathon Ozik  
University of Chicago,  
USA**

**SIU**

**Southern Illinois University**

CARBONDALE

**Prof. O.P. Agrawal,  
Southern Illinois University,  
USA**

**University of CINCINNATI**

**Prof. R. K. Bhatnagar,  
University of Cincinnati  
USA**



**Prof. Michalis Zervakis,  
University of Crete,  
Greece**

**MANCHESTER 1824**  
The University of Manchester

**Prof. M. Wang,  
University of Manchester  
UK**

**LOYOLA UNIVERSITY CHICAGO**  
*Preparing people to lead extraordinary lives*

**Dr. Harel Dahari,  
Loyola University,  
USA**

**USN**

**Prof. Kanagasabapath Mylvaganam,  
University of South Eastern Norway,  
Norway**



**Prof. M. Akbari,  
University of Leeds  
Bracket, UK**



**POLITÉCNICA**  
**Universidad Politecnica De Madrid,  
Spain**



**Prof. K Sakurai,  
University of Tokyo,  
Japan**

# Faculty of Light

In this section, the Magazine , Savitur (Radiant) proudly gives coverage to the incredible feats achieved by the Institute's Faculty at the International and National level.

The hard working faculty of PDPM IIITDMJ has spread light of knowledge and wisdom around the world by winning prestigious awards from National and International bodies, the list of awards discipline wise is entitled, 'Awards Trek'. Faculty have raised imperishable 'Monuments' in the academic history and memory of humankind in the form of Academic, Research and Creative Books. The list of books written by Faculty is entitled, 'Monuments'. Their knowledge, new path breaking researches flow in the canals of SCI & SCOPUS Journals of repute which were presented in esteemed conferences world over. A total number of such publications are given in the title, 'Canals'. Many of the faculty members have been creative to organize august gatherings of world famous scholars, scientists and leaders in the Institute, as 'Convener'. The list 'Creative Convener ', gives details of such events.

## 1. Awards and Achievements

### CSE DISCIPLINE



#### Dr. Manish Kumar Bajpai

- Senior Member, IEEE, 2019
- Fulbright Nehru Specialist Fellowship, Full bright Fellowship, USIEF, 2019
- Member, Board of Study, VIT University Bhopal, 2020
- Secretary, Inter Chapter Section Relation, IEEE Bombay Section, IEEE Bombay Section, 2020
- Member, Board of Study, Center for advanced Study, AKTU Lucknow, 2021



#### Prof. Pritee Khanna

- Guest Editor, Special issue on "Artificial Intelligence and Deep Learning for Biomedical Applications", Multimedia Tools and Processing, Springer, 2020
- Best Paper Award for the paper "Glaucoma Detection using Fuzzy C-means Optic Cup Segmentation and Feature Classification", CICT, 2019
- Track Chair, Signal, Image, and Video Processing at 2019 IEEE Conference on Information and Communication Technology (CICT 2019), at IIIT Allahabad, Prayagraj
- Guest Editor, "Proceedings of 3rd International Conference on Computer Vision and Image Processing", Vol I and Vol II in Advances in Intelligent Systems and Computing Series Vol 1022 (November 2019) and Vol 1024 (September 2019), Springer.
- Co-chair special session on Soft Computing: Current Trend of Machine Learning in Computer Vision, SMC 2019, Bari, Italy
- Senior Member, IEEE, 2019



### Dr. Sraban Kumar Mohanty

- Senior Member, IEEE, 2019
- My student Mr.Gaurav Mishra is conferred with Young Scientist Award in the discipline of Computer science and Information Technology during 34th M.P. Young Scientist Congress held at RGPV Bhopal-2019.



### Prof. Aparajita Ojha

- Member of Board of Governors, IIITDM Kurnool, 2019
- Nominated member of Senate, IIIT Nagpur, 2020
- Member, International Advisory and Programme Committee, CVIP 2020



### Dr. Ayan Seal

- Senior IEEE Member, 2019
- Best Paper Award, A new technique to estimate fractal dimension of color images, COMSYS2020, 2020



### Dr. Abhishek Verma

- Best PhD Thesis Award In Computer Science Category, 2021
- Editorial Board Member, Research Reports on Computer Science (RRCS), 2021

## ME DISCIPLINE



### Dr. Mohd. Zahid Ansari

- Research paper titled "Effect of nozzle inclination angle on the performance of hybrid jet impingement microchannel heat sink" by J Pandey, M Ansari, A Husain won the "Best Presenter Award" in the First International Conference on Future Technologies in Manufacturing, Automation, Design and Energy (ICoFT 2020 MADE@NITPY) NIT Puducherry, India
- Research paper titled "Three dimensional modelling of aluminum foam through computed tomography scan technique" by S Sahu, PD Ukey, N Kumar, RP Singh, MZ Ansari won the "Best Paper Award" in the First International Conference on Industrial and Manufacturing Systems (CIMS - 2020) NIT Jalandhar, Punjab, India
- Recognition for reviewing manuscripts for publications | 2020 [Awarded by Journal of Manufacturing Processes, Elsevier]



### Prof. Vijay Kumar Gupta

- Member, Academic Senate, IIITDM Kurnool | 2019 [Awarded by Society for Reliability and Safety]
- Member Advisory committee CAMMP 2021 MNIT Jaipur
- Honorary Professor Indian Institute of Risk and Reliability | 2021 [Awarded by Society for Reliability and Safety (SRESA)]



### Prof. Prashant K. Jain

- Research paper presentation of Ankit Nayak, P.K. Kankar, Prashant K. Jain and Niharika Jain on “Acquisition and Analysis of Endodontic Hand-piece Vibration Signals” has been awarded as the “Best Presentation Award” in “2019 International Conference on "Physics and Mechanics of New Materials and Their Applications" (PHENMA 2019)”, dated November 7-10, 2019, held at Hanoi University of science and technology, Hanoi, Vietnam.
- Research paper presentation of Hrishabh Dubey, Nidhi Dixit and Prashant K. Jain on "Design and FEA Analysis of Polycaprolactone Based Bio-Resorbable Cardiovascular Stent", has been awarded as the best paper in Technical Sessions I3 (D-4) in International Conference on Recent Advances in Mechanical Engineering, (RAME - 2020), DTU
- Research paper of U.S. Thakur, A. Nayak, V.K. Gupta, P.K. Jain on “Optimization of Direct Slicing using DICOMS for Additive Manufacturing”, has been awarded as the best paper in International Conference on Industrial and Manufacturing Systems (CIMS - 2020), NIT Jalandhar
- Research paper of Adarsh Kumar Singh, Ankit Nayak, Narendra Kumar and Prashant Kumar Jain, “On 3D Printing of 2D Digital Image”, has been awarded as the best paper in International Conference on Industrial and Manufacturing Systems (CIMS - 2020), NIT Jalandhar
- PhD student Mr. Ankit Nayak received The IIITD&M Proficiency Gold Medal for Best Cross Disciplinary Project in the graduating class of Doctor of Philosophy, for his PhD thesis titled “Guided Endodontics and Vibration Signature Analysis of Root Canal Shaping: Experimental and Computational Study” During 11th Convocation on April 08, 2021



### Dr. Shivdayal Patel

- 1st Position in Hindi writing Essay Competition Hindi Pakhwada IIITDM Jabalpur 2021
- (Student - Amandeep Singh) Best Research Paper Award-IMRSE "Fatigue Failure Analysis of Spur Gear" International Conference on Recent Development on Materials, Reliability, Safety and Environmental Issues (IMRSE- 2021) NIT Jalandhar
- (Student-Vikrant Sen) Best Research Paper Award-IMRSE "Low Velocity Impact Analysis of Corrugated Sandwich Structure" International Conference on Recent Development on Materials, Reliability, Safety and Environmental Issues (IMRSE- 2021) NIT Jalandhar
- (Student - Kumar Maharashi) Best Research Paper Award-IMRSE " Experimental Uncertainty Analysis of Failure Strains for Jute Fiber Composites" International Conference on Recent Development on Materials, Reliability, Safety and Environmental Issues (IMRSE- 2021) NIT Jalandhar
- (Student- Rajesh Kumar) Best MTech Thesis Silver Medal Award " Blast analysis of sandwich Structure" IIITDM Jabalpur 2020
- 1st Position in Hindi writing Essay Competition IIITDM Jabalpur 2020
- 1st Position in Hindi writing Essay Competition Hindi Pakhwada IIITDM Jabalpur 2019



### Prof. Tanuja Sheorey

- Member, Board of Studies for Mechatronics Engineering (B. Tech. Programme), at KIIT Deemed to be University, an Institute of Eminence, Bhubaneswar | 2021
- Media coordinator and coordinator for digital hackathon 2021
- Innovation Ambassador of Ministry of Education, Innovation Cell | 2021



### Dr. Manu Srivastava

- Convenor, one day national workshop on Industrial safety and prevention | 2019 [Awarded by Convenor, one day national workshop on Industrial safety and prevention]
- For exemplary performance as Head of Department | 2019 [Awarded by Faculty of Engineering and Technology, Manav Rachna International Institute of Research and Studies, Faridabad, Haryana, India]
- Convenor, one day Kaizen Conclave | 2019 [Awarded by Quality Circle Forum of India (QCFI)]
- Convenor, one-week Faculty development program, HVAC Strategies | 2020 [Indian Society of Heating, Refrigerating and Air Conditioning Engineers (ISHRAE)]
- Convenor, one day industry sponsored national level symposium on Integration of research, academia and industrial practises towards manufacturing excellence | 2020 [Awarded by Faculty of Engineering and Technology, Manav Rachna International Institute of Research and Studies, Faridabad, Haryana, India]
- For exemplary performance as overall NBA coordinator | 2019 [Awarded by Faculty of Engineering and Technology, Manav Rachna International Institute of Research and Studies, Faridabad, Haryana, India]
- International Travel Scheme | 2019 [Awarded by Science & Engineering Research Board (SERB)]
- Inspire Awards- MANAK; National Innovation Foundation | 2020
- International Conference on "Progressive Research in Industrial & Mechanical Engineering NIT Patna | 2020
- Evaluator, Toycathon 2021, an inter-ministerial initiative organized by Ministry of Education's Innovation Cell | 2021



### Prof. Puneet Tandon

- Member, UCEED-CEED Formation of Syllabus and Structure Review and Revision Committee (Pan India Committee for admissions to undergraduate and graduate programs in Design | 2021 [Awarded by UCEED-CEED Implementation Committee]
- Honorary Rosalind Membership [Membership ID #RZ81700] | 2021 [Awarded by London Journal Press, UK]
- Member, Editorial Board, Journal of Modern Mechanical Engineering and Technology | 2021 [Awarded by Zeal Press, United Kingdom]
- Member Editorial Board, Theory and Technology of Metallurgical Production |

- 2020 [Awarded by Ministry of Education and Science of the Russian Federation]
- Member Editorial Board, FERROUS METALLURGY. Bulletin of Scientific, Technical and Economical | 2020 [Awarded by Bulletin of Scientific, Technical and Economical, Russia]
  - Leadership for Academician Programme (LEAP) of Ministry of Human Resource Development (MHRD), Government of India, organized by IIT Kharagpur in collaboration with IfM, University of Cambridge, UK | 2019 [Awarded by Ministry of Human Resource Development (MHRD), Government of India]
  - 2020 DUO-India Professor Fellowship Award with UNIVERSITA DEGLI STUDI DI PADOVA (UNIPD) (Padova University, Italy) | 2019 [Awarded by UNIVERSITÀ DEGLI STUDI DI PADOVA (UNIPD) (Padova University, Italy)]

## ECE DISCIPLINE



### Dr. Navjeet Bagga

- Ankit Dixit, D. P. Samjdar and Navjeet Bagga won the Best Paper Award in CCSN-2020 held in Kolkata India



### Dr. Biswajeet Mukherjee

- Best Paper Award the International Conference on Innovative Product Design and Intelligent Manufacturing Systems (ICIPDIMS), 2019 at NIT Rourkela, India



### Dr. Ravi Panwar

- Awarded “Swachhta Saarthi Fellowship” to Ph.D. Student Mr. Ravi Yadav, under the Waste to Wealth Mission of the Government of India, 2021.
- MP Young Scientist Award 2021, to Ph.D. Student Mr. Varun Chaudhary, with the First Position and was rewarded with a cash prize of Rs. 25,000 /-.
- Best research award in International Conference on Cutting Edge Technologies in Computing and Communication Engineering, NIT Kurukshetra, Haryana, 2020.
- Visiting Professor Fellowship, University of Campania.



### Dr. D.P. Samjdar

- Ankit Dixit, D. P. Samjdar and Navjeet Bagga won the Best Paper Award in CCSN-2020 held in Kolkata India



### Dr. Pankaj Sharma

- Indian National Science Academy (INSA) Visiting Scientist Fellowship 2021, to Dr. Pankaj Sharma at IISc Bangalore.



### Dr. Dinesh Kumar Vishwakarma

- Nominated as expert member in PDR of Development of Radar Signal Seeker for Rudra M-II Missile Director General (ECS), DRDO Govt. of India.

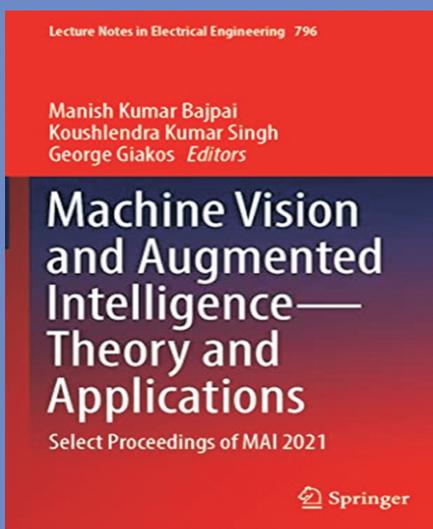
## LA DISCIPLINE



### Dr. Mamta Anand

- 18th International FAHSS Conference at Singapore, awarded Best Research Paper for 'Literature for brain and mind development' 11 Dec., 2019 FAHSS Singapore
- 32nd Istanbul International Conference on 'Music, Literature, Humanities and Social Sciences', awarded the Best Research Paper Award to Ms. Aiswarya Gopi and Dr. Mamta Anand for the paper entitled Exploring Trajectories of Mind - Body medicine: A Study on the Essays of Swami Vivekananda and Deepak Chopra' on 17th December 2021.

## 2. Monument of books



### CSE DISCIPLINE

DR. MANISH KUMAR BAJPAI,  
KOUSHLENDRA KUMAR SINGH,  
GEORGE GIAKOS

“Machine Vision and Augmented  
Intelligence—Theory and  
Applications”

Authors Press : Springer

ISBN : 978-981-16-5077-2, 2021

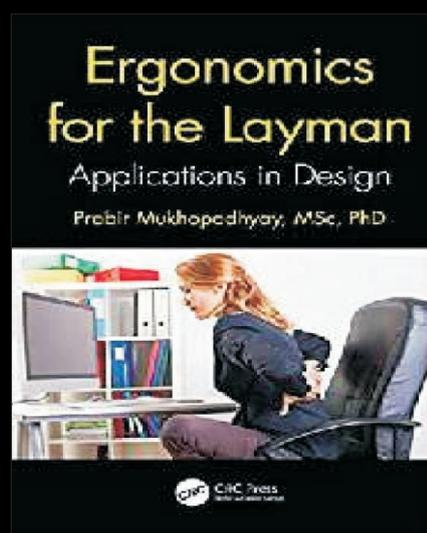
### DESIGN DISCIPLINE

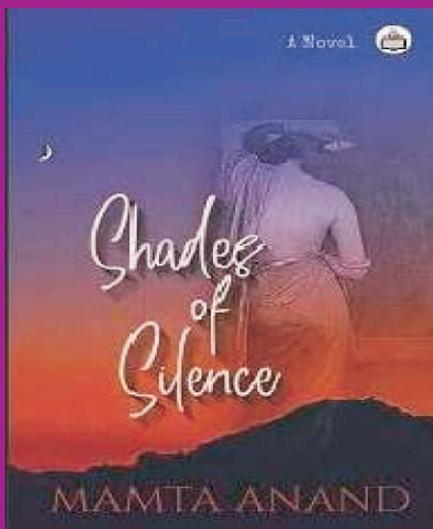
DR. PRABIR MUKHOPADHYAY

**Ergonomics for the Layman  
Applications in Design (Book)**

2019  
CRC Press

ISBN : 9780367334994





**LA DISCIPLINE**

**DR. MAMTA ANAND**

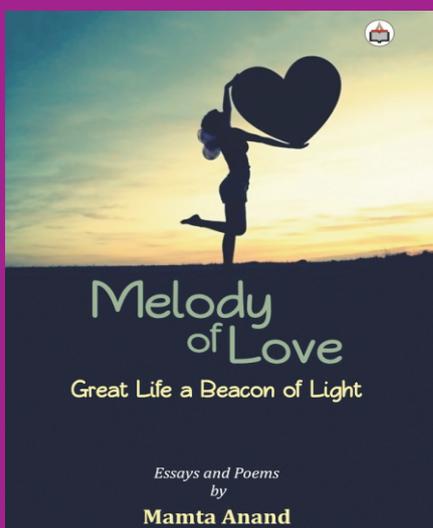
**SHADES OF SILENCE**

A NOVEL

2019

AUTHORS PRESS, New Delhi

ISBN : 9788126910922



**LA DISCIPLINE**

**DR. MAMTA ANAND**

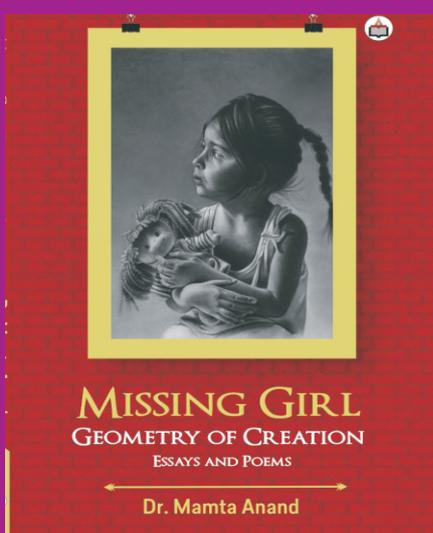
**Melody of Love**

Essays and Poems

2021

AUTHORS PRESS, New Delhi

ISBN : 9789390588008



**LA DISCIPLINE**

**DR. MAMTA ANAND**

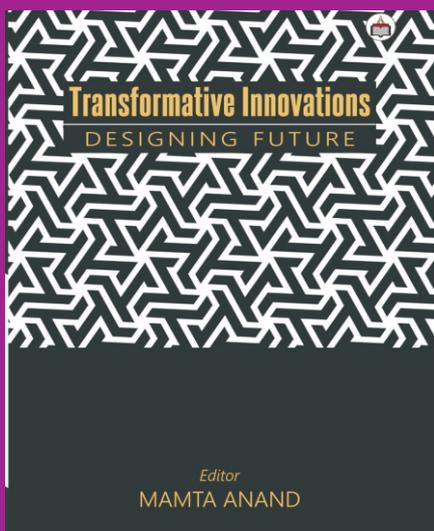
**Missing Girl**

Essays and Poems

2021

AUTHORS PRESS, New Delhi

ISBN : 9789390588435



**LA DISCIPLINE**

**DR. MAMTA ANAND**

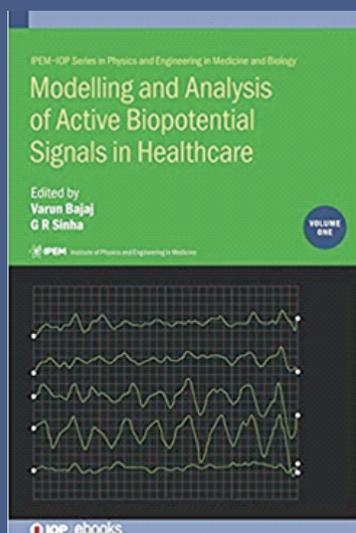
**Transformative Innovations**

Designing Future

2021

AUTHORS PRESS, New Delhi

ISBN : 9789390588237



**ECE DISCIPLINE**

**DR. VARUN BAJAJ  
(EDITOR)**

**Modelling and Analysis of Active  
Biopotential Signals in  
Healthcare**

IOP, E-book

**DR. VARUN BAJAJ AND  
GR SINHA (EDITORS)**

CRC Taylor & Francis Group

**Computer-aided Design and Diagnosis  
Methods for Biomedical  
Applications,**

**DR. VARUN BAJAJ AND  
GR SINHA (EDITORS)**

CRC Taylor & Francis Group

**Analysis of medical modalities for  
improved diagnosis in modern  
healthcare**

**DR. VARUN BAJAJ, GR SINHA  
& CHINMAY CHAKRABORTY  
(EDITORS)**

CRC Taylor & Francis Group

**Biomedical Signal Processing for  
Healthcare Applications, Series:  
Emerging Trends in Biomedical  
Technologies and Health informatics**

**DR. VARUN BAJAJ AND  
GR SINHA (EDITORS)**  
Elsevier

Artificial Intelligence based Brain  
Computer Interface

**DR. VARUN BAJAJ AND  
GR SINHA (EDITORS)**  
IOP Series in Physics and  
Engineering in Medicine and Biology

Modelling and Analysis of Active  
Biopotential Signals in Healthcare  
Volume-2

**PROF, VIJAY KUMAR GUPTA  
P.V. VARDE, N.S. JOSHI &  
P.K. KANKAR**  
INCRS 2018 Springer

Reliability and Risk Assessment  
in Engineering Proceedings  
of INCRS.

**PULAK M PANDEY, SANDEEP  
RATHEE, MANU SRIVASTAVA,  
PROF. PRASHANT K JAIN  
(Eds.)**  
ISBN: 9780367483814

Functionally Graded Materials (FGMs) :  
Fabrication, Properties, Applications, and  
Advancements



## 3. Canals of Journals & Conference Publications

SCI & SCOPUS Journal and Conference Publications. Faculty of the Institute have published a total of 878 papers in Journals Conference Publications are 513.

## 4. Creative Convenor

### CSE Discipline

#### Dr. Manish Kumar Bajpai

- Coordinator, FDP, Network Security, 2019
- Co- Coordinator, FDP, Soft Computing and Its Applications, 2020
- Finance Chair, ISEC 2020
- Coordinator, One Month Training Program, Artificial Intelligence and its Applications, 2020
- Convener, International Conference on “Machine Vision and Augmented Intelligence (MAI)”, 2021
- Co- Coordinator, FDP, Reinforcement Learning and Its Applications, 2021
- Global Joint Principal Coordinator, FDP, RISC Architecture Design, 2021

#### Dr. Kusum Kumari Bharti

- Coordinator, FDP, Python Programming, 2020
- Coordinator, FDP, Data Science for All, 2020
- Coordinator, FDP, Natural Language Processing, 2020
- Coordinator, One Month Training Program, Artificial Intelligence and its Applications, 2020
- Coordinator, FDP, Reinforcement Learning and It's Applications, 2021
- Finance Chair, International Conference on “Machine Vision and Augmented Intelligence (MAI)”, 2021

#### Dr. Neelam Dayal

- Coordinator, FDP, Emerging Trends in Networking, 2019
- Coordinator, FDP, Cybersecurity for Internet of Things, 2021

#### Prof. Atul Gupta

- Coordinator, FDP, Scientific Computing with Python, 2019
- Coordinator, FDP, Introduction to Programming: A Pedagogical Approach – NKN, 2019
- Coordinator, FDP, Python Programming with Industry Perspective – NKN, 2019
- Coordinator, FDP, Machine Learning and Its Applications (LNCT), 2019
- Coordinator, FDP, Introduction to Machine Learning and Data Engineering (SGSITS), 2019
- Coordinator, FDP, Database and Algorithms (SGSITS), 2019
- Workshop Chair, 12th Innovations in Software Engineering Conference (ISEC 2020), 2019
- General Chair, 13th Innovations in Software Engineering Conference (ISEC 2020), 2020
- Coordinator, FDP, ICT Tools (NKN), 2020

- Global Joint Principal Coordinator, FDP, Data Science for all, 2020
- Global Principal Coordinator, FDP, Python Programming, 2020
- Global Joint Principal Coordinator, FDP, Data Science for all, 2021
- Global Principal Coordinator, FDP, Python Programming, 2021

### Dr. V. K. Jain

- Co-Coordinator, One Week FDP, Cybersecurity for IoT Networks, 2021
- Organizing Committee Co-chair, ISEC2020 (13th Innovations in Software Engineering Conference)

### Prof. Pritee Khanna

- Conference Convener, Sixth IAPR international conference on Computer vision & image processing (CVIP 2021)
- Conference Convener, Fifth IAPR international conference on Computer vision & image processing (CVIP 2020)
- Convener, Self-Defense by Mr. Amit Das, Black Belt and Weapon Trainer of Security Guards, 2020
- Convener, "Handling Common Woman Gynaecological Problems" by Dr. Neena Shrivastava, 2020
- Convener, An Interactive session on "How to handle Violence against Women" by Ms. Jahnvi, Lawyer, M.P. High Court, 2021.
- Convener, Talk on "Entrepreneurship and a Birdseye view of the Startup Ecosystem" fro a Woman Entrepreneur Mr. Preeti Chaudhary, Founder of LinkedIn Local India, Venrire Partner, mentor, speaker, 2021.

### Dr. Sraban Kumar Mohanty

- Coordinator, DeW 2019

### Prof. Aparajita Ojha

- Convener, Healthcare Innovations during COVID Outbreak, 2021
- Convener, COVID-19 : Do's and Don'ts, 2021,
- Convener, Machine Learning for Computer Vision, 2021
- Convener, Block chain Technology and Applications, 2020
- Convener, Artificial Intelligence: Logic, Planning and Learning for Controller Design
- Convener, Human Centered Robotics
- Convener, Quantum Computing
- Convener, Demystifying 5G for ASIC, 2020
- Convener, Deep Learning for Computer Vision, 2020
- Convener, Artificial Intelligence & Deep Learning, 2020
- Convener, Machine Learning for Computer Vision, 2020
- Convener, Deep Learning and Applications, 2019
- Convener, Artificial Intelligence & Deep Learning, 2019

### Dr. Ayan Seal

- Track Chair, COMSYS2020, 2020

### Dr. Munesh Singh

- Coordinator, FDP, Technical Writing and Publishing with Advanced Computer Tools, 2019

## ECE Discipline

### Dr. Irshad Ahmad Ansari

- Faculty Development Programme, Deep Learning and Applications

### Dr. Matadeen Bansal

- Short Term Course, "Recent Advances in 5G Communication Systems"

### Prof. Prabin Kumar Padhy

- Workshop, Advancements in Signal Processing and Optimization Techniques

### Dr. Pankaj Sharma

- FDP, 5G Design: Journey from Devices to Circuits

### Dr. Dinesh Kumar Vishwakarma

- National Innovation Contest
- PR workshop, IPR workshop on Innovation and Patentability Criteria

## ME Discipline

### Dr. Mohd. Zahid Ansari

- Programming and Algorithm Development for Research Applications Using MATLAB (PAD-RAM), March 6-10, 2019, E&ICT Academy, IIITDM Jabalpur, 6/3/2019 - 10/3/2019

### Prof. Vijay Kumar Gupta

- Short Term Program, NKN course on Embedded Systems & Interfacing hands-on, Electronics and ICT Academy, IIITDM Jabalpur, IIITDM Jabalpur and three other institute, 10/06/19 - 14/06/19
- FDP on Evolution of Internet of Things for Industry, Electronics and ICT Academy, IIITDM Jabalpur, Mechanical Engineering Department Shri Sant Gajanan Maharaj College of Engineering (SSGMCE) Shegaon, 10/12/2019 - 14/12/19
- FDP on "Robotics and Automation", Electronics and ICT Academy, IIITDM Jabalpur, SAGE University Indore, 13/01/20 - 17/01/20
- FDP on Robotics & AI, Electronics and ICT Academy, IIITDM Jabalpur, IIITDM Jabalpur and ten other institute, 24/06/19 - 28/06/19
- FDP and Karyashala on "Social Robotics and AI", SERB and ICT Academy IIITDM Jabalpur, Online, 28/06/2021 - 04/07/2021

### Prof. Prashant K. Jain

- FDP, One week Faculty Development Programme on "Programming and Algorithm Development for Research Applications Using MATLAB (PAD-RAM)", Electronics and ICT Academy, IIITDM Jabalpur, March 6, 2019 - March 10, 2019
- One week Faculty Development Programme on "Evolutionary Optimization Techniques in Research and its Applications with MATLAB" (with Dr. Rajeev Chouhan, GGITS Jabalpur), Electronics and ICT Academy, IIITDM Jabalpur, December 17, 2019 - December 21, 2019
- AICTE (QIP) Sponsored Short Term Course on "Biomedical Applications of Additive Manufacturing

using Medical Image Processing (BAAM-MIP)", Mechanical Engineering Department, PDPM Indian Institute of Information Technology, Design and Manufacturing Jabalpur, Jabalpur, March 7, 2020 - March 11, 2020

- Two Week Global Online Summer FDP as co-principal coordinator on "Advanced Optimization Techniques and Hands on With MATLAB/SCILAB" Supported by, Jointly organized by seven Electronics & ICT Academies, MNIT Jaipur, IIT Guwahati, IIT Roorkee, IIT Kanpur, IIITDM Jabalpur, NIT Patna and NIT Warangal, Ministry of Electronics and Information Technology (MeitY), Govt. of India, MNIT Jaipur, July 13, 2020 - July 24, 2020
- Organized Two Week Global Online Summer FDP as Academy level coordinator on "ICT Tools for Teaching, Learning process & Institutes", Ministry of Electronics and Information Technology (MeitY), Govt. of India, August 10, 2020 - August 21, 2020
- Organized Two Week Global Online winter FDP as Academy level coordinator on "ICT Tools for Teaching, Learning process & Institutes", Ministry of Electronics and Information Technology (MeitY), Govt. of India, March 15, 2021 - March 26, 2021
- Organized Two Week Global Online Summer FDP as Joint Principal Coordinator on "Advanced Optimization Techniques and Hands on With MATLAB/SCILAB", Ministry of Electronics and Information Technology (MeitY), Govt. of India, September 6, 2021 - September 17, 2021
- Organised High end workshop "Karyashala" under accelerate vigyan scheme on "High end workshop on DoE, Material characterization and advanced Manufacturing techniques" (with Dr. Manu Srivastava), DST SERB, Mechanical Engineering Department, PDPM Indian Institute of Information Technology, Design and Manufacturing Jabalpur, Jabalpur, September 20 - 2021, September 26, 2021
- Organized Two Week Global Online Summer FDP as Principal coordinator on "MATLAB Programming for Additive Manufacturing and 3D Printing (MPAM)", Ministry of Electronics and Information Technology (MeitY), Govt. of India, Jabalpur, September 20, 2021 - October 1, 2021

### Dr. Ponappa K and Prof. Puneet Tandon

- Short Term Program, Near net shape process for metallic and Bio-compatible materials the smart manufacturing approach, AICTE, PDPM Indian Institute of Information Technology, Design and Manufacturing, Jabalpur, India, 2/3/2020 - 6/3/2020

### Dr. Shivdayal Patel

- INVICTA-2020, Anual Technical Fest, IIITDM Jabalpur, IIITDM Jabalpur, 30/01/2020 - 1/2/2020
- INVICTA-2020, IoT with Cloud Computing Workshop, IIITDM Jabalpur, IIITDM Jabalpur, 30/01/2020 - 1/2/2020
- INVICTA-2020, 3D Printing Workshop, IIITDM Jabalpur, IIITDM Jabalpur, 30/01/2020 - 1/2/2020
- INVICTA-2020, Design Workshop, IIITDM Jabalpur, IIITDM Jabalpur, 30/01/2020 - 1/2/2020
- FDP, Finite Element Practice and Applications, E&ICT Academy, IIITDM Jabalpur, 06/04/2019 - 10-04-2019

### Prof. Tanuja Sheroy

- FDP on MechatronicsTEQUIP, RGPV, Online mode, 25th July, 2020 - 27th July 2020
- V Lab Workshop, TEQIP, Online mode, June 26th, 2020 - June 27th, 2020
- V Lab Dissemination Workshop, MIT, Jaipur, 15th February, 2019

- Workshop, Bio Entrepreneurship, DIC, IIITDMJ and Bio incubator, IIT Kanpur, IIITDMJ, 27th March, 2019

### Dr. Manu Srivastava

- High end workshop on DOE, "Material characterization and advanced manufacturing techniques, SERB, IIITDM Jabalpur, 20/09/2021 - 26/09/2021

### Prof. Puneet Tandon

- Workshop, AICTE (QIP) Sponsored Short Term Course, Coordinator, on Near Net Shape Processes for Metallic and Biocompatible Materials - The Smart Manufacturing Approach, PDPM IIITDM Jabalpur, March 02, 2020 - March 06, 2020

## LA Discipline

### Dr. J.Al. Muzzamil Fareen

- An online All India council for Technical Education (AICTE) Teaching and Learning (ATAL) sponsored FDP on Personal Effectiveness has been organized and conducted on 23-27 August 2021 at PDPM Indian Institute of Information Technology, Design & Manufacturing, Jabalpur.



# Student Our Lighting Lamps!

An educational Institution is the womb of a nation, where the spirit of Humanity is served. This might be seen as the best offering a nation and a society can make to the humanity. Students of PDPM IIITDMJ have made their Institute, proud of their various accomplishments by contributing to the growth of the Institute by engaging in various co-curricular activities. They run many clubs like, Jagriti, Robotics, Literary and dramatics club etc.

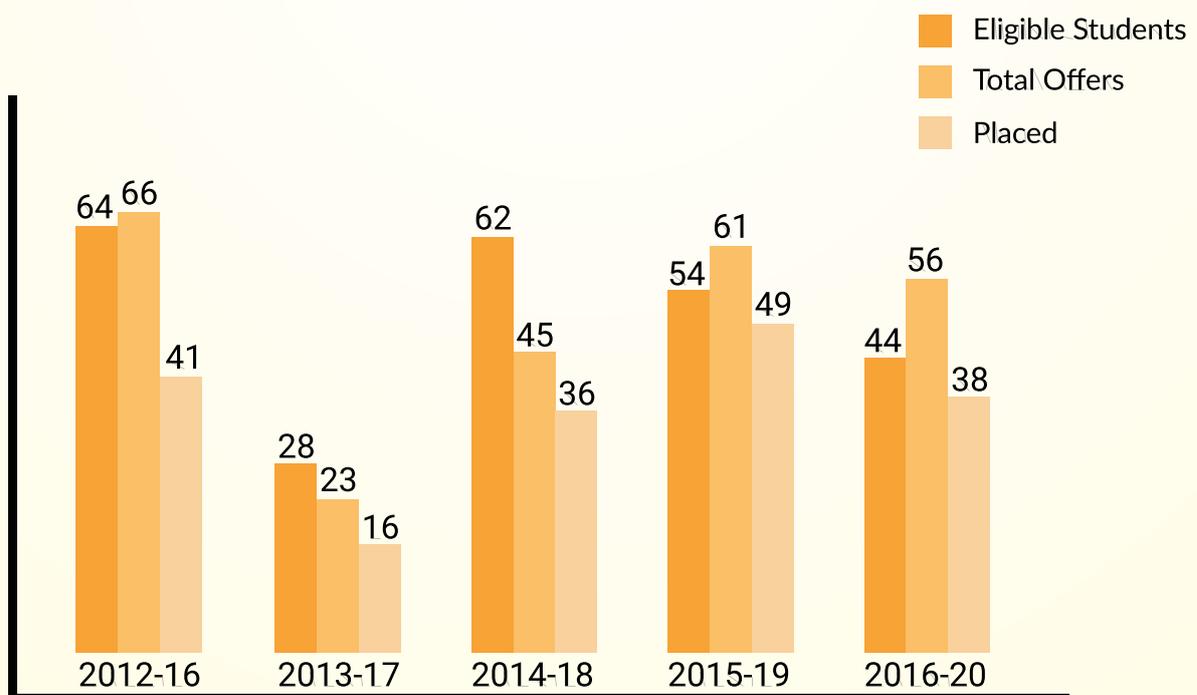
Academically they have been star performers in various arenas of life and activities for a living. Many of them occupy higher echelons of firms managements, several of them have found their genius sprouted in securing degrees from higher educational institutions of global acclaim. Many have ventured for competitive exams and have found respect for their talents.

Above all, the students in their hearts retain the spirit of serving the society through their education obtained at PDPM IIITDMJ.

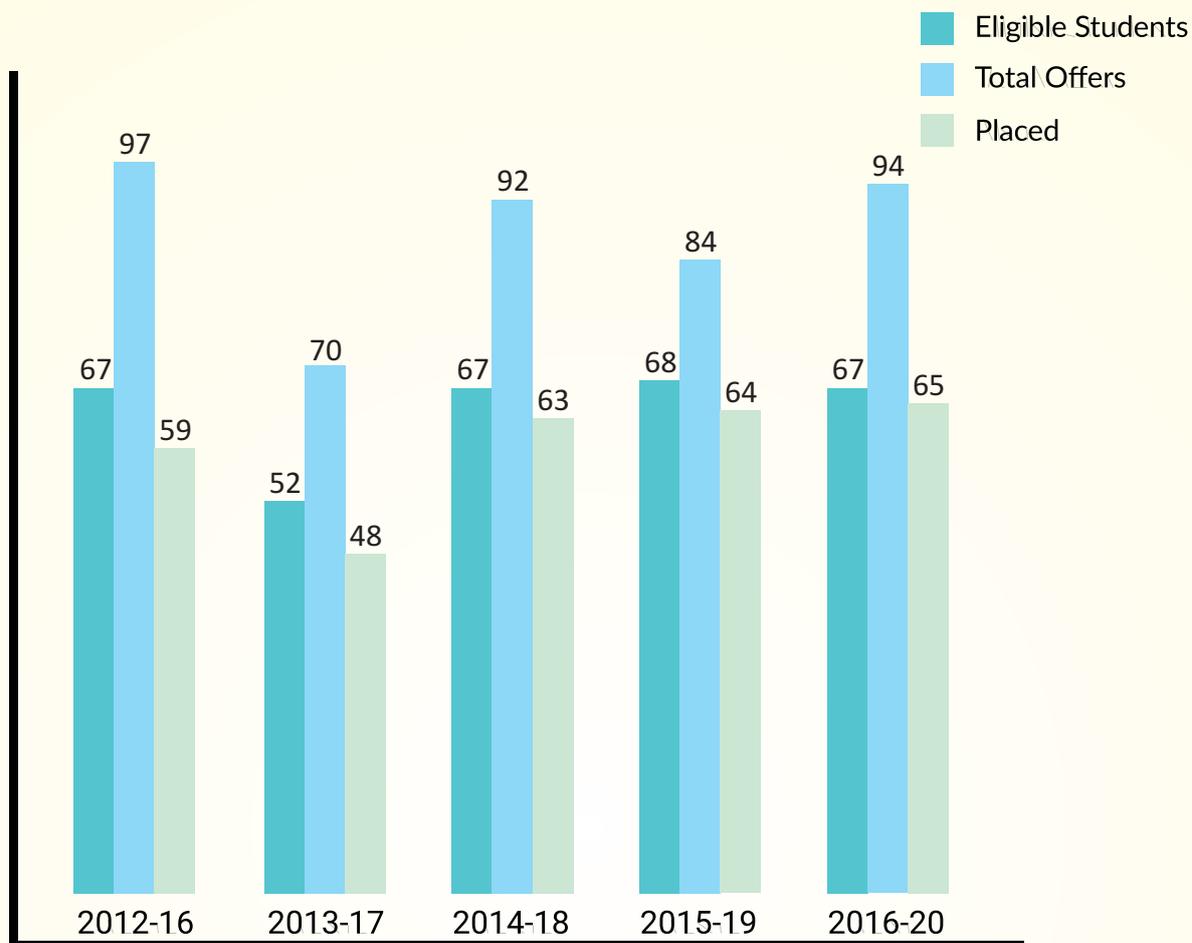
Truly, they are our ambassadors, the LIGHTING LAMPS!

A placement data of the students is given here,

## ECE DISCIPLINE



## CSE DISCIPLINE



## DESIGN DISCIPLINE

**Ravindra Singh**  
 Design Department,  
 Delhi  
 Technical University

**Amaltas Khan**  
 National Institute of  
 Design,  
 Amrawati

**Dhanjay Singh Bist**

Design Department,  
National Institute of  
Technology,  
Rourkella.

**Piu Sarkar**

Design Department :  
Banasthali University  
2014  
Assistant Professor

**Neha Karmakar**

Srishti Institute of  
Art, Design and  
Technology  
2016  
Teaching Faculty

**Asmita Biswas**

Avantika University,  
School of design  
2019  
Assistant Professor

**Rajat Akre**

Avantika University  
2019  
Assistant Professor

**Shrut T Gopi**

FTP University,  
Vietnam  
2019  
Assistant Professor



Ayushi Gupta  
 (Team Lead)  
 Yallaling Naik  
 Subin Krishna  
 Muskan Kataria

**Best Design**

UX India (2019)

Yagnesh Gohil  
 Aseem Saini  
 Lovish Bandwal

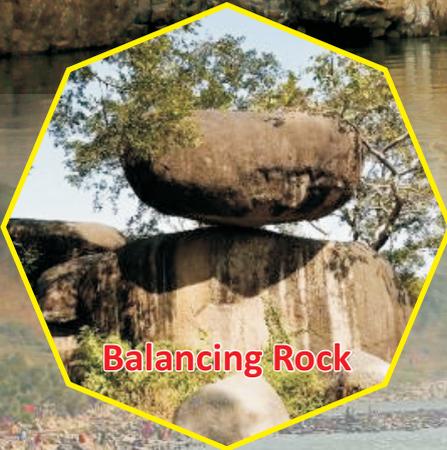
**Winner in track  
 G intersecionality**

MIT hacking for racism in  
 healthcare  
 (2020)





# Marble Rocks



Balancing Rock



Bargi Dam

# Dhuandhar Bhedaghat

