

# 2020 - 2021 ANNUAL REPORT & ACCOUNTS

**INDIAN INSTITUTE OF INFORMATION TECHNOLOGY  
DESIGN AND MANUFACTURING KURNOOL**

Jagannathagattu, Kurnool,  
Andhra Pradesh, India- 518 007.

Phone : +91 - 8518 289114  
Fax : +91 - 8518 289127  
Email : office@iiitk.ac.in

 iiitk.ac.in  
 /iiitdm\_kurnool  
 /iiitdm\_kurnool



## INSTITUTE VISION AND MISSION

**Vision of the Institute:** To become a center of excellence pioneering in education, research & development, and the best in Design & Manufacturing. To become the epicenter of path-breaking innovations and novel ideas in Information Technology enabled Design and Manufacturing. To create an eco-friendly environment with state-of-the-art equipment where research and scholarship flourish in tandem, and where the leaders of a new tomorrow emerge.

**Mission of the Institute:** To work towards realizing our vision and become the torch-bearer of 'higher learning' in the field of Information Technology enabled Design & Manufacturing. To foster research, innovation and provide ample scope for outreach and leadership programs among students and faculty alike, thereby creating cutting-edge technologies and avant-garde technologists on par with the global standards.

**Charter:** To carry out unparalleled advanced research and development activities in Information Technology enabled Design and Manufacturing related technologies. To design, adapt and adopt suitable pedagogy for enhanced 'higher learning'. To excel and stand out in the field of Information Technology enabled Design and Manufacturing by contributing towards knowledge-building and nation-building both exquisitely and on the basis of consultation.



### Director's Message

In order to realize the aforementioned vision and mission of the Institute, an ideal Design Ecosystem with modern curricula apt for the 21<sup>st</sup> century knowledge economy came into being. Efforts were put in with the aim of integrating various engineering streams under one umbrella. Furthermore, this umbrella would emerge to be a gangplank necessary to bridge the gap between industries and academia. The Indian Institute of Information Technology, Design and Manufacturing, Kurnool (IIITDMK) is an Institute which was set up to build a model Design Ecosystem, for which I am beholden to the MoE formerly known as the MHRD and the Government of India for bestowing me with this opportunity and responsibility to materialize their vision into a living reality, by serving as the founding Director.

I assumed charge in the month of February - 2019, and numerous challenges were laid ahead of me straight away. The Institute was in the nascent stages of development, having scope for immense and untapped potential. The foundation of an academic Institute depends on three factors, the duty to provide holistic education in addition to quality research (At IIITDMK, a new age digital research in order to provide comprehensive growth in a relatively new area of information technology) and a secure environment for faculty, students and representing industry bodies to live in harmony.

The boon and bane of the institution is the location of the Institute. IIITDMK is located at a hill top, named Jagannthagattu, it has a scenic view and the eco-friendly environment provides peaceful and pollution free atmosphere positively impacting education and research. I took it upon myself to address the issue of providing a secure environment, by speeding up and completing the construction of structural facilities such as hostels and dining hall. The campus is being strategically developed and personnel were hired to provide round the clock security to our students and faculty, in addition to having a doctor on campus from

a reputed hospital. Advanced facilities such as having a pharmacy on campus, an ambulance in case of emergency, providing hygienic and nutritious meals in the mess for students, providing transport assistance are few of the notable short term achievements. I believe this has laid a strong foundation and an ideal blue-print for greater things in the near future.

To address the learning curve, faculty have been hired from reputed institutes (Top National Institutional Ranking Framework - NIRF ranking Institutes and Universities) who have contributed to the surge of synergy in this design oriented ecosystem. The Institute strives to maintain mutually beneficial relationships and partnerships with various industries by hiring individuals associated with reputed industries as visiting faculty. This established a balance between the industrial setting and academics, all the more benefitting the students. These efforts have created a unique place for IIITDMK amongst the 'Institutions of National Importance' and as time progresses, the gaps pertaining to academics will be slowly but surely filled. State-of-the-art Laboratory facilities are operative and cross majors are highly encouraged at our Institute in order to equip the students to progress onwards at a faster rate and gradually decrease the trend of specialization in an individual branch of engineering and make a shift towards a holistic learning and multi-disciplinary expertise as proposed by the NEP 2020.

The Institute's Training and Placement cell, despite having to face difficulties like fewer number of students when compared to other Institutes and the geographical location of the Institute, is competing with already established Institutes with a higher number of students. Overcoming all the odds owing to the dedication, sincerity and combined efforts of the faculty and students alike the placements percentage is increasing steadfastly. The innovative and specifically designed Curricula being taught at IIITDMK is being welcomed by the industrial bodies in the same way as the competitive and hardworking spirit of the

students is being appreciated and encouraged.

The teaching and learning process at the Institute is collaborative and synergic. The students are encouraged to take ownership and create efficient models to address the real time issues being faced locally and globally, and offer effective solutions in the field of information technology enabled design and manufacturing. The ideas of the students are brought to life through an innovation centre established in the campus named "Kurnool Innovation Technology and Entrepreneurship (KITE)" in collaboration with industry experts. The fundamental aim of research being carried out at the Institute is to be novel, qualitatively on par with global standards and interdisciplinary. I envision IIITDMK to be a guiding light in the field of Information Technology enabled Design and Manufacturing and will relentlessly endeavour to build the Institute par excellence in all the aspects required.

At IIITDMK we are highly motivated, committed and under a pledge to create a sustainable environment which promotes enhanced nurturing, progressive higher learning and character building of the students. Our motto is to build a better future for our nation through dedicated, confident, positive, skilled and world class intellectuals who by putting in their efforts will lead India to a better dawn.

## INDEX

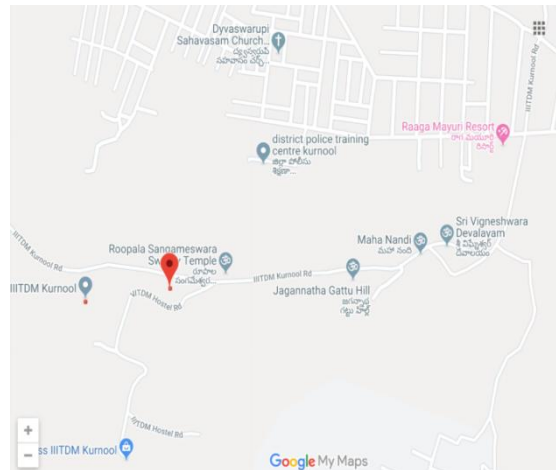
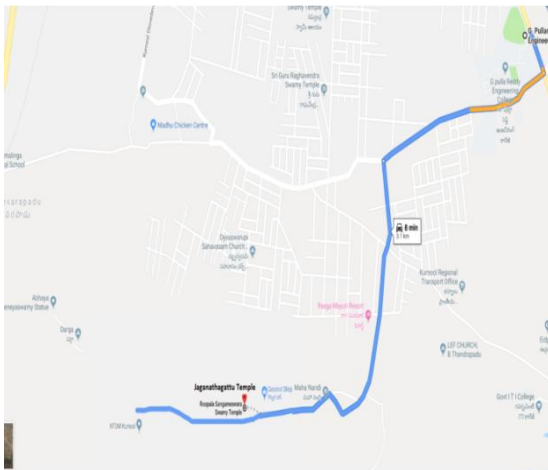
S. No.	TITLE	Page No.
1	INTRODUCTION	6
2	BOARD OF GOVERNORS	7
3	ADMINISTRATIVE, ACADEMIC STATUTORY BODIES AND OTHER COMMITTEES	9
	3.1 Senate	9
	3.2 Finance Committee	11
	3.3 Building and Works Committee	12
	3.4 Anti-Ragging Committee	13
	3.5 Internal Complaints Committee (ICC) under Sexual Harassment of Women at Workplace	14
4	FACULTY AND NON-TEACHING STAFF DETAILS	14
	4.1 Teaching Staff Details	14
	4.2 Non-teaching Staff Details	22
5	RESEARCH AND DEVELOPMENT ACTIVITIES	26
	5.1 Journal Publications	26
	5.2 Conference Publications	27
	5.3 Sponsored Research Projects	27
	5.4 Research Guidance	28
	5.5 Innovation	28
	5.6 Campus Development: Building/Construction/Expansion	29
6	ACADEMIC PROGRAMMES OFFERED	35
	6.1 Bachelor's Programmes	35
	6.1.1 B. Tech in computer engineering	35
	6.1.2 B. Tech in electronics and communication engineering with specialization in design and manufacturing	36

<b>S. No.</b>	<b>TITLE</b>	<b>Page No.</b>
	6.1.3 B. Tech in mechanical engineering with specialization in design and manufacturing	36
	6.1.4 B. Tech in Artificial Intelligence and Data Science	36
	6.1.5 Design and Innovation Centric Engineering Curriculum	36
	6.2 Admission Statistics (B.Tech.)	37
	6.3 Master's Programmes	39
	6.3.1 M.Tech. - Computer Science and Engineering with specialization in Data Analytics and Decision Sciences	39
	6.3.2 M.Tech. - Electronic System Design	39
	6.3.3 M.Tech. - Smart Manufacturing	40
	6.3.4 Design & Innovative Centric Engineering Curriculum	40
7	STUDENTS AND SCHOLARSHIP DETAILS	41
	7.1 Admission Details	41
	7.2 Scholarships for SC/ST /OBC/PWD/GEN students	41
8	LABORATORIES	54
	8.1 Mechanical and Manufacturing Laboratory	54
	8.2 Thermal Laboratory	56
	8.3 Mechanical Design Laboratory	57
	8.4 VLSI Laboratory	59
	8.5 Digital Logic Design Laboratory	62
	8.6 Electrical Drives and Sensor Instrumentation Laboratory	64
	8.7 Internet of Things (IOT) Laboratory	66
	8.8 Computer Science and Engineering Lab	67
	8.9 Physics Laboratory : Fundamentals of Science	67
9	CENTRAL FACILITIES AND SERVICES	72

<b>S. No.</b>	<b>TITLE</b>	<b>Page No.</b>
	9.1 Central Library	72
	9.2 ATM Facility	75
	9.3 Health Centre	75
	9.4 Cafeteria:	78
10	NOTABLE ACHIVEMENTS	78
	10.1 MoUs signed	78
	10.2 Student and Faculty Achievements:	79
	10.3 Faculty Development Programmes	80
11	FINANCIAL STATISTICS	
12	AUDIT REPORT AND ANNUAL ACCOUNTS	

# 1. INTRODUCTION

Indian Institute of Information Technology, Design and Manufacturing (IIITDM), Kurnool is the youngest among the five centrally funded IIITs and was established by the Ministry of Education as part of 'Andhra Pradesh Reorganization Act' in the academic year 2015-16. The Institute is located in the historical city of Kurnool in the Rayalaseema region. IIITDM and has been recognized as an 'Institution of National Importance' by an act of the Parliament. At present, the Institute is functioning from its permanent campus at Jagannathagattu, Dinnedevrapadu, Kurnool, and Andhra Pradesh.



Location Map of Indian Institute of Technology, Design and Manufacturing, Kurnool, Andhra Pradesh, India.



**Existing Campus**



**Proposed Campus**




The campus is being developed in the allocated area of 190 acres for its construction on the hilltop located at Jagannathagattu, Kurnool city, adjacent to the Nandyal – Kadapa highway. The construction was initiated in 2016 and is expected to be completed by the year 2022 in all aspects. As part of this action plan, the central public works department (CPWD) took up the construction activity for two hostel blocks to accommodate 350 students and a mess block completed by

the end of the year 2019. Higher Education Financing Agency (HEFA) has sanctioned INR 218 crores for ongoing and future construction activities on campus. An agreement with HEFA and MoU with CPWD was signed on 30th August 2019 and 16th September 2019 respectively.








The Institute has initially started its academic programs through B. Tech. in the streams of Computer Science Engineering (CSE), Electronics and Communication Engineering (ECE) and Mechanical Engineering (ME). The current intake stands at 180 students per academic year and the total strength is 511 students. The institute started M. Tech. programmes related to emerging technologies from the academic year 2020-21. Department of CSE is offering M. Tech. in Data Analytics and Decision Sciences, Department of ECE is offering M. Tech. in Electronic System Design, while Department of ME is offering M. Tech. programme in Smart Manufacturing. The present intake in each of the course is 15. Also, all the departments are offering Ph.D. programmes.



Currently 20 regular faculty members, 12 Visiting/Guest/Contract faculty, and 12 non-teaching staff (supporting staff) are catering to the academic and administrative activities of the Institute. All our faculty members are Ph.D. holders from reputed institutes. In addition to providing facilities like medical, house-keeping, security, transportation and other allied services, personnel were hired through an external agency to create a safe and hygienic environment.

## 2. BOARD OF GOVERNORS

S. No.	Photographs	Description
1	 <b>Chairperson</b>	<b>Prof.H.A. Ranganath,</b> <b>MSc, Ph.D., FASCL, FNASCL, FNAI, FISEB</b> <b>Distinguished Professor of Mysore University (For Life)</b> <b>(Former Vice-Chancellor, Bangalore University;</b> <b>Former Director, NAAC)</b>
2	 <b>Member</b>	<b>Shri Satish Chandra, IAS</b> <b>Special Chief Secretary, AP Govt.</b> <b>Department of Higher Education</b> <b>Andhra Pradesh</b>
3	 <b>Member</b>	<b>Shri Rakesh Ranjan, Ias</b> <b>Addl. Charge of IITs/IIITs.</b> <b>Department of Higher Education,</b> <b>Ministry of Education,</b> <b>Govt. of India</b>







S. No.	Photographs	Description
4	 <b>Member</b>	<b>Dr Jaideep Kumar Mishra. Ph.D.</b> <b>Joint Secretary and Group Coordinator</b> <b>Ministry of Electronics and Information Technology</b> <b>(MEITY),</b> <b>Govt. of India</b>
5	 <b>Member</b>	<b>Prof. K. N. Satyanarayana, Ph.D.</b> <b>Director-Indian Institute of Technology-Tirupathi</b> <b>Tirupathi, Andhra Pradesh.</b>
6	 <b>Member</b>	<b>Prof. M. Chandrasekhar, Ph.D.</b> <b>Director</b> <b>Indian Institute of Management</b> <b>Vishakhapatnam, Andhra Pradesh.</b>
7	 <b>Member</b>	<b>Prof. Banshidhar Majhi, Ph.D.</b> <b>Director,</b> <b>Indian Institute of Information Technology,</b> <b>Design and Manufacturing</b> <b>Kancheepuram, Tamilnadu.</b>
8	 <b>Member</b>	<b>Shri. Venkata Narasimham Peri</b> <b>Founder &amp; CEO</b> <b>Cognitive care</b> <b>Hyderabad, Telangana</b>
9	 <b>Member</b>	<b>Prof. N V Ramana Rao, Ph.D.</b> <b>Director,</b> <b>National Institute of Technology</b> <b>Warangal, Telangana</b>
10	 <b>Member</b>	<b>Smt. Sashi Sairaman</b> <b>CEO,</b> <b>MTAB</b> <b>Chennai, Tamilnadu</b>
11	 <b>Member</b>	<b>Prof. D. Janakiram</b> <b>Professor of Computer Science and Engineering</b> <b>Indian Institute of Technology</b> <b>Madras, Tamilnadu</b>









S. No.	Photographs	Description
12	 Member	<b>Prof. Aparajitha Ojha, Ph.D.</b> <b>Professor of Computer Science &amp; Engineering</b> <b>Indian Institute of Information Technology,</b> <b>Design and Manufacturing-Jabalpur, Madhya Pradesh.</b>
13	 Member & Secretary	<b>Prof D V L N Somayajulu, Ph.D.</b> <b>Director &amp; Registrar I/c</b> <b>Indian Institute of Information Technology</b> <b>Design and Manufacturing-Kurnool</b> <b>Kurnool, Andhra Pradesh.</b>






### 3. ADMINISTRATIVE, ACADEMIC STATUTORY BODIES AND OTHER COMMITTEES:

The different administrative, academic statutory bodies and other committees constituted in the institute are given below:

#### 3.1 Senate:

S. No.	Photographs	Description
1	 Chairman	<b>Prof. D V L N Somayajulu, Ph.D.</b> Director Indian Institute of Information Technology Design and Manufacturing- Kurnool Kurnool, Andhra Pradesh.
2	 Member	<b>Prof. N V S N Sarma, Ph.D.</b> Director Indian Institute of Information Technology, Srirangam Tiruchirappalli, Tamil Nadu.
3	 Member	<b>Prof. P V Madhusudhan Rao, Ph.D.</b> Department of Mechanical Engineering Indian Institute of Technology Delhi
4	 Member	<b>Prof. Kamalakar Karlapalem, Ph.D.</b> Professor International Institute of Information Technology Hyderabad

S. No.	Photographs	Description
5	 Invitee	<b>Dr. J. Krishnaiah, Ph.D.</b> Associate Professor and Head Dept. of Mechanical Engineering Indian Institute of Information Technology Design and Manufacturing Kurnool, Andhra Pradesh.
6	 Invitee	<b>Dr. Mohamed Asan Basiri M., Ph.D.</b> Assistant Professor and Head, Dept. of Electronics and Communication Engineering Indian Institute of Information Technology, Design And Manufacturing, Kurnool
7	 Member	<b>Dr. D. Murali, Ph.D.</b> Faculty In-charge (Accounts) Indian Institute of Information Technology Design and Manufacturing Kurnool, Andhra Pradesh
8	 Member	<b>Prof. P. Shankar, Ph.D.</b> Dept. of Electrical Engineering, Indian Institute of Technology-Delhi Delhi
9	 Member	<b>Prof. C Krishna Mohan, Ph.D.</b> Dept of Computer Science & Engineering Indian Institute of Technology-Hyderabad Hyderabad, Telangana
10	 Member	<b>Prof. A Venu Gopal, Ph.D.</b> Professor of Mechanical Engineering National Institute of Technology- Warangal Warangal, Telangana
11	 Member	<b>Prof. V N Sastry, Ph.D.</b> Professor Industrial Development and Research in Banking Technology Hyderabad, Telangana
12	 Member	<b>Prof. Vijay Kumar Gupta, Ph.D.</b> Professor of Mechanical Engineering Indian Institute of Information Technology, Design And Manufacturing, Jabalpur Jabalpur, Madhya Pradesh.



S. No.	Photographs	Description
13	 Member	<b>Prof. R B V Subramanyam, Ph.D.</b> Professor of Computer Science & Engineering National Institute of Technology-Warangal Warangal, Telangana
14	 Member	<b>Dr. P Anjaneyulu, Ph.D.</b> Infosys Technologies Ltd. Bangalore, Karnataka.
15	 Member	<b>Dr N Saratchandra Babu, Ph.D.</b> Director SET Labs Chennai, Tamil Nadu.
16	 Member	<b>Smt. Deepthi Lakkaraju</b> Director Qualcomm Hyderabad Telangana
17	 <b>Secretary</b>	<b>Prof. D V L N Somayajulu, Ph.D.</b> Director Indian Institute of Information Technology Design and Manufacturing Kurnool, Andhra Pradesh

### 3.2 Finance Committee:

S. No.	Photographs	Description
1	 Chairperson	<b>Prof. H. A. Ranganath,</b> M.Sc., Ph.D., FASc., FNASc., FNA., FISEB Distinguished Professor (for life) of University of Mysore (Former Vice Chancellor, Bangalore University; Former Director, NAAC), Karnataka.
2	 Member	<b>Shri. Prashant Agrawal, Director (IITs)</b> Dept. of Higher Education Ministry of Education Government of India Delhi.
3	 Member	<b>Shri. Anil Kumar</b> Director (Finance) Dept. of Higher Education Ministry of Education Government of India Delhi.

4	 Member	<b>Shri. S. Goverdhan Rao</b> Registrar National Institute of Technology-Warangal, Warangal, Telangana.
5	 Member	<b>Prof. Y. Narasimhulu, Ph.D.</b> Director (ASCI) University of Hyderabad Hyderabad, Telangana.
6	 Member	<b>Prof. D V L N Somayajulu, Ph.D.</b> Director Indian Institute of Information Technology Design and Manufacturing Kurnool, Andhra Pradesh
7	 Member	<b>Dr. D. Murali, Ph.D.</b> Faculty In-charge (Accounts) Indian Institute of Information Technology Design and Manufacturing Kurnool, Andhra Pradesh
8	 Special Invitee	<b>Shri. A. Chidambaram</b> Joint Registrar (Accounts) Indian Institute of Information of Technology Design and Manufacturing, Kancheepuram, Tamil Nadu

### 3.3 Building and Works Committee:

S. No.	Photographs	Description
1	 Chairman	<b>Prof. D V L N Somayajulu, Ph.D.</b> Director Indian Institute of Information Technology Design and Manufacturing Kurnool, Andhra Pradesh
2	 Member	<b>Prof. N. V. Ramana Rao, Ph.D</b> Director National Institute of Technology- Warangal Warangal, Telangana.

3	 Member	<b>Dr. M. Nithyadharan Ph.D.</b> Dept. of Civil Engineering Indian Institute of Technology-Tirupathi. Tirupathi, Andhra Pradesh.
4	 Member	<b>Prof. T D G Rao, Ph.D.</b> Dept. of Civil Engineering National Institute of Technology- Warangal Warangal, Telangana.
5	 Member	<b>Prof. V. Thiruvengadam</b> Professor School of Planning and Architecture - New Delhi Delhi
6	Member	<b>Shri. B. S. Reddy</b> Superintendent Engineer (Electrical) Central Public Works Department (CPWD)-Hyderabad Division Hyderabad, Telangana.
7	 Member	<b>MR. G.K. Vijayanand</b> Consultant Civil Engineer, IIITDM Kurnool Kurnool, Andhra Pradesh

#### 3.4 Anti-Ragging Committee:

1	Chairperson	Prof. DVLN Somayajulu, Director, IIITDM, Kurnool
2	Convenor	Prof. DVLN Somayajulu, Registrar I/c, IIITDM, Kurnool
3	Co-ordinator	Dr. Akhtar Khan, Assistant Professor, IIITDM Kurnool
4	Member	Dr. D. Murali, Assistant Professor, HoD, Sciences, IIITDM Kurnool
5	Member	Dr. P. Renjith, Assistant Professor, HoD, CSE, IIITDM Kurnool
6	Member	Dr. M. Mohamed Asan Basiri, Assistant Professor, HoD, ECE, IIITDMK
7	Member	Dr. K. V. Eswaramoorthy, Assistant Professor, IIITDM, Kurnool

8	Member	Dr. Ravinder Katta, Assistant Professor, IIITDM Kurnool
15	Member	One Representative from District Admin
16	Member	One Representative from Police Admin
17	Member	One Representative from Local Media
18	Student Member	Mr. Piyush Raote
19	Student Member	Ms. Divya Srivastava

### 3.5. Internal Complaints Committee (ICC) under Sexual Harassment of Women at Workplace

1	Chairperson	Dr. R. Praneetha Sree
2	Member	Ms. Pranava Devi, IIITDM Kurnool
3	External Member	Dr. A Vimala Rodhe, Head, Microbiology, Silver Jubilee College, Kurnool.
4	Member	Dr. Akhtar Khan, Assistant Professor, Dept. of ME, IIITDM, Kurnool

## 4. STAFF DETAILS



### 4.1 Teaching staff:

#### a) Department of Computer Science & Engineering:

S. No	Photographs	Description
1		<p><b>Prof. D.V.L.N. Somayajulu, (Ph.D., IIT Delhi)</b></p> <p>Professor &amp; Director</p> <p><b>Areas of Interest:</b> Databases, Information Extraction, Query Processing, Big Data and Privacy</p>





2		<p><b>Dr. Renjith P. (Ph.D., IIITDM Kancheepuram)</b></p> <p>Assistant Professor</p> <p><b>Areas of Interest:</b> Graph Theory, Graph Algorithms</p>
3		<p><b>Dr. Preeth R. (Ph.D., NIT Tiruchirappalli)</b></p> <p>Assistant Professor</p> <p><b>Areas of Interest :</b> Internet of Things, Network Security, Foreground Segmentation</p>
4		<p><b>Dr. R. Praneetha Sree (Ph.D., NIT Warangal)</b></p> <p>Assistant Professor</p> <p><b>Areas of Interest:</b> Data Mining, Machine Learning, Data analytics, Data Sciences, Databases.</p>
5		<p><b>Dr. Shounak Chakraborty, (Ph.D., IIIT Guwahati)</b></p> <p>Assistant Professor</p> <p><b>Areas of Interest:</b> Artificial neural networks, remote sensing, pattern recognition and image processing.</p>
6		<p><b>Mr. Sreenivasulu Saya</b></p> <p>Visiting Faculty</p> <p><b>Areas of Interest:</b> Web Technologies, Open Source Technologies, Software Defined Networking, Computer Architecture and Software Engineering Tools</p>




7		<p><b>Dr. Anjaneyulu Pasala, (Ph.D., IIT Madras)</b></p> <p>Adjunct Professor</p> <p><b>Areas of Interest:</b> Machine Learning, Data analytics, Social Networks, AR/VR, Cloud engineering, Software Engineering, Software testing, Entrepreneurship.</p>
8		<p><b>Dr. Sri Kumar, Ph.D. (NIT Warangal)</b></p> <p>Visiting Faculty</p> <p><b>Areas of Interest:</b> Software Engineering, Databases, Software Architectures</p>




**b) Department of Electronics & Communication Engineering**

S. No.	Photographs	Description
1		<p><b>Dr. Mohamed Asan Basiri (Ph.D., IIITDM Kancheepuram)</b></p> <p>Assistant Professor</p> <p><b>Areas of Interest:</b> VLSI for Signal Processing, VLSI for Information Security</p>
2		<p><b>Dr. K. Krishna Naik, Ph.D. (JNTUA Anantapur)</b></p> <p>Assistant Professor</p> <p><b>Areas of Interest:</b> Wireless and Mobile Communications and Adhoc Networks, Software Defined Radio/Cognitive Radio, Global Navigation Satellite Systems, Underwater Communication</p>

3		<p><b>Dr. Eswaramoorthy K V (Ph.D., IISc Bangalore)</b> Assistant Professor</p> <p><b>Areas of Interest:</b> Non-invasive monitoring of body fluids, Electrochemical biosensor and gas sensor, Biomedical Instrumentation &amp; Industrial Automation, Internet of Things (IoT) for Agriculture, manufacturing industry and Smart City</p>
4		<p><b>Dr. Valluri Siva Prasad, Ph.D. (NIT Warangal)</b> Assistant Professor</p> <p><b>Areas of Interest:</b> Wireless communication, Software defined radio, MIMO, Visible light systems, Physical layer design.</p>
5		<p><b>Dr. Yaswanth K.N.G.B, (Ph.D., IIT Madras)</b> Assistant Professor</p> <p><b>Areas of Interest:</b> Inverse Problems in Electromagnetics, Computational Electromagnetics, Non-destructive Evaluation, RFIC/MMIC Design, Antenna Design.</p>
6		<p><b>Dr. Jayaram Reddy M.K., (Ph.D., NIT Surathkal)</b> Ad-Hoc Faculty</p> <p><b>Areas of Interest:</b> Analog and mixed signal circuit design</p>

7		<p><b>Dr. Prahlada Rao B.B., Ph.D. (IISc Bangalore)</b></p> <p>Adjunct Professor</p> <p><b>Areas of Interest:</b></p> <p>AI, ML, Cloud Computing, Grid Computing, Software/Tools, Development for Parallel Computing, EDA/VLSI Optimization, Algorithms, Evolutionary Computing, and Genetic Algorithms.</p>
---	---	--





**c) Department of Mechanical Engineering:**

S. No.	Photographs	Description
1		<p><b>Dr. J. Krishnaiah, (Ph.D., IIT Kharagpur)</b></p> <p>Associate Professor &amp; HoD</p> <p><b>Areas of Interest:</b></p> <p>Applied Research and Development on data-driven systems to support industrial / business requirements in modeling, controlling and optimization based on Predictive Modeling, Advanced Control Techniques, Non-traditional Optimization, Pattern Recognition, Data mining, Information Retrieval, Document Classification, Analytics, Segmentation, Clustering &amp; Classification, Image Processing, Handwritten/Optical Character Recognition.</p>
2		<p><b>Dr. Akhtar Khan (Ph.D., NIT Rourkela)</b></p> <p>Assistant Professor</p> <p><b>Areas of Interest:</b></p> <p>Machining of “difficult-to-cut” materials, Machine Tool Technology, Optimization Methods in Engineering Design (Single and Multi-Objective), Design of Experiments, Multi-Criteria Decision Making.</p>
3		<p><b>Dr. Pullarao Muvvala (Ph.D., IIT Madras)</b></p> <p>Assistant Professor</p> <p><b>Areas of Interest:</b></p> <p>Heat Transfer and Fluid Flow (Experimental and Computational), Electronic cooling, Optimization studies</p>

4		<p><b>Dr. Maniprakash S (Ph.D., TU Dortmund, Germany)</b></p> <p>Assistant Professor</p> <p><b>Areas of Interest:</b> Continuum Mechanics, Constitutive Modelling, Smart Materials</p>
5		<p><b>Dr. C. Chandrasekhara Sastry, Ph.D. (Anna University CEG, Chennai)</b></p> <p>Assistant Professor</p> <p><b>Areas of Interest:</b> Conventional Machining; Non Traditional Process: Thrust area: AWJM, EDM, ECM, EBM; Nano Composite Coating; Mechanical Strengthening Mechanisms; Additive Manufacturing; Peening (Laser/Shot); Flux Machining.</p>
6		<p><b>Dr. Vipindas K., (Ph.D., NIT Calicut)</b></p> <p>Assistant Professor</p> <p><b>Areas of Interest:</b> Conventional machining, Metal cutting, Micro machining, Micro end milling, Micro turning, Machining of composites, Surface texturing</p>
7		<p><b>Dr. R. Srilakshmi (Ph.D., IIT Hyderabad)</b></p> <p>Assistant Professor (On Contract)</p> <p><b>Areas of Interest:</b> Finite element analysis, Damage mechanics of composites, Computational Fracture mechanics.</p>

**c) Department of Sciences:**

S. No	Photographs	Description
1		<p><b>Dr. D. Murali (Ph.D., IGCAR, Kalpakkam)</b></p> <p>Assistant Professor &amp; HoD</p> <p><b>Areas of Interest:</b> Computational condensed matter, ab-initio electronic structure calculations, Photovoltaic effect in perovskite based solar cells, phonon transport, solid oxide fuel cells, nanostructure evolution in structural materials</p>
2		<p><b>Dr. Ravinder Katta (Ph.D., IIT Roorkee)</b></p> <p>Assistant Professor</p> <p><b>Areas of Interest:</b> Mathematical Control Theory, Inverse Problems, Ill posed operator equations and Regularization Theory.</p>
3		<p><b>Dr. T. Pandiyarajan, Ph.D. (Physics, NIT, Tiruchirappalli)</b></p> <p>Assistant Professor</p> <p><b>Areas of Interest:</b> Optical nanomaterials, Bioactive nanostructured materials, Thin film fabrication, Raman spectroscopy, Photocatalysis</p>
4		<p><b>Dr P. V. Prakash Madduri, Ph.D. (Physics, Central University, Hyderabad)</b></p> <p>Assistant Professor</p> <p><b>Areas of Interest:</b> Magnetism at nanoscopic and mesoscopic length scales / Core-Shell nanoparticles, Magnetic Skyrmions &amp; Antiskyrmions / Magnetic excitations and Magnonics / Magnetotransport in bulk and nano materials / Ferromagnetic Resonance studies / Magnetic Refrigeration</p>

5		<p><b>Dr. Nittala Noel Anurag Prashanth, Ph.D. (English, EFLU, Hyderabad)</b></p> <p>Assistant Professor</p> <p><b>Areas of Interest:</b> Curriculum, Syllabus Designing and Materials Production, English as a Second Language (ESL), English for Specific Purposes (ESP), Medium of Instruction and Language Policy.</p>
6		<p><b>Prof. ACHARYA G R K</b></p> <p>Professor</p> <p><b>Areas of Interest:</b> Fluid Mechanics; Bio-Fluid Mechanics; Heat and Mass Transfer</p>
7		<p><b>Dr. Pappu Kousalya, Ph.D. (Mathematics, JNTUK Kakinada)</b></p> <p>Visiting Faculty</p> <p><b>Areas of Interest:</b> Probability Theory, Design for Quality and Reliability</p>
8		<p><b>Dr. Satya Kamal Chirauri, Ph.D. (Physics, AKNU, Rajamahendravaram / BARC Mumbai)</b></p> <p>Ad-Hoc Faculty:</p> <p><b>Areas of Interest :</b> Solid State Devices</p>
9		<p><b>Dr. Buchepalli Venkateswarlu, Ph.D. (Physics, IIT Madras)</b></p> <p>Ad-Hoc Faculty:</p> <p><b>Areas of Interest:</b> Electromagnetics Theory</p>





10		<p><b>Prof. V. Siva Rama Krishnaiah, Ph.D.</b> <b>(Management, IIT Delhi)</b></p> <p>Adjunct Faculty</p> <p><b>Areas of Interest:</b> Entrepreneurship and Management Functions, Software Project Management, Soft Skills, Knowledge Management, Professional Ethics and Human Values</p>
----	---	---



#### 4.2 Non-Teaching Staff

<b>(a) Administration Staff:</b>		
1		<p><b>Mr. Venkateswara Rao Dara</b></p> <p><b>Junior Superintendent</b></p> <p><b>(Administration)</b></p>
2		<p><b>Mr. Pradeep Kumar B.</b></p> <p><b>Junior Superintendent</b></p> <p><b>(Finance &amp; Accounts)</b></p>
3		<p><b>Mrs. A. Srivalli</b></p> <p><b>Junior Superintendent</b></p> <p><b>(Academics)</b></p>

4		<p><b>Mr. Konduru Vishnuvardhan Raju</b>  <b>Junior Assistant</b>  <b>(Administration)</b></p>
5		<p><b>Mr. Jeejula Charukesh</b>  <b>Junior Assistant</b>  <b>(Academic)</b></p>
<b>B) Central Library Staff :-</b>		
6		<p><b>Mr. Ashkar K.</b>  <b>Junior Superintendent</b>  <b>(Library)</b></p>
7		<p><b>Miss. V. Lakshmi Varsha</b>  <b>Junior Technician</b>  <b>(Library)</b></p>
<b>C) Engineering and Maintenance Unit staff :</b>		



8		<p style="text-align: center;"><b>Mr. Mahankali Sreenath</b> <b>Junior Engineer</b> <b>(Civil)</b></p>
9		<p style="text-align: center;"><b>Mr. Eeram Krishna Murthy</b> <b>Junior Engineer</b> <b>(Electrical)</b></p>
10		<p style="text-align: center;"><b>G.K Vijayanand</b> <b>Consultant (on contract)</b> <b>(Civil Engineer)</b></p>
<b>D) Technical Staff:</b>		
11		<p style="text-align: center;"><b>Mr. Mirza Hyder Ali Baig</b> <b>Junior Technical Superintendent</b> <b>(Stores &amp;Purchase)</b></p>

12	 A portrait of a man with dark hair and a mustache, wearing a blue and white checkered button-down shirt.	<p><b>Mr. P. Rosaiah</b> <b>Junior Technician</b> <b>(Electronics and Communication Engineering)</b></p>
13	 A portrait of a man with dark hair, wearing a light blue button-down shirt.	<p><b>Mr. D. Raviteja</b> <b>Junior Technician</b> <b>(Mechanical Engineering)</b></p>

## **Contract Staff:**

1		<b>E. Venkateswarlu</b> <b>Senior Network Administrator</b>
2		<b>Dr. K. Geetha Niharika</b> <b>Doctor</b> <b>Health Centre</b>
3		<b>Sandeep Dasaka</b> <b>Training and Placement Coordinator-Part Time</b> <b>Training and Placement Cell</b>

## **5 RESEARCH AND DEVELOPMENT ACTIVITIES**

### **5.1 Journal Publications**

IIITDM Kurnool is inclined towards research and encourages its faculty to participate actively in their research work in addition to their teaching responsibilities. The list of journal publications and conferences attended by the faculty of this institute during the academic year 2020-21 is as follows:-

#### **Journal Publications from July 1st 2020 to June 30th 2021**

(1) T. Praveena Gopinath, J. Prasanna, C. Chandrasekhara Sastry, Sandeep Patil. Experimental investigation of the electrochemical micro machining process of Ti-6Al-4V titanium alloy under the influence of magnetic field. Materials Science-Poland (2021).(SCI).

- (2) P.V. Prakash Madduri and S.N. Kaul, "In-field critical behavior and magnetocaloric effect in Ni<sub>5</sub>Al<sub>3</sub>/NiO nanoparticle compacts", Journal of Alloys and Compounds, Vol 870 pg 59388, (2021). (SCI)
- (3) Midhula V, Preeth Raguraman, and Mohan R, "A Fully Residual Convolutional Neural Network for Background Subtraction", Pattern Recognition Letters, Vol. 146, Pages: 63-69, 2021. (SCI).
- (4) Goutham Murari V.P., Selvakumar G., and Chandrasekhara Sastry C, "Experimental Investigation of Wire-EDM Machining of Low Conductive Al-SiC- TiC Metal Matrix Composite", Metals, No. 9 (2020) : 1188, pp. 2: 1-31. (SCI)
- (5) Ch. Satya Kamal, R. K. Mishra, K. Ramachandra Rao, Bal Govind Vats, M. V. Pimple, R. K. Vatsa, V. Sudarsan, "Influence of Ge<sup>4+</sup> doping on photo- and electroluminescence properties of ZnGa<sub>2</sub>O<sub>4</sub>", Journal of Alloys and Compounds, vol 853, Sep. 2020.(SCI)
- (6) Mohamed Asan Basiri M, "Efficient VLSI Architectures of Lifting based 3D Discrete Wavelet Transform", IET Computers and Digital Techniques, Vol. 14, no. 6, pp. 247-255, Oct. 2020. (SCI)

## **5.2 Conference Publications from July 1st 2020 to June 30th 2021**

- (1) Lasya Ganapathi, Krushitha Reddy Thumukuntla, R.K. Mishra, V. Sudarsan, and Satya Kamal Chirauri, Alternating Current Electroluminescence Device Guided for Lowering the Blood Pressure, IEEE International Conference on Recent Trends on Electronics, Information, Communication & Technology, pp. 93-97, Nov. 2020.
- (2) Hariveer Inumarty and Mohamed Asan Basiri M, "Reconfigurable Hardware Design for Polynomial Galois Field Arithmetic Operations", 24th IEEE International Symposium on VLSI Design and Test, July 2020, IIT Bhubaneswar.

## **5.3 Sponsored Research Projects from July 1st 2020 to June 30th 2021**

- (1) Project title: Real-time Intelligent System Design for Secured Digital Communication  
 PI: Dr. MA Basiri M  
 Funding Agency: c3iHub, IIT Kanpur  
 Total Budget: Rs. 20 Lakhs  
 Status: Accepted
- (2) Project title: Density Functional Theory (DFT) Guided Novel Material Design for Efficient Solar Energy Harvesting: A Case Study in Shift Current Bulk Photovoltaic Effect in Non-Centrosymmetric Materials  
 PI: Dr. Murali D, Assistant Professor, Department of Sciences, IIITDM Kurnool  
 Funding Agency: DST-SERB  
 Total Budget: Rs. 6.6 Lakhs  
 Status: Ongoing
- (3) Project title: WearGeM - Wearable for continuous Glucose Monitoring using Microneedle Assisted Reverse Iontophoresis  
 PI: Dr. Eswaramoorthy K.V, Assistant Professor, Dept. of ECE, IIITDM Kurnool  
 Funding Agency: DST-SERB

Total Budget: Rs. 12.76 Lakhs  
Status: Ongoing

(4) Project title: Electrostatic Spray and CVD Based Textured and Solid Lubricated cBN-TiAlN-Graphene Coatings for Cutting Tools

Co-PI: Dr. Vipindas K, Assistant Professor, Department of Mechanical Engineering, IIITDM Kurnool

Funding Agency: DST-SERB (Core Research Grant)

Total Budget: Rs. 43.60 Lakhs

Status: Ongoing

(5) Project title: Understanding the charge dynamics in heterogeneous photo-electro-catalytic water splitting with femtosecond in-situ time-resolved X-ray absorption spectroscopy

PI: Dr. Amaranatha Reddy, INSPIRE faculty, Dept. of Sciences, IIITDM Kurnool

Funding Agency: DST-Inspire, GoI

Total Budget: Rs. 35 Lakhs

Status: Ongoing

#### 5.4 Research Guidance

Doctoral (Ph.D.) programme registrations have been carried out successfully, and quality research is given importance addressing industrial problems in Mechanical, Electronics and Computer Science Divisions.

#### 5.5 Innovation

As per the Institute's Vision and Mission, the Innovation road map was laid down soon after a brain storming session among the stake holders and with assistance from Industry expert(s). The following FOUR Objectives were identified:

- i) **First Objective** is to trigger the innovative mindset among the Faculty and Students to explore beyond the Curriculum and Syllabus. Talks by experts and Workshops are to be organised towards realizing this goal.
- ii) **Second Objective** is to set up a Centre of Excellences (CoEs) in the emerging areas such as Industry 4.0, IoT, and Electric Vehicles. In order to provide support and assistance for the same, Technical training in these respective topics are to be arranged by bringing in Industry experts as per the plan. Teams are to be formed in each of these CoEs to bring all the stake holders onto one platform and preparing them to address the Industry needs and problems.
- iii) **Third Objective** is to use CoE as strong foundation, to set up Research & Consulting group in order to take up the challenging Research and Development (R&D) work. Two MoUs were signed towards realizing this goal.
- iv) **Fourth Objective** is to set up Technology Incubation & Entrepreneurship (TIE) centre in the campus for the students to experience Entrepreneurship mind set and mould them to be successful entrepreneurs in the immediate future and contribute to nation building.

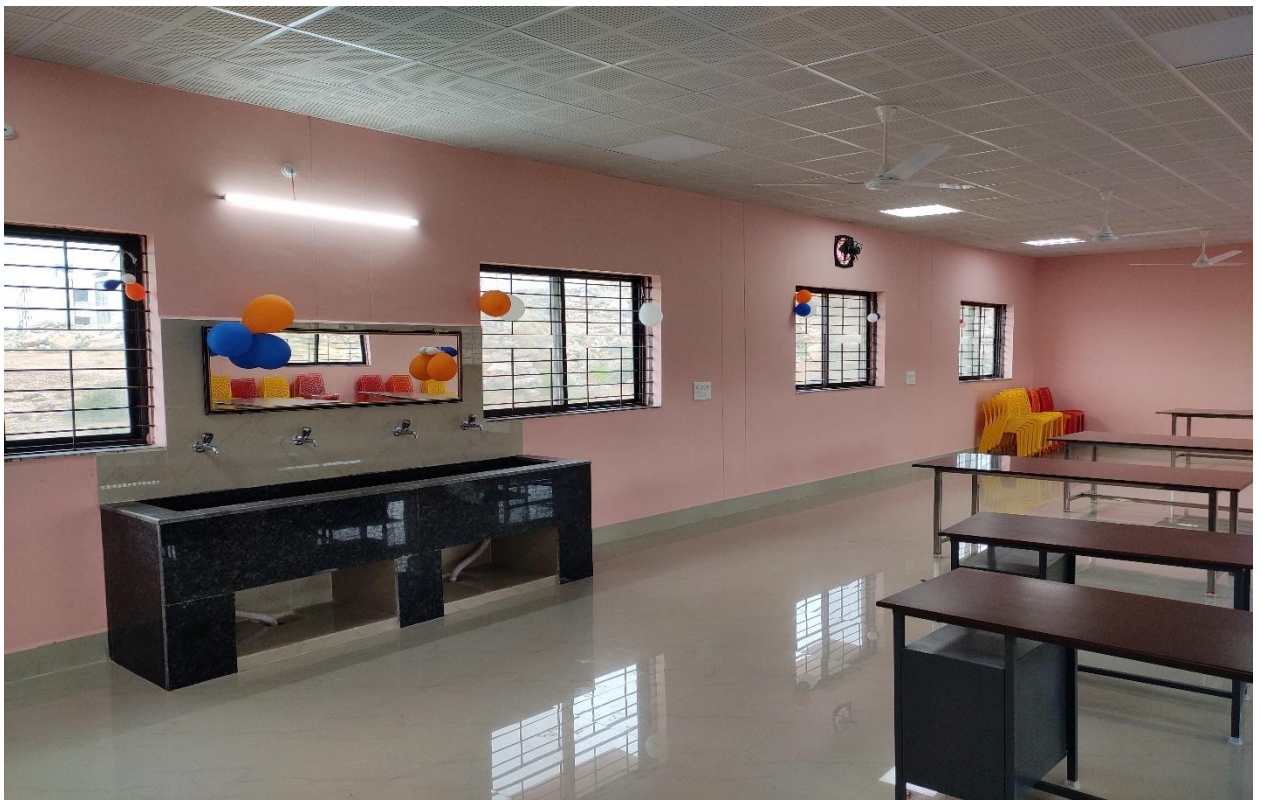
IIITDMK is planning to set up a TIE Centre by seeking support from MeitY as part of TIDE 2.0 Program. In addition, the Institute has identified a dedicated Faculty-in-Charge, to work towards connecting with the Industry and implement all the above four Goals strategically, by leveraging the strengths of the Faculty and Students.

## **5.6 Campus Development: Building/Construction/Expansion**

### **5.6.1. Dining Hall for Girls:**

In the academic year 2020-21, a separate Dining Hall for Girls has been constructed beside Kalpana Chawla Hall of Residence for Girls. Dining Hall can accommodate dining for more than 100 students at a time.







Inauguration of Dining Hall by Director, Prof. DLVN Somayajulu, on 30<sup>th</sup> December, 2020

### **5.6.2. Aryabatta Sopanani Path:**

‘Aryabatta Sopanani Path’ which is a connecting pathway from existing academic block to Hostels was constructed this year. The pathway was constructed with wide spacing having street lights along the pathway. It helps students to walk from hostels to academic block and vice versa at any time instead of bus facility.





### **5.6.3. IIITDM Permanent Campus:**

The construction of permanent campus of IIITDM Kurnool has been initiated in the month of March, 2021 and is expected to be completed by December, 2022. IIITDM Kurnool's master plan proposals have secured 5 Star Rating in GRIHA (Green Rating for Integrated Habitat Assessment).



**GREEN RATING FOR INTEGRATED HABITAT ASSESSMENT**

*Indian Institute of Information Technology, Design & Manufacturing  
Kurnool, Andhra Pradesh*

*has been awarded with a*

**'Five Star'**

*rating under*

**GRIHA Pre-Certification**



*Date of Issue: 15<sup>th</sup> September 2020*

  
*Chief Executive Officer  
GRIHA Council*

Note : Precertification has been awarded based on documentation provided by project team in compliance with the requirements of GRIHA. Any change in the specifications shall be intimated to GRIHA Council. Pre-certification is valid only as per report attached with subsequent compliance to GRIHA.

Pre-Certification from GRIHA – 5Star Rating



Bhoomi Puja of IIITDM Permanent Campus by Director Prof. DLVN Somayajulu in the month of March 2021.

#### **5.6.4. Hostel Block 7B:**

Along with the construction of permanent campus, Hostel block 7B beside Hill Top Dining Hall has been initiated and additional work is going on in the IIITDM campus in coordination with CPWD.

## **6. ACADEMIC PROGRAMMES:**

This section provides details about the undergraduate programmes offered, along with their year wise Enrolment with gender, caste break-up, admission statistics, student's total strength, scholarships/monetary assistance and examination results.

### **6.1 Bachelor's programmes**

#### **6.1.1 B. Tech in Computer Engineering**

B. Tech. in Computer Science and Engineering curriculum is modelled on the ACM (Association for Computing Machinery) recommendations and is the first of its kind engineering program offered in India. This program is aimed at producing engineers equipped with skills required for efficient hardware-software interaction. The program encompasses a variety of topics related to computation, analysis of algorithms, programming languages, program design, software, and computer hardware. In addition to courses offered by the conventional Computer Science curriculum, this novel program offers core courses such as Embedded Systems, Human-Computer Interaction, Simulation and Modelling, Signals and Systems, Product Design, etc., that equip the students with both computing and electronics engineering skills that are very much required for the successful creation of products requiring hardware – software interactions. Our graduates would find wide scope in VLSI, Embedded Systems and Electronics Product Manufacturing related industries in addition to application development avenues and higher studies that are open to conventional Computer Science engineers.

#### **6.1.2 B. Tech in Electronics and Communication Engineering with specialization in Design and Manufacturing**

Today's electronic product design and development requires skilful blend of expert hardware and software engineering together with a spirit of creativity and innovation that is also tempered by the practical concerns of manufacturability, cost consciousness and reliability. The Electronics and Communication Engineering with specialization in Design and Manufacturing curriculum is designed to provide advanced theoretical and practical training of all aspects relevant to the design, development, and production of modern electronic systems and subsystems. The Electronics and Communication

Engineering with specialization in Design and Manufacturing (EDM) program prepares you for a wide range of engineering study and career options, including business, Biomedical Engineering, Computer Hardware, Aerospace Industry, Computer Software, Nanoelectronic chips, Photonics, Nanoengineering, Robotics, and Solar Energy Harvesting and Distribution.

### **6.1.3 B. Tech in Mechanical Engineering with specialization in Design and Manufacturing**

Mechanical Engineering with specialization in Design and Manufacturing (MDM) offered by IIITDM Kurnool augments the existing Mechanical Engineering curricula offered by IITs by offering design courses on conceptualization, visualization, and engineering simulations. Equipped with well-structured instruction and learning resources and research facilities, the institute aims to disseminate education in the inter-disciplinary areas of design and manufacturing engineering.

Design visualization imparted through graphic art practice and product design practice enables students to conceptualize, design, simulate and develop tangible products. Students undergo interdisciplinary courses such as embedded systems, instrumentation, controls, automation and advanced manufacturing technology that will help them to design and develop innovative engineering products. Students can choose courses among electives and pursue their interests. The program offers a blend of courses that impart knowledge on design thinking and interdisciplinary engineering in addition to basic sciences.

### **6.1.4 B. Tech in Artificial Intelligence and Data Science**

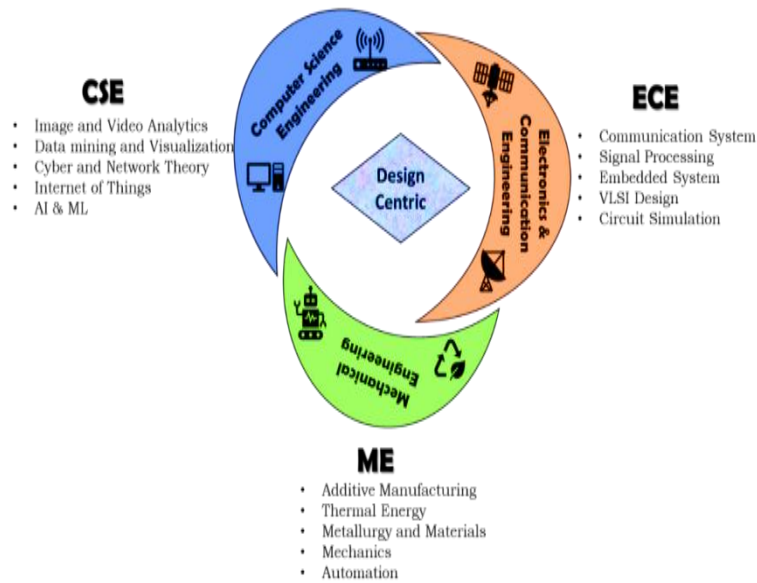
B.Tech. in Artificial Intelligence and Data Science is the most sought after degree programme with a curriculum specifically designed to nurture future-ready Artificial Intelligence and Data Science professionals. Expert members from academia and industry have provided inputs in introducing specialized courses in the curriculum to suit the in-demand, industry-relevant skills. To further enhance the quality of the programs, the department has academic collaborations with several Industrial Experts who are working in some of the prestigious companies across the world.

### **6.1.5 Design & Innovation Centric Engineering Curriculum**

The institute is currently offering design centric undergraduate programmes in the following four disciplines with intake of 50 students in each programme from 2020. In the Academic year 2020-21, the total intake for the undergraduate programmes increased to 180.

S. No.	Name of the Undergraduate Programme	Starting Year	Intake
1	B. Tech. in Computer Engineering	2015	40
2	B. Tech. in Electronics and Communication Engineering with specialization in Design and Manufacturing	2015	40
3	B. Tech. Mechanical Engineering with specialization in Design and Manufacturing	2016	40
4	B.Tech Artificial Intelligence and Design Data science	2020	30

The following figure shows overview of theme of all the three undergraduate programmes offered at this institute



### Theme of Undergraduate Programmes

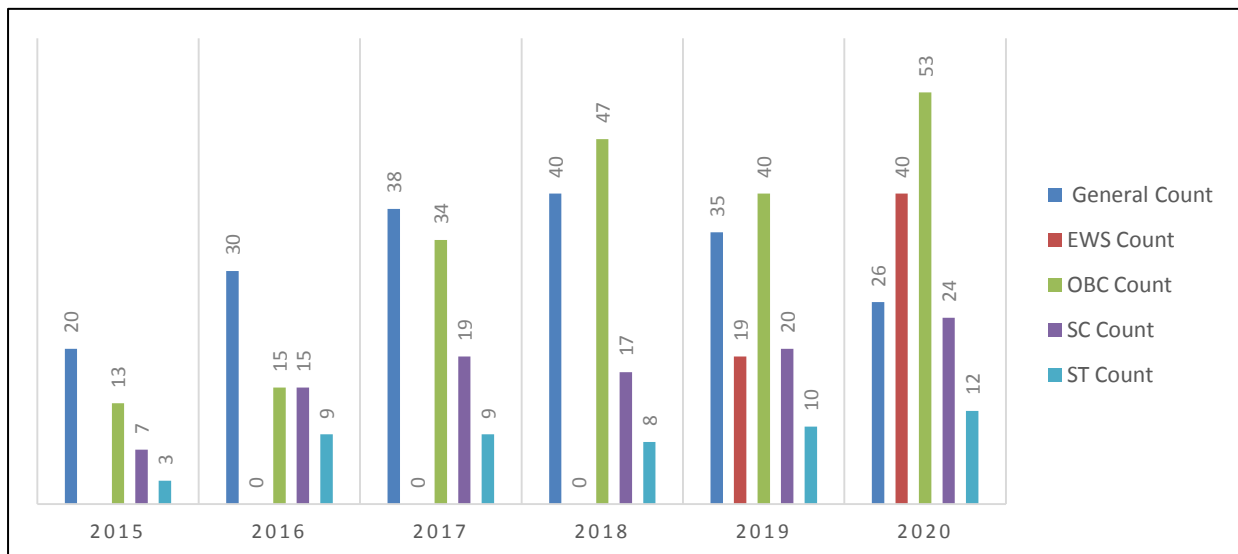
## 6.2 Admission Statistics

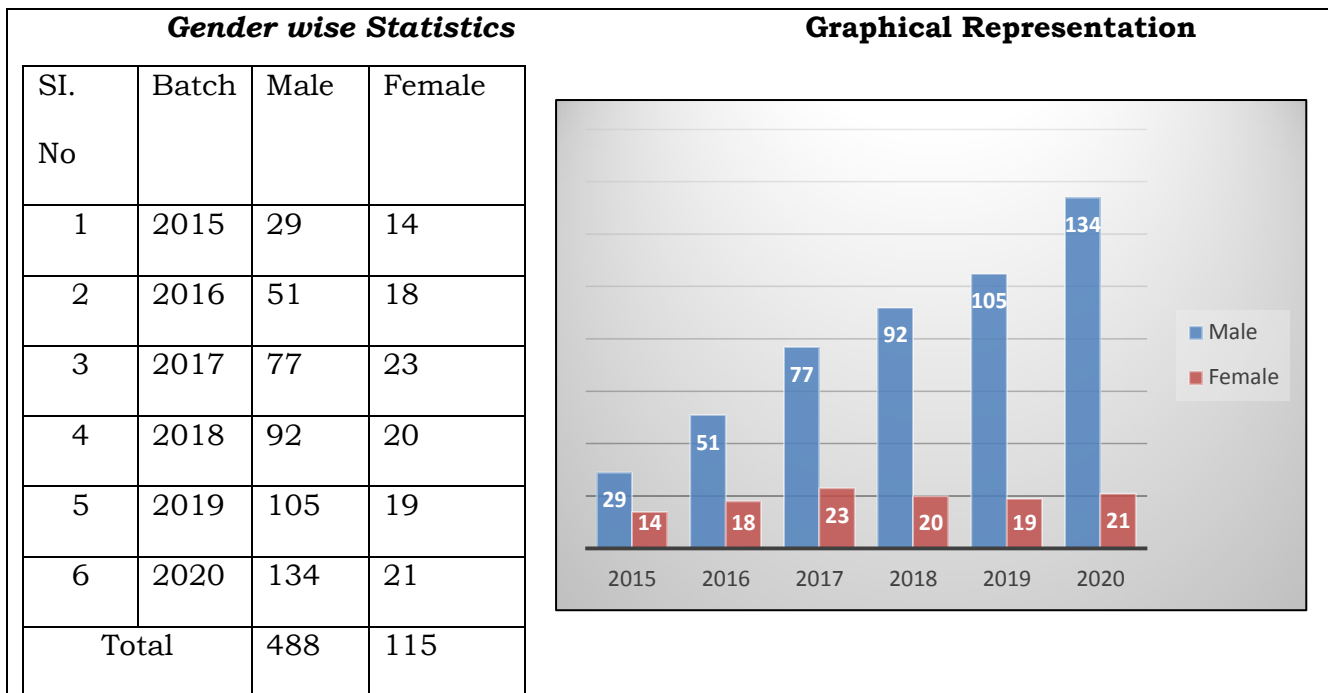
Details of statistics of admitted students along with male-female ratio and category wise admitted students of all the offered programmes are given below:

Admitted Students of UG programmes			Graphical representation
S.No	Batch	No of students Admitted	<p>Total no of Students Admitted</p>
1	2015	43	
2	2016	69	
3	2017	100	
4	2018	112	
5	2019	124	
6	2020	155	
Total No of Students		603	

Category wise Statistics						
SI. No	Batch	General	EWS	OBC	SC	ST
1	2015	20		13	7	3
2	2016	30	---	15	15	9
3	2017	38	---	34	19	9
4	2018	40	---	47	17	8
5	2019	35	19	40	20	10
6	2020	26	40	53	24	12
Total		189	59	202	102	51

### Graphical Representation of GEN, OBC, SC and ST





### **6.3 Master's programmes**

#### **6.3.1 M.Tech. - Computer Science and Engineering with specialization in Data Analytics and Decision Sciences**

This Programme is designed by combining the fields of Data Analytics and Decision Sciences. Students will be given training on how to combine machine learning and deep learning techniques with mathematical optimization approaches, Data Exploration and Visualization, Decision Support System, Advanced algorithms with required programming skills, and simulation techniques to create value in specific industry-relevant application areas. In addition, a bunch of elective courses are being designed to offer deep-dives into specific industry application areas by integrating some of the demand and cutting-edge oriented topics with practical projects and challenges.

#### **6.3.2 M.Tech. - Electronic System Design**

Our M.Tech. programme is being offered with the specialization in "Electronic System Design". Our M.Tech. course is focused mainly on the recent trends in the electronic design automation industries. It's a four-semester full-time course with the relative credit system. In the first two semesters, the students will be



undergone with core and elective courses. The course includes papers related to electronics and design theory. Here, advanced mathematics for electronic engineers, advanced digital VLSI design, advanced digital signal processing, embedded system design, and advanced electronic circuits/system design are offered as core courses. Also, we have offered elective courses such as IoT, electromagnetic interference and compatibility, digital image processing, wireless communication, and so on. In the last two semesters, the students will be undergone with the project dissertation work. Also, our M.Tech. programme includes laboratory courses such as advanced digital VLSI design, advanced digital signal processing, embedded system design, and so on. Since M.Tech. course gives the theoretical and practical aspects of recent trends of electronic design automation industries, it would be helpful for the students to acquire their career in reputed companies.

### **6.3.3 M.Tech. - Smart Manufacturing**

The 21st century manufacturing facilities have ushered a new wave of manufacturing with an amalgamation of technologies from advanced robotics to fully integrated production systems. With smart manufacturing or Industry 4.0, manufacturers are moving towards a new level of interconnected and intelligent manufacturing system which incorporates the latest advances in sensors, robotics, big data, and controllers. To keep pace with the evolution of these “smart factories” requires highly skilled and nimble engineers to manage the increasing complexity and shorter mind-to market product cycles. The goal of this program is to train future manufacturing engineers with basic knowledge of IT in addition to the strong problem-solving skills that are imparted in today’s programs. Students will be trained in manufacturing processes, manufacturing systems, systems engineering, IT, Networks, and basic shop floor communications. The experiential learning approach will be followed and students will be gaining hands-on experience in many spheres of technology related to smart manufacturing.

### **6.4 Design & Innovative Centric Engineering Curriculum**

The institute is currently offering design centric postgraduate programmes in the following three disciplines with intake of 15 students in each programme from 2020. In the Academic year 2020-21, the total intake for the postgraduate programmes is 45.

<b>S. No.</b>	<b>Name of the Undergraduate Programme</b>	<b>Starting Year</b>	<b>Intake</b>
1	M.Tech. - Computer Science and Engineering with specialization in Data Analytics and	2020	15

	Decision Sciences		
2	M.Tech. - Electronic System Design	2020	15
3	M.Tech. - Smart Manufacturing	2020	15

## 7. STUDENTS AND SCHOLARSHIP DETAILS

### 7.1 Admission Statistics

Details of statistics of admitted students of all the offered programmes are given below:

Admitted Students of PG programmes					
<b>S.No</b>	<b>Batch</b>	<b>No of students Admitted</b>	<b>S. No</b>	<b>Branch</b>	<b>Students admitted</b>
1	2020	13	1	M.Tech. - Computer Science and Engineering with specialization in Data Analytics and Decision Sciences	6
<b>Total No of Students</b>		<b>13</b>	2	M.Tech. - Electronic System Design	5
			3	M.Tech. - Smart Manufacturing	2

### 7.2 SCHOLARSHIPS FOR SC/ST /OBC/PWD/GEN STUDENTS

Since the inception, the institute made every effort to fill up the seats reserved for SC/ST /OBC/PWD/GEN candidates fully. These efforts included fee concession in payment of registration fee, and relaxing the minimum eligibility requirements in admissions.

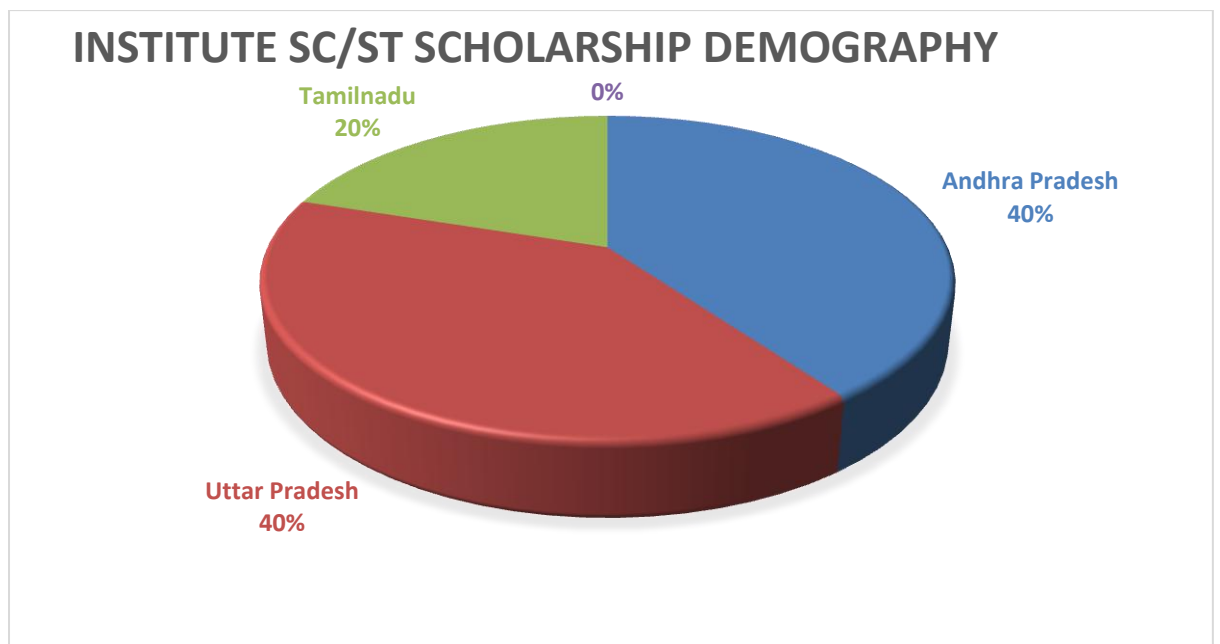
#### Scholarships provided for Students;

For all admitted students belonging to SC/ST community and PwD category during the AY2020-21, tuition fee is waived. For needy SC/ST students, **institute scholarship** was given under which hostel seat rent was waived along with free mess (basic menu only) and a monthly pocket allowance of Rs. 250/- was given provided their parents' annual income is Rs.4,50,000/- or less.

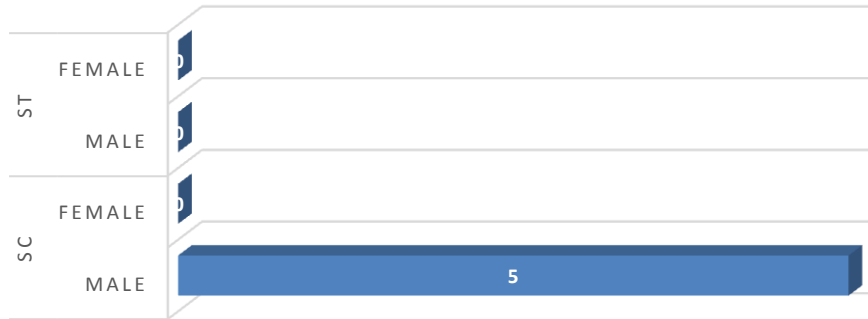
Following are the details of beneficiaries of institute scholarship for SC/ST students in the AY 2020-2021.

**Table 1: Institute Scholarship details**

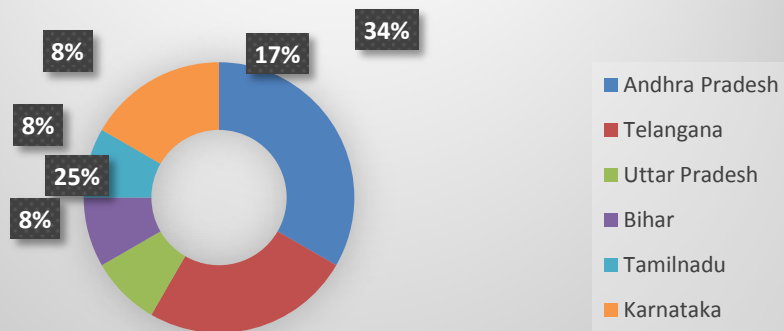
Sr. No.	Scholarship Name	SC		ST		PWD		OBC		GEN	
		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
1.	Institute Scholarship for SC/ST needy students	5	0	0	0	0	0	0	0	0	0
2.	Financial Assistance Scheme for Meritorious and Needy Students (Merit cum Means Scholarship)	0	0	0	0	0	0	6	0	4	2

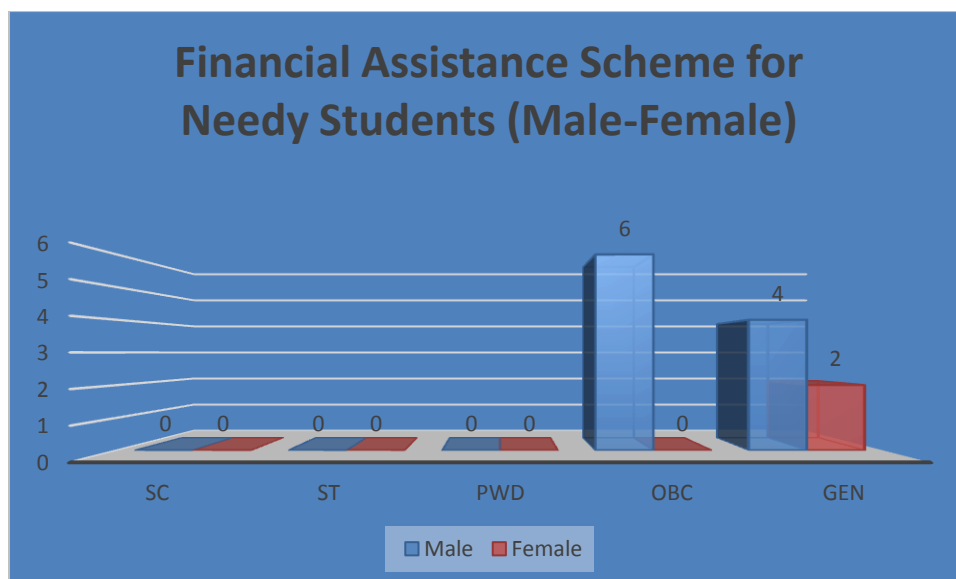


## INSTITUTE SC/ST SCHOLARSHIP (MALE - FEMALE)



## Financial Assistance for Meritorious and Needy Students Demography





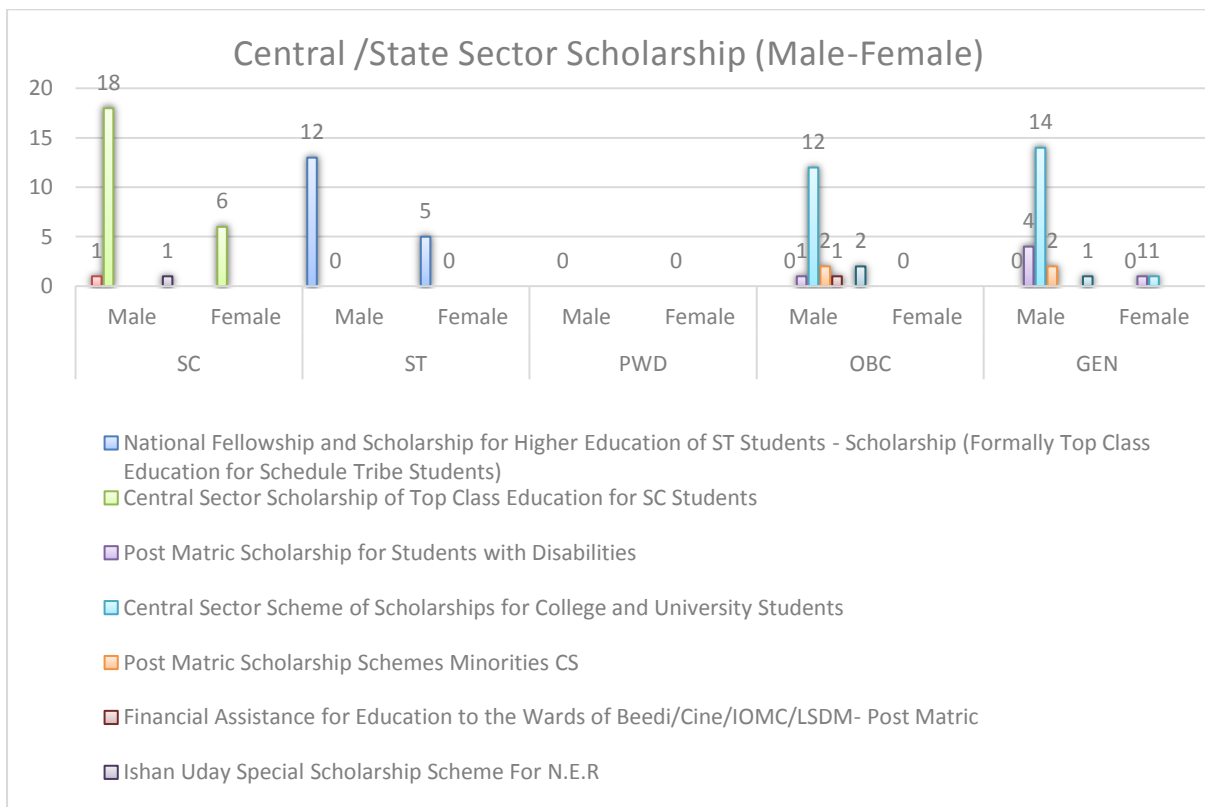
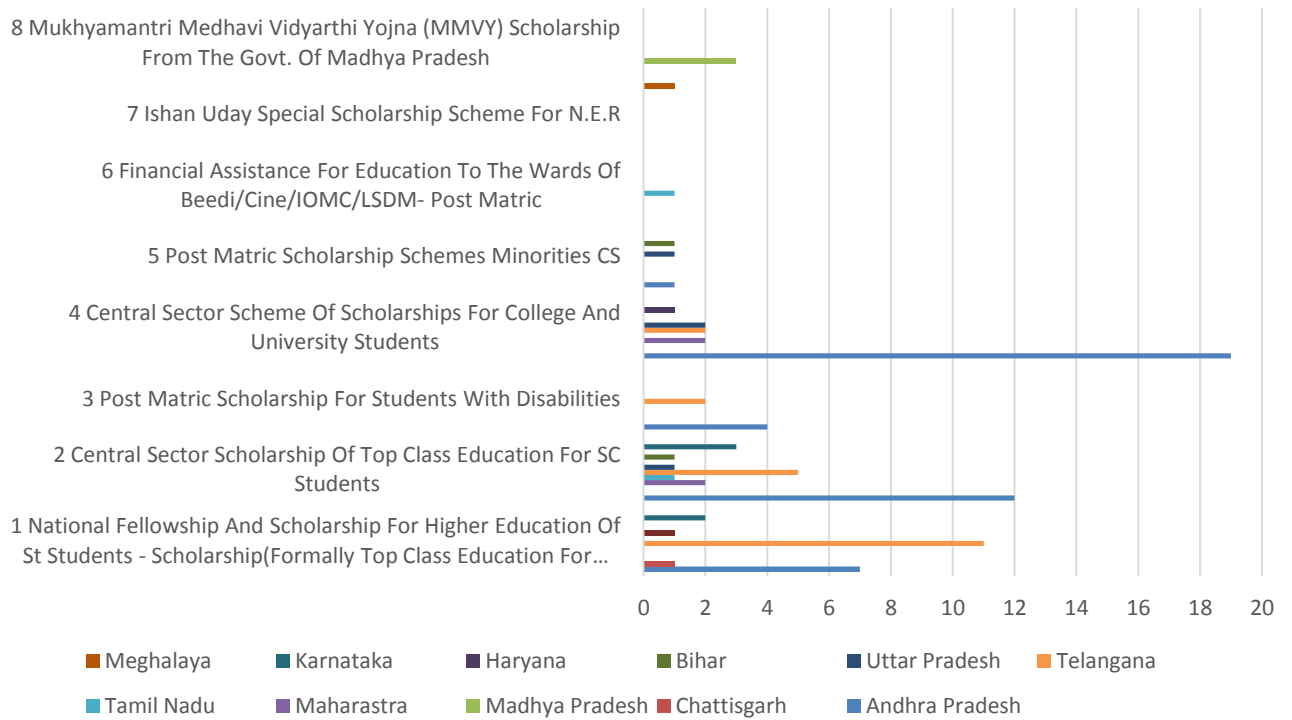
Institute has also made full effort for implementing central sector scholarship and state government schemes for SC/ST /OBC/PWD/EWS students. The details are given in the table 2.

**Table 2: Central Sector Scholarships sanctioned for IIITDM Kurnool students**

Sr. No.	Name of the Central Sector Scholarship Scheme	Number of Students to whom scholarship was sanctioned	SC		ST		PWD		OBC		GEN	
			Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
1.	National Fellowship and Scholarship for Higher Education of ST Students - Scholarship (Formally Top Class Education for Schedule Tribe Students)	18	0	0	13	5	0	0	0	0	0	0
2.	Central Sector Scholarship of Top Class Education for SC Students	24	18	6	0	0	0	0	0	0	0	0
3.	Post Matric Scholarship	6	0	0	0	0	0	0	1	0	4	1

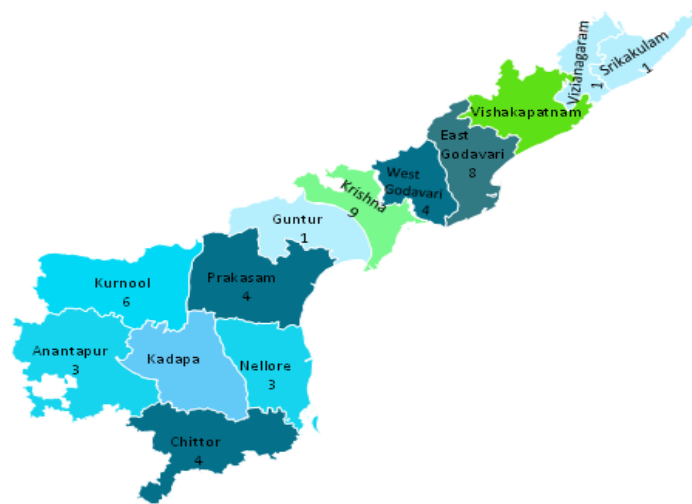
	for Students with Disabilities											
4.	Central Sector Scheme of Scholarships for College and University Students	27	0	0	0	0	0	0	12	0	14	1
5.	Financial Assistance for Education to the Wards of Beedi/Cine/I OMC/LSDM-Post Matric	1	0	0	0	0	0	0	1	0	0	0
6.	Ishan Uday Special Scholarship Scheme For N.E.R	1	1	0	0	0	0	0	0	0	0	0
7.	POST MATRIC SCHOLARSHIP SCHEMES MINORITIES CS	4	0	0	0	0	0	0	2	0	2	0
8.	Mukhyamantri Medhavi Vidyarthi Yojna (MMVY) scholarship from the Govt. of Madhya Pradesh	3	0	0	0	0	0	0	2	0	1	0

## Central /State Sector Scholarships Demography



The Scholarship Section of the institute has made a full effort to facilitate sanction of Andhra Pradesh State government scholarship schemes namely Jagananna Vidya Deevena (Tuition Fee Reimbursement Scheme) and Jagananna Vasathi Deevena (Mess& Hostel Fee reimbursement) to our students.

S.No	District	Male	Female
1	Anantapur	3	0
2	Chittoor	3	1
3	East Godavari	1	7
4	Guntur	1	0
5	Kadapa	2	0
6	Krishna	8	1
7	Kurnool	4	2
8	Nellore	2	1
9	Prakasam	4	0
10	Srikakulam	1	0
11	Visakhapatnam	12	1
12	Vizianagaram	0	1
13	West Godavari	3	1
<b>Total</b>		<b>44</b>	<b>15</b>



**Fig: District-wise demography representation of JVD (Jagananna Vasathi & Vidya Deevena) Scholarship Schemes**



### 7.3 Student Placements and Internships

The student placements were carried out successfully, even at the time of pandemic. The placement cell has worked efficiently and managed to place eligible students through offline and online mode. The average package offered was 5.72 Lakhs per annum and highest package was 15 Lakhs per annum.

The detailed statistics of the placements secured through Placement Cell, IIITDM Kurnool is for the academic year 2020-2021 is given below:-

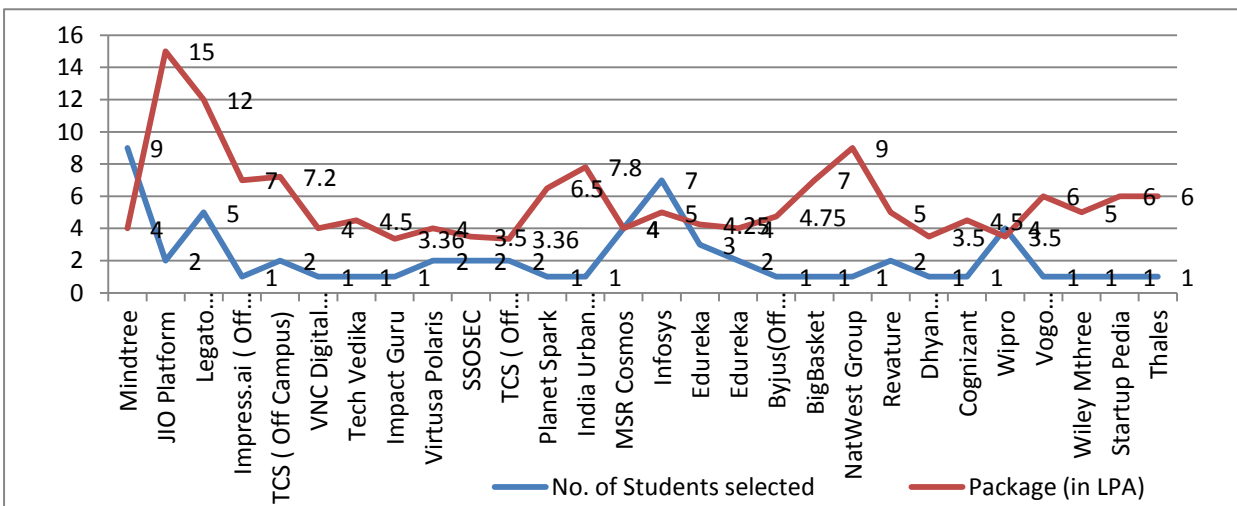
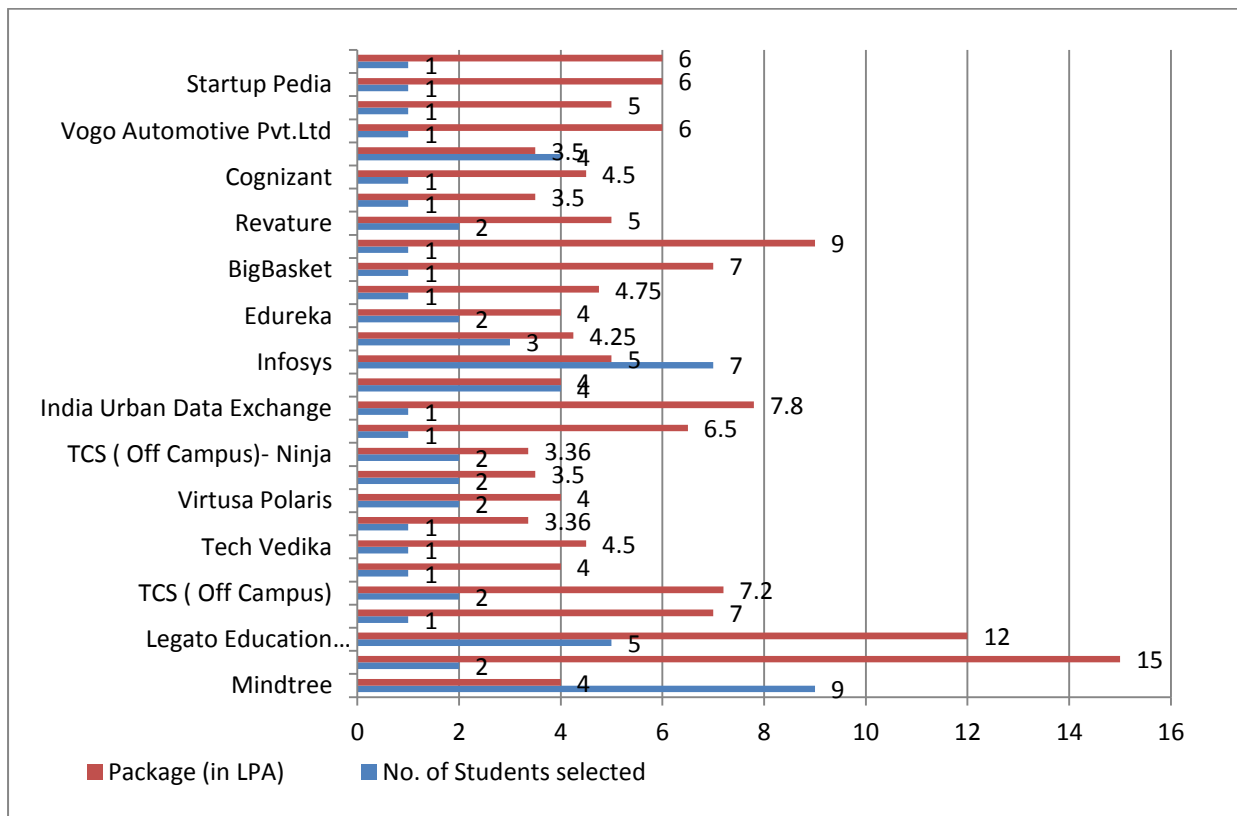
S. No	Details	Statistics
1	No. of students registered for the Placements	85
2	No. of offers received	61
3	No. of Students placed	45
3	% of offers received	71.17

S. No	Name of The Company	No. Of Students Placed	Package (LPA)
1	Mindtree	9	4
2	JIO Platform	2	15
3	Legato HealthTechnologies	5	12
4	Impress.Ai( Off Campus)	1	7
5	TCS ( Off Campus)	2	7.2
6	VNC Digital Services	1	4
7	Tech Vedika	1	4.5
8	SSOSEC	2	3.5
9	TCS-Ninja( OFF Campus)	2	3.5
10	Impact Guru	1	3.36
11	Planet Spark	1	6.5
12	India Urban Data Exchange, IISc. Bengaluru	1	7.8
13	Virtusa Polaris	2	8
14	MSR Cosmos	4	4
15	Infosys	7	5
16	Edureka	3	4.25
17	Edureka	2	4
18	Byjus	1	4.75
19	Bigbasket	1	7
20	Natwest Group	1	9
21	Revature	2	5
22	Dhyan Networks	1	3.5

23	Cognizant	1	4.5
24	Wipro	4	3.5
25	Vogo Automotive Pvt.Ltd	1	6
26	Wiley Mthree	1	5
27	Startup Pedia	1	6
28	Thales- Group	1	6

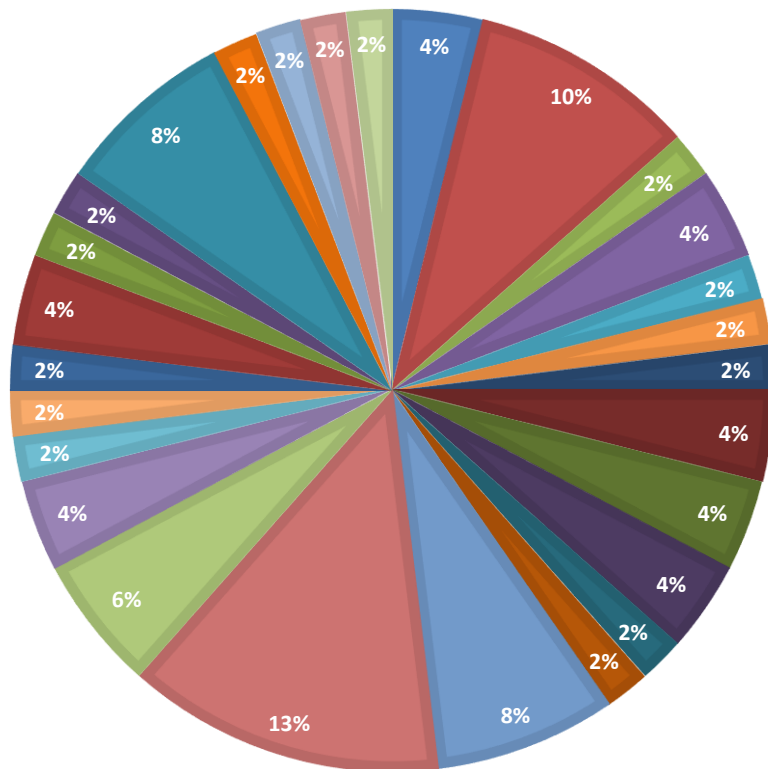
Total Number of offers Received = 61  
Average Package Received = 5.72(LPA)  
Highest Package = 15 LPA

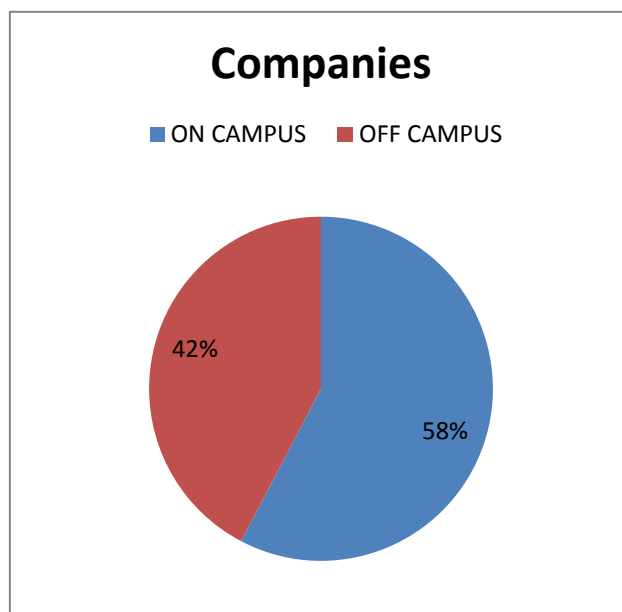
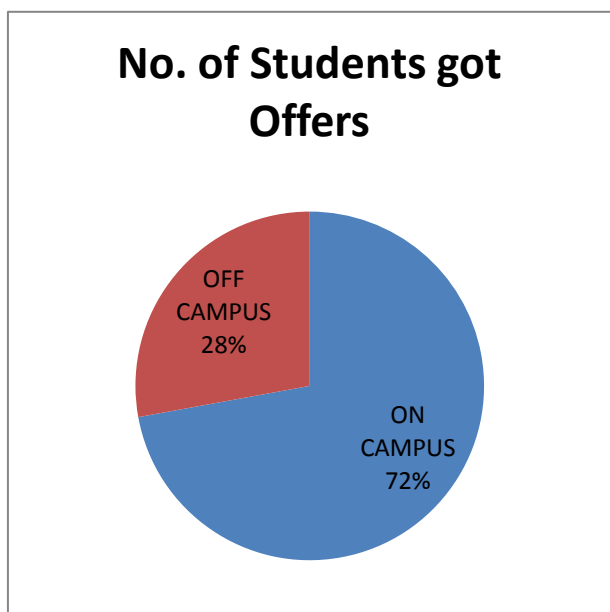
Graphical Representation of our Students who are got placed in different Companies:



## NO. OF STUDENTS SELECTED

- Mindtree (3-5) LPA
- Legato Education Technologies (10-12) LPA
- TCS ( Off Campus) (5-7) LPA
- Tech Vedika (3-5) LPA
- Virtusa Polaris (3-5) LPA
- TCS ( Off Campus)- Ninja (3-5) LPA
- India Urban Data Exchange (6- 8)LPA
- Infosys (3-5) LPA
- Edureka (3-5) LPA
- BigBasket (5- 7)LPA
- Revature (5-6) LPA
- Cognizant (3-5) LPA
- Vogo Automotive Pvt.Ltd (5- 7)LPA
- Startup Pedia (5- 7) LPA
- JIO Platform (12-15) LPA
- Impress.ai ( Off Campus) (5-7) LPA
- VNC Digital Services (3-5) LPA
- Impact Guru (3-5) LPA
- SSOSEC (3-5) LPA
- Planet Spark (5- 7)LPA
- MSR Cosmos (3-5) LPA
- Edureka (3-5) LPA
- Byjus(Off Campus) (3-5) LPA
- NatWest Group (8-9) LPA
- Dhyan Networks (OFF Campus) (3-5) LPA
- Wipro (3-5) LPA
- Wiley Mthree (3-5) LPA





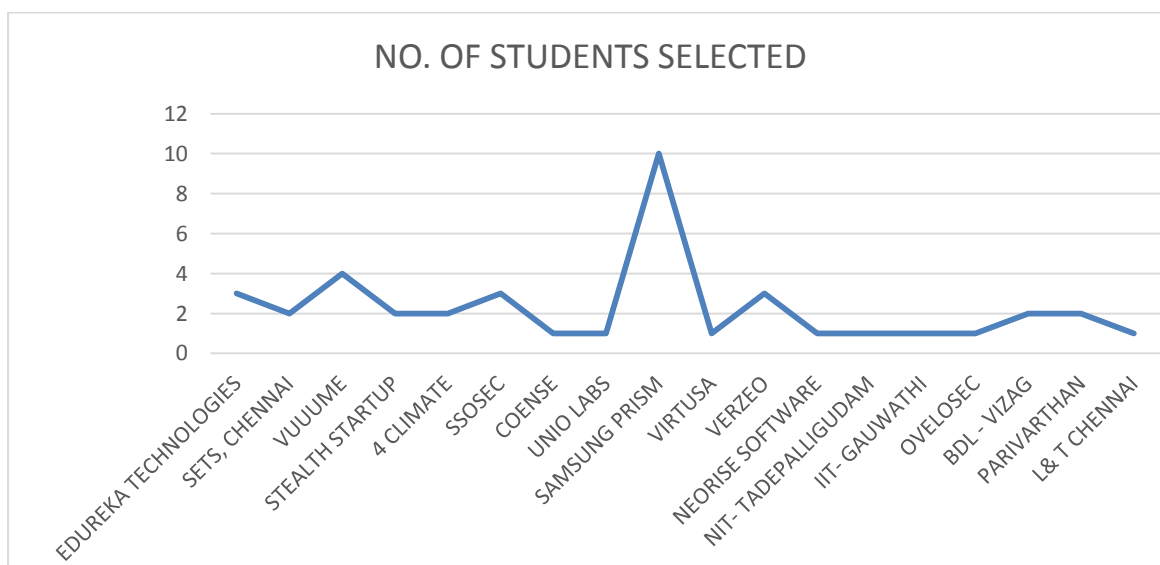
### Internships

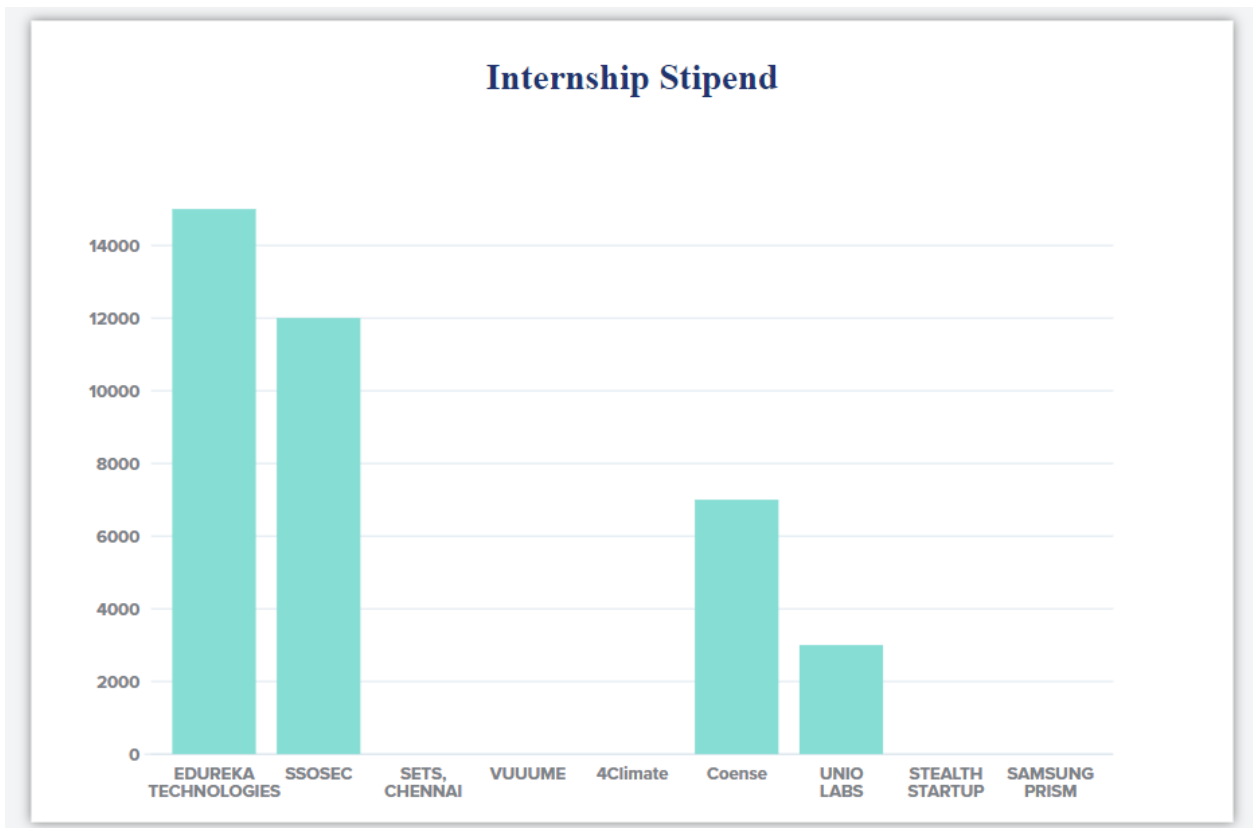
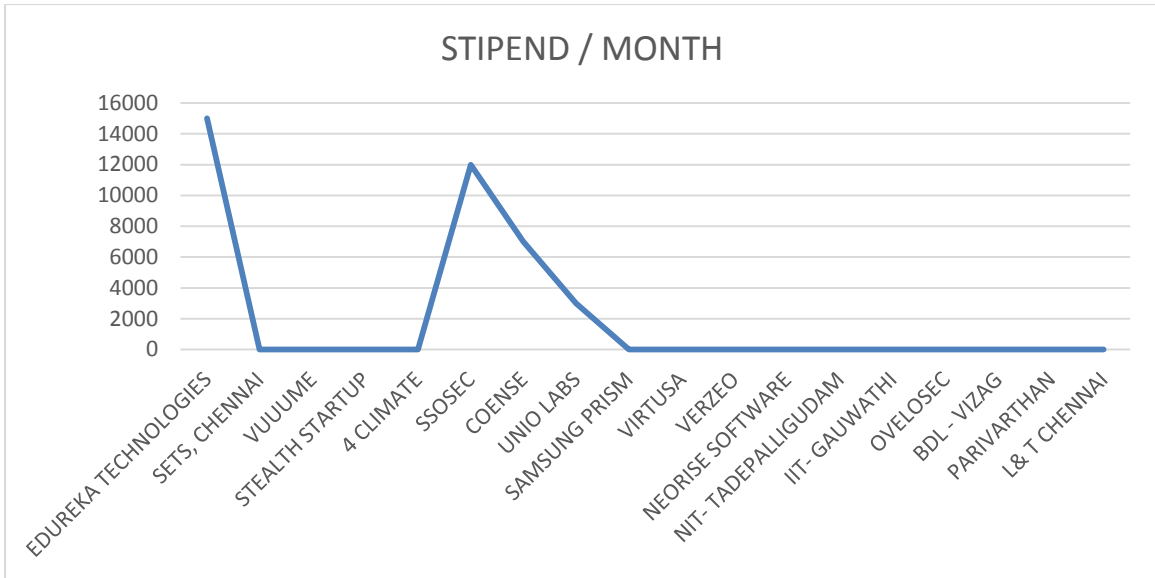
As part of the curriculum, every B. Tech student needs to undergo an Internship for a period of Five months at reputed Industries / Institutions / Organizations after the completion of their III Year. Following are the statistics of the Internships secured through Internship and Placement Cell, IIITDM Kurnool during the academic year 2020-21.

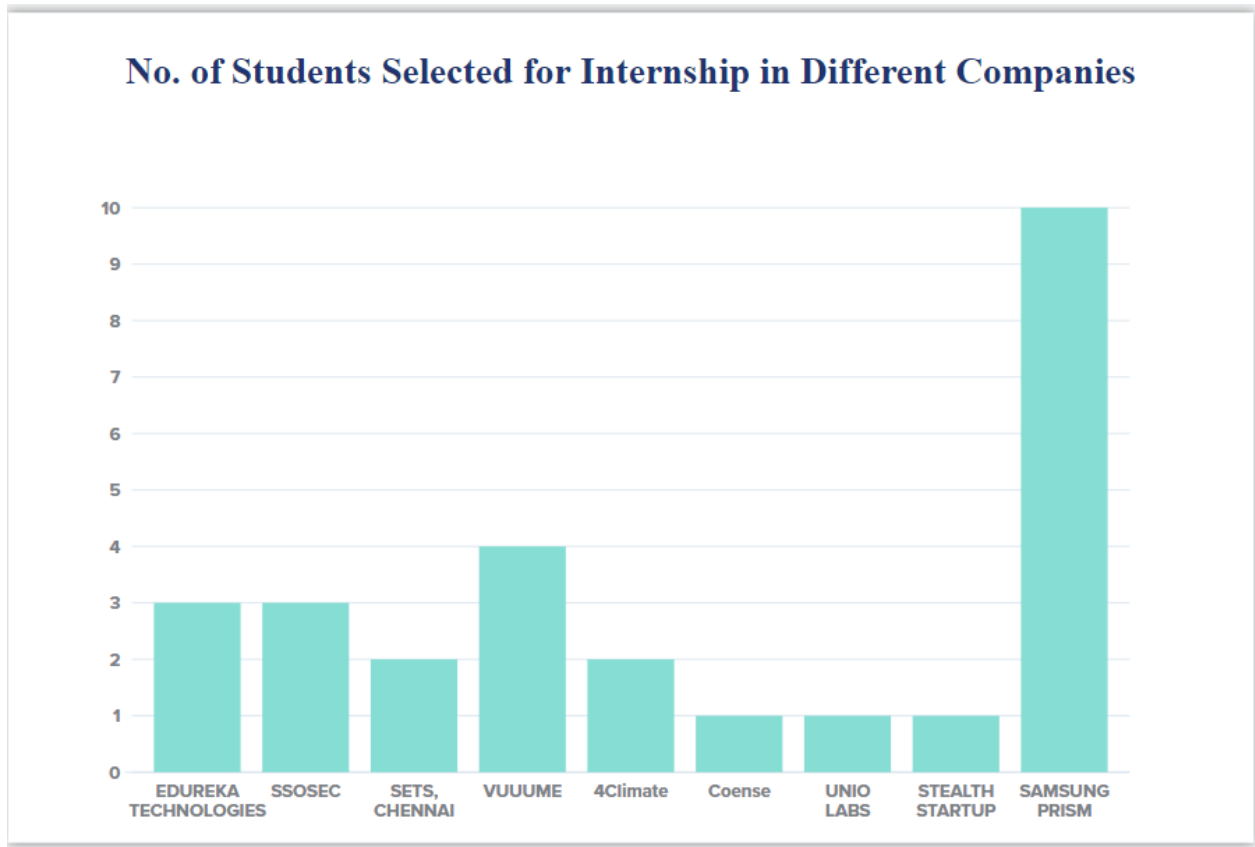
S. No	Details	Statistics
1	No. of students registered for the internship drives	110
2	No. of offers received	44
3	% of offers received	<b>40.2%</b>

S.NO	ORGANIZATION NAME	NO. OF STUDENTS SELECTED	STIPEND/MONTH
1	EDUREKA TECHNOLOGIES	3	15000
2	SETS, CHENNAI	2	Nil
3	VUUUME	4	Nil
4	STEALTH STARTUP	2	Nil
5	4 CLIMATE	2	Nil
6	SSOSEC	3	12000

7	COENSE	1	7000
8	UNIO LABS	1	3000
9	SAMSUNG PRISM	10	Nil
10	VIRTUSA	1	Nil
11	VERZEO	3	Nil
12	NEORISE SOFTWARE	1	Nil
13	NIT- TADEPALLIGUDAM	1	Nil
14	IIT- GAUWATHI	1	Nil
15	OVELOSEC	1	Nil
16	BDL - VIZAG	2	Nil
17	PARIVARTHAN	2	Nil
18	L& T CHENNAI	1	Nil
19	MODERN DAIRY MACHINES	2	Nil
20	LOGICWATT	1	5000
TOTAL NO. OF OFFERS RECEIVED		<b>44</b>	







## 8 LABORATORIES

### 8.1 Mechanical and Manufacturing Laboratory

The objective of the manufacturing laboratory is to provide a comprehensive understanding in the field of conventional (traditional) machining processes, creating an emphasis on the techniques adopted in the industries. The laboratory holds equipment ranging from conventional numerically controlled lathe machine, which can be availed for internal and external threading operations for disparate machining parameters and respective values.



Numerically Controlled Lathe Machine



Drilling Machine



Grinding operation: Abrasive Wheel



Pocket Drill



Carpentry



A model developed in house

To ensure, products quality is maintained, the product components developed in house or acquired from outside a continuous evaluation is carried out as an ongoing process. The product is checked by availing suitable standard





engineering is the focus point of our work in Indian Institute of Information Technology, Design and Manufacturing, Kurnool. This leads to erasing of boundaries each engineering branch and leads to one module of work corresponding to the engineering spectrum.



Combined Heat Exchanger Setup



Friction in Pipe Flow



Air Conditioning Tutor



Free and Forced Convection; Thermal Conductivity of Non Metallic Materials

### 8.3 Mechanical Design Laboratory

A branch of applied science which highlights the relationship between geometry and relative motion of the parts of the machine in consideration is broadly classified in the field of design practice laboratory.



Journal Bearing Apparatus



Critical Speed Apparatus



Balancing Apparatus



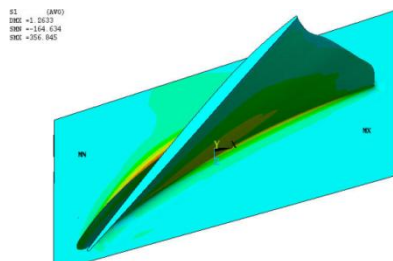
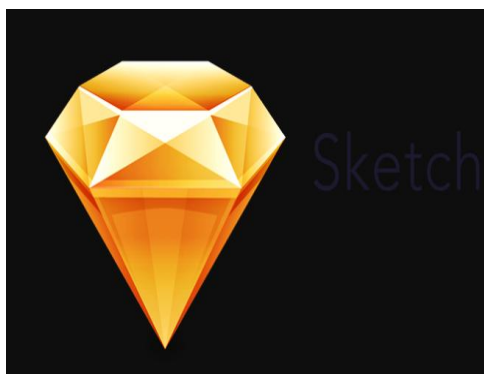
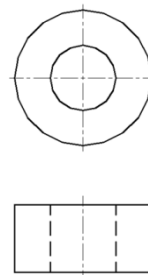
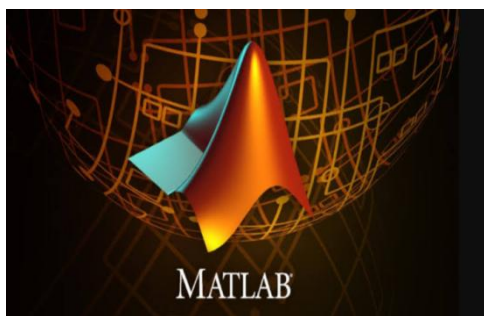
Motorized Gyroscope Apparatus



Universal Vibration Setup

The Design Laboratory consists of theory of machines where the laboratory equipment is utilized to equip students about basics of machine engineering (motion) to advanced field of studies which corresponds to free and forced vibration entity, friction in bearing, geared system and governors. Wide range of equipment are available ranging from static and dynamic balancing equipment which is used

to study the balance of masses statically and dynamically of a single rotating system (observation is to find the effect of unbalance in the rotating mass), motorized gyroscope is used to study the gyroscopic effect of a rotating disc, the gyroscopic effect of a rotating disc, the universal vibration setup provides a comprehensive unit to perform the vibration experiments, the universal frame present in the laboratory facility is quick to assemble and can be modified based on the experiment performed by the students ranging from simple relation of pendulum, radius of gyration (compound pendulum, bifilar suspension), undamped free vibration of spring mass system, longitudinal vibration of helical coiled spring, torsion, damping coefficients, forced damp system, etc. A cam analysis equipment is present to study displacement vs. angle of rotation, follower weight on bounce and also to study the effect of compression (spring) bounce. The journal bearing setup is provided, which is used to study the pressure profiles of lubricating oil at various conditions of load and speed, plotting the Cartesian polar pressure curves, and to measure the frictional torque and power transmit. Apart from this in Design laboratory, students perform Industrial sketching, Modelling of objects and analysis of materials using Sketching Tool, AutoCAD, MATLAB and ANSYS tools. This helps the students to pro-actively work in real time modelling problems and helps them attain knowledge in a wide database of framework.





#### 8.4 VLSI Laboratory:


VLSI Lab is highly equipped with upto date industry standard VLSI Tools and hardware resources. The lab facility includes course lab which provides projects and assignments for VLSI design and synthesis. The VLSI lab implements the theoretical concepts studied as part of subjects CMOS VLSI Design,



Microelectronics Circuits and Verilog, for students to experience in practical with the help of Xilinx Vivado and LTSpice.

The lab introduces a complete custom IC design flow, ASIC design flow and AMS (Analog and Mixed Signal) flow for Analog circuits, Digital circuits and Analog and mixed signal circuits are designed respectively. The analog design involves schematic (standard cell), test schematic capture and symbolic representation of circuit topologies using LTSpice. Simulation of the test circuit to perform various analyses such as transient, DC and AC is facilitated.

The digital design involves the realization of various digital circuit components using Register Transfer Logic (RTL) code, Compilation of the same using Xilinx Vivado, The synthesis of the verified RTL code to obtain the gate level netlist is performed thereon. Synthesizing the design (Synthesis, netlist generation, place and route etc..) in to output files that FPGAs can understand and program the output file to the physical FPGA device (ZedBoard) using the available programming tools is done. In the same facility embedded systems, microprocessors and controllers, communication systems and digital signal processing lab is carried out. This shows multi facility equipped laboratory for amalgamation of students learning.

S. No	Equipment	Images of the equipment	Description
1	ZED BOARD - 7000		<ol style="list-style-type: none"> <li>1. Can switch the between the two video inputs or different video formats.</li> <li>2. Maximum input and output resolution 2048pixel to 2048 pixel.</li> <li>3. Real time scale upto 64X.</li> <li>4. Built in YCrCb to RGB converter, YUV to RGB.</li> <li>5. Converter and RGB to YCrCb converter.</li> </ol>
2	SPECTRUM ANALYSER		<ol style="list-style-type: none"> <li>1. 1.9 kHz – 6.2 GHz frequency range 40 MHz real time bandwidth External reference and trigger/sync inputs USB3.0</li> <li>2. Power/control/data interface to PC Publicly-accessible software application programming interface (API) for Windows and Linux operating</li> </ol>




S. No	Equipment	Images of the equipment	Description
			<p>systems</p> <ol style="list-style-type: none"> <li>3. RSA306B-SMA model provides a SMA connector.</li> <li>4. RSA306B-SMA with the No-Shell option ships without the plastic housing, allowing, integration</li> </ol>
3	8086 MICROPROCESSOR		<ol style="list-style-type: none"> <li>1. INTEL 8086CPU AT 4.77 MHZ CLOCK SPEED.</li> <li>2. 16KB for monitor EPROM upgradable to 64 KB.</li> <li>3. 16KB RAM expandable to 64KB.</li> <li>4. Battery backup provision for RAM upto 64KB compatible keyboard</li> <li>5. 24 TTL I/O lines brought out to two nos., of 26 pin FRC connector number of standard RS232C compatible serial port brought out to a pin D type male connector</li> <li>6. 3 channel 16 bit counter/timer using 8253</li> <li>7. 8 numbers of interrupt lines are terminated at a 10 pin connector.</li> <li>8. Kit operates with a single +5V/DC supply</li> <li>9. Built-in line assembler &amp; Disassembler.</li> </ol>

S. No	Equipment	Images of the equipment	Description
4	ARM- LPC 2148 KIT	 A photograph of a green printed circuit board (PCB) populated with various electronic components, including a microcontroller, RAM, and other integrated circuits. The board is housed in a grey plastic enclosure.	<ol style="list-style-type: none"> <li>1. 16-bit/32-bit ARM7TDMI-S microcontroller in a tiny LQFP64 package.</li> <li>2. 8 kB to 40 kB of on-chip static RAM and 32 kB to 512 kB of on-chip flash memory.</li> <li>3. 128-bit wide interface/accelerator enables high-speed 60 MHz operation.</li> </ol>
5	TIVA C SERIES TM4C123G	 A photograph of a red printed circuit board (PCB) with various electronic components. The board is shown against a red background with text that reads "Meet the Tiva™ C Series TM4C123G LaunchPad Evaluation Kit".	<ol style="list-style-type: none"> <li>1. Frequency-80 MHz</li> <li>2. 32 -bit ARM dual 12 bit ADC.</li> <li>3. 256 kb flash /32bit Kbsrm/ 2 Kbeeprom.</li> </ol>


### 8.5 Digital Logic Design Laboratory:

The Digital Logic Design Lab (DLD Lab) is one of the most important and well-equipped lab of the Department. This lab is re-designed such that the students get an opportunity to learn across the course regarding Digital systems course. This is an undergraduate course which deals with the basics of digital systems design. It provides the prerequisites for advance courses in digital electronics. Because of the significance of this course the DLD Lab has been carefully designed to meet the course requirement. Analog Circuit Laboratory is also conducted in the DLD lab facility where, disparate analog circuits are designed (Amplifiers, Filters, Oscillators). The Analog electronic circuit includes an analog signal with any continuously changeable signal. While working on an analog signal, an analog circuit alters the signal in some manner. Analog circuit can be used to convert the original signal into some other format such as a digital signal.

S. No.	Equipment	Images of the equipment	Description
--------	-----------	-------------------------	-------------



<b>S. No.</b>	<b>Equipment</b>	<b>Images of the equipment</b>	<b>Description</b>
1	DIGITAL TRAINER		<ol style="list-style-type: none"> <li>1. On-Board Digital input (switches).</li> <li>2. BCD to seven segment.</li> <li>3. IC 555 timer, Edge trigger.</li> <li>4. IC 74121 Multivibrator</li> <li>5. On-Board Bread Board for external circuits.</li> <li>6. LED Output indication.</li> </ol>
2	FUNCTION GENERATOR		<ol style="list-style-type: none"> <li>1. Dual-channel, 25 MHz or 60 MHz sine waveforms.</li> <li>2. 12.5 MHz or 30 MHz square waveforms</li> <li>3. 14 bits, 125 MS/s or 300 MS/s arbitrary waveforms with 8 k points or 1 M points record length.</li> <li>4. Amplitude 1 mVp-p to 10 Vp-p into 50 <math>\Omega</math> loads.</li> </ol>
3	DIGITAL STORAGE OSCILLOSCOPE		<ol style="list-style-type: none"> <li>1. Dual time base Math Fast Fourier Transform (FFT)</li> <li>2. Pulse Width trigger capability</li> <li>3. Video trigger capability with line-selectable triggering</li> <li>4. External trigger Setup and waveform storage</li> <li>5. Variable persistence display</li> <li>6. RS-232, GPIB, and Centronics ports with the optional TDS2CMA</li> <li>7. Communications Extension Module</li> </ol>








<b>S. No.</b>	<b>Equipment</b>	<b>Images of the equipment</b>	<b>Description</b>
4	REGULATED POWER SUPPLY		1. 3 channel DC supply. i)dc supply of 15V (variable ). ii) 5V(fixed). iii)30V (Variable).

### 8.6 Electrical Drives and Sensor Instrumentation Laboratory

Current Sensing of Electrical Drives is required for the implementation of current limit control, inner current control loop of closed-loop speed control, closed-loop torque control of a dc drive, for sensing fault conditions, and for sensing speed in dc drives by back emf sensing method. In order to avoid interaction between control circuit, carrying low voltage and current, and power circuit involving high voltage and current and sometimes harmonics and voltage spikes, isolation must be provided between the two circuits.

<b>S. No.</b>	<b>Equipment</b>	<b>Images of the equipment</b>	<b>Description</b>
1	MIXED DOMAIN OSCILLOSCOPE		MODEL NO: MDO36024, 4 CHANEL NON ISOLATED,200MHZ,2.5Gs/s
2	CURRENT PROBE		MODEL NO: N2783B, 30A/100MHZ

<b>S. No.</b>	<b>Equipment</b>	<b>Images of the equipment</b>	<b>Description</b>
3	EMC PROBE SET(4-PIECES		MODEL NO:TBPS01, LESS THAN75V DC OR AC(UPTO 50V)
4	20dB WIDEBAND AMPLIFIER		MODEL NO:TBWA2_20, 20dB
5	VOLTAGE PROBE (PERIPHERAL FOR MDO		MODEL NO:TPP0250, 250MHZ,300V
6	LINE IMPEDANCE STABILISATION NETWORK LISN		MODEL NO:TB0H01, 5uH
7	LAPTOP		MODEL NO:15g-br001tu, intel i3 processor,1TB HD

## 8.7 Internet of Things (IOT) Laboratory

The Internet of Things (IoT) is emerging as the next technology and the technocrats are working to develop smart solutions for applications in the field of cyber physical systems, surveillance operations and Industry 4.0. The internet is used to connect billions of everyday devices, ranging from fitness bracelets to industrial equipments. It also opens up a host of new opportunities and challenges for companies, governments and consumers. The objective of the IoT laboratory is to impart knowledge about the recent advancements that merges the physical and online worlds with various devices. The real-world problems will be solved by developing a smart system that encompasses sensors, actuators, microcontrollers, and microprocessors. The collected data and decisions can be fed for analysis using cloud platforms. The laboratory has desktop systems to generate test datasets and to perform simulation using open-source software.



Arduino Microprocessor



Zigbee unit



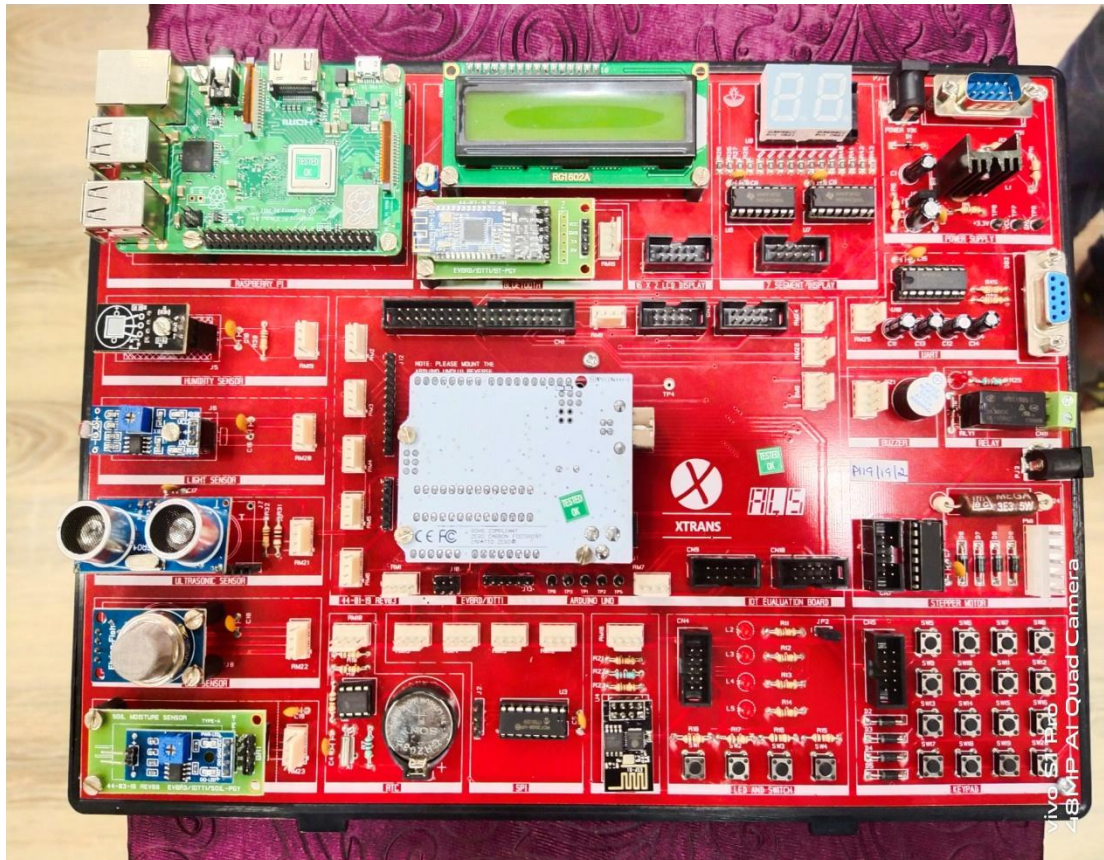
Raspberry Pi unit



Passive infrared sensor

The laboratory has onboard computers that help to witness the results in different environments. It can be embedded with several devices to incorporate machine

intelligence. The smart network can be used to perform data collection, data forwarding and result processing. The wireless network relies on the light-weight networking protocol. The gateway application can be implemented is implemented to store the information gathered from the routers. The laboratory concentrates to provide a complete understanding about the architecture of IoT setup. The merits of the abstract layers in the architecture are taught to a student that helps them to design an end to end solution. The lab is also equipped with network interfaces and devices required to perform data communication. The laboratory has 20 units of fabricated IoT kits for doing experiments with the available data.









## 8.8 Computer Science and Engineering Laboratory





At present, there are 41 systems with wired connectivity and sufficient access points are provided for wireless connectivity. All computer labs and servers are supported UPS system with good backup. Most of the CSE lab courses such as Problem solving and computer Programming, Data Structures and Algorithms, DBMS, Design and analysis of algorithms, Compiler Design, etc, are conducted in this lab. All the conventional software to run the CSE courses are installed in these systems.


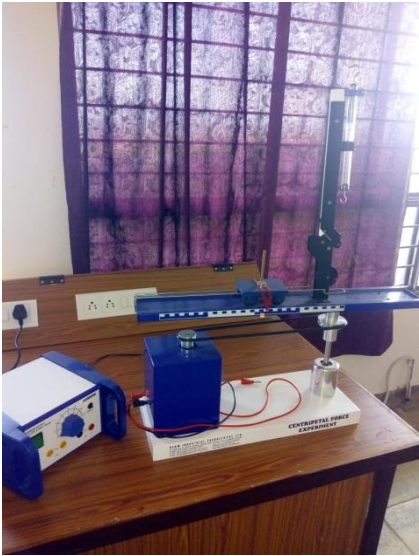

## 8.9 Physics Laboratory: Fundamentals of Science

The General Physics Lab is a teaching lab catering to fresher's joining the three B. Tech programmes offered by the institute. The lab has a set of experiments mainly in the areas of mechanics, wave mechanics, electricity and magnetism, and thermodynamics. A set of ten to eleven experiments form the lab course taken by every first year student in the B. Tech programme.


S. No.	Equipment	Images of the equipment	Description
1	<b>TORSION PENDULEM</b> 1. Stand 2. Steel disc 3. Wires		A torsional pendulum consists of a disk (Of mass 250g) suspended from a wire (of material Stainless Steel, Nichrome wire, Magnium, Brass), which is then twisted and released, resulting in an oscillatory motion to find out the Torsional rigidity of wire.
2	<b>BAR PENDULUM</b> 1. Metal bar 2. Knife edge 3. Bar holder		Bar pendulum: It is a weight suspended from a pivot so that it can swing freely. When a pendulum is displaced sideways from its resting, equilibrium position, it is subject to a restoring force due to gravity that will accelerate it back toward the equilibrium position.
3	<b>STRAIN GAUGE</b> 1. Strain gauges 2. Wooden rules 3. Power supply machine 4. Wheat stone bridge		A strain gauge producing current in milli amps and voltage in milli volts connected through a wheatstone bridge to a strain gauges attached over wooden specimen to find out Young's modulus of a wooden rule.

<b>S. No.</b>	<b>Equipment</b>	<b>Images of the equipment</b>	<b>Description</b>
4	<b>MICRO STRUCTURE</b> 1. Belt grinding machine 2. Disc polishing machine 3. Micro scope (RMM88) 4. Specimens		To find the micro structure of the given specimen using belt grinding machine (1200rpm) and Disc polishing machine (1800rpm) and various etchant solutions.
5	<b>FRICITION SETUP</b> 1. Inclined plane 2. Masses 3. Different surfaces		An inclined of length 1m is used to find out the static friction coefficient for different masses over different surfaces like Rubber sheet, metal sheet, wooden sheet, and Acrylic sheet.
6	<b>SPRING CONSTANT SETUP</b> 1. Frame 2. Spring 3. Masses (20g)		A spring supported by a beam and suspended with masses (20g, 40g, 60g, 80g, 100g) to find out the stiffness of spring.

<b>S. No.</b>	<b>Equipment</b>	<b>Images of the equipment</b>	<b>Description</b>
7	<b>FLY WHEEL SETUP</b> 1. Fly wheel 2. Suspended masses (100g) 3. Stop watch		A fly wheel is mounted on an axle on which is also supported by suspended masses (100g, 200g, 300g, 400g & 500g).
8.	<b>Linear Air Track kit</b> 1. Compressor 2. Photo gates 3. Air track 4. Masses		A linear air track carrying 2 bodies with or without masses and the speed can be calculated using photo pickup gates.
9	<b>Laws of motion kit</b> 1. Track 2. Timing cars 3. Photo gates		To demonstrate the Newton's Laws, two timing cars with photo pickup gates mounted on a straight levelled track.
10.	<b>SCI Comprehensive timing car kit</b> 1. Tracks 2. Timing cars		Timing cars were mounted on two different kinds of paths as shown in figure.

<b>S. No.</b>	<b>Equipment</b>	<b>Images of the equipment</b>	<b>Description</b>
11	Free fall apparatus		A stand with 2 photo pickup gates does study the motion of freely falling body.
12	Centripetal force setup		Centrifugal force is studied to demonstrate centripetal force.
13	Melde's Setup 1. Tuning fork 2. Electro magnets 3. Power module 4. masses		Apparatus to test the relationship between the tension, mass per unit length, frequency, and wavelength.



<b>S. No.</b>	<b>Equipment</b>	<b>Images of the equipment</b>	<b>Description</b>
14	Gravitational balance 1. Masses 2. Oil		Determining G, the fundamental universal gravitational constant and verifying inverse-Square law.

## 9. CENTRAL FACILITIES AND SERVICES

### 9.1 Central Library

The Central Library, IIITDMK is envisaged to provide access to high quality educational and research resources to the users of the institute. IIITDM intends to build a model library that will be the premier academic facilitator of the institute. The library will play a significant role in the creation and dissemination of



knowledge in the academic institution.

The library has a rich collection of resources in the areas of Electronics and Communication Engineering, Computer Science and Engineering, Mechanical Engineering, Physics, Mathematics and English language and literature. The resources include reference books, textbooks, CDs/DVDs etc. The library provides technical services such as classification, cataloguing, and documentation to the users of our institute with the goal of providing research and instructional support. Library has a wide range of magazines and journals pertaining to the relevant disciplines.

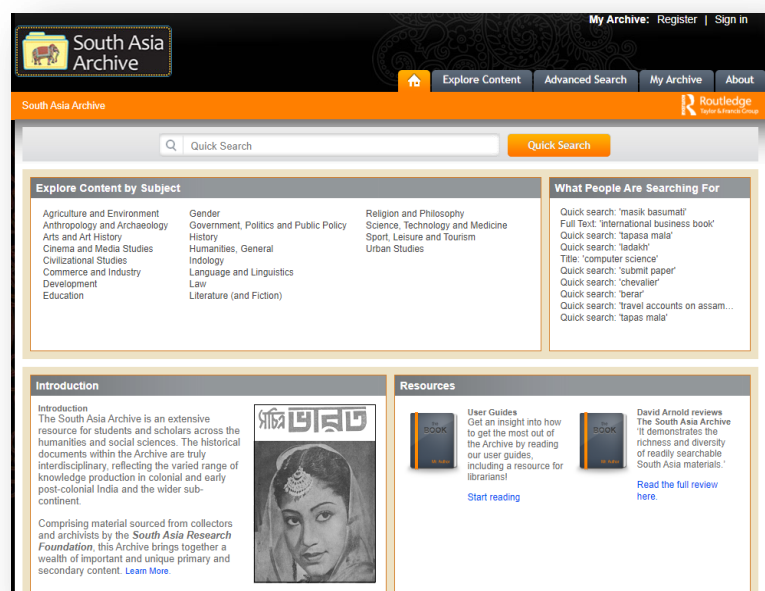
### Facilities offered at the Central Library, IIITDMK: A Prelude

S. No.	Library facility
1.	Online Public Access Catalogue (on-campus access only)
2.	Circulation
3.	Reference Service
4.	Reading Hall
5.	Table of Content Service
6.	Project & Competitive Examination Collection
7.	OURIGINAL Plagiarism Software
8.	IRINS
9.	South Asia Archive

### Membership & Resource Access

Central Library is also a member of the prestigious DELNET. It has been established with the prime objective of promoting resource sharing among the libraries through the development of a network of libraries. It aims to collect, store, and disseminate information besides offering computerized services to users, to coordinate efforts for suitable collection development and also to reduce unnecessary duplication wherever possible

From this academic year, central library has access to the **South Asia Archive**, It provides online access to millions of pages of rare primary and secondary



sources from across the social sciences and humanities. A truly interdisciplinary resource, the South Asia Archive spans the Humanities and Social Sciences – from economics, politics and anthropology, to cultural studies, history and, education and literature. The rich collection of the material allows for exploration and research across the different themes.

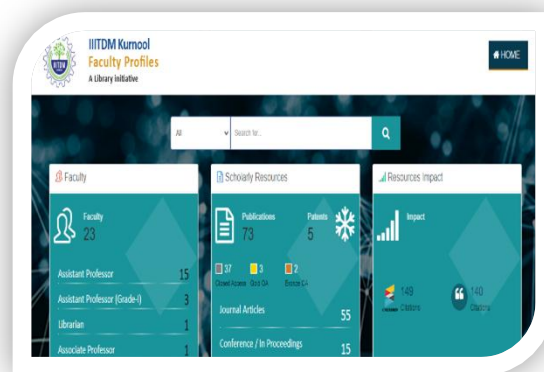
## Services

The Central Library provides various user-oriented services and functions as the centre of information of the Institute. Additional services of the library include circulation service which issues books from the library collections and recollection, apart from shelving and arranging books and materials as per the standard norms. New Arrivals, Table of Content Alert and Article Sharing Services are the major alerting services that are offered at the library.



As per the recommendations and guidelines of ‘COPE – Committee on Publication Ethics’ for promoting integrity in scholarly research and publications, the library provides access to plagiarism software ‘OURIGINAL’ thereby reducing the scope for plagiarism and increasing the quality and originality of the research work being conducted on campus.

Library is also maintaining **IRINS** website of the institute where it facilitates the academic, R&D organizations and faculty members, to collect, curate and showcase the scholarly communication activities and provide an opportunity to create the scholarly network.



The library uses open-source library automation software ‘Koha’ for library management with barcode technology. Users can search our catalogue using the Online Public Access Catalogue (Campus-Access only), which is the quickest and most accurate tool for information retrieval. Furthermore, a digital library centre and free Wi-Fi facility is also available for the users inside the library premises.

## Library Collection

Sl. No.	Item Description	No. of Documents
1.	<b>Books</b>	<b>3606</b>
2.	<b>Reference Books</b>	<b>110</b>
3.	<b>Audio / Video Collection</b>	<b>156</b>

4.	<b>Project &amp; Thesis</b>	<b>10</b>
5.	<b>Gratis</b>	<b>201</b>

### **Fund Utilization 2020-2021**

<b>Name of the Branch</b>	<b>No. of Titles</b>	<b>Amount Spent</b>
<b>Department of Computer Science &amp; Engineering</b>	<b>43</b>	<b>Rs. 3,55,030</b>
<b>Department Electronics &amp; Communication Engineering</b>	<b>41</b>	<b>Rs. 89,042</b>
<b>Department of Mechanical Engineering</b>	<b>29</b>	<b>Rs. 1,30,407</b>
<b>Department Sciences</b>	<b>85</b>	<b>Rs. 6,91,302</b>
<b>Total</b>	<b>198</b>	<b>Rs. 12,65,781</b>

### **9.2 ATM Facility**

ATM Facility in IIITDM Kurnool is extended by the STATE BANK OF INDIA through its 'Nandyal Branch' which is located in the city premises at a distance of 4 km from the Institute. ATM facility, Internet Banking, Tele-banking facilities are available in the campus for the benefit of students and staff.

Branch: SBI Nandyal Road (IFSC Code: SBIN0021660)

Contact Number: 08518-274441

Timings: 10.30 am - 4.30 pm (Monday - Saturday) (\*II and IV Saturday off)

ATM: 24\*7 hours ATM in the campus.



### **9.3 Health Center**

The Institute Health Centre is located within the campus

➤ **TIMINGS:**

**On Working Days** : 9:00am to 1:00pm and 5:00pm to 7:00pm.

IIITDMK Health Centre is a unit with one medical officers, one duty doctor who are assisted by paramedical staff. The students, employees and their dependents almost 696 members are getting benefited with the daily OPD

➤ **FACILITIES:**

The Health Centre is having well established facilities where blood, urine tests will be collected and sent to laboratory at Kim's hospital. The other facilities are ECG, pulse oximeter, nebulizer, oxygen support, o2 masks.

The laboratory at KIMS hospital is equipped with hematology analyzer, Biochemistry analyzer, urine analyzer, hot air oven, R-8C laboratory centrifuge, Blood mixer, binocular microscope. All the routine blood tests (Hemogram, LFT, RFT, lipid profile, thyroid profile) are done.

We have an observation room for emergency and first aid of patients.

➤ **SPECIALIST SERVICES:**

The Service Provider shall arrange visit of medical specialists in Pediatrics, Obstetrics, General Medicine, Orthopedics and other as per requirement of the Institute. Such visit would be paid on market rates as mutually agreed.

➤ **WASTE DISPOSAL:**

We are also following the rules of Bio medical waste as per Ministry of Environment and Forests.

**The list of empaneled hospitals from 01.05.2021 to 30.04.2022:**

<b>S.NO</b>	<b>Name of the Hospital</b>
1	KIMS HOSPITAL

**2. General Hospitals at KURNOOL**

<b>S.NO.</b>	<b>Name of the Hospital</b>
1	KURNOOL GGH

➤ **COVID MANAGEMENT:**

Service provider shall provide Covid-19 services as per govt. norms. (such as kit for mild infection, RTPCR positive cases. Further, for moderate infection, service provider will coordinate with other COVID hospitals for admissions of the patient.

➤ **AMBULANCE SERVICE:**

Ambulance service is provided 24X7. Ambulance is equipped with O2 cylinder, nebulizer and first aid box with routine medicines, essential lifesaving drugs.

➤ **CONTACT NO.:**

Ambulance can be contacted from the Phone numbers given below.

Phone: 9885261736

Mobile:9959031516

Emergency phone number is displayed in all buildings and hostels.

<b>Name</b>	<b>Designation</b>	<b>Mobile No</b>
Dr.K.Niharika	Medical Officer-1 (9AM-1PM)	8328640670
Dr.Pooja Rani	Duty Doctor(5PM – 7PM)	8500374709
Mr.Suresh	Nurse	8919812437
Mr.Gopi	Nurse	7386229235
Mr.Narendra	Nurse	8309254493
Mr.Naga Raju	Ambulance Driver	9885261736
Mr.Yesanna	Ambulance Driver	9959031516

➤ **CASES SEEN FROM 2020-2021:**

1.Fever cases-195
2.Respiratory cases-226
3.Gastro intestinal cases -91
4.Cardiovascular cases-3
5.Allergic reaction-118
6.Earpain-5
7.Nosebleed-4
8.Hypertension-6

9.trauma cases-111
10.Dental/oral inefections-13
11.Dog bite-3
12.COVID cases-3
13. Others-27
TOTAL NO. OF CASES SEEN =805cases
NO OF PATIENTS REFFERED TO HOSPITAL =3cases

#### 9.4 Cafeteria:

The Institute has a well-established cafeteria for refreshments. It serves hot and cold beverages like Tea, Coffee and cold drinks from 8.00 AM to 8.00 PM on all working days including Saturdays. With a seating capacity of 60 pax it allows students and faculty enough space to relax and enjoy their breaks. The cafeteria serves delicious food at nominal prices. It has a good variety of snacks, chocolates, ice creams etc.



### 10 NOTABLE ACHIEVEMENTS

#### 10.1 MoUs Signed

S.No	Name of the Organization	Date of Signing the MoU	Duration	Activities Planned	Point of Contact
1	Samsung R&D, Bangalore	24 Dec 2020	Three Years	Research and Collaboration in the areas of AI, 5G Communication, IoT, and Multimedia.	Dr. Eswaramoorthy
2	Edureka and E&ICT Academy, NIT Warangal	7 Nov 2020	Initially for two years	Training on advanced executive program on Data Science.	Prof. DVLN Somayajulu
3	E&ICT Academy, NIT Warangal	29 Oct 2020	Five Years	Faculty training, offering the advanced executive programs and	Dr. Krishnanaik

				joint executive programs for industry professionals, conferences, seminars, workshops, and FDPs.	
4	ZeroCode, Hyderabad	20 Oct 2020	Five Years	Joint training programs in the emerging areas, short term project guidance, joint product development, awareness programs, and placements.	Dr. Preeth

## 10.2 Student and Faculty Achievements:

- a) Mr. Adarsh Shrivastava and Ms. Pravallika Saladi from the department of ECE and Mr. Nagulapalli Uttam from the department of CSE secured 3rd rank with A+ grade in Flipr Hackathon 8.0 organized by Flipr Innovation Labs. The hackathon was held between 23<sup>rd</sup> April and 25<sup>th</sup> April 2021.
- b) Mr. Abhishek Kumar from the department of CSE and Mr. Adarsh Shrivastava from the department of ECE secured 8th rank in Bhilai Hacks Hackathon organized on 15<sup>th</sup> and 16<sup>th</sup> May 2021. The team Developer's Monk also won Portis Track prize for best Blockchain based app worth Rs 15k.
- c) Mr. D.V. Harsha Teja from the Mechanical department has received a participation certificate for his presentation on Social Media Master as part of the National Level Virtual Techno-Management Fest, TECKZITE'21 held between 9<sup>th</sup> June to 13<sup>th</sup> June 2021 at RGKUT – Nuzvid, AP, India.
- d) Mr. Adarsh Shrivastava from the department of ECE, Mr. Pratik Kumar and Mr. Abhishek Kumar from the department of CSE secured 3rd rank with A+ grade in Flipr Hackathon 9.0 organized by Flipr Innovation Labs. The hackathon was held between 25<sup>th</sup> June and 27<sup>th</sup> June 2021.
- e) Mr. Harsha Teja, Mr. Prachetas Nair and Mr. Sathwik Vadla from the Mechanical department mentored by Dr. Pullarao Muvvala qualified for the Grand Finale of Toycathon 2021 organized by Ministry of Education's Innovation Cell in January 2021.
- f) Ms. Sai Manvitha Enadula from the department of CSE secured 60th place out of 6500+ participants in Major League Hacking INIT 2020 that took place from June 27 - July 5, 2021



- g) Ms. Lasya Ganapathi from the department of ECE presented a paper titled "Alternating Current Electroluminescence Device guided for lowering the Blood Pressure", at 5th IEEE International Conference on RTEICT-2020 on 12th-13th Nov 2020, organised by Sri Venkateshwara College of Engineering, Bengaluru, Karnataka Harsha Vardhan
- h) Mr. Harsha Vardhan Bathala from the department of CSE, Deepak Rai, Hiren Kumar Thakkar, Deepak Singh "Machine Learning Assisted Automatic Annotation of Isovolumic Movement and Aortic Valve Closure using Seismocardiogram Signals" Conference paper, organised by 2020 IEEE 17th India Council International Conference (INDICON)

### **10.3 Faculty Development Programmes:**

- a) Department of Mechanical Engineering successfully organized a workshop on "3D Printing & Design" during 19/10/2020 - 23/10/2020 was organized via online mode organized by IIITDM Kurnool. It was sponsored by AICTE ATAL Academy, GoI. Resource Person: Dr. Akhtar Khan, Assistant Professor, IIITDM Kurnool.
- b) Department of Mechanical Engineering successfully organized a workshop on "Emerging Optimization Techniques of Engineering Applications" was organized between 19/04/2021 - 30/04/2021 via online mode organized by IIITDM Kurnool. It is sponsored by E&ICT Academy, National Institute of Technology, Warangal supported by Ministry of Electronics and Information Technology (MeitY), GoI. Resource Person: Dr. Akhtar Khan, Assistant Professor, IIITDM Kurnool.
- c) Department of Mechanical Engineering successfully organized a FDP on E-Content Development was organized between Sept 8<sup>th</sup> to 12<sup>th</sup>- 2020 sponsored by APSCHE, Resource Person: Dr. J. Krishnaiah, Associate Professor& HOD, IIITDM Kurnool
- d) Department of Mechanical Engineering successfully organized a FDP on Design Thinking on developmental projects related to Social and Rural between Oct 17<sup>th</sup> to 21<sup>st</sup> - 2020 sponsored by ATAL. Resource Person: Dr. J. Krishnaiah, Associate Professor& HOD, IIITDM Kurnool
- e) Department of Electronics and Communication Engineering successfully organized a workshop on "PSoC and Analog Discovery Kits", Physical & Virtual Workshop, 06-08 Nov 2020 in IIITDM Kurnool, Resource Person: Mr. Pradeep is from Apply Volt Tech.
- f) Department of Electronics and Communication Engineering successfully organized a workshop on "Cadence ASIC Design Tool", Physical & Virtual Workshop, 08-10 Oct 2020 in IIITDM Kurnool, Resource Person is Mr. Kedharnath from Entuple Technologies
- g) Department of Electronics and Communication Engineering successfully organized AICTE ATAL Academy Faculty Development Programme on "Global

Navigation Satellite Systems" during 26/07/2021 - 30/07/2021 in Online mode.

- h) Department of Electronics and Communication Engineering successfully organized a workshop on "Global Navigation Satellite Systems" during 10/05/2021 - 21/05/2021 via Online mode. It is sponsored by E&ICT Academy, National Institute of Technology, Warangal supported by Ministry of Electronics and Information Technology (MeitY), GoI
- g) Department of Electronics and Communication Engineering successfully organized a workshop on "Ansys EM Simulation Software". It was conducted on April 3rd by Yaswanth Kalepu, Resource Person: Karthikeyan K and Kaviarasu K from Entuple Technologies Pvt Ltd
- h) Department of Sciences, Indian Institute of Information Technology Design and Manufacturing (IIITDM-Kurnool) successfully organized a 7 day faculty development program on "Quantum computing" during 25<sup>th</sup> – 31<sup>st</sup> January 2021. It is sponsored by E&ICT Academy, National Institute of Technology, Warangal supported by Ministry of Electronics and Information Technology (MeitY), GoI. Resource Persons: Dr. D. Murali and Dr. Ravinder Katta.
- i) Department of Sciences, Indian Institute of Information Technology Design and Manufacturing (IIITDM-Kurnool) successfully organized a 12 day faculty development program on "Understanding the nuances of Education and Research" during 1<sup>st</sup> – 12<sup>th</sup> February 2021. It is sponsored by E&ICT Academy, National Institute of Technology, Warangal supported by Ministry of Electronics and Information Technology (MeitY), GoI. Resource Persons: Dr. Noel Anurag and Dr. Ravinder Katta.
- j) Department of Sciences, Indian Institute of Information Technology Design and Manufacturing (IIITDM-Kurnool) successfully organized a 7 day faculty development program on "Nanomaterials: Experimental Design and Theoretical modeling" during 13<sup>th</sup>– 20<sup>th</sup> February 2021. It is sponsored by E&ICT Academy, National Institute of Technology, Warangal supported by Ministry of Electronics and Information Technology (MeitY), GoI. Resource Persons: Dr. D. Amaranatha Reddy and Dr. D. Murali.



महानिदेशक लेखापरीक्षा (केंद्रीय) का कार्यालय  
सैफाबाद, हैदराबाद - 500 004.

OFFICE OF THE  
DIRECTOR GENERAL OF AUDIT (CENTRAL)  
SAIFABAD, HYDERABAD - 500 004.

No. DGA(C)/CEA/U-II /IITDM/SAR.2020-21/2021-22/26

Date:17.02.2022

सेवा में  
सचिव,  
भारत सरकार, शिक्षा मंत्रालय,  
नई दिल्ली  
महोदय,

विषय: Separate Audit Report (SAR) on the accounts of Indian Institute of Information Technology, Design and Manufacturing, Kurnool, for the year 2020-21.

\*\*\*\*\*

महोदय,

Separate Audit Report (SAR) on the accounts of Indian Institute of Information Technology, Design and Manufacturing, Kurnool, for the year 2020-21, Annexure to SAR and one copy of the Annual Accounts of the Institute for the year 2020-21, are forwarded herewith for placing before the Parliament.

The dates of presentation of Separate Audit Report in both the Houses of Parliament may please be intimated.

Receipt of this letter along with the enclosures may kindly be acknowledged.

भवदीय,

संल:यथोपरि

Sd/-

Director General Of Audit (Central)

✓ No.DGA(C)/CEA/U-II /IITDM/SAR.2020-21/2021-22/ 26

Date:17.02.2022

Copy to: The Director, Indian Institute of Information Technology, Design and Manufacturing, Kurnool, Andhra Pradesh along with one copy of Annual Accounts for the year 2020-21 (English version),with a request to furnish Hindi version of the approved Annual Accounts 2020-21 (2 sets), to this Office.

संल: यथोपरि

ch.v.saij  
DIRECTOR/CEA

**Separate Audit Report on the Accounts of Indian Institute of Information Technology, Design and Manufacturing, Kurnool, for the year ended 31 March 2021**

We have audited the attached Balance Sheet of the Indian Institute of Information Technology, Design and Manufacturing, Kurnool, as at 31 March 2021, Income & Expenditure Account and Receipts & Payments Account for the year ended on that date under Section 19(2) of the Comptroller & Auditor General's (Duties, Powers & Conditions of Service) Act, 1971. These financial statements are the responsibility of the Institute's Management. Our responsibility is to express an opinion on these financial statements based on our audit.

2. This Separate Audit Report contains the comments of the Comptroller & Auditor General of India (CAG) on the accounting treatment only with regard to classification, conformity with the best accounting practices, accounting standards and disclosure norms, etc. Audit observations on financial transactions with regard to compliance with the Law, Rules & Regulations (Propriety and Regularity) and efficiency-cum-performance aspects, etc., if any, are reported through Inspection Reports/CAG's Audit Reports separately.

3. We have conducted our audit in accordance with auditing standards generally accepted in India. These standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatements. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of financial statements. We believe that our audit provides a reasonable basis for our opinion.

4. Based on our audit, we report that:

i. We have obtained all the information and explanations which to the best of our knowledge and belief were necessary for the purpose of our audit.

ii. The Balance Sheet, Income & Expenditure Account and Receipts & Payment Account dealt with by this report have been drawn up in the format approved by Government of India, Ministry of Education for Central Higher Educational Institutions.

iii. In our opinion, proper books of accounts and other relevant records have been maintained by the Institute as required under Finance Bye-Law 31 of the Institute, in so far as it appears from our examination of such books.

iv. We further report that:

**A Balance Sheet:**

**A.1. Sources of Funds: ₹ 93.93 crore**

**A.1.1 Current Liabilities and Provisions ₹ 43.81 crore**

Statutory Liabilities Schedule 3 were incorrectly shown as 'Nil' instead of ₹ 14,08,070. This resulted in overstatement of Capital Fund and understatement of Current Liabilities and Provisions by that extent.

**B. Income and Expenditure Account**

**B.1 Income – ₹ 14.66 crore**

**B.1.1.** An amount of ₹ 1,07,83,000 being Academic Receipts due and unrealized were not accounted for. This resulted in understatement of Surplus Capital Fund and Current Assets by an extent of ₹ 1.07 crore.

**B.2. Expenditure - ₹ 10.64 crore**

An amount of ₹ 11,33,503 received and spent towards sponsored projects consumables was incorrectly included in I&E accounts instead of accounting under Schedule 3(A) on the Liabilities side of Balance Sheet. This resulted in excess accounting of income leading to understatement of Surplus/Capital Fund and overstatement of Current Liabilities and Provisions by ₹ 11.33 lakh.

**C Receipts & Payments Account**

**C.1 Receipts – ₹ 64.21 crore**

(i) Amount received on account of closure of Term deposits amounting to ₹ 1,04,19,350 along with interest was not included as Receipts during the year. This resulted in non-accountal of closed term deposits in the Receipts and Payments account.

**D General**

(i) The Institute is in receipt of loan towards Project/Buildings from Higher Education Funding Agency (HEFA) – Canara Bank. The Institute is discharging the liability of Principal and Interest towards this loan. However, the accounting policy relating to this loan was not disclosed in the Annual Accounts.

- (ii) The fact of payment of ₹ 88,29,758 towards consultancy services of preparation of Master Plan, Statutory submission plans and complete Architectural Designs of Phase I Buildings (permanent campus) made to M/s. Space Matrix Bangalore was not disclosed in the notes of accounts.
- (iii) An amount of ₹ 5,22,94,506 being the advances to CPWD was incorrectly accounted for on both Receipts and Payments side of the Receipts and Payments account. This needs rectification.
- (iv) Value of inventory ie., Stock/Spares/Loose Tools were not included in the Current Assets.
- (v) Discrepancy TDRs: Audit observed the discrepancies of ₹ 15,34,840 in the 'Investments with scheduled Banks encashed' and 'Investments and Deposits Made' with reference to the Bankers Certificates. This needs to be reconciled.
- (vi) The discrepancy of Interest Repayments on HEFA Loans as per Bankers Certificate (₹1,65,02,213) and as per Receipts and Payments Accounts (₹ 1,50,90,707) need to be reconciled.
- (vii) Retirement benefits/Gratuity/Leave Encashment etc., were not accounted for on Actuarial valuation as stipulated by AS -15
- (viii) According to the prescribed formats of financial statements the Institutions shall disclose under Schedule 24: Contingent Liabilities and Notes to Accounts the Capital Commitments/Value of Contracts remaining to be executed on Capital Account and not provided for (Net of Advances). However, Audit noticed that the factual position was not disclosed in the Notes on Accounts.
- (ix) An amount of ₹3,09,650 was received towards Scholarship amounts from Ministry of Tribal Affairs and Social Justice, Government of India. However, this amount was not accounted under VI of the R& P Account.

#### **E. Grants-in-aid.**

Out of grant-in-aid of ₹ 60.30 crore (Unutilized balance as on 01.04.2020: ₹ 27.32<sup>1</sup> crore + ₹32.98<sup>2</sup> crore received during the year), the organization could utilise a sum of ₹ 17.93<sup>3</sup> crore (Revenue ₹8.62<sup>4</sup> crore + Capital grant of ₹ 9.31<sup>5</sup> crore) leaving a balance of ₹42.37<sup>6</sup> crore as unutilized grant as on 31 March 2021.

<sup>1</sup> ₹27,31,08,244 As per Draft SAR for year ended on 31.03.2020

<sup>2</sup> ₹ 32,98,22,213/-

<sup>3</sup> ₹ 17,93,34,945/- (as per Sch. 3(c) & 10)

<sup>4</sup> ₹ 8,62,36,632/- (as per Sch. 3(c) & 10)

<sup>5</sup> ₹ 9,30,98,313/- (as per Sch. 3(c) & 10)

<sup>6</sup> ₹ 42,35,95,512/-

v. Subject to our observations in the preceding paragraphs, we report that the Balance Sheet, Income & Expenditure Account and Receipts & Payment Account dealt with by this Report are in agreement with the books of accounts.

vi. In our opinion and to the best of our information and according to the explanations given to us, the said financial statements read together with the Accounting Policies and Notes on Accounts and subject to the significant matters stated above and other matters mentioned in the Annexure to this Audit Report, give a true and fair view in conformity with accounting principles generally accepted in India:

- a. *In so far as it relates to the Balance Sheet, of the state of affairs of Indian Institute of Information Technology, Design and Manufacturing, Kurnool, as at 31 March 2021; and*
- b. *In so far as it relates to Income & Expenditure Account of the **Surplus** for the year ended on that date.*



**Director General of Audit (Central)**

## ANNEXURE

- 1. Adequacy of Internal Audit System:** There is no separate internal audit wing in the Institution. Internal audit was conducted by a Chartered Accountant Firm
- 2. Adequacy of Internal Control System:** The Internal Control System was not adequate due to the following.
- i. There is no system of surprise check of Stores and Stock.
  - ii. Physical verification of fixed assets was not conducted.
  - iii. Internal Audit wing is not established
  - iv. There was no recruitment of Registrar. Internal Audit and Accounts officer.
  - v. Important records like Indication of the Procurement/Availability of the Asset/Updating of the Registers/Authentication of the competent Officer/conducting of physical verification/Surprise check and verification/tallying the same with the Annual Accounts were not properly maintained.
  - vi. Fixed Assets Registers/Ledgers/Working Sheets etc., in support of Additions to Fixed Assets were not maintained.
- 3. System of Physical verification of fixed assets:** Physical verification of fixed assets was not conducted for the year 2020-21.
- 4. System of Physical verification of Inventory:** Physical verification of Inventory was not completed for the year 2020-21.
- 5. Regularity in payment of statutory dues:** Statutory dues were paid regularly barring those mentioned in SAR.

  
Director/CEA



**Indian Institute of Information Technology Design and Manufacturing Kurnool**  
**INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31ST MARCH 2021**

INCOME	SCHEDULE	(Amount in Rupees)		
		2020-21	Capital Fund	Total 2020-21
				2019-20
Academic Receipts	9	51,936,194	0	51,936,194
Grants / Subsidies	10	86,236,632	0	86,236,632
Income from Investments	11	0	0	0
Interest Earned	12	6,496,885	0	6,496,885
Other Income	13	496,650	0	496,650
Prior Period Income	14	0	0	0
Overhead Charges on Sponsored Projects		313,372	0	313,372
Sponsored Projects Grants to the extent spent for consumables		1,133,503	0	1,133,503
<b>TOTAL (A)</b>		<b>146,613,236</b>	<b>0</b>	<b>146,613,236</b>
<b>EXPENDITURE</b>				
Staff Payments & Benefits (Establishment Expenses)	15	51,071,041	0	51,071,041
Academic Expenses	16	6,263,803	0	6,263,803
Administrative and General Exp	17	11,303,624	0	11,303,624
Transportation expenses	18	1,311,337	0	1,311,337
Repairs & Maintenance	19	795,252	0	795,252
Finance Cost	20	15,092,294	0	15,092,294
Depreciation	4	19,431,838	0	19,431,838
Other Expenses	21	1,133,503	0	1,133,503
Prior Period Expenses	22	0	0	0
<b>TOTAL (B)</b>		<b>106,402,692</b>	<b>0</b>	<b>106,402,692</b>
<b>Balance being excess of Income over Expenditure (A-B)</b>				<b>88,380,744</b>
Less : Transfer to Corpus Fund		40,210,544	0	40,210,544
a) Tuition Fee		44,789,984		44,789,984
b) Overhead Charges of Sponsored Projects				
c) Interest on Corpus Fixed Deposits				
<b>TOTAL (B)</b>				
Others if Any				
<b>Balance being surplus (Deficit) carried to Corpus Fund</b>		<b>-4,579,440</b>	<b>0</b>	<b>-4,579,440</b>
				<b>17,253,056</b>

*S. Ramesh Gupta*  
**S. RAMESH GUPTHA**, B.Com., F.C.A.,  
 Chartered Accountant  
 #40/810, Srinivasa Nagar,  
 KURNOOL.

*K. S. Rangadhara*  
**(K. S. RANGADHARA)**  
 OFFICER ON SPECIAL DUTY  
 (FINANCE & ACCOUNTS)  
 IIITDM, KURNOOL-518007.



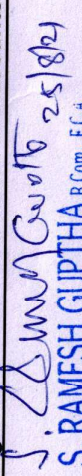
*D.V.L.N. Sornayajulu*  
**D V L N Sornayajulu**  
 Director  
 IIITDM KURNOOL

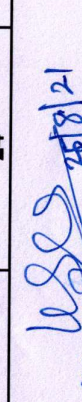
INDIAN INSTITUTE OF INFORMATION TECHNOLOGY DESIGN AND MANUFACTURING KURNOOL					
RECEIPTS AND PAYMENTS FOR THE YEAR ENDED 2020-21					
			(Amount in Rupees)		
RECEIPTS	2020-21	2019-20	PAYMENTS	2020-21	2019-20
<b>I. Opening Balances:</b>			<b>I. Expenses</b>		
Canara Bank -2129	13	0	a) Establishment Expenses	51,071,041	25,515,327
Canara Bank ESCRO - 661201002132	109,000,000	0	b) Academic Expenses	6,263,803	20,514,460
Icici-027905015529	10,000	0	c) Administrative Expenses	11,303,624	20,135,212
ICICI Bank A/c	1,457,304	0	d) Transportation Expenses	1,311,337	4,570,530
SBI-34955766501	8,680	46,831,937	e) Repairs & Maintenance	795,252	333,160
Saving A/c(SBI -37809637878)	9,254,610	7,291,788	f) Other Expenses	1,133,503	432,100
SBI -7844	801,154	5,067,540	g) Finance Costs	15,092,294	2,726,455
SBI CA -37806955974	2,762,418	1,096,799			
SBI Kurnool Corpus 26299	13,583	535,032	<b>II. Payments made against Earmarked / Endowment Funds</b>		
SBI Padur 1129	9,997	3,826,143	--- Earmarked Fund	0	0
			--- Endowment Fund	0	0
<b>II. Grants Received</b>			<b>III. Payments against Sponsored Projects / Schemes</b>		
a) From Govt. of India				0	0
--- Towards General Fund	329,960,788	235,900,000	<b>IV. Payments against Sponsored Fellowships / Scholarships</b>		
--- Towards Revenue Exp	0	0		0	0
b) From State Government	0	0			
c) HEFA Loan	0	255,400,000			
d) SERB	3,503,720	2,249,870			
d) DVLS Gold Medal Fund	0	200,000			
<b>III. Academic Receipts (As per Annexure)</b>	51,936,194	60,978,252	<b>V. Investments and Deposits made</b>		
			a) Out of Earmarked / Endowments funds	0	200,000
<b>IV. Receipts against Earmarked / Endowment Fund</b>			b) Out of Own funds	0	0
--- Earmarked Fund - SC / ST Sub Plan	0	0			
--- Endowment Fund	0	0	<b>VI. Term Deposits with Scheduled Banks</b>	113,106,750	167,372,075
			(		
<b>V. Receipts against Sponsored Projects / Schemes</b>			<b>VII. Expenditure on Fixed Assets and Capital Works - in - Progress</b>		
a) Atal FDP Programme	30,000	0	a) <b>Fixed Assets</b>		
			i) Site Development	8,839,758	13,698,900
			ii) Electrical Installation & Equipment	0	4,347,146
			iii) Equipment	7,743,425	379,601
			iv) Scientific & Laboratory Equipment	3,610,264	6,763,084
			v) Audio Visual Equipment	402,368	556,776
			vi) Computers & Peripherals	5,954,737	6,214,275
			vii) Furniture, Fixtures & Fittings	3,485,997	7,487,085
			ix) Lib. Books & Scientific Journals	1,135,686	1,423,580
			x) Land scapping & Horticultural	1,760,001	456,986
			xi) Roads & Bridges	173,250	0
			<b>b) Intangible Assets</b>		
			i) Computer Software	7,698,321	4,432,677

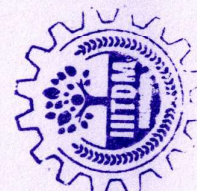
(K. SARANGADHARA)  
 OFFICER ON SPECIAL DUTY  
 (FINANCE & ACCOUNTS)  
 IIITDM, KURNOOL-518007.

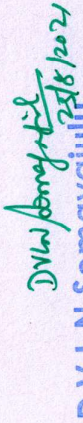


INDIAN INSTITUTE OF INFORMATION TECHNOLOGY DESIGN AND MANUFACTURING KURNOOL			
BALANCE SHEET AS AT 31st March 2021			
SOURCES OF FUNDS	SCHEDULE	(Amount in Rupees)	
		2020-21	2019-20
Capital Fund/Corpus Fund	1	374,859,213	286,340,340
Designated / Earmarked	1A	126,122,042	81,302,058
Endowment Funds DVLS Gold Medal Fund	2	0	0
Current Liabilities & Provisions	2A	200,000	2,449,870
	3	438,164,670	539,726,864
<b>TOTAL</b>		<b>939,345,925</b>	<b>909,819,132</b>
<b>APPLICATION OF FUNDS</b>			
<b>Fixed Assets</b>			
-- Tangible Assets	4	362,778,429	344,146,654
-- Intangible Assets		5,505,528	2,765,334
-- Capital Work in progress		61,403,636	9,109,130
<b>Investments</b>	5	0	0
-- Long Term		200,000	200,000
-- Short Term			
<b>Investments - Others</b>	6	0	0
<b>Current Assets</b>	7	507,278,935	283,352,479
<b>Loans, Advances &amp; Deposits</b>	8	2,179,397	270,245,535
<b>TOTAL</b>		<b>939,345,925</b>	<b>909,819,132</b>
<b>Significant Accounting Policies</b>	23		
<b>Contingent Liabilities and Notes to Accounts</b>	24		

 25/8/21  
**S. RAMESH GUPHA**, B.Com., F.C.A.  
 Chartered Accountant  
 #40/810, Srinivasa Nagar,  
 KURNOOL.

 25/8/21  
**(K. SARANGADHARA)**  
 OFFICER ON SPECIAL DUTY  
 (FINANCE & ACCOUNTS)  
 IIITDM, KURNOOL-518007.



 25/8/2021  
**D V L N Somayajulu**  
 Director  
 डि वि एल एन सोमायाजुलू  
 IIITDM KURNOOL



INDIAN INSTITUTE OF INFORMATION TECHNOLOGY DESIGN AND MANUFACTURING KURNOOL

Jagannathagattu, Kurnool, Andhra Pradesh, India- 518 007.