INDIAN INSTITUTE OF INFORMATION TECHNOLOGY, DESIGN AND MANUFACTURING, KURNOOL

(An Institute of National Importance under Ministry of Education)

Placement Brochure

2020 – 2021

About Us

"To become a leading institute of higher learning in Information Technology enabled design & manufacturing to create technologies and technologists befitting the industries globally."

Indian Institute of Information Technology, Design & Manufacturing, Kurnool (IIITDMK) was announced in 2014 after receiving the assent of President of India to the Institutes of Information Technology Act, 2014, and its subsequent publication in the Gazette of India, Extraordinary, Part- Il, Section I, on December 08, 2014. The institute was announced by the Government of India to give effect to its obligation under the Andhra Pradesh reorganization act 2014. IIITDM Kurnool is fully funded by Ministry of Education. IIITDM Kurnool launched its academic program with the support of its mentor Institute, IIITDM Kancheepuram (Tamil Nadu), in August 2015 from the Kancheepuram campus. Consequently upon the approval of parliament, IIITDM Kurnool was accorded the status of Institute of National Importance by making an amendment in the IIIT act 2014 on August 03, 2017. In 2015 the Andhra Pradesh government allocated an area of 190 acres for the establishment of a permanent campus in Kurnool.

IIITDM Kurnool campus is located far away from the bustling life of metropolis in the mineral-rich mountain trails of Rayalaseema region of Andhra Pradesh. The place offers a perfect environment to nurture a peaceful state of mind required to carry out research and other student activities. The campus is built across disparate mountains and green valleys' offering a scenic view of sunrise and sunset.

The campus is strategically located alongside Rayalaseema Express Highway (NH40), and at a partly distance of 20 kilometres from Kurnool airportThe institute started functioning at its permanent campus at Kurnool from July 2018. Currently, students have been provided accommodation at Narayanamma, Kalam and Kalpana Chawala hostel for boys and girls respectively. Narayanamma hostel (Gayatri Estates) is at a distance of 8 KM from the permanent campus. It is expected that within a few years the Institute would be able to put in place an excellent infrastructure required to house a strong student community and world-class faculty, state-of-the-art laboratories and sports amenities in the permanent campus. Currently, the Institute offers admissions to B. Tech and M.Tech programs in the branches of Computer Science, Electronics and Communication Engineering, and Mechanical Engineering.

DIRECTOR'S MESSAGE:

Prof. DVLN Somayajulu
Director
IIITDM Kurnool

Indian Institute of Information Technology, Design and Manufacturing (IIITDM), Kurnool is the youngest among five centrally funded IIITDMs and established as a part of Andhra Pradesh Reorganization act in the academic year 2015-16 at the historical city of Kurnool in Rayalaseema region.

Our institute is recognized as an Institution of National Importance by an act of Parliament. The institute has a permanent campus at Jagannathagattu, Dinnedevarapadu, Kurnool. The institute offers four undergraduate programs in Computer Science and Engineering, Artificial Intelligence and Data Science, Electronics and Communications Engineering and Mechanical Engineering with a total annual intake of 180 students, three Masters Programs in Data Analytics and Decision Sciences, Electronic System Design, and Smart manufacturing with an annual intake of 45 students, and Post graduate programs.

Our campus is located at one of the most scenic locations of Kurnool covering 190 acres of land making it a best and pleasant experience for young and aspiring students. Being adjacent to Nandyal – Kadapa highway, the institute is well connected to all parts of the country.

The faculty members are highly qualified with Doctoral degrees from reputed institutes/industries from pan India and foreign countries. Few of them, are a part of industry bodies and offer real-time education to students addressing day to day problems of disparate nature. Two batches of students have successfully completed their undergraduate program from IIITDM, and are doing very well in their professional lives.

The institute's goal is to provide aesthetically pleasing, environment-friendly green campus facilities to enhance the learning, teaching and inter-disciplinary research activities. The institute has organized various Techno-Cultural activities to enhance the practical learning and Industry Exposure of the students.
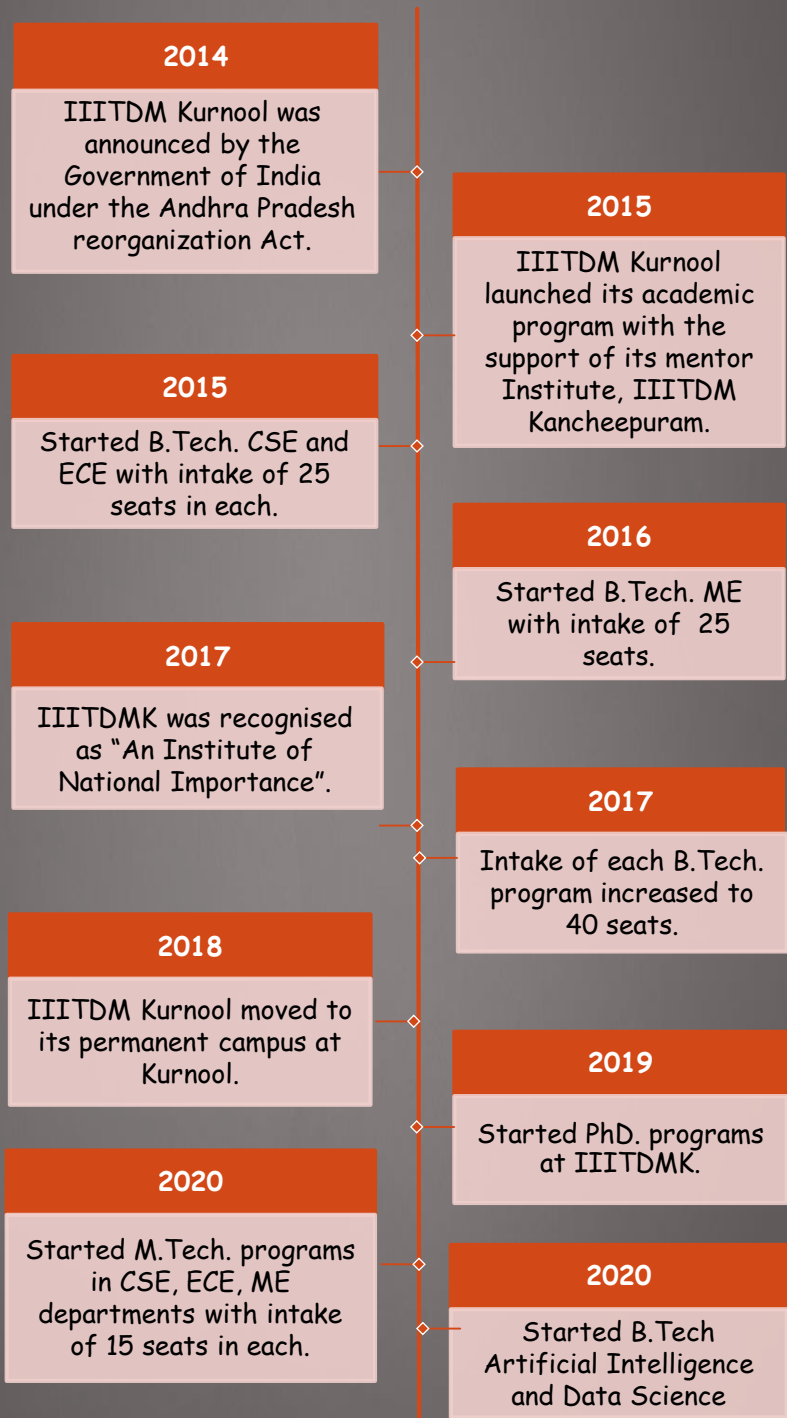
I am sure that our students and faculty will carry the flagship of IIITDM Kurnool to greater heights by applying their knowledge in an interdisciplinary manner to provide solutions for disparate industrial bodies, societal research and development of projects. We in IIITDM, Kurnool follow a serious mantra, where our students and faculty members stand as responsible and dedicated technocrats in the process of nation building.
I wish all my students best of luck.

Jai Hind.

Journey of IIITDM Kurnool

Timeline

2014

IIITDM Kurnool was announced by the Government of India under the Andhra Pradesh reorganization Act.

2015

IIITDM Kurnool launched its academic program with the support of its mentor Institute, IIITDM Kancheepuram.

2015

Started B.Tech. CSE and ECE with intake of 25 seats in each.

2016

Started B.Tech. ME with intake of 25 seats.

2017

IIITDMK was recognised as "An Institute of National Importance".

2017

Intake of each B.Tech. program increased to 40 seats.

2018

IIITDM Kurnool moved to its permanent campus at Kurnool.

2019

Started PhD. programs at IIITDMK.

2020

Started M.Tech. programs in CSE, ECE, ME departments with intake of 15 seats in each.

2020

Started B.Tech Artificial Intelligence and Data Science

DEPARTMENTS

COMPUTER SCIENCE AND ENGINEERING:

Computer Science and Engineering curriculum is modeled 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 that relates to computation, like 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.

- B.Tech - Computer Engineering
- B.Tech Artificial Intelligence and Data Science
- M.Tech - Computer Science and Engineering with specialization in Data Analytics and Decision Sciences

ELECTRONICS AND COMMUNICATION ENGINEERING:

Today's electronic product design and development requires the skillful 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 program prepares you for a wide range of engineering study and career options, including business, biomedical engineering, computer hardware, the aerospace industry, computer software, Nano electronic chips, photonics, nanoengineering, robotics, and solar energy harvesting and distribution.
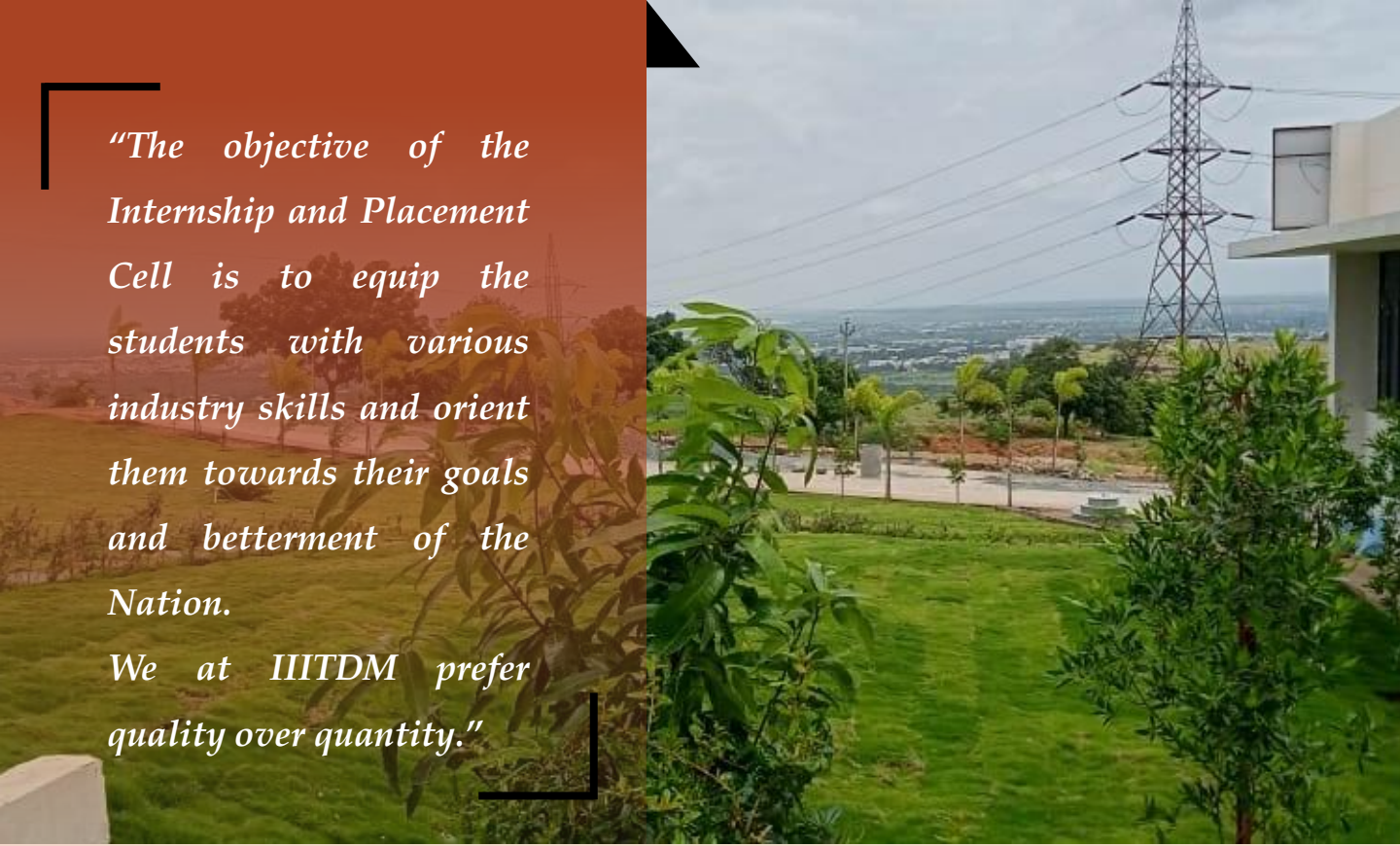
- B.Tech - Electronics and Communication Engineering
- M.Tech. - Electronic System Design

MECHANICAL ENGINEERING:

Mechanical Engineering with specialization in Design and Manufacturing 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 interdisciplinary areas of design and manufacturing engineering.

Design visualization imparted through graphic art practice and product design practice enable 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.

- B.Tech - Mechanical Engineering
- M.Tech - Smart Manufacturing

"The objective of the Internship and Placement Cell is to equip the students with various industry skills and orient them towards their goals and betterment of the Nation.
We at IIITDM prefer quality over quantity."
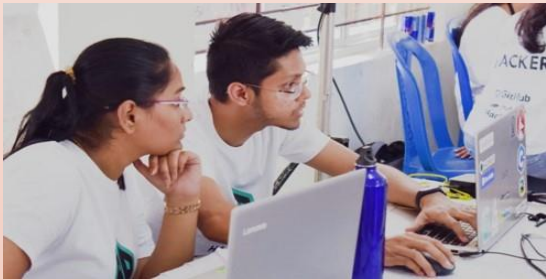
INTERNSHIP AND PLACEMENT CELL:

FUNCTIONS:

- To nurture the Industry-Institute-Interaction, collaborate as a partner with various industries to identify suitable opportunities for the students of the Institute for getting exposure to current trends in technology and business processes.

- To establish a state of the art in house training programs in order to enhance the employability skills of the students.

- Communicate with various reputed organizations/companies to conduct Internships and Placement drives in order to fulfil the career aspirations of the students.

- Gather feedback on curriculum improvement from collaborative organizations/companies, to ensure that our students are honed in the right direction, to become quality engineers for a successful future.

- Ensure 100% placement of the students.

ACHIEVEMENTS

Smart India Hackathon

Ashutosh Hathidara, Nischay Pandey, Amit Sharma, Vibhor Srivastava, Prasoon Mishra, Milton Das and Vasavi Varaganti made it to the finals of SIH 2019 and developed a prototype software for solving the complex category problem - Customer automated ticket generation system provided by KG InfoSystem Pvt. Ltd.

Hack Bout

Paras Varshney, Devi Sai Prashanthi participated in Hack Bout organized by NMIT Bangalore and built a deep pricing analyzing engine for generation and prediction of various pricing models to analyze the dynamic price of Airbnb rooms rental system in the US.

Virtusa Neural Hack 3

Anoushka Mada won Virtusa Neural Hack 3 in the Full Stack Development category. Neural Hack is the annual challenge organized by the American information technology services company Neural Hack.

DevHack 2.0

❑ Sahil Mishra, Abhishek Singh, Jayanta Das and Shubham Negi participated in DevHack 2.0 - PARSEC organized by IIT Dharwad software category and developed a Prescription Generator for Doctors, a mobile application prototype that records the conversation between patient and doctor and generates a prescription.

❑ Surya Teja, Ashutosh Sharma, Priyanshu Srivastava participated in DevHack 2.0 - PARSEC organized by IIT Dharwad in the hardware category and developed Smart Dustbin 2.0 which automatically segregates the waste into various categories to ensure a smooth flow of recycling and waste management.

National Level Events

GSoC

Ashwin Bhat got selected in eli5 organization in GSoc 2019. ELI5 is a Python library which allows to visualize and debug various Machine Learning models using unified API. It has built-in support for several ML frameworks and provides a way to explain black-box models.

MIT India Initiative

Ashutosh Sharma got accepted into MIT India Initiative - 2019. The MIT India Initiative is a not-for-profit effort of students and alumni from the Massachusetts Institute of Technology to delve into pressing problems in novel, challenging contexts, and tackle these with technology and design.

IICDC

❑ **Abhishek Singh, Jayanta Das, Shubham Negi, Ashutosh Sharma, Girish JP, Mukesh Chander and Akash Singh** have been selected for IICDC Semifinals for developing a fully automatic food vending machine. The system eliminates human errors and ensures quality, hygiene and tasty food.

❑ **Adithya, Krishna vidhan, Kanthi deep, Rajkumar and Dileep** have been selected for IICDC Semi-finals for developing a autonomous robot that could handle the tasks in the hospitals like carrying medicine, monitoring the patient's body temperature and help to reduce workload on staff.

IoT Challenge

- ❑ **Akash, Lasya, Akhila, Mukesh** made it to finals of IoT challenge by I3Indya and developed a system to analyze water level in dams and alert the nearby places beforehand in case of any catastrophic situations and presented at Radiance 2019 IIT Bombay.

- ❑ **Aditya, Harsha, Sainath, Surya Teja** also made it to finals of IoT challenge by I3Indya and developed a system to analyze the pattern of power and water usage by students in hostels with smart hostel controls and presented at Radiance 2019 IIT Bombay.

Student's
PUBLICATIONS

- ▪ **Hariveer Inumarty** and Dr. 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.

- ▪ **Sai Kaushik**, Dr. Pulla Rao Muvvala, and Dr. Satya Sekhar Bhogilla, "Solar Photovoltaic/Thermal System (PVT) with Thermal Energy Storage for Air-conditioning Applications", International Conference on Innovations in Thermal-Fluid Engineering and Sciences, Feb. 2020, NIT Rourkela.

- ▪ **A.Sai Kaushik**, R.Sanjay Kumar, and Dr. R.Srilakshmi, "Fracture analysis of Gear drive using FEA", Proceedings of ICMPT 2019, July 11-13, IIT Madras, Chennai.

- ▪ **Vedant mate**, Dr.R.Srilakshmi , received best paper award at the "International conference for emerging research in Civil, Aeronautical and Mechanical engineering" held in Bangalore from 25th -26th, July 2019 .

- ▪ **Sahil Mishra** and Sanjaya Kumar Panda, "Cyber Security: Applications in Digital World", CSI Communications, Volume 43, Issue 8, pp.16-17-2019.

- ▪ **Sahil Mishra** and Sanjaya Kumar Panda, "Cloud Computing: Applications, challenges and Open issues", CSI Communications, Volume 43, Issue 7, pp.9-10-2019.

WORKSHOPS

IoT Guest Lecture

A guest lecture on "Overview of next generation internet technologies" was delivered by Shri Shivakumar Mathapathi , co-founder of Dew mobilities and an experienced adjunct faculty from Santa Clara university, San Jose state , USA on 6th September 2019. He gave insights of the trending technology IoT i.e., internet of things.
Through the lecture he emphasized on how IoT helps in building a smart city, smart agriculture and provides an assisted living. He showed his works like the smart trash monitoring system and smart trail traffic monitoring system which were designed for a city in USA and explained the underlying IoT principles.

GOOGLE EXPLORE ML

Google's beginner session of 'EXPLORE ML' was organized by Google's Developer Student Club at IIITDM Kurnool on 20th October 2019. Google's `EXPLORE ML' facilitator Ashutosh Hathidara took the session forward by giving his perception of Machine learning. Insight into preliminary concepts of machine learning was given with intriguing PowerPoint presentations. Recent booming apps released by Google were discussed in the session. To explain the potential of ML to the beginners, real life examples of how the ML has transformed the lifestyle over the years, have been quoted. Google's the session concluded With Developer Student Club's lead Nischay Panday speaking about the functioning of the club and it's vital role in development of community in the field of technology.

Hands on workshop – 3D Printing

IIITDM Kurnool in collaboration with **Sphere Tech Innovations, Chennai** organized
 a 3D printing workshop on September 28th & 29th, 2019. Prof D V L N Somayajulu
(Director, IIITDM Kurnool) inaugurated the workshop and gave an insight on how this
emerging technology is revolutionizing the manufacturing Industry 4.0. P Kalai Selvan, the CEO
& founder of Sphere Tech Innovations provided a deep exposure on current trends of 3d printing technology.
The two days hands on session came up with a combo of building, working and having their own 3D printer. The session was lively and hands-on. About 90+ students from IIITDM & other collages such as GPREC, JNTUA actively participated and contributed to the success of workshop. Dr. Murali, Dr Eswarmoorthy and Dr. Akhtar Khan coordinated the whole 2-day workshop.

CYBER SECURITY WORKSHOP

A workshop on CYBER SECURITY was organized in association with The Adiroha Solutions Pvt Ltd, a company in the domain of cyber security and ethical hacking. The workshop was conducted in two sessions. The first session encompassed the networking basics, Introduction to ethical hacking and information gathering whereas in the second session topics like system hacking, hacking wireless networks, website hacking, various security standards, hacking mobile platforms were discussed. It was a very interactive session and students participated with great zeal and gained a ton of cognizance through it.

NATIONAL SCIENCE DAY

National Science day 2020 was celebrated ebulliently at IIITDM Kurnool. The institute organized the first open day to stimulate scientific temperament in young minds. Open day at IIITDM Kurnool has attracted around 800 students from various educational institutes. Expert talks, Project demonstration, Workshops, Astrophotography, Quizzes and telescope sky gazing were organized as a part of the event. The theme for the science day was "WOMEN IN SCIENCE" . The director of the institute, Prof. DVLN Somayajulu has addressed the gathering. in science. Dr. B Ramakrishna, Sr. Scientist at DRDO delivered a lecture on Armor technology. Shri P. Chandrasekhar, Sr. Scientist from ISRO gave an insight into "Remote Sensing Technology". Dr Jayakumar Venkatesan, CEO of Valles Mariners delivered a lecture on "Human spaceflight programme". Mr. Kalai Selvan conducted workshops on Tesla coil, Magnetic levitation, walking robot and 3D printing technology. The event could successfully forge an interest in the field of science among the young minds.

WORKSHOP ON DRONE TECHNOLOGY

A two-day workshop on drone technology was conducted by Centillion Networks Private Limited from 29th February – 1st March. The workshop was organized in three segments. The first session was an introductory session to drone technology in which different models and configuration of drones, components of drones were discussed. The following session was about principles involved in working of drones. In the concluding segment the construction of drones was demonstrated and participants were given an opportunity to get hands-on experience in operating the drones.
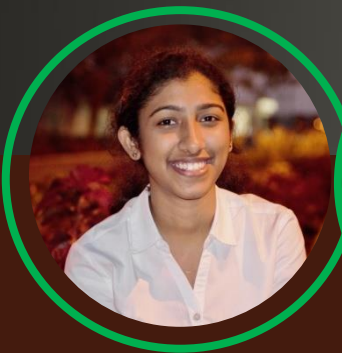
ATAL AICTE WORKSHOP

IIITDM Kurnool hosted the workshops organized by the AICTE training and learning (ATAL) Academy in various domains of Computer Science. A Data Science workshop was Organized between 21st to 25th November. The event was coordinated by our esteemed director Prof DVLN Somayajulu and he addressed the huge gathering providing them a comprehensive view about the trending technology. Consequently a workshop on Artificial intelligence was conducted from 28th November to 2nd December, coordinated by Dr P.Renjith . The guest of honor Dr.Bangarabapu Popuri, HOD(ME), NIT Warangal addressed the gathering. The program had broadened the perspectives of visualizing the things in a more autonomous way. Also a remarkable workshop on the budding technology "Internet of Things" was held from 5th to 9th December coordinated by Dr Sanjaya Kumar Panda. The guests of honor Dr. K. K. Soundra Pandian, Scientist, MeitY, Govt. of India, Prof. Shivakumar Mathapathi, CTO - Dew Mobility - USA, Dr. Aloknath De, Corporate Vice President and Chief Technology Officer, Samsung R &D,Prof. D. Janakiram IIT, Madras shared their valuable insights With the gathering. An IoT lab was inaugurated at our campus here by Prof D.Janakiram along with our director Prof DVLN Somayajulu. Also two memorandum of understanding(MoU's) were signed between IIITDM Kurnool and IIT Madras and also Xtrans solutions that concluded the workshops on a good note.

Placement Statistics

S.no.	Details	Statistics
1	No of students registered for placements	30
2	No. of offers received	20
3	% of offers received	66.6%

Anoushka Mada

Amazon

30 LPA(off campus)

Paras Varshney

Illumnus

16.4 LPA(off campus)

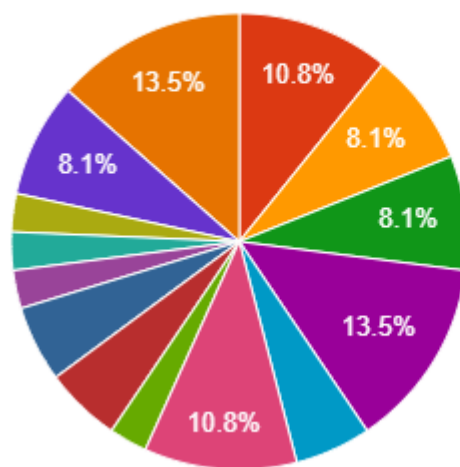**Ashutosh Hathidara**

Legato Health Technologies

12 LPA

Devisai prashanthi

Legato Health Technologies

12 LPA

2016-2020

- Virtusa(OC)
- MAQSoftware
- Mroads
- LevaData
- CentillionNetwo…
- CodeTantra
- Delhivery
- Edureka
- Legato
- Amazon

10.8% 8.1% 8.1% 13.5% 10.8% 8.1% 13.5%

1/2

S. No	Status	Participating Companies	Offered Gross Package	No. Of Offers
1	ON CAMPUS	VIRTUSA	5-7LPA	4
2		MAQ SOFTWARE	6 LPA	3
6		MROADS	7- 8 LPA	3
7		LEVADATA	7 LPA	5
8		CENTILLION NETWORKS	3-5LPA	2
9		CODE TANTRA	3.5 - 5.5 LPA	(4) ON HOLD
10		DELHIVERY	8-10LPA	1
11		EDUREKA	5-6LPA	2
13		LEGATO	12 -18 LPA	2
14	OFF CAMPUS	AMAZON		1
15		VIRTUSA		1
16		ILLUMNUS		1
17		TCS		3
18		WIPRO		5
	Total No. Of Offers Received			*32*

Placement Statistics

S. No	Details	Statistics
1	No of students registered for placements	36
2	No. of offers received	26
3	% of offers received	72.2%

Sri Nithya

Societe generale

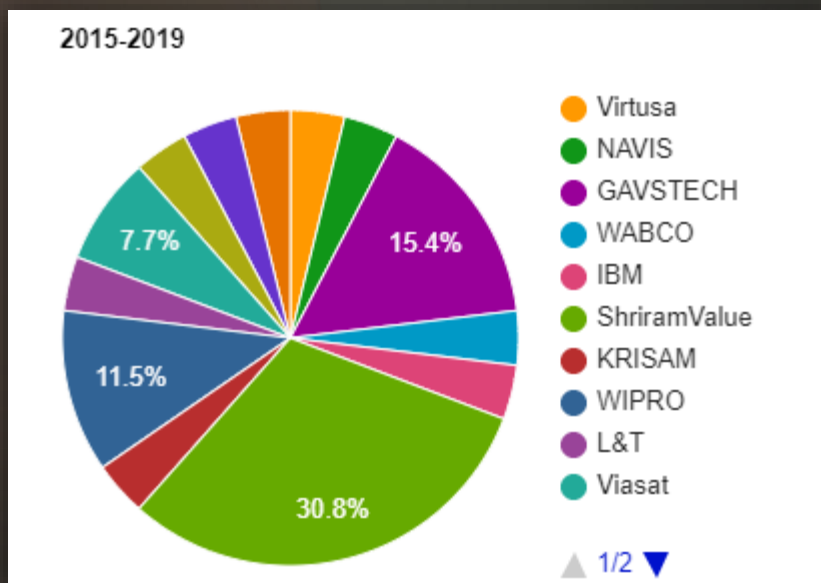17.7 LPA (Off-campus)

Harshitha Kurra

Paypal

10.5 LPA

Ashwin Bhushan Bhat

Navis

10 LPA

2015-2019

- Virtusa
- NAVIS
- GAVSTECH
- WABCO
- IBM
- ShriramValue
- KRISAM
- WIPRO
- L&T
- Viasat

15.4%

7.7%

11.5%

30.8%

▲ 1/2 ▼

SI No.	Organisation Name	No of offers	Package
1	Virtusa	1	5
2	NAVIS	1	10
3	GAVS TECH	4	5
4	WABCO	1	5.55
5	IBM	1	4.5
6	Shriram Value	8	3.5
7	KRISAM	1	4
8	WIPRO	3	3.5
9	L & T	1	4
10	Viasat	2	6
11	PPO ENTRAYN	1	6
12	PayPal-Intern	1	10.5
13	Cyber Security	1	4
Total no. of offers received		**26**	
Average package received		**4.77 (LPA)**	

Contact US

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