

INDIAN INSTITUTE OF INFORMATION TECHNOLOGY DESIGN AND MANUFACTURING KURNOOL

An Institute of National Importance
Under the Ministry of Education, Govt. of India



**PLACEMENT
BROCHURE**

2024-25



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DIRECTOR'S MESSAGE

Indian Institute of Information Technology Design and Manufacturing (IIITDM) Kurnool is the youngest among five centrally funded IIITDMs and established as 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 Jagannatha Gattu, Dinnedevapadu, Kurnool. The institute offers four undergraduate programmes, namely, Computer Science and Engineering, Artificial Intelligence and Data Science, Electronics and Communication Engineering and Mechanical Engineering, with a total annual intake of 240 students, three MTech Programmes, namely, Data Analytics and Decision Sciences, Electronic System Design and Smart manufacturing, with an annual intake of 45 students, and PhD programmes.

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

All the faculty are highly qualified with PhD degrees from reputed institutes across India and outside India.

The Institute's goal is to provide aesthetically pleasing, environment-friendly green campus facilities to enhance the learning, teaching and interdisciplinary 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 various industrial, societal and research and development projects and will stand as responsible and dedicated technocrats in the process of nation building.

I wish my students all the best in all their endeavors.
Jai Hind

PLACEMENT INCHARGE'S MESSAGE



Unleashing Innovation: IIITDM Kurnool's 2025 Graduates – Ready to Lead

In today's dynamic technological landscape, companies need adaptable and forward-thinking leaders. At IIITDM Kurnool, we take pride in cultivating a vibrant learning environment that empowers students to not only master core technical skills but also thrive in real-world scenarios.

Our Graduates:

- **Technical Expertise:** Our rigorous curriculum equips graduates with a deep understanding of core and specialized fields, ensuring they possess the technical proficiency to tackle complex challenges.
- **Beyond Tech:** We foster a holistic learning experience that transcends technical knowledge. Students develop strong communication, collaboration, and interpersonal skills, making them well-rounded professionals ready for leadership roles.
- **Adaptability & Problem-Solving:** Through a combination of classroom learning, practical projects, case studies, and participation in various activities, our graduates develop critical thinking and problem-solving skills. They are adept at adapting to new technologies and constantly evolving industry demands.

Our Collaborative Approach:

- Faculty Mentorship: Our dedicated faculty provides continuous guidance and support, fostering an environment where students can push their boundaries and explore innovative solutions.
- Industry Partnerships: We collaborate with leading companies to ensure our curriculum reflects real-world needs. This allows students to gain practical experience through internships and live projects, preparing them for seamless integration into the workforce.

Proven Success:

- Our graduates consistently secure positions in top-tier organizations, a testament to the effectiveness of our programs and the value they bring to employers.

Join Us in Shaping the Future:

- By partnering with IIITDM Kurnool, you gain access to a pool of highly talented and adaptable graduates prepared to lead the next generation of technological innovation. We look forward to working together to foster continued success for both our students and your organization.

Call to Action:

- Contact us today to learn more about our graduates and how we can help you achieve your talent acquisition goals.



OUR INSTITUTE

“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- II, Section I, on December 08, 2014. The Institute 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 situated at the top of a hill that oversees the Kurnool city. The beautiful mountain and valley offer a scenic view of sunrise and sunset. The campus is located alongside the Rayalaseema Express Highway (NH 40) at a paltry distance of 20 kilometers from Kurnool Airport. Our Institute has excellent infrastructure, world-class faculty, state-of-the-art laboratories and sports amenities in the permanent campus. Currently, the Institute offers admissions to B. Tech, M. Tech and Ph.D programmes in the branches of Computer Science Engineering, Electronics and Communication Engineering, Mechanical Engineering, Artificial Intelligence & Data Science.

OUR JOURNEY AT IIITDM KURNOOL

2014

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

2016

Started BTech CSE, ECE, ME with intake of 40 seats

2018

Inauguration and development of IIITDM Kurnool permanent campus

2020

Started BTech in Artificial Intelligence and Data Science

2022

Intake of students along with supernumerary seats for girl candidates to promote gender equality in Higher Education

2024

Started Dual degree BTech and MTech



2015

IIITDM Kurnool launched its academic programme with the support of its mentor Institute, IIITDM Kancheepuram
Started BTech CSE and ECE with intake of 25 seats in each

2017

IIITDM Kurnool was recognised as “An Institute of National Importance”

2019

Started PhD programmes at IIITDM Kurnool

2021

Intake of branch seats increased to CSE-70, ECE-60, AIDS-60 MECH-50

2023

Started MTech courses in
MECH - Smart Manufacturing, Robotics & Automation
ECE - VLSI & Embedded Systems, Drones & IOT
CSE - Artificial Intelligence & Data Science

OUR VISION

To become a leading Institute of higher learning in Information Technology enabled Design & Manufacturing to create technologies and technologists befitting the industries globally

OUR MISSION

To become a center of excellence pioneering in education, research & development, and leaders in Design & Manufacturing

OUR FOCUS

To carry out advanced research and development activities in Design and Manufacturing technologies, both on its own and on sponsorship basis for the industry

Admission

Our Institute offers comprehensive BTech , MTech, BTech & MTech Dual Degree and PhD programs

1

2

3

PhD

For PhD admissions,
GATE, UGC NET, Joint
CSIR & UGC NET, JEST
and
Institute Entrance Exam is
conducted

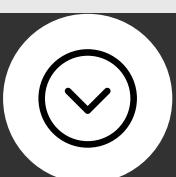
MTech

Admissions are based on
GATE Ranks for the
MTech programmes

BTech & Dual Degree

All those students who have cleared
the Joint Entrance Examination (JEE
Mains) and have a valid AIR, are
eligible for taking admission in the
BTech programmes offered by
IITDM Kurnool and which stands
as a testimony in itself about the
quality of our students.

Examinations for Intake



PhD

UGC - Net
UGC
NET
Joint CSIR
Institute Entrance
Exam

MTech

GATE Rank

BTech

All India Rank based on JEE Mains

BTech & MTech Dual Degree

All India Rank based on JEE Mains

ACADEMIC PROGRAMME

BTech

- Artificial Intelligence and Data Science
- Computer Science and Engineering
- Electronics and Communication Engineering with Specialization in Design and Manufacturing
- Mechanical Engineering with Specialization in Design and Manufacturing

MTech

- Computer Science and Engineering
- Artificial Intelligence and Data Science
- VLSI and Embedded System
- Smart Manufacturing, Robotics & Automation

PhD

- Computer Science and Engineering
- Electronics and Communication Engineering
- Mechanical Engineering
- Physics, Mathematics & English

CORPORATE CONNECT

KURNOOL COLLABORATION

Engagement with a large integrated industrial town, which hosts more than 75 MNCs from 5 countries enabled through industry partners.

SENATE & PROGRAMME ADVISORY GROUP

Academics from top institutes in India and executive segments share their expertise for curriculum design.

MULTILEVEL ENGAGEMENT

Teaching of courses, workshops, curriculum reviews, project evaluations, research committees, internships and semester-long projects.

Artificial Intelligence and Data Science

BTech & MTech in Artificial Intelligence and Data Science is the most demanded degree program 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.

Following are the core courses being taught in the AI & DS department:

BTech

- Linear Algebra
- Python Programming
- Tools and Data Management
- Probability and Statistics
- Introduction to Artificial Intelligence and Data Science
- Data Analysis and Visualization
- Principles of Programming Languages
- Soft Computing
- Machine Learning
- Software Engineering
- Hadoop and Map Reduce Programming
- Big Data Analytics
- Internet of Things
- High Performance Computing
- Cloud Computing
- Game Theory

MTech

- Mathematical Foundations of Data Science
- Advanced Data Structures and Algorithms
- Machine Learning
- HPC and GPU Computing
- Information Retrieval
- Data Privacy
- Marketing Science and Predictive Analytics
- Natural Language Processing
- Big Data Analytics

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 programme offered in India. This programme is aimed at producing engineers equipped with skills required for efficient hardware-software interaction.

The Programme encompasses a variety of topics that relates to computation, like Artificial Intelligence, Parallel Programming, Cloud Computing, IoT, NLP, and Data Science. 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.

Following are the core courses being taught in CSE department:

BTech

- Automata and Compiler Design
- Artificial Intelligence
- Computer Organization Architecture
- Computer Networking
- Database Management Systems
- Design and Analysis of Algorithms
- Discrete Mathematics
- Operating Systems
- Probability & Statistics
- Programming and Data structures
- Software Engineering

MTech

- Mathematical Foundations of Computer Science
- Advanced Data Structures and Algorithms
- Artificial Intelligence
- Computer Systems
- Information Retrieval
- Embedded Systems and IoT
- Big Data Analytics
- Natural Language Processing
- HPC and GPU Computing
- Distributed Systems

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 programme 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, Nano Engineering, Robotics, and Solar Energy Harvesting and Distribution.

Following are the core courses being taught in ECE department:

BTech

- Analog and Digital Communication
- Analog Circuits
- Digital Logic Design
- Digital Signal Processing
- Embedded Systems
- PCB Design
- Microprocessors and Microcontrollers
- Signals and Systems
- Sensing Instrumentation
- VLSI Design
- Wireless Communications

MTech in VLSI and Embedded Systems

- Analog VLSI Design
- Digital VLSI System Design
- VLSI Verification and Testing
- Mixed Signals
- Advanced Computer Architecture
- MOSFET Modelling for VLSI Circuits
- RFIC Design
- Digital Signal Processing and Architectures
- Electronic Packaging and Manufacturing
- Embedded System Design

Mechanical Engineering

Mechanical Engineering with specialization in Design and Manufacturing imparts knowledge on design thinking and interdisciplinary engineering in addition to basic sciences, simultaneously providing hands on experience through practical and laboratory sessions.

Central to the program's ethos is the integration of design visualization through graphic art practice and product design principles. This equips students with the ability to not only conceptualize but also simulate and develop tangible products, fostering a holistic understanding of the design process. The curriculum also includes spectrum of interdisciplinary courses, ranging from Sensors and Control , Electrical Drives and Microprocessors, automation, and advanced manufacturing technology. Students can also widen their knowledge domain by choosing various department related electives as part of their B.Tech curriculum.

Following are the core courses being taught in Mechanical department:

- Additive Manufacturing
- Automation in Manufacturing
- Thermodynamics
- CAD/CAM
- Computational Methods in Engineering
- Machine Tool Technology
- Design of Machine Elements
- Dynamics of Machines
- Fluid Mechanics and Hydraulic Machinery
- Heat Transfer
- Kinematics of Machines
- Mechanics of Materials
- Quality Inspection and Product Validation

LABORATORIES

CSE & AIDS

- Object Oriented Programming Laboratory
- Design and Analysis of Algorithm Laboratory
- Database Systems Laboratory
- Language Laboratory
- Data Communication and Networking Laboratory
- Operating Systems Laboratory
- Product Design Laboratory
- Internet of Things Laboratory
- Big Data Analytics Laboratory
- Machine Learning Laboratory
- Decision science Laboratory
- NLP Laboratory
- Computer Science Laboratory

ECE

- Analog/Digital Electronic Circuits Laboratory
- DSP and Communication Laboratory
- Electric Drives Laboratory
- Electronic Manufacturing and Prototyping Laboratory
- IOT Laboratory
- Microprocessor and Embedded Systems Laboratory
- RF and Microwave Integrated Circuits Laboratory
- Sensing and Instrumentation Laboratory
- VLSI Design Laboratory (Cadence, Xilinx, Sentaurus TCAD)
- Drones Lab-Institutional Project
- 5G Use case Laboratory Institutional Project

MECH

- Fluid Mechanics and Heat Transfer Laboratory
- Manufacturing Automation Laboratory
- Manufacturing Technology Laboratory
- Mechanical Design Laboratory
- Quality Inspection and Product Validation Laboratory
- Thermal Engineering Systems Laboratory

TECHNICAL CLUBS



Google Developers
Student Club

Dataworks



Electrophiles

Bit Squad



Mech-an-idea

Entrepreneurship
and Business Cell



CULTURAL CLUBS



Apertura



ThugD



Roohaniyat



Art Fibres



Astronomy



**Masti Maza
Samooh**



Sahitya



Narthanashala

INTERNSHIPS

As part of the curriculum, every BTech student needs to undergo an internship for a period of 5 months (January - May).

PRE - INTERNSHIP

- Faculty mentors are chosen and assigned to students.
- Students are provided with necessary theoretical inputs like technical skills, project management, goal setting, communication skills, research methodology.

INTERNSHIP

- Internship/Training Coordinator Appointment.
- Alumni Mentor Appointment.
- Weekly activity report .
- Written monthly activity report.
- Visit of Co-op Faculty Coordinator to the internship location.
- Final evaluation of student by the Faculty/Industry mentor.

POST - INTERNSHIP

- Project report submission, with consideration of comments/suggestions from Internship/Training Coordinator.
- Presentation by students to reflect their accomplishments, experiences and learning which adds value to their growth.

ABOUT PLACEMENT CELL

IIITDM Kurnool an ‘Institute of National Importance’ is growing by the day and reaching greater heights. The Institute focuses not only on the career-oriented growth of the students but also on making them resourceful and independent. There is a consistent growth in our placements graph. Graduating, today more than ever needs the student to equip oneself with in-depth knowledge of the subject, which is the prime focus of our teaching at IIITDM Kurnool. Our pedagogy gives equal importance to both theoretical and practical nature of education. The need of the hour is to instill advanced communication skills alongside quality technical expertise. The Placement Cell at IIITDM Kurnool is committed towards achieving 100 percent placements for students. The Placement Cell is active in organizing workshops, guest lectures and seminars and also encourages them to participate in various other extra-curricular activities. We are passionate towards grooming our students not only to become competent, skilled and knowledgeable individuals but also as dedicated and responsible citizens of India.

The Training & Placement Cell provides all audio-visual aids as per the requirement and protocol of the visiting organization for various placement related events such as presentations, conferences, written test, group discussion and personal interviews. If any organization desires to conduct online tests for the students, all the necessary arrangements will be made on campus as per requirements of the organization on prior intimation.

VISION & MISSION OF PLACEMENT CELL

OUR MISSION

Equipping the students with relevant and conceptualized professional skills and guiding them towards a bright future and career all around the world with the values of Sincerity, Hard Work and Justice.

OUR MISSION

To achieve 100% placement for students through dedication, attitude and complete involvement is our mission. The Training and Placement Cell, guided by a set of rules and principles, strives to maintain good relationship with industries. To create maximum opportunities for the placements of the eligible students in the job market by establishing a rapport with the industry people.

RECRUITMENT PROCESS

Companies wishing to participate in the recruitment process at Indian Institute of Information Technology, Design and Manufacturing, Kurnool are requested to indicate the job profile, preferred skill set and CTC by dropping a mail to placementcell@iiitk.ac.in. Based on this information, the schedule for the placement drive is fixed by the placement cell in consultation with the company

ON CAMPUS

The drive is conducted as scheduled. Companies can choose to give a pre-placement presentation. The entire procedure for recruitment (Group Discussion, Aptitude Test, Personal Interview etc.) is as per the company's policy. All facilities and logistics for the recruitment will be arranged by the placement cell.

OFF CAMPUS

Companies which are unable to visit the Campus are provided with the updated CV/Resumes of the registered students. The company may choose to shortlist the students and call them for the recruitment process at their office. Post recruitment process the recruiting company is required to announce and intimate the college placement cell about the final list of selected candidates.

ACHIEVEMENTS



Presented and published a paper titled "High-Performance Data Level Parallelism based Instruction Set Architecture in RISC-V" under the guidance of Dr. Mohammad Asan Basiri in the 7th IEEE Conference on Information and Communication Technology held at IIITDM Jabalpur in December 2023

Participated in eYantra Robotics Competition 2022-23 on the theme of SwachhataBot organized by IIT Bombay and qualified till the 2nd Stage



Enhancing Brain Tumor Diagnosis using CNN Models: A Comparative Analysis

Prathamesh Dinesh Joshi¹

¹Affiliation not available

January 10, 2024

Abstract

Brain tumors, characterized by the emergence of abnormal cell growth within or around the brain, stand as a significant medical challenge with the potential for grave consequences. Regardless of their categorization as benign or malignant, the imperative for swift diagnosis and treatment remains paramount. This research explores the integration of pretrained deep learning models, particularly Convolutional Neural Networks (CNNs) including VGG16, InceptionV3, ResNet50, and NasNetMobile in automating the diagnosis process using MRI scans for the ease of patient and Healthcare Providers. This approach leverages transfer learning and Convolutional Model Adaptation (CAMD) to enhance the diagnostic process. Hyperparameter tuning is integrated to optimize the model's performance, considering factors such as optimization scales, activation functions, momentum, learning rate, and learning rates. By systematically fine-tuning the hyperparameters, remarkable improvements in tumor classification accuracy are demonstrated. This research emphasizes the significance of customized hyperparameter optimization for pretrained models, advancing the accuracy and efficiency of brain tumor detection.

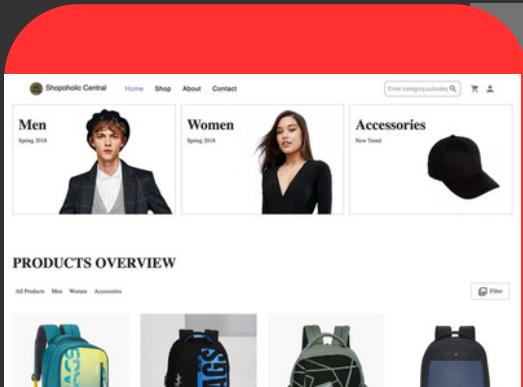
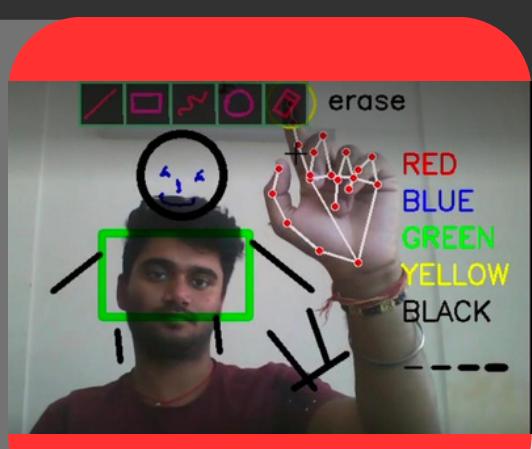
Preprint of Research Paper titled "Enhancing Brain Tumor Analysis using CNN Models: A Comparative Analysis" published on TechRxiv, IEEE's preprint Server. This paper proposes different Hyperparameter Tuning combinations for increasing accuracy of pretrained CNN Models and Highest F1 Score of 99.28% was achieved

ACHIEVEMENTS



In Flipkart level 1.1
Students were asked
Technical Questions
related to DSA and
Blockchain and overall
foundation knowledge of
Computer science was
tested and we were
selected for qualifier
round

Made a full-fledged basic virtual art studio. Used Mediapipe for hand tracking OpenCV for image processing Numpy arrays for efficient data manipulation. The app leverages hand tracking to interpret your finger movements in the air. Behind the scenes, it manipulates color layers and numpy arrays to translate your hand movements into vibrant digital art. The future of painting is here, and it's hands-free!



Created a feature-rich MERN eCommerce platform with User Authentication, Google login, Custom Filtering, Pagination, User Cart and Orders management system. Utilized Stripe for secure payments. Demonstrates adeptness in full-stack web development, delivering an Efficient and Seamless eCommerce experience.

PREVIOUS RECRUITERS



Placement Cell Student Coordinators

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https://twitter.com/iiitdm_kurnool/