



# IARE

## INSTITUTE OF AERONAUTICAL ENGINEERING

Offering Courses in CSE, CSE (AI&ML), CSE (DATA SCIENCE)  
IT, ECE, EEE, AERO, MECH, CIVIL



# TOPPERS' TOP CHOICE



ENGINEERING  
CATEGORY  
RANK 151-200

NAAC  
ACCREDITATION

A<sup>++</sup>  
GRADE

PROSPECTUS 2026-27

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# Welcome to Institute of Aeronautical Engineering

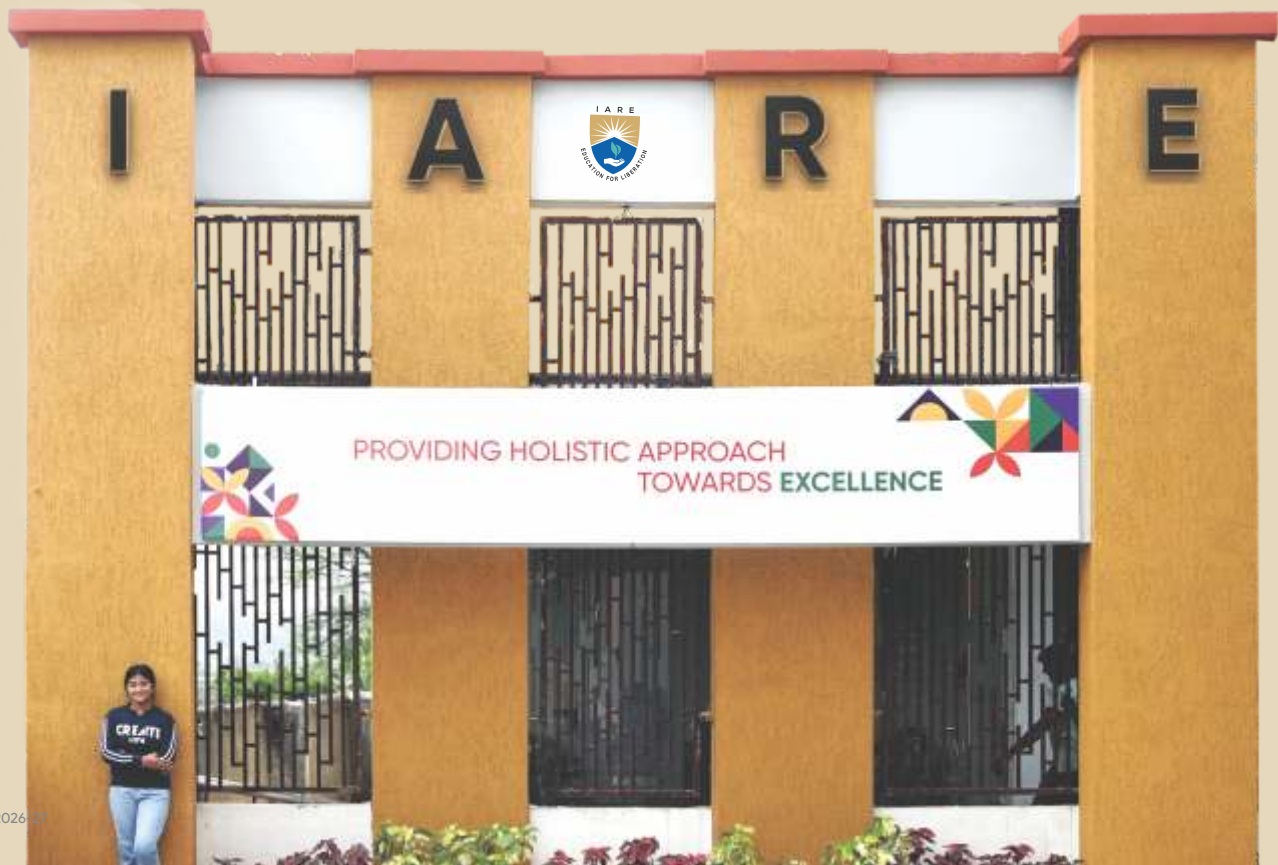
Institute of Aeronautical Engineering (IARE), Hyderabad was established in the year 2000 and is run by the Maruthi Educational Society founded by a devoted group of eminent professionals and industrialists having a long and outstanding experience in the educational system with the noble objective of promoting quality technical education. With a mission 'Education for Liberation', it is paving path towards great achievements in the field of technology.

It was first founded in 1994 as Institute of Aircraft Maintenance Engineering approved by Directorate General of Civil Aviation, Government of India, New Delhi offering certification program in aircraft maintenance engineering. To cover the wide field of Aviation, in the year 2000 B.Tech program in

Aeronautical Engineering was started and has gradually transformed itself into an integrated multi-disciplinary technological institute.

At present, IARE is offering nine B.Tech programs and five M.Tech programs in engineering and Master of Business Administration. It is one of the most reputed colleges in engineering societies regionally and nationally.

The Institute is well known for its innovative spirit, intensive research and hands-on approach to solve real world problems, producing skillful engineers who are well received by industry and academia. Building on a strong foundation, the sustainability and high quality of the engineering and management programs have been assured. With the full support from our staff, It aims to be one of the leaders in the field of Engineering.



# Vision

To bring forth students professionally competent and socially progressive, capable of working across cultures meeting the global standards ethically.

# Mission

To provide students with an extensive and exceptional education that prepares them to excel in their professions guided by dynamic intellectual community and be able to face the technically complex world with creative leadership qualities.

Further, be instrumental in emanating new knowledge through innovative research that emboldens entrepreneurship and economic development for the benefit of wide spread community.



# Institute Profile

Name	: Institute of Aeronautical Engineering (IARE)
Estd. Year	: 2000
Managed by	: Maruthi Educational Society, Hyderabad
Approved by	: All India Council for Technical Education, New Delhi
NIRF Engineering	: One among top 200 in engineering category, since 2017
Accreditation	: NBA accreditation for 100% Eligible B.Tech programs NBA accreditation for 85% M.Tech programs and MBA program NAAC A++ Grade with a Score of 3.62 on a four point scale
ISO Standards	: ISO 21001:2018 Educational Organizations Management Systems
Autonomy	: Autonomous status from University Grants Commission (UGC), New Delhi since 2016
Affiliated to	: Jawaharlal Nehru Technological University Hyderabad, Hyderabad
Campus	: Dundigal, Hyderabad – 500043, Telangana
Distance	: Secunderabad - 20 km; JNTUH, Kukatpally - 12 km
Phone	: 040 - 29705852, 54
Mobile	: +91 91546 78975, 91546 78976, 91543 79624
Email / Web	: <a href="mailto:info@iare.ac.in">info@iare.ac.in</a> / <a href="http://www.iare.ac.in">www.iare.ac.in</a>



# Providing a Holistic Approach Towards Excellence

## 7 HOLISTIC DIMENSIONS

Institute of Aeronautical Engineering is a truly holistic place of learning, made up of 7 outstanding dimensions.

### 1. Academic

Learns from world leaders and groundbreaking experts.

Invincible reputation for high quality education, research, active teaching staff, innovation, employability and facilities.

### 2. Pedagogy

Curriculum prepares students for today's world.

Works with institute's community, business partners, and industry leaders to develop course content that meets the future needs of employers.

### 3. Research

Learns from world researchers-goes beyond and performs differently.

Enhances learning and research as the connected aspects of students' experience, putting them close to the world-leading research that is changing lives of the communities we serve.

### 4. Enterprise

Goes beyond the classroom and make innovative ideas take a concrete shape.

Provides resources to help one realize their dream. Offers entrepreneurial advice and opportunities for students to achieve this.

### 5. Community Outreach

Committed to community engagement

Works with supporting local organizations and public engagement activities.

Outreaches to the local community.

Gives students a chance to share their passion for science and engineering with others.

### 6. Active traits

With technical clubs events and fests provides a unique student experience and can become expert by getting involved.

Dedicated center for personality development helps students to become self-aware of their personality traits and make an effort to excel in their professional and personal life.

### 7. Support

Tap into a dedicated support network, tools, and resources.

Committed to help and support with a wide range of services, such as access to all the information digitally through student campus management system, learning management system, 24/7 high speed Wi-Fi environment to manage your time effectively.



# Management



## **Sri Marri Rajasekhara Reddy**

Chairman

Sri Marri Rajasekhara Reddy, since his young age has shown great flair in managing and nurturing educational institutions. For him, quality is the way of life. He envisioned a technological revolution and committed himself to establish an institution, to foster technical and higher education. Under his dynamic leadership, IARE is reinforcing its position as an institution of eminence in Hyderabad and beyond



## **Sri Ch Sathi Reddy**

Secretary and Correspondent

Sri Sathi Reddy is a visionary and industrialist. He is a post graduate in Mechanical Engineering from Osmania University. MTE industries, established in 1984 has risen, flourished, and gained international recognition for manufacturing and exporting CNC machines under his leadership. He has also established successful engineering and pharmaceutical institutions. He is one of the co-founders of IARE.



## **Sri B Rajeshwar Rao**

Executive Director & Treasurer

Sri Rajeshwar Rao is an outstanding entrepreneur with more than three decades of experience in spearheading and managing educational as well as private sector enterprises. He is the founder of Sri Rama Nonferrous Foundry and vice chairman of The Kranthi Cooperative Urban Bank Ltd. Since the inception of IARE, he has left no stone unturned to provide the best infrastructure and facilities on a par with the industry standards.

# Principal's Message

## **Dr. L V Narasimha Prasad**

PRINCIPAL

Professor of Computer Science and Engineering

**Experience: 34 Years**

Phone: 9490182900, 9703618753

Email: [principal@iare.ac.in](mailto:principal@iare.ac.in)



Welcome to IARE!

In the fast-paced ever-growing markets with global outlook, the demand for well-trained multi-skilled engineers and entrepreneurs has augmented. The boom of competition in the industry has increased the standards that define engineering. Institute of Aeronautical Engineering always strives to excel in both technical and managerial areas. Over the past 26 years, our enthusiastic alumni placed in prominent companies have made us proud. With the visit of many leading companies, a significant growth in the placement over the years is observed. We encourage students to go beyond academic knowledge and master life skills. Our students have always set high

benchmarks, competing with students all around the globe. In a short span, we have made a impactful mark in the corporate world.

In line with the institute's vision and mission, we aim at providing excellent academic ambience, student centric teaching-learning process, state-of-the-art infrastructure, highly qualified and experienced faculty, and an overall dynamic and disciplined workplace. To keep pace with the fast-emerging technologies and rapidly changing world around, we instill and nurture leadership qualities in our students.

**Wish you a happy learning!**

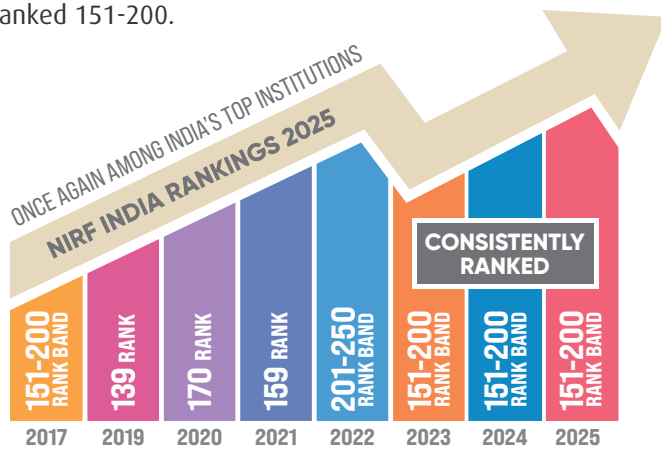
# Rankings and Accolades



## Engineering Category

The Institute is consistently finding its position in Engineering rankings of NIRF, as one among the top 200 engineering colleges in the country for the past eight years in a row.

In Engineering Category of National Institutional Ranking Framework (NIRF) - 2025, Ministry of Education, Govt. of India, Institute of Aeronautical Engineering is ranked 151-200.

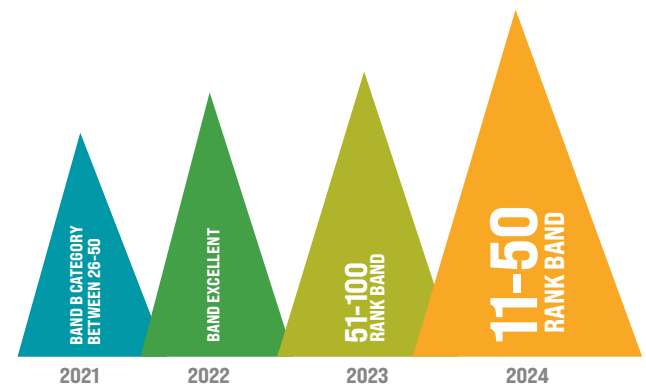


8th time in a row across 10 editions of NIRF

## Innovation Category

The Institute is consistently finding its position in Innovation rankings of NIRF, as one among the top 50 engineering colleges in the country for the past four years in a row.

In Innovation category of National Institutional Ranking Framework (NIRF) - 2024, Ministry of Education, Govt. of India, Institute of Aeronautical Engineering is ranked 11-50.



THIS ILLUSTRATES POSITIVE PERFORMANCE AND QUALITY STANDARDS WE MAINTAIN IN TEACHING, RESEARCH, EMPLOYABILITY, AND INNOVATION.

IARE's rating as given by the most read and widely acclaimed magazines:

- | India Today (53) | Competition Success Review (9) | Data Quest (75) | Outlook (50)
- | Times of India (59) | GHRDC (14) | The Week (65) | Careers360 (AAAA)
- | Outcome Based Education (Band Platinum) | Chronicles of India (A++)
- | SII Green Rankings (Titanium + Band)

# Why IARE – 5 Reasons

The calibre of the students and the excellence of the teaching and research at the institute have earned it National recognition

## 1 Great student experience

Offers a supportive, well-equipped and creative environment to help students reach their full potential.

Numerous chances exist for students to participate in activities like conferences, design challenges, brainstorming, hackathons, and coding competitions.

## 2 Go on a semester-long work placement | Internship

Takes advantage of strong links with industry and go on for internship as part of their studies.

Many of the internships are paid, which earns valuable income during student studies at institute.

## 3 Excellent job prospects

The visit of employers to the institute for placements is given top consideration. Before graduating, the student will be employed

Throughout the placement year, the specialized placement team provides guidance and assistance to students looking for a placement.

Most prominent employers include Microsoft, JP Morgan Chase & Co, Juspay, LUMEN, Capgemini, TCS, Infosys, IBM, Wipro, Cognizant, Accenture, Mphasis, LTM, TATA Technologies, TATA Advanced Systems and so on.

## 4 Taught by top researchers

Taught by top researchers

The majority of our teaching staff is actively involved in research, which demonstrates that courses are periodically updated and one will profit from talks on the most recent developments in engineering. Being taught by a subject matter expert is motivating. Having taken a detailed investigation of capabilities and strengths, Institute has identified seven Research Focus Areas (RFAs).

- Aerospace Engineering
- Artificial Intelligence
- Data Science and Analytics
- Energy and Materials
- Health and Life Sciences
- Precision Manufacturing
- Assistive Technologies

Choose a final year project in one of these areas, working closely with an active researcher in the field.

## 5 Highly ranked

Brand name and most preferred institution which has a reputation in research and teaching excellence.

According to NIRF India Rankings (Engg. ), IARE is among the top 200 (139th position in NIRF-2019, 170th position in NIRF-2020, 159th position in NIRF-2021, 201-250 Rank Band in NIRF-2022, 151-200 Rank Band in NIRF-2023, 151-200 Rank Band in NIRF-2024 and 151-200 Rank Band in NIRF-2025).

Institute is ranked among top 100 in the country by the popular magazines like India Today, CAREERS360, Outlook, THE WEEK, Data Quest and BW Business World.

The Institute of Aeronautical Engineering (Autonomous) is eager to welcome students and support them as they pursue a variety of career goals, including those of engineer, scientist, inventor, designer, builder, and great thinker.

# Why Study at IARE

## Leadership in one of India's fastest growing regions

Hyderabad is India's one of the largest and fastest growing metropolitan city which contributes to the economy. In this culturally diverse hub of international education, technology, business, industry and innovation, IARE global links are creating unlimited opportunities.

## Everything we do revolve around our students.

Institutes student-centered approach offers you the choice of on-campus and flexible study options combined with work-integrated learning. Through work experience, placements, internships, and volunteering opportunities, you'll get the real-life experience, practical skills, and knowledge is achieved for a successful career in future.

## The impact of research is global

Learning and research as the connected aspects of students' experience, puts them close to the world-leading research that is changing lives of the communities it serve.

## Receiving amazing accolades

IARE is one of the top private engineering colleges in India which completely focuses on innovative and visionary aspects of each student. It welcomes students to live in a world beyond the classroom to explore their inner skills. Active participation in National / International Collegiate Design Series (CDS) competitions take students beyond textbook theory by enabling them to design, build, and test the performance of a real vehicle / device and then compete with other students from around the globe in exciting and intense competitions.

## Facts and figures

IARE consistently ranks in the country's top 200 institutions that hint information about teaching, research, innovation and employability. It is one of the most popular colleges in the state of Telangana, India, attracting on average top 5% of TG EAPCET aspirants, and our students are among the most accepted employers across the globe. 100% of our B.Tech programs are NBA accredited.

## Partners in learning

Unlike the conventional approach to teaching, pioneering model of co-created learning treats students as partners in their education empowering to share their ideas and facilitate their creativity.

## The curriculum equips students for the modern world

Works with community, business partners, and industry leaders to develop course content that meets the needs of employers as well as the jobs of the future, and responds to the challenges of a global workplace.

## Embrace technology enriched learning

From innovative social learning spaces, online learning environment and use of digital technologies to on-campus next-gen computer laboratories and state-of-the-art research facilities, It is adopting new and emerging technologies to provide richer educational experience.

## Advanced opportunity and unlimited success

From advanced training on technologies to internationally recognized industry or business certifications, internships, and student exchange opportunities, provides multiple pathways for academic and professional success.

## Globally focused and connected

With growing reach and reputation, institute offers the opportunity to travel, learn, and work in different places through global internship, work-placement programs and participation in international competitions/conferences/events.

## International collaboration

Collaborations, with top institutions in USA, Australia, Japan, Singapore, Malaysia, Taiwan, Indonesia, Thailand, Vietnam and UK, to carry out activities ranging from joint degrees, exchange programs, internships, summer semester courses, full semester internship, joint research etc., make IARE a most favored destination.

# Admission Procedure

## B.Tech Programs

**Category 'A':** Admissions under Category 'A' (70% of seats) are made based on rank obtained in TG EAPCET conducted by the Government of Telangana.

**Category 'B':** Admissions under Category 'B' (Management / NRI - 30%) are done based on merit as per the guidelines of Telangana State Council of Higher Education.

### Economically Weaker Section (EWS)

Admissions under EWS is 10% against category 'A' seats.

### Lateral Entry into II Year B.Tech

Diploma holders are admitted directly into the second year of B.Tech to the extent of 10% of the intake based on the rank obtained in the TG ECET, under lateral entry scheme conducted by Government of Telangana.

## M.Tech Programs

**Category 'A':** Admissions under Category 'A' (70% of seats) are made based on a valid GATE score / rank obtained in TG PG CET conducted by the Government of Telangana.

**Category 'B':** Admissions under Category 'B' (Management / NRI - 30%) are done based on merit as per the guidelines of Telangana State Council of Higher Education.

## MBA Programs

**Category 'A':** Admissions under Category 'A' (70% of seats) are made based on Rank obtained in TG ICET conducted by the Government of Telangana.

**Category 'B':** Admissions under Category 'B' (Management / NRI - 30%) are done based on merit as per the guidelines of Telangana State Council of Higher Education.

This is a great time to study

Education prepares students for today's world.



IARE collaborates closely with professional organizations and business sectors to guarantee that students who take our courses gain the knowledge and abilities that employer's value.

# Courses Offered

## B.Tech Programs

1. Aeronautical Engineering
2. Computer Science and Engineering (CSE)
3. CSE (Artificial Intelligence and Machine Learning)
4. CSE (Data Science)
5. Information Technology
6. Electronics and Communication Engineering
7. Electrical and Electronics Engineering
8. Mechanical Engineering
9. Civil Engineering

## M.Tech Programs

1. Aerospace Engineering
2. Computer Science and Engineering
3. Embedded Systems
4. Electrical Power Systems
5. Structural Engineering

## Management

Master of Business Administration



# Autonomous Structure

Autonomy conferred in 2015 helped this institute to design its curriculum to infuse greater academic discipline and to match industry needs. The results, being no less impressive than the concurrent JNTUH system, have been a source of encouragement and confidence building for the organization for its path breaking steps.

In the continuous pursuit of academic excellence and creating a student-friendly learning environment, the fully flexible Choice Based Credit System (CBCS) is implemented which allows students to add or drop courses to suit the pace of fast and slow learners.

Institute serves dual purpose of building a solid foundation of knowledge and enhancing confidence, creativity, and innovation amongst students.



## Salient features

- Choice in the selection of courses for each semester
- Choice in the selection of number of courses (Accelerated Courses) per semester
- Ample opportunities to do inter-disciplinary courses
- Freedom to choose minor / honours courses for specialization
- Special care for slow learners by offering important / common courses in all semesters
- Opportunity of undergraduate research experience
- Provision for Full Semester Internship (FSI) in VII or VIII semester in industry / abroad  
Transfer and / or waiver of credits for the students who may spend one semester in any academic institution of repute in India or abroad
- IARE - High Impact Practices
  - > Cornerstone Projects (CoPs)
  - > Technology Innovation and Product Support Projects (TIPS)
  - > Vertically Integrated Projects (VIPs)
  - > Projects In Community Services (PICS)
  - > AI in Software Development Life Cycle Projects
  - > Side Projects (SP)
- Ample opportunities to do internships in Research Centres, Innovation Centre, IT Park, and Start up Park

## ADDITIONAL LEARNING

Provision of Honours and Minors available to students as add on to the base level B.Tech degree.

# Accreditations

**EXCELLENCE ELEVATED**  
INSTITUTE OF AERONAUTICAL ENGINEERING  
REACHING NEW HEIGHTS WITH

**NAAC** | **A++**  
**ACCREDITATION** | Second Cycle

Accredited by National Assessment and Accreditation Council (NAAC) for a period of 5 years with a CGPA of 3.62 on a 4 point scale at A++ Grade



**100%**  
ELIGIBLE  
B.TECH PROGRAMS

**85%**  
M.TECH PROGRAMS  
AND MBA PROGRAM

Seven B.Tech, Four M.Tech, and MBA programs are accredited by the National Board of Accreditation (NBA), New Delhi.

## NBA Accredited Programs (B.Tech):

- Aeronautical Engineering
- Computer Science and Engineering
- Information Technology
- Electronics and Communication Engineering
- Electrical and Electronics Engineering
- Mechanical Engineering
- Civil Engineering

## NBA Accredited Programs (M.Tech/MBA):

- M.Tech in Computer Science and Engineering
- M.Tech in Embedded Systems
- M.Tech in Aerospace Engineering
- M.Tech in Electrical Power Systems
- Master of Business Administration (MBA)

Students studying in institutions with NBA accreditation may be guaranteed that they will receive education that strikes a balance between excellent academic quality and professional relevance, ensuring that programs, activities, and processes take the needs of the corporate world into consideration.



International  
Organization for  
Standardization

**EDUCATIONAL ORGANIZATIONS MANAGEMENT SYSTEMS**

ISO implemented for autonomous undergraduate (B.Tech) and postgraduate (M.Tech & MBA) programs covering curriculum design, delivery, assessment, and grading.

# Quality Assurance

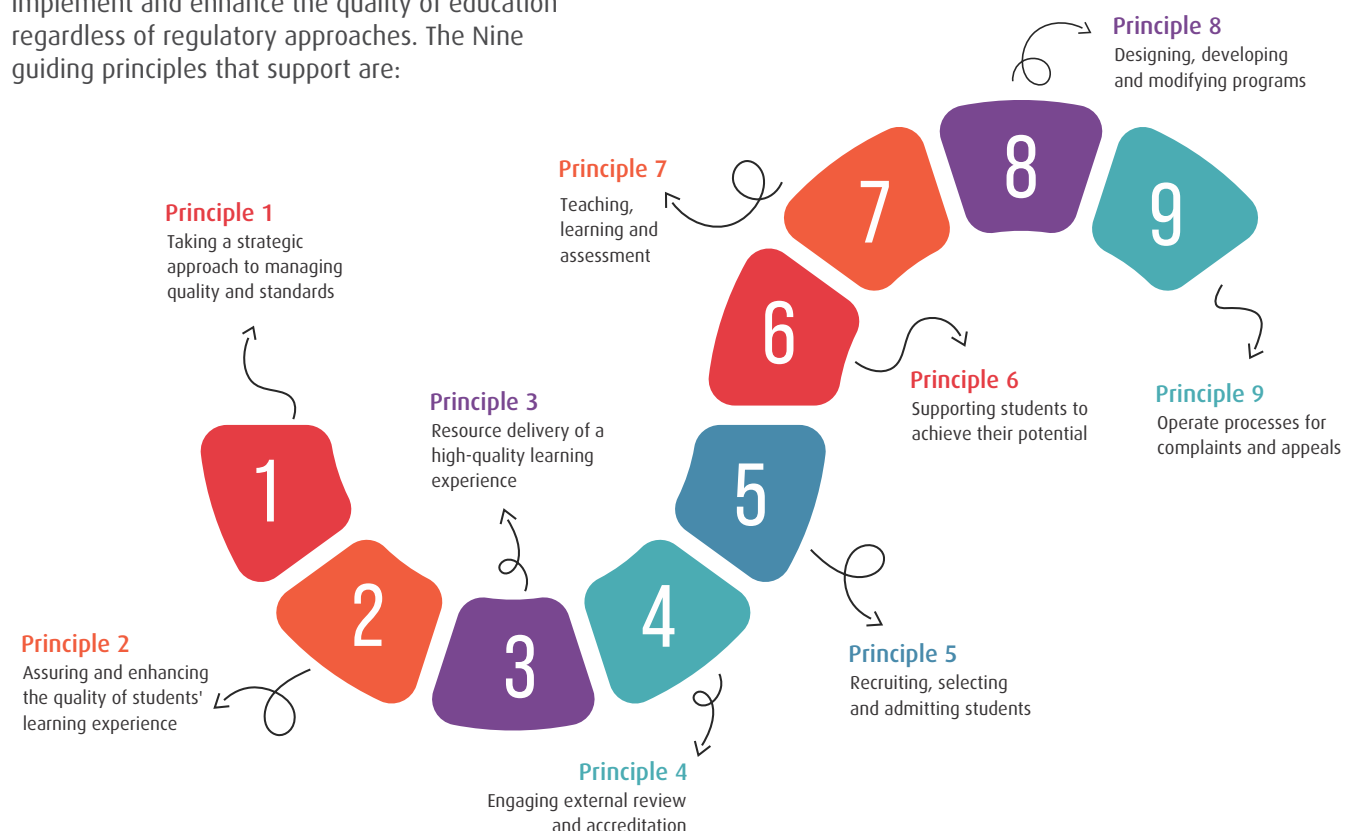
The institute is committed to promoting a robust quality culture by consistently excelling in teaching, learning, research, and service. This is achieved through responsive, reliable, and transparent processes, driven by continuous self-evaluation and external quality assurance, ensuring that every outcome reflects our pursuit of institutional excellence.

## Guiding Principles Of Quality Assurance

The Institute takes responsibility for the quality of its operations. Quality assurance is guided through the development and enforcement of internal policies and procedures in compliance with AICTE, UGC, NAAC and NBA.

The guiding principles to design, develop, implement and enhance the quality of education regardless of regulatory approaches. The Nine guiding principles that support are:

The main purpose of the QA system is to ensure that the Institute meets the expectations of internal and external stakeholders, complies with laws and regulations, documents roles and accountability, manages risks and identifies opportunities for improvement.



# Total Student Development Program

Powering skills are high-impact practices creating pathways for student success, designed to deepen their learning experience, prepare them for advanced roles in engineering, and enhance their ability to contribute meaningfully to their fields. These practices can significantly boost placement prospects for engineering students by making them more competitive, versatile, and attractive to potential employers. They integrate knowledge, critical thinking, and hands-on complex problem-solving, creating a well-rounded educational foundation.

## 16 Powering Skills

## 6 Projects

Side Project | Software Design Project | Cornerstone Project | Projects In Community Services | Vertically Integrated Project | Engineering Design and Development Projects

## 2 AI Futures Shaping a responsible Future

Fundamental AI (FunAI) | AI Specialist | AI in Software Development Life Cycle (AI in SDLC) | AI Agents

## 1 Capstone Project

Final-year project demonstrating design, implementation, testing, documentation skills

## 1 Technology Development Project

Assistive Technologies | Urban and Rural Sustainability | Healthcare and Medical Technologies | Geospatial Enabling Technologies | Autonomous Vehicles

## 2 Internship Projects

Summer Research Internship (SRI) Project  
Summer Internship Project (SIP)  
Full Semester Internship (FSI) Project

## 2 Publications

Presenting research findings as Articles, or Conferences.

## 2 Competency Building Programs

Generative AI | Salesforce | SAP | DevOps | AWS & Cloud | Mobile Application Development | Software Testing | Data Analytics and Power BI | Quantum Computing



# Study With A Purpose

We aim to deliver a high-quality learning environment that cultivates intellectual curiosity, encourages innovation, and integrates best practices in learning, teaching, and student support to enable students to achieve their full academic potential.

The curriculum is thoughtfully designed to offer a diverse range of learning experiences with a blend of traditional lectures, hands-on laboratory work, project-based learning, research-based learning, complex problem-solving, and industry collaborations, which ensures a well-rounded educational experience. Additionally, strong industry linkages and internships ensure that students are equipped with the knowledge and expertise required for successful engineering careers.

Diverse Learning Pathways for Academic and Professional Growth:

## Lectures

Lectures introduce basic information about course topics as a starting point for further self-directed private study or reading. They also provide opportunities to ask questions, gain feedback, and receive advice on assessments.

## Practicals

Practicals provide hands-on experiences where students can develop technical skills and apply theoretical principles to real-world contexts.

## Self-Directed Study

Self-directed study encourages independent learning, engagement with e-learning resources, assignments, research and preparation work. Students are provided access to websites and apps that offer interactive learning experiences, such as Knimbus, IEEE, ACM, ASNE, and Duolingo.

## E-Learning technologies

Information associated with lectures is communicated digitally and is accessible via a Learning Management System (LMS) called IARE Akanksha. A range of e-learning experiences is also embedded in the portal, such as course outline descriptions, tutorial question banks, PowerPoint presentations (PPTs), definitions and terminologies, tech talk/concept video topics, open-ended experiments, assignments, model question papers, and lecture notes.

## E-Learning Readiness Videos (ELRV)

E-Learning Readiness Videos (ELRV) provide students with flexible, self-paced learning opportunities, enabling them to revisit complex concepts and reinforce understanding. Class Lecturer Recording Videos (CLRv) capture the teaching sessions conducted by course faculty. These recordings serve as a valuable resource for students, allowing them to revisit lectures for better understanding and revision.

## Personal Mentor / Tutor

Students are assigned a personal tutor who meets with them on a regular basis throughout the academic year to provide guidance and support for their academic development.

## Prior Learning

Prior Learning Assessment and Recognition (PLAR) is the process used by IARE to assess the knowledge and skills gain through open learning for the select set of courses, one semester prior to the start of semester. This will advance the standing time and shorten the formal learning as you relearn what was already know and can do. Four courses are covered under PLAR during B.Tech II and III semesters. This supports career development and educational planning, making it easier to be academically successful.

## Open Learning

Open Learning Faculty (OLF) is made available to assist students, who will receive the necessary contact information at the start of the course. It plays a crucial role in modern education, making learning more accessible and adaptable to evolving technological and professional demands

## Bootcamp Courses

Bootcamp courses are fast-paced, expert-led hands-on camps designed for problem-solving and programming. These courses offer practical projects and real-world applications to help students achieve professional goals.

## High Impact Practices

High-impact practices (HIPs) deepen students' learning experiences, prepare them for advanced roles in engineering, and enhance their ability to contribute meaningfully to their fields. HIPs integrate knowledge, critical thinking, and hands-on complex problem-solving, creating a well-rounded educational foundation.

**Key practices include projects, e-portfolios, internships, publications in journals and conferences, and professional certifications.**

## Learning Models - Projects/ Products

Projects serve as a crucial link between theoretical and practical knowledge. Students actively engage in project-based learning and develop working models. This approach enhances hands-on skills, innovation, and real-world understanding. It promotes application-oriented learning and problem-solving abilities.

## E-Portfolios

An e-portfolio is a visual representation of design and engineering skills, presented through a collection of engineering projects, technical concepts, and developed skills. E-portfolios effectively help students market their talents to potential employers.

## Professional Training and Internships

### Student Internship Program (SIP)

The Internships can be very hands-on or fully research-focused - or something in-between! Internship tasks can sometimes be directly related and contribute to the topics of students' capstone project. The student is responsible for finding their internship placement and supervisor.

### Summer Research Internship (SRI)

is to provide students with hands-on experience in research methodology, data analysis, and innovation within their area of specialization. Students will engage in research-oriented tasks such as literature review, hypothesis formulation, experimental design, data collection, simulation, and technical documentation. The internship aims to develop analytical thinking, problem-solving abilities, and academic writing skills. Learners will gain exposure to research ethics, collaboration practices, and presentation of findings in a professional manner. The program bridges theoretical knowledge and practical application, preparing students for higher studies, industrial R&D, or academic research careers.

Internships are structured, short-term work

experiences that provide students with hands-on industry exposure, allowing them to apply their academic knowledge in real-world settings.

### Journal Articles / Conference Papers

Publishing journal articles or conference papers is an important aspect of academic, research, and professional development. Engaging in this activity enhances students' careers and contributes to their fields.

### Professional Certifications

Certifications validate skills and demonstrate a commitment to professional development in emerging technologies. They ensure that graduates possess industry-specific skills and knowledge, enhancing their employability and career prospects.

### Tech-Talks / Concept Video / Seminars / Tutorials / Hack-a-thons

Students are encouraged to showcase their Communication and Problem-solving skills through various interactive projects, including tech talks, concept videos, seminars, tutorials, and hackathons. These small group activities, provide a platform for peer-to-peer learning, presentations, and collaborative projects, allowing students to engage with each other and demonstrate their understanding of complex concepts.

### Complex Engineering Problem Solving

Complex engineering problem-solving is part of assessments, requiring interdisciplinary knowledge and critical thinking. This prepares students to address real-world problems effectively.

### Career Development and Competency Building

Career development and competency building classes are integrated into academics, for overall developing and enhancing the skills, knowledge, and dispositions that are necessary to perform tasks effectively and efficiently in a specific field or profession, it focuses on helping individuals acquire the core competencies required for success in their careers or academic pursuits.

### Coding Room Challenges – A Developer Training & Enablement Platform

Coding Room refer to working on, solving coding competitions, solve puzzles through code, or coding challenges presented in career development classroom, or competency building classroom or online learning environment, often focusing on specific skills or projects.

We are implementing Coding Room Challenges on ReinPrep, WeCP, Mercer Mettl and Talent Titan platform. Coaches observe the data and monitor progress.

Participation in Technical Activities, International, National Competitions / Events and Hackathon

Participation in such activities complements academic experiences, fosters professional growth, and enhances personal development. These activities encourage creativity, teamwork, problem-solving, and technical skills.

### Supervised projects

In the final year, students will be expected to carry out either a capstone project or a full-semester internship, which involves a significant piece of research on a chosen topic or practical methodology. They will receive support from a supervisor who will guide them on how to carry out their research and provide constructive feedback.

**A Capstone Project** involves applying the knowledge and skills gained throughout the program to address real-world challenges. These projects are typically research-based, design-oriented, or industry-focused, demonstrating a student's ability to apply theoretical concepts to practical challenges.

**A Full-Semester Internship (FSI)** provides students with an extended work experience within an organization, industry, firm, or even a foreign university for an entire semester. It is often a part of the curriculum, offering students the chance to gain hands-on experience in their chosen field of study.

The institute's commitment to innovative teaching and learning practices fosters a dynamic and enriching educational environment. By integrating diverse methodologies, industry collaborations, and a global perspective aligned with UNSDGs, students are well-prepared to excel in their careers and contribute meaningfully to the society.

### AI Futures: Shaping a Responsible Future

The world is undergoing a digital transformation powered by rapid advances in Artificial Intelligence and Machine Learning. Our AI Futures program brings together expertise in computing, robotics, data science and digital engineering to help shape the intelligent systems of tomorrow.

# TACKLING REAL-WORLD CHALLENGES IN A SUSTAINABLE DEVELOPMENT PROJECT BASED LEARNING

296 FACULTY

121 Ph.D FACULTY ( 41% )

24 RESEARCH FACULTY

72 Ph.D PURSUING FACULTY

33 ELIGIBLE RESEARCH SUPERVISORS



# Academic & Educational Administration

## Transformation Education

In our classrooms, students-centered learning and student led learning communities are highly encouraged. We are committed in developing students' autonomy and meeting the needs of diverse students. To generate students' motivation, enrich their flexibility, and prepare them for their future and competitiveness, faculty in IARE have been applying innovative teaching methodologies and compiling study materials that enable students to learn at their own pace.

## Student - Learning Pedagogy Implementation

The Student Learning Pedagogy Implementation focuses on adopting diverse, student-centered approaches that enhance knowledge, skills, and innovation through active participation and experiential engagement. It integrates various methods such as Subject-Based Learning (SBL), which emphasizes mastery of core concepts through lectures, tutorials, practicals, and self-learning; Experiential Learning (EL), where students learn by doing and reflecting on real-world experiences; Project-Based Learning (PBL), which encourages teamwork and application of multidisciplinary knowledge through complex projects; Active and Collaborative Learning (ACL), promoting peer interaction and shared problem solving; Case-Based Learning (CBL), which builds analytical and decision-making skills using real or simulated professional scenarios; Problem-Based Learning (PrBL), fostering critical thinking and self-directed inquiry through structured problem-solving exercises; and Entrepreneurially Minded Learning (EML), inspiring creativity, innovation, and value creation through opportunity recognition and action. Together, these pedagogical approaches shift the focus from passive learning to active engagement, ensuring that students not only gain academic knowledge but also develop practical, analytical, and entrepreneurial skills essential for success in a dynamic global environment.

## General Education - Learn to Read Critically and Think Broadly

IARE's is Career Development Centre, Innovation Centre, Competence Building Centre, Research Centre, committed to molding well-rounded individuals who are ready to take challenges presented to them with open minds, considerate thoughts and unheralded passion. To create critical, creative thinkers that transform into citizens equipped to contribute to society in various ways, we intentionally shift our instruction to a student-centered or learner-centered model, apply problem-based learning methodology, programming and provide interdisciplinary research covering topics within humanities as well as social, natural and engineering.

## Easy Life at IARE - Premium and Pleasant

IARE provides low-price but high-quality student accommodation. The priority of housing is determined by the distance between the applicant's registered household and IARE. Any eligible applicants are allocated in a furnished 3/4-person room. Life is easy at IARE. Our catering teams provide a range of options including cafeterias, cafés, outlets and etc.

## Financial Assistance Programs- Keep a Quality Education within Reach of All Interested and Qualified Students

The tuition that we charge per annum, which is one of the lowest among top engineering colleges of Telangana. To keep a quality education within the reach of all interested and qualified students, IARE offers a variety of financial assistance programs including numerous merit and talent scholarships, fellowships, need-based grants, student employment, etc.

## Clubs and organizations-To explore beyond the limits

To explore beyond the limits with learning moving beyond time and space, IARE offers a host of clubs and societies to inspire students to meet new people, to explore some team building activities, and to devote themselves to service and acceptance of others. Students at IARE have almost 25 clubs to choose from. Our clubs and organizations can be categorized into sports, outdoor, music and performance, general interests, welfare, volunteering, academic and students' council. Joining a club or organizations here is a perfect way for students to gain useful career skills and experiences as well as get to know a diverse range of people.

# Digital IARE

Digital IARE is an integrated digital ecosystem designed to streamline academic, administrative, and learning processes within the institution. It brings together multiple specialized platforms that support e-governance, outcome-based education, learning management, skill development, and library services.

Through tools like Samvidha, eExamDesk, ESLO, BuildIT, Akanksha, and AKSHA, Digital IARE enhances efficiency, transparency, and student engagement. It empowers students, faculty, and administrators with seamless access to academic resources, assessments, performance tracking, and collaborative learning opportunities, creating a smart and connected campus environment.

## e-Governance Portals



- ✓ Complete end to end operations of students - admission to alumni
- ✓ Complete end to end Operations of faculty
- ✓ Service Register



- ✓ Online Public Access Catalogue
- ✓ Book Availability Check
- ✓ Access the e-books and e-Journals
- ✓ Borrowing History and Renewals



- ✓ Digital evaluations of answer scripts
- ✓ Coding and decoding of answer scripts
- ✓ RPOT (Remote Proctored Online Testing)

## Learning Management Portal



- ✓ e - Learning videos
- ✓ Course Full Stack
- ✓ Placement experiences
- ✓ Tips for campus placements
- ✓ Skill enhancement



- ✓ An automated open coding learning platform.
- ✓ Conducts online practical examinations and contests.
- ✓ Students prepare for technical screenings of campus recruiters.



- ✓ Advanced platform for online assessments and evaluations.
- ✓ Conducts secure programming and aptitude skill tests.
- ✓ Integrated proctoring tools to prevent exam cheating.

## Outcome-Based Education



- ✓ CO attainments
- ✓ PO attainments
- ✓ PSO attainments

# Impactful Research

The research activity in the campus is woven, in pursuance of its vision & mission statements around the philosophy of inspiring, innovating, and implementing benefit of the contemporary society. It unwinds itself into different fields, such as Photo-detectors, Solar cells, Gasfen sensors, environment, Agro bio construction, UAVs, aerospace, aerodynamics, CAD/CAM, CNC machining, tool design, welding, embedded systems, smart systems (IOT), data science, and low power VLSI digital system design. Emphasis is also being laid on business analytics, big data, machine learning, cloud computing, artificial intelligence, data analytics, wireless technology, cyber security, image processing, and next-generation networks

Research Centers	Research Publications	Patents Granted
<b>04</b>	<b>3300+</b>	<b>47</b>
Patents Published	Funding Received Through Grants	Revenue Through Consultancy
<b>866+</b>	<b>Rs. 1015+ Lakhs</b>	<b>Rs. 79.6+ Lakhs</b>
h-index	i10-index	Citations
<b>77</b>	<b>594</b>	<b>28,760+</b>





**GROUND BREAKING  
RESEARCH LEADS TO  
INNOVATIVE SOLUTIONS**

## Research Facilities

The research facility offers a dedicated environment for both students and research associates to undertake research-driven projects under the guidance of experienced faculty. It is well-equipped to support innovative experimentation, practical learning, and advanced research activities. The facility plays a vital role in academic projects, thesis work, and interdisciplinary research, enabling students to gain hands-on experience and enhance their technical and analytical capabilities.

## Research and Education Centres

The following centres are established to allow faculty and students to share facilities, equipment, ideas, and innovation.

- Center for Advanced Power Engineering Research
- Center for Research on Alternative Energy Sources (Solar | Thermo Electric | Materials)
- Center for Automation and Robotics (CAR)
- Center for Aerospace Research and Development
- Center for IoT, Sensor and Instrumentation Engineering
- Center for VLSI and Embedded Systems
- Center for Artificial Intelligence and Deep Learning Solutions
- Center for Big Data Computing
- Center for Cloud Application Development
- Center for Developing AR/VR Solutions

# Industry Institution Interaction

## Consultancy Services

Industrial consultancy center caters to the needs of students in terms of industrial consultation, and R&D services. In addition to the industry, institute engagement enables students to learn about cutting-edge engineering processes and technologies, which has a significant impact on the engineering curriculum and the eventual employment of young undergraduates and postgraduates in companies.

## Full Semester Internship (FSI)

Students have an opportunity to work on their project work to enrich their learning experience with hands-on internship programme for full duration of semester (either in VII or VIII semester) at leading organizations like Tata Advanced Systems, Cyient, MAQ Software, EPAM, Byjus, Aricent, CIRD-MSME, and Aptroid and many others.

## Support Programmes

Gaps in curriculum in each semester / year are identified and bridged through short term courses, industrial visits, seminars, workshops, and conferences. Going beyond the classroom, these programs provide students with a "University plus" experience.

## Internships

Provides possible opportunities through varied Internships, Field projects, Field practicum and Industrial in-plant training to learn, understand and sharpen the real time technical/managerial skills required at the job.

## Professional Networking

Engineering professional student chapters aid students in expanding their professional networks. Students develop relationships with classmates, instructors, and academic role models from various universities and states.

**Institute of Electrical and Electronics Engineers (IEEE)**  
**Telangana Academy for Skill and Knowledge (TASK)**  
**Confederation of Indian Industry (CII)**  
**Association for Computing Machinery (ACM)**  
**Institution of Electronics and Telecommunication Engineers (IETE)**  
**The Indian Society for Technical Education (ISTE)**  
**Computer Society of India (CSI)**  
**Society of Automotive Engineers (SAE)**  
**Indian Concrete Institute (ICI)**  
**The Institution of Engineers India (IEI)**  
**The Institution of Mechanical Engineers (IMechE)**  
**Hyderabad Management Association (HMA)**  
**American Society of Civil Engineers (ASCE)**

# Strong Industry Collaboration

IARE collaborates with a variety of businesses in the sector to train students and conduct cooperative research and other extension projects.



## Industry support laboratories

### virtusa Center of Excellence

In order to cope up with market demands and equip the students to become successful in the field of data Integration, institute of Aeronautical Engineering, Hyderabad has partnered with Virtusa Corporation, a global provider of digital strategy, digital engineering, and IT outsourcing services and started its first Center of Excellence (CoE) to train the students on PL/SQL.

### <epam> Center of Excellence

To meet the increase in demand for Quality IT Engineers every year and to bridge the gap between Industry and Academics and also to quickly bring the curriculum and students on par with the latest industrial standards, the Institute of Aeronautical Engineering, Hyderabad has partnered with EPAM Systems India Private Limited, who specializes in service development, digital platform engineering, and digital product design to have Center of Excellence (CoE) to train the students on Java, Front end technologies and Automated testing using Java/ Selenium. Industry support laboratories

### intel Center of Excellence

To prepare students for the ever-changing tech environment. Through the active development of a curriculum that adheres to Intel's standards, the Center of excellence bridges gap between academic theory and industry demands, providing students with a well-rounded skill set. This partnership marks a substantial advancement in cultivating professionals ready for the industry, ensuring students not only acquire theoretical knowledge but also gain practical skills essential for a prosperous career in the technology sector.

# Technology Innovation and Incubation Center (TIIC)

“Success is not just about getting a degree, but developing critical thinking and leadership skills to support a successful career”

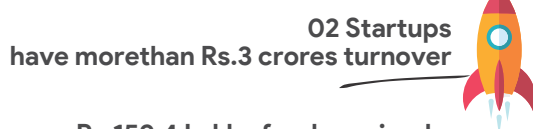
**“It’s about learning skills for your chosen life, not just a job”**

“Succeed in College - Succeed in Life”

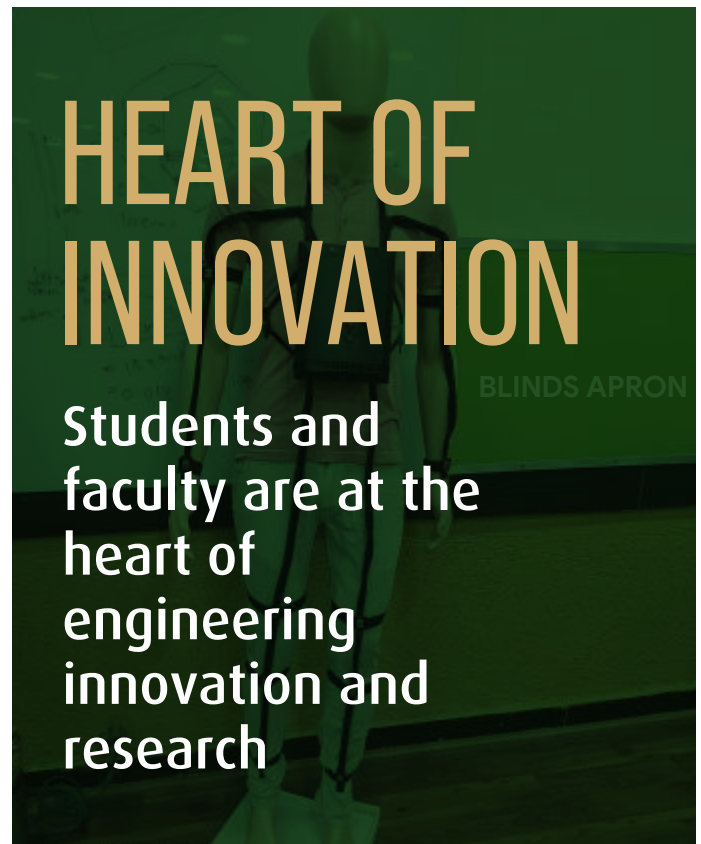
A dedicated body Technology Innovation and Incubation Center (TIIC) encourages the students to develop sustainable business ideas and power through the initial stages for a profitable business venture.

The entire process, from inception and incubation to final execution, is monitored under the guidance of industry experts and faculty members. Having fast pace expertise in engineering and management to its advantage, the institute has been able to rise to the occasion and provide students the necessary inputs to manifest their innovative ideas into reality.

This center provides physical infrastructure and support system necessary for business incubation activities to network them with seed funders, angel investors, and venture capitalists.



Rs.159.4 Lakhs fund received from MSME to develop prototypes under MSME Champion scheme





Start-Up Park  
Innovation Centre

# LARGEST STUDENT-RUN INCUBATION CENTRE JUST GOT BIGGER !

## Start-Up Initiatives

- To prepare students to gain benefits from Government of India's 'Start-Up India' programme
- To encourage Science and Technology students to choose entrepreneurship as their careers
- To motivate students to convert their Detailed Project Reports (DPRs) and projects into viable B-plans
- To create a common virtual platform to submit and make students' projects nationwide
- To inculcate socially responsive behavior among the student aspirants interested in launching Start-Ups
- To train students of rural background in identifying business opportunities in their local areas
- To orient students as to how they can conceptualize social business Start-Ups that will address social issues
- To provide handholding support to students for launching their Start-Ups during the entire course of their study
- To equip students with the necessary skills for managing their business enterprise

IARE promotes entrepreneurship and devises ways and means to instill business acumen in students who seek to become entrepreneurs after their graduation. Student entrepreneurship support service is a vibrant platform where the students are constantly encouraged to generate business ideas in tune with the changing demands in the native and global markets and trained to test the viability of launching their startups. The TIIC regularly organizes enterprise internships, seminars and workshops by business experts from diverse business fields.

## The Science and Technology Start-Up park offers assistance in

- |  |   |
|--|---|
| → Developing business plans  | research / survey, market and trend analyses, industry analysis, assessing economic viability, product/idea design, overcoming developmental impediments and other related activities |
| → Testing business viability   |   |
| → Preparing project reports and presentations for venture capitalists and evaluators   |   |
| → Facilitating the documentation process required for formal registration of company, logo, copyright, and patent etc. Lending a hand with feasibility studies, market | → Providing capital investment  |

## BENEFITS

Start-Ups / SMEs can receive grant up to Rs 6.25 lakhs and further possible financial assistance up to Rs 15 lakhs.

# Career Services Centre

COMPETENCY BUILDING | CAREER DEVELOPMENT | EMPLOYABILITY

The Competency Building and Career Development (CBCD) framework integrate strong technical training, hands-on development, and exposure to emerging technologies with continuous mentoring and industry-aligned assessments. Through this progressive approach, students build confidence, enhance problem-solving abilities, and develop the professional skills required to excel in internships and campus placements, ensuring they are fully prepared for dynamic and evolving career opportunities.

A well-structured Five-level program designed to guide students from foundational learning to successful career entry.

## Level-1 Coding Essentials

Among the employers most needs, coding and programming are very high in the list. Coding Essentials provides students with a strong foundation in programming by emphasizing algorithms, data structures, optimization techniques, and database design. It develops the analytical skills necessary for effective problem-solving and higher-level learning.

### Key areas covered include:

- Algorithms for Data Structures
- Algorithm Design
- Experience with Graph Theory
- Database Design



## Level-2

### Algorithmic Thinking and Full Stack Development

Students develop strong problem-solving skills through competitive programming while gaining hands-on experience in frontend and backend technologies. This level enables them to effectively apply algorithms for problem-solving and build complete, industry-relevant web applications with secure and scalable architectures.

### Key areas covered include:

- Competitive Programming
- Frontend Engineering: React, Angular, Vue, Tailwind
- Backend Engineering: Spring Boot, Microservices, REST APIs
- Secure Coding and Authentication (JWT, OAuth)
- Databases: SQL + NoSQL (MySQL, PostgreSQL, MongoDB)
- API-First Development and Integration

### Level-3

## Coding Mastery and Cloud/DevOps Engineering

This level focuses on advanced algorithmic thinking, system design, and scalable application development. Students gain exposure to cloud platforms, DevOps practices, and modern deployment pipelines, preparing them for real-world engineering roles in high-performance environments.

#### Key areas covered include:

- Advanced & Creative Algorithms (Optimization, Game Theory)
- Streaming & Real-Time Algorithms
- System Design & Scalable Architecture
- API Engineering (REST, GraphQL, Event-Driven Systems)
- DevOps & Cloud-Native Deployment: Docker, Kubernetes, Serverless, CI/CD Pipelines (Jenkins, GitHub Actions), Observability & Monitoring
- DevSecOps & Cloud Security
- Testing: Unit, Integration, Automation (JUnit, Selenium)

### Level-4

## Technology Enabled Learning (Next-Gen Skills)

Students are equipped with advanced skills and knowledge in niche and emerging technologies. This enables them to remain resilient to technological changes in the industry and build high-quality, future-ready technical careers. The level ensures adaptability and sustained relevance in a rapidly evolving technology landscape.

#### Key areas covered include:

- Cloud-Native Computing (AWS, Azure, Aneka)
- Data Engineering and Analytics (Power BI, Data Pipelines)
- Enterprise Platforms: Salesforce, ServiceNow, SAP
- Agentic AI
- AI-Driven Software Engineering
- Blockchain
- Quantum Computing

### Level-5 Placement Readiness

This level is designed to equip students with the essential professional, interpersonal, and technical skills required to confidently enter the workforce. Through structured training, mentoring, and assessments, students develop strong communication abilities, problem-solving skills, professional presence, and the confidence needed to excel in interviews and early career roles. The focus is on ensuring complete preparedness for intern roles and campus recruitment processes.

#### Key areas covered include:

- **Darpan – Personalized Mentoring & Career Guidance** One-on-one mentoring to help students identify suitable career paths, set clear goals, and receive continuous guidance for sustained professional growth.
- **CCC – Coding Competency Challenge** Structured coding assessments with a strong emphasis on industry-aligned problem-solving, aimed at enhancing coding proficiency and improving performance in technical interviews.
- **Mock Interviews and Assessments** Simulated interview sessions designed to build confidence, strengthen communication skills, and prepare students for real-world recruitment processes.
- **Company-Specific Trainings** Focused preparation tailored to the hiring patterns, required technologies, and expectations of targeted companies.
- **Mentoring by Industry Experts** Engagement with industry professionals to gain insights into real-world practices, emerging trends, and employer expectations.
- **CC 2 BCC – Career Camp to Build Candidates' Confidence** Intensive training programs covering company insights, deep dives into hiring processes, strategies to crack opportunities, and real-world exposure, enabling students to gain a comprehensive understanding of recruitment expectations.
- **Resume and Portfolio Development** Guidance on creating impactful resumes and professional portfolios that effectively showcase technical skills, projects, and achievements.

# Placement and Training Center

Knowing your alternatives for a future profession is crucial once your undergraduate or graduate studies are complete. To keep its commitment to each job seeker, the Placement and Training (PAT) centre organizes and manages the campus placement program. PAT Center goes above and beyond in offering workshops or training programs relevant to placement to polish the abilities of students. Institute often invites academic experts and qualified soft skills trainers from the business world to help students get ready for placement activities.

The PAT centre has an exceptional track record for developing a solid placement record during its on-campus push and luring more and more MNCs from across the world. It also consistently maintains an upward curve in terms of the percentage of qualified students placed.

Every year, 62 firms from the software and core engineering industries visit IARE. Additionally, the PAT is effective in securing internships and projects focused on the industry for undergraduate and graduate students at numerous reputable MNCs. Alumni from IARE today can be found holding prestigious positions in top businesses all over the world.



The Quest  
**for your Dream Job**  
Ends Here !!

# Placement Opportunities

62+ Companies

Highest salary package of Rs 60 lakh per annum.

Average salary package Rs 6.5 lakh per annum



Some of our recruiters

		J.P.Morgan
		LUMEN

# Participation in SAE Events

SAE Design Series competitions take students beyond textbook theory by enabling them to design, build, and test the performance of a real vehicle and then compete with other students from around the globe.

SAE leads the aerospace, automotive, and ground vehicle industries in providing the tools and insights to help the students launch a successful career.

- SAE Aero Design
- Formula SAE
- Baja SAE
- Supra SAE
- Bicycle Design SAE
- SAE Student Convention



**HONORS AND AWARDS :** IARE's SAE Design Team (Aeronautical / Mechanical) is one committed to excellence. Every year, while competing against 45 to 135 teams international / national, our teams are continuously proven to be one of the best in the nation.

## INTERNATIONAL

**SAE Aero Design West (International) Micro Class Award** | 4 to 8 April, 2025 | Van Nuys, California, USA. | First place in Design Report and Technical Presentation, Top Ranked India Team (Eighth in Overall)

**SAE Aero Design East (International) Micro Class Award** - | 8 to 11 March, 2024 | Lakeland, Florida, USA. Third place in Design Report, Fourth in Technical Presentation, Top Ranked India Team (Eleventh in Overall)

**SAE Aero Design East (International) Regular Class Award** | 10 to 13 March, 2023 | Lakeland, Florida, USA. | Eighth place in Design Report, Eleventh in Technical Presentation, Top Ranked India Team (Seventeenth in Overall)



## NATIONAL

**SAE Cycle Design** | 27-28 September, 2025 | Prathyusha Engineering College in Thiruvallur, Tamil Nadu | IARE has secured third place for the best design in the All India Competition.

**SAE INDIA Aero Design Challenge** | 1- 3 September, 2022 | SRM Institute of Science and Technology (SRMIST), Chennai | IARE Represented with two teams IARE ABHYAS (REGULAR CLASS) & IARE AGNI (MICRO CLASS). IARE AGNI has won first prize in technical presentation with its best Aerodynamic Design.

# Computing Facilities



More than 2600 computers are housed in 68 cutting-edge computer labs at IARE, which provides the computing resources needed for academic, project, and research needs. This is made possible by a fibre optic backbone connecting the servers throughout the facility.

600 KVA uninterruptible power supply system with 742 KVA diesel green generator sets are exclusively catering to the needs of the computer center. Broadband 2000 Mbps internet facility is available through wireless connectivity.

The institute leverages cloud computing services to efficiently manage administrative, academic, and IT operations. Its infrastructure is hosted on the Amazon Web Services (AWS) cloud, utilizing a virtualized environment supported by four flex servers and 20 TB of SAN storage. This setup ensures scalable, reliable, and high-performance computing to meet the campus's operational requirements.

**WiFi** Internet  
2000 Mbps

**40** LEGAL APPLICATION  
DEVELOPMENT  
SOFTWARES AND TOOLS

**2600** COMPUTERS

(All new Dell, Lenovo, Acer | Intel i5 | i7 processor)

**9** High End  
Dell Rack  
Servers

**1** Firewall Sophos  
15000 User

# Infrastructure



## SANGEET AUDITORIUM

Air Conditioned  
800 seating capacity

## AMPHITHEATRE

10  
ACRES LAND

3,92,000 Sft.  
BUILTUP AREA

72  
SMART CLASS ROOMS  
(43+ Ultra Modern and Air Conditioned)

103  
LABORATORIES  
(Air Conditioned)

# Infrastructure



The 10-acre IARE campus is located in a lovely, peaceful setting that is perfect for education. The campus's infrastructure facilities are aesthetically pleasing, serene, and comforting. It is a completely self-contained campus that has everything students could possibly need to pursue their dreams.

The geographical proximity to industrial and corporate hubs is an added advantage for students to liaise between studies and practical exposure, and also makes placements more fluid.

**6 SEMINAR HALLS**

(120 seating capacity)

**INTERNET**

2000 Mbps

**3**

**STUDIO ROOMS**

**SOLAR POWER**

160 KW

**750 KVA  
POWER BACKUP**

**4**

**CONFERENCE ROOMS**

(100 seating capacity)

**5**

**GENERATORS**

(742.5 KVA)

# Library

The contemporary digital library with a duplex design is completely computerized and equipped with bar-coding and Wi-Fi. The ability to borrow books whenever they want is made comfortable and convenient for readers by a fully automated library management system. Faculty members also have the option of uploading all of their lectures, question banks, lab manuals, and research notes to the institute's Intellect CMS repository in addition to these resources. With a simple key and a password, the pupils can access these.



**57507**  
BOOKS

**10432**  
E-RESOURCES

**12502**  
SFT. AREA

**2000**  
JOURNALS



# e-Learning Resources



Creation of e-Learning Readiness Videos (ELRV) was started in the year 2017 enabling the faculty to construct educational content for the selected courses of engineering.

Developed e-content learning resources are available through the Learning Management Portal – AKANKSHA as well as IARE YouTube Channel.

- Videos are recorded in full HD (capable of producing in 6K)
- Covers skill development, skill enhancement and employability courses.
- One-stop web and mobile based interactive online digital learning for active and slow learners.
- High quality learning experience using multimedia on anytime, any where basis.
- Conduct of MOOCs allowing easy access, monitoring and certification.
- Peer group interaction and discussion forum to clarify doubts.
- Hybrid model of delivery that adds to the quality of classroom teaching.

## IARE Youtube Educational Channel

**11077+**

NUMBER OF VIDEO LECTURES CREATED

**119k** hours

WATCH TIME OF VIDEO LECTURES

**6078** hours

RECORDED TIME OF VIDEO LECTURES

**18273**

NUMBER OF SUBSCRIBERS

# Academic Partnerships

## TOP 15

- ✘ **Nanyang Technological University**  
Singapore
- ✘ **Purdue University**  
Indiana, USA
- ✘ **The University of Tokyo**  
Bunkyo, Japan
- ✘ **Victoria University**  
Sydney, Australia
- ✘ **RMIT University**  
Melbourne, Australia
- ✘ **The University of Alabama**  
Tuscaloosa, USA
- ✘ **King Mongkut's Institute of Technology**  
Bangkok, Thailand.
- ✘ **Mingchi University of Technology**  
Taiwan
- ✘ **National University of Kaohsiung**  
Taiwan
- ✘ **Nakhon Pathom Rajabhat University**  
Bangkok, Thailand.
- ✘ **University of Malaya**  
Kuala Lumpur, Malaysia
- ✘ **Vietnam National University**  
Ho Chi Minh City, Vietnam.
- ✘ **Saint Louis University**  
Missouri, USA
- ✘ **University of Missouri**  
Missouri, Columbia
- ✘ **The University of Toledo**  
Ohio, USA



### Features of Collaboration

- Development of collaborative research
- Organization of seminars, workshops and other meetings on specific topics
- Exchange of students
- Exchange of research scholars
- Exchange of faculty members

# Clean, Green and Sustainable

A Clean Campus Green Campus (CCGC) is an initiative taken by the institute to strengthen our philosophy “We believe in creating sensitive and socially conscious engineers who can contribute in shaping our built environment”.

A Clean & a Green Campus is a place where environmental friendly practices and education combine to promote sustainability in the campus. It provides opportunities for students to study campus and local environmental problems, conduct environmental audits of its practices, reduce campus waste, maximize energy efficiency, and deal with land-use, transportation, and building planning.

This initiative has given us the opportunity to take the lead in redefining the environmental culture and develop new paradigms by creating sustainable solutions towards environment, realization of social responsibility towards nature and hence contributing a bit from everyone (students, faculty members and admin staff) in achieving this goal.

## Objectives:

The objective of CCGC is aimed to implement the approach and attitude towards sustainable living by creating a healthy atmosphere in and around the campus by creating sense of security, ease of accessibility and sensitizing students about their responsibility towards environment. Increasing biodiversity around the campus, Landscape restoration, storm water management and waste management are also part of this initiative. This will create an awareness amongst the students so they can then think about their surroundings and initiate new ways of environmental consciousness.

There are four heads under this initiative

- Overall campus planning and design
- Waste management strategy
- Rain water harvesting
- Use of Bicycles / Battery powered vehicles
- Biodiversity
- Design Interventions.

## Sustainable Development Goals (SDG)



## Institutional Practices in SDG's:

Institute involves in a holistic approach that encompasses Good Health and Well-being (SDG 3), Quality Education (SDG 4), Gender Equality (SDG 5), Clean Water and Sanitization (SDG 6), Affordable and Clean Energy (SDG 7), Decent work and Economic Growth (SDG 8), Industry, Innovation and Infrastructure (SDG 9), Reduced Inequalities (SDG 10), Life on Land (SDG 15) and Partnerships for the Goals (SDG 17) reflecting the commitment to create a more sustainable and equitable world.

# Aeronautical Engineering

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Aeronautical Engineering is one of the most challenging fields of engineering with a wide scope for growth and career excellence. Aeronautical engineers are prepared to develop new technologies for use in aviation, defence systems, and spacecraft. They are involved primarily in designing aircraft and propulsion systems and in studying the aerodynamic performance of aircraft design, manufacturing, operation, testing, maintenance and management of flight vehicles.

## Career focused

Embedding industry readiness in learners through engagement with industry experts

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## SAE aero design

Working with the aero design world champions

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## Employment

As a graduate in Aeronautical Engineering, you will be equipped to design, analyze, and improve aircraft and aerospace systems. You will be able to solve complex engineering challenges, ensure safety and efficiency, and contribute to advancements in aviation technology. This prepares you for careers in leading aerospace industries worldwide or for pursuing higher studies.

Established in the year 2000, the department offers B.Tech program in Aeronautical Engineering and M.Tech program in Aerospace Engineering.

The B.Tech Program in Aeronautical Engineering has been accredited by National Board of Accreditation (NBA) successively Six times i.e. in 2008, 2013, 2016, 2019, 2022 and 2025. M.Tech program in Aerospace Engineering got accredited by National Board of Accreditation (NBA) in 2023.



Design is not just what it looks like  
and feels like, design is how it works

## WHAT YOU LEARN

**Aero structures:** Principles of structural mechanics and analytical techniques to ensure a vehicle's structural integrity.

**Aerodynamics:** Fluid motion around a body moving through the atmosphere at subsonic and supersonic speeds.

**Propulsion:** Basics of thrust generation by the application of aero/gas dynamics and thermodynamics.

**Flight control:** Analysis of flight, including techniques for vehicle guidance and stability, space vehicle trajectories and orbits.

**Aerospace materials:** Advanced materials used on the airframe and in propulsion systems.

**Aerospace design:** Preliminary design of the complete aircraft which emphasises systems integration.

## CAREER PATHS - THE CHOICE IS YOURS

- Aircraft Maintenance Engineer: Aircraft Maintenance Engineer, Line Maintenance Engineer, Base Maintenance Engineer, and Maintenance Technician.
- Aerodynamics Engineer: Aerodynamics Engineer, CFD Engineer, Flight Physics Engineer, and Aerodynamic Analyst.
- Propulsion Engineer: Propulsion Engineer, Engine Design Engineer, Rocket Propulsion Engineer, and Gas Turbine Engineer.
- Avionics Engineer: Avionics Engineer, Control Systems Engineer, and Avionics Design Engineer.
- Research and Development (R&D) Engineer: Research Engineer, R&D Engineer, Innovation Engineer, and Development Engineer.
- Flight Test Engineer: Flight Test Engineer, Flight Test Analyst, Performance Engineer, and Test & Evaluation Engineer.
- UAV (Drone) Engineer: UAV Engineer, Drone Developer, UAV Systems Engineer, and Remote Pilot Engineer.
- Aircraft Structural Engineer: Structural Engineer, Aerospace Structural Analyst, Stress Engineer, and Design Engineer (Structures).
- Materials Engineer (Aerospace): Materials Engineer, Aerospace Materials Scientist, Metallurgical Engineer, and Composite Materials Engineer.
- Spacecraft Systems Engineer: Spacecraft Systems Engineer, Satellite Engineer, Systems Integration Engineer, and Mission Systems Engineer.



### Find out more:

For more details about course catalog and syllabi visit...



# Computer Science and Engineering

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Problem solving, a life skill that is crucial to both computer science and engineering, is its most significant component. The design, development, and analysis of hardware and software used to address issues in many business, scientific, and social contexts are topics covered by students. Because computers employ their problem-solving abilities to benefit people, CSE also has a substantial human component. With no prerequisites, students in our well-liked introductory programming courses start with the fundamentals. Following this, they study the mathematical underpinnings of computing, gain practical experience creating software and hardware, and select advanced courses in areas like human-computer interaction, computer graphics and animation, artificial intelligence, machine learning, robotics, data science, natural language processing, computer networking, computer security and privacy, and many more.

## Coding experience

Global program focused on introducing students to open source software development competitions

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## Real time work experience

Opportunity to undertake full semester internship, a job, or any form of employment with paid internship

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## Employment

As a graduate in Computer Science and Engineering, you are the engine driving the world's most innovative software solutions. You are primed to master complex algorithmic puzzles and embrace early supervisory duties, primarily in the creation of intelligent systems, data-driven analytics, secure network frameworks, and the optimization of global digital platforms - all avenues within the tech industry are open to you!

Established in the year 2001, the department offers B.Tech Program in Computer Science & Engineering and M.Tech program in Computer Science & Engineering. The department is a recognized Research Centre under Jawaharlal Nehru Technological University, Hyderabad and conducts Ph.D programs in Computer Science since 2019 .

The B.Tech Program in Computer Science and Engineering (CSE) has been accredited by National Board of Accreditation (NBA) successively six times i.e. in 2008, 2013, 2016, 2019, 2022 and 2025 and the M.Tech program in CSE got accredited by National Board of Accreditation (NBA) successively thrice i.e. in 2019, 2022 and 2025.



Science is about knowing,  
engineering is about doing

## WHAT YOU LEARN

### Computer science fundamentals

Gain essential skills in programming, mobile app development, logic and data structures, software development, computer architecture and databases.

### Web development

Learn full-stack web development, including front end and software development using the latest applications.

### Big data management

Learn the latest technologies for analysing big data, including Hadoop and Apache Spark, and learn how to leverage Amazon Web Services.

### Artificial intelligence (AI)

Understand the historical foundations and fundamentals of AI as they apply to machine learning, game playing, state space search and rule-based expert systems.

## CAREER PATHS - THE CHOICE IS YOURS

- Software Developer & Engineering: Software Engineer / Developer, Systems Programmer / Engineer, DevOps Engineer, Backend Developer and QA Engineer/Tester.
- Web Developer: Front-end Developer, Full Stack Developer, Web Application Developer, WordPress Developer / CMS Specialist and JavaScript Developer (or specific framework, e.g., React/Angular Developer).
- Mobile App Developer: Mobile Application Developer / Engineer, iOS Developer, Android Developer, Cross-Platform Developer and Mobile Platform Strategist.
- Video Game Developer: Game Developer / Programmer, Graphics Developer, Game Designer and Gameplay Programmer.
- Cybersecurity: Chief Information Officer (CIO), Security Engineer, Cybersecurity Analyst, Information Security Analyst, Digital Forensics Analyst and more.
- Data Science and Analytics: data engineer, database administrator, business intelligence analyst and more.
- Artificial intelligence (AI) and machine learning (ML): AI engineer, machine learning engineer, natural language processing developer and computer vision engineer.
- Software development and user experience (UX) / User interface (UI) design: UX/UI designer, DevOps engineer, interaction designer, user experience researcher, information architect, product designer, communication designer and information designer
- Digital marketing and e-commerce: web developer, e-commerce specialist, digital marketing technologist, search engine optimization/marketing (SEO/SEM) specialist, Influencer marketing specialist, product manager, Data and Analytics Specialist, multimedia content developer and digital marketing consultant for businesses.
- Cloud Engineer: cloud systems engineer, cloud network engineer, cloud security engineer, cloud devOps engineer and cloud solutions architect.



### Find out more:

For more details about course catalog and syllabi visit...



# CSE (Artificial Intelligence and Machine Learning)

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Wonder how Netflix predicts what its customers will enjoy? Wonder how health applications in your mobile devices are predicting your medical conditions? Wonder how your virtual assistants like Google, Siri and Alexa can do your daily work for you? Soon, your car will be able to drive itself faster and safer while you relax in the seat, but how?

That's where AI and ML will come in to play to teach the above situations, learn how they work and generate the best results while building some fascinating models. With massive computational power, big data, artificial intelligence and machine learning systems will manage, analyse and use the data far more successfully than ever before. This program combines key areas of artificial intelligence, machine learning and data science which are complementary areas of Intelligent Systems, where data science focusing on statistical techniques and Artificial Intelligence on algorithmic techniques. Both areas are in high demand in the tech industry and for Industry 4.0.

## Design and develop

Develop expert knowledge of, and the ability to design, complex machine learning and deep neural networks systems for use in industry.

## Enhanced knowledge

Integration of concepts, techniques and applications to enhance knowledge and skills in intelligent systems

## Employment

After completing the program in CSE (AI&ML), graduates can apply AI and Machine Learning techniques to solve domain-specific problems. Essentially in the deployment of predictive analytics, natural language processing, autonomous system behavior, and the ethical scaling of deep learning models - all frontiers within the intelligence-driven world are open to you!

The increasing importance of Artificial Intelligence motivated the department of Computer Science and Engineering to offer a B.Tech program in Computer Science and Engineering – Artificial Intelligence and Machine learning (AI & ML) from the academic year 2020-2021.

Artificial Intelligence & Machine Learning is an emerging area of Computer Science and Engineering (CSE). The B.Tech Program in Computer Science and Engineering (CSE) has been accredited by National Board of Accreditation (NBA) successively six times i.e. in 2008, 2013, 2016, 2019, 2022 and 2025 and the M.Tech program in CSE got accredited by National Board of Accreditation (NBA) successively thrice i.e. in 2019, 2022 and 2025.



## AI Goes Above and Beyond Our Human Intelligence

What we want is a machine that can learn from experience...

### WHAT YOU LEARN

**Computer science:** Get practical experience with open-source software and platforms, including Python, R and Hadoop. Understand database fundamentals, programming languages such as Java and Python, and cloud-based services offered by Amazon, Google, IBM and Microsoft.

**Artificial intelligence (AI):** Understand the historical foundations and fundamentals of AI as they apply to machine learning, game playing, state space search and rule-based expert systems.

**Problem-solving with AI:** Discover how research skills and deep learning algorithms are used to develop AI-based solutions to real-world problems.

**Machine learning:** Learn how to analyse data to design, implement and evaluate machine learning techniques for solving real-world problems.

**Deep learning techniques:** Explore deep learning techniques and apply them to AI functions like image recognition, machine translation and speech synthesis.

### CAREER PATHS - THE CHOICE IS YOURS

In addition to the job opportunities available in Computer Science and Engineering (CSE), CSE (AI&ML) offers specialized expertise in the following specific domains.

- **AI Engineer:** This profession develops, programs, and manages AI models through deep learning and machine learning.
- **Machine Learning Engineer:** This profession deploys and develops various machine learning models by selecting the appropriate algorithm and designing responsive infrastructure.
- **Data Scientist:** As the name suggests, a data scientist collects, cleans, and analyses data to create predictive models. The models are then used to make effortless decision-making.
- **Robotics Engineer:** This person designs and runs robotic models created to make even complex tasks effortless.
- **Research Scientist:** A researcher collects and analyses data correctly to solve real-world problems. The individual develops new algorithms to create machine-learning applications.
- **Big Data Engineer:** This professional interacts with AI processing systems and databases to extract the data required for effective decision-making.
- **Business Intelligence Analyst:** A Data Analyst or Solutions Architect might progress to become a Business Intelligence (or BI) Analyst after some experience.



### Find out more:

For more details about course catalog and syllabi visit...



# CSE (Data Science)

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Data science is a method for transforming business data into assets that help organizations improve revenue, reduce costs, seize business opportunities, improve customer experience, and more. This course is designed to meet the increasing demand for professionals who can manage both Business and Data Science aspects by analysing data and extracting valuable insights for decision making.

The subject of Data Science encompasses important disciplines like Statistics, Mathematics, and Programming. Artificial intelligence and machine learning technologies including deep learning, reinforcement learning, neural networks, etc. are the pillars of data science. They (Remove) apply this knowledge to uncover solutions hidden in the data to take on business challenges and goals.

## Career focused

Data Science is rapidly emerging in organizations and the need for fully trained data scientist, analysts and programmers are in demand now more than ever.

## This is for you if

You have an enquiring mind, with a practical and analytical approach to problem solving

You are a knowledge seeker and want to learn how to tell story with data

## Employment

The graduates of the program are able to shape and apply data-driven technological developments. As responsible business managers, they make technically and economically sound decisions, optimize processes, and implement business models that meet both economic and social requirements. They are thus excellently qualified to start a career in national and international companies in a wide range of sectors.

This B.Tech program in Computer Science and Engineering (Data Science) is specifically designed and offered by the department of Computer Science and Engineering in response to the rapidly developing field of Data Science from the academic year 2020-2021.

Data Science is an emerging area of Computer Science and Engineering (CSE). The B.Tech Program in Computer Science and Engineering (CSE) has been accredited by National Board of Accreditation (NBA) successively six times i.e. in 2008, 2013, 2016, 2019, 2022 and 2025 and the M.Tech program in CSE got accredited by National Board of Accreditation (NBA) successively thrice i.e. in 2019, 2022 and 2025.



## Transforming data into value

### WHAT YOU LEARN

**Computer science:** Get practical experience with open-source software and platforms, including Python, R and Hadoop. Understand database fundamentals, programming languages such as Java and Python, and cloud-based services offered by Amazon, Google, IBM and Microsoft.

**Mathematics and statistics:** Learn how to apply mathematics and statistics to data science problems. Process complex data and use it for the advantage of businesses and organisations. Learn using real data sets from our industry partners.

**Data science specialisation:** Choose a specialisation in bioinformatics, big data and cloud computing, or analytical science. Complete a research thesis or an intensive, industry-based learning project.

**Project management:** Learn how to manage large-scale IT projects and work in a team to develop a small-scale, industry-based system.

**Diverse electives:** Boost your knowledge through electives in business, health sciences, artificial intelligence and cyber security.

### CAREER PATHS - THE CHOICE IS YOURS

In addition to the job opportunities available in Computer Science and Engineering (CSE), CSE (Data Science) offers specialized expertise in the following specific domains.

- **Data administrator:** Data administrators monitor, maintain and manage their organisation's data, helping to control data assets and using different applications to ensure that data is processed correctly.
- **Data engineer:** Data engineers create the architecture that stores a company's data. In addition to determining how the company captures and stores data, data engineers design warehousing solutions and perform data modelling duties.
- **Data scientist:** Data scientists extract raw data from a variety of sources using a range of tools, including artificial intelligence and machine learning, which they then interpret into relevant information. They present this information in an accessible way, such as through reports and presentations.
- **Data analyst:** Following data-gathering exercises and interpretation, data analysts use data to identify how an organisation can be more efficient via automation. They also track the organisation's key performance indicators to determine how the business is performing overall.
- **Data architect:** Data architects are responsible for developing a data strategy for the organisation. They must design the overall data infrastructure, including data models and procedures, and manage the data flow. They should oversee the entire lifecycle of a data operation and collaborate with other data science professionals to meet the company's requirements.



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# Information Technology

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Information Technology is a scientific and technological domain that encompasses all aspects of computing, including data storage, information processing, communication systems, and the efficient sharing of digital information. It is a fast-growing discipline that is significantly reshaping global society by facilitating modern business practices, providing digital entertainment platforms, and supporting artistic creativity. Both software and hardware sectors are parts of Information Technology. Information Technology is fast becoming our way of life and one cannot imagine life without IT in today's world.

## Design and develop

Design IT products and services that solve real problems with focus on user centered design and big data analytics

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## Real time work experience

Opportunity to undertake full semester internship, a job, or any form of employment with stipend

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## Employment

As a graduate in Information Technology, you are the engine driving the world's most innovative software solutions. You are primed to master complex algorithmic puzzles and embrace early supervisory duties, particularly in the creation of intelligent systems, data-driven analytics, secure network frameworks, and the optimization of global digital platforms—all avenues within the tech industry are open to you!

Established in the year 2001, the department offers B.Tech program in Information Technology

The B.Tech Program in Information Technology has been accredited by National Board of Accreditation (NBA) successively five times i.e. in 2008, 2013, 2016, 2019 and 2023



We are Changing the world  
with Technology

## WHAT YOU LEARN

### Web and software development

Develop and build websites and software. Administer the front end, back end and server side of websites and IT systems.

### IT systems analysis

Understand and analyse IT systems to deliver more efficient and effective IT solutions for your organisation.

### Design

Learn about software, system and network design so you can contribute to making better programs and infrastructure.

### Programming and networking

Learn the language of computers and how they communicate with one another to create working code and smarter systems.

### Project management, estimation, documentation and report evaluation

IT is more than just computers. Learning to manage projects and communicate effectively is a must in any organisational environment.

## CAREER PATHS - THE CHOICE IS YOURS

- Software Developer & Engineering: Software Engineer / Developer, Systems Programmer / Engineer, DevOps Engineer, Backend Developer and QA Engineer/Tester.
- Web Developer: Front-end Developer, Full Stack Developer, Web Application Developer, WordPress Developer / CMS Specialist and JavaScript Developer (or specific framework, e.g., React/Angular Developer).
- Mobile App Developer: Mobile Application Developer / Engineer, iOS Developer, Android Developer, Cross-Platform Developer and Mobile Platform Strategist.
- Video Game Developer: Game Developer / Programmer, Graphics Developer, Game Designer and Gameplay Programmer.
- Cybersecurity: Chief Information Officer (CIO), Security Engineer, Cybersecurity Analyst, Information Security Analyst, Digital Forensics Analyst and more.
- Data Science and Analytics: data engineer, database administrator, business intelligence analyst and more.
- Artificial intelligence (AI) and machine learning (ML): AI engineer, machine learning engineer, natural language processing developer and computer vision engineer.
- Software development and user experience (UX) / User interface (UI) design: UX/UI designer, DevOps engineer, interaction designer, user experience researcher, information architect, product designer, communication designer and information designer
- Digital marketing and e-commerce: web developer, e-commerce specialist, digital marketing technologist, search engine optimization/marketing (SEO/SEM) specialist, Influencer marketing specialist, product manager, Data and Analytics Specialist, multimedia content developer and digital marketing consultant for businesses.
- Cloud Engineer: cloud systems engineer, cloud network engineer, cloud security engineer, cloud devOps engineer and cloud solutions architect.



### Find out more:

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# Electronics and Communication Engineering

With the evolution of technology, Electronics and Communication has become an essential discipline that is required by every other industry. Hence, ECE is one of the most sought-after branches by students. It requires strong problem-solving and analytical skills, as well as a solid understanding of mathematics and computers in relation to electrical and electronic devices. This course focuses on four key areas in electronics: circuits and systems, signal processing, computing, and communication.

## System Design

Students benefit from access to high-end facilities including eCAD software – Pspice/ MultiSim/NI LabVIEW; simulators for chip design (Xilinx / Cadence); a wide range of development systems for microcomputer, microcontroller and embedded systems; digital signal processing (DSP) boards; rapid prototyping equipment with 3D printers and laser cutters – all of which allow to better understand how the theory they have learnt links to real workplace scenarios.

## Employment

Successful completion of the program equips graduates to undertake application-oriented technical roles and assume early leadership responsibilities in areas such as electronic system design, communication networks, signal processing, embedded systems, and VLSI design. The program also prepares graduates for higher studies and qualifies them for admission into master's degree programs in related disciplines.

Established in the year 2004, the department offers B.Tech program in Electronics & Communication Engineering and M.Tech program in Embedded Systems. The department is a recognized Research Centre under Jawaharlal Nehru Technological University, Hyderabad and conducts Ph.D programs since 2019.

The B.Tech Program in Electronics and Communication Engineering has been accredited by National Board of Accreditation (NBA) successively five times i.e. in 2013, 2016, 2019, 2022 and 2025 the M.Tech program in Embedded Systems got accredited by National Board of Accreditation (NBA) successively thrice i.e. in 2019, 2022 and 2025.



We are connecting the world

## WHAT YOU LEARN

**Digital design solutions:** Discover how Electronic Design Automation (EDA) software tools can address issues with architecture design, user research and concept development.

**Micro electronics:** Create prototypes and custom-designed microchips for consumer products, industrial controls and medical electronic equipment.

**Digital control and signal processing:** Explore the digital signal processing (DSP) and linear controls systems used to analyse and design physical systems

**Designing corporate networks:** Learn how to design and develop large corporate networks. Understand the last-mile wireless segment, network capacity planning and how to secure networks using innovative firewalls and ICT policies.

**Engineering Environment and Sustainability Practices:** Gain an understanding of engineering industry sustainability practices and build attributes required to make a successful transition from institute to the world of work.

## CAREER PATHS - THE CHOICE IS YOURS

- Communication Systems Engineer: Telecom Engineer, Wireless Communication Engineer, Satellite Communication Engineer, and Mobile Network Engineer
- Embedded Systems Engineer: Embedded Systems Engineer, Firmware Engineer, Embedded Software Developer, and Hardware Design Engineer.
- VLSI Design Engineer: VLSI Design Engineer, ASIC Engineer, Chip Design Engineer, and Semiconductor Engineer
- Network and Security Engineer: Network Engineer, Network Administrator, and Cybersecurity Engineer
- Research and Development (R&D) Engineer: Research Engineer, R&D Engineer, Innovation Engineer, and Development Engineer
- RF (Radio Frequency) Engineer: RF Engineer, RF Design Engineer, and Microwave Engineer
- Signal Processing Engineer: Signal Processing Engineer, DSP Engineer, and Image/Audio Processing Engineer
- Robotics Engineer: Embedded systems, control systems, programming (Python/C++), sensors and actuators, robotics frameworks (ROS).
- IoT (Internet of Things) Engineer: IoT Engineer, IoT Developer, and IoT Solutions Engineer
- Control Systems Engineer: Control Systems Engineer, Automation Engineer, and Process Control Engineer



### Find out more:

For more details about course catalog and syllabi visit...



# Electrical and Electronics Engineering

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Electrical and Electronics Engineering encompasses a broad and dynamic spectrum of subjects, promoting competencies highly valued across industries. The program equips students with a strong technical foundation and versatile skill set to address contemporary engineering challenges and drive innovation. The discipline focuses on critical areas such as efficient sustainable energy systems, intelligent and user-centric technologies, and emerging domains including electric vehicles and modern mobility solutions. Electrical engineers play a pivotal role in solving real-world problems, contributing to technological advancement and societal progress. Be a part of Electrical and Electronics Engineering - Powering Innovation for a Sustainable Future.

## Because dreams need doing...

Access to high-end facilities including PSCAD software - MATLAB, NI LabVIEW; a wide range of development systems for microcontroller, Embedded systems, applications of IoT, Sensor Modeling and industrial automation tools for better understand how the theory they have learnt links to real scenarios.

## Challenges in clean energy

Design, development, simulation, prototyping, and testing to maximize the efficient use of energy whilst reducing reliance on fossil fuels in electrical systems

## Employment

As a graduate in Electrical and Electronics Engineering, you are uniquely positioned to spearhead the global transition toward a smarter, more sustainable grid. You are fully prepared to navigate hands-on technical challenges and step into early management roles, notably in the advancement of smart grids, high-voltage systems, and the seamless integration of green energy solutions - all horizons within the power and electronics sectors are open to you!

Established in the year 2004, the department offers B.Tech program in Electrical & Electronics Engineering and M.Tech program in Electrical Power Systems.

The B.Tech Program in Electrical and Electronics Engineering has been accredited by National Board of Accreditation (NBA) successively five times i.e. in 2013, 2016, 2019, 2022 and 2025. M.Tech program in Electrical Power Systems got accredited by National Board of Accreditation (NBA) in 2025.



We are lighting the world

## WHAT YOU LEARN

**Electronic and Electrical Systems:** Build a strong foundation in Electrical and Electronics Engineering through the study of circuit theory, electrical measurements and DC/AC circuit analysis, enabling the design and evaluation of practical electrical systems.

**Sustainability and Renewable Energy Design:** Develop the capability to design sustainable energy solutions by applying electrical engineering principles to renewable energy systems, smart grids and energy-efficient technologies that address global environmental challenges.

**Systems Modelling:** Acquire proficiency in industry-relevant tools such as MATLAB and Simulink to model, simulate, and analyse electrical, electronic and power systems for performance optimization and design validation.

**Microcontrollers, Digital Design and Power Electronics:** Gain hands-on experience in embedded systems, digital electronics and power electronic converters, focusing on control strategies, real-time applications and efficient energy conversion.

**Electric Vehicles and Smart Mobility:** Explore the design and operation of electric vehicles, including battery management systems, motor drives and charging infrastructure, preparing for emerging trends in sustainable transportation.

**Machine Sensing and Intelligence:**

Develop expertise in sensor technologies, signal processing and intelligent systems to design smart solutions for automation, monitoring and advanced electrical engineering applications.

## CAREER PATHS - THE CHOICE IS YOURS

- Power Systems Engineer: Power Systems Engineer, Power Generation Engineer, Transmission Engineer, and Distribution Engineer
- Electrical Design Engineer: Electrical Design Engineer, Circuit Design Engineer, and System Design Engineer.
- Control Systems Engineer: Control Systems Engineer, PLC Engineer, and SCADA Engineer.
- Renewable Energy Engineer: Renewable Energy Engineer, Solar Energy Engineer, and Wind Energy Engineer.
- Automation Engineer: Automation Engineer, Industrial Automation Engineer, and Smart Manufacturing Engineer
- Electric Vehicle (EV) Engineer: Electric Vehicle (EV) Engineer, Battery Systems Engineer, and Charging Infrastructure Engineer.
- Instrumentation Engineer: Instrumentation Engineer, Process Control Engineer, and Measurement Systems Engineer.
- Smart Grid Engineer: Smart Grid Engineer, Power Distribution Engineer, and Energy Systems Engineer.
- Battery Technology Engineer: Battery Technology Engineer, Energy Storage Engineer, and Battery Systems Engineer.
- Research and Development (R&D) Engineer: Research Engineer, R&D Engineer, and Innovation Engineer.



**Find out more:**

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# Mechanical Engineering

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Mechanical engineering is a discipline of engineering that applies the principles of engineering, physics and materials science for analysis, design, manufacturing, and maintenance of mechanical systems. It is the branch of engineering that involves the production and usage of heat and mechanical power for the design, production, and operation of machines and tools.

## SAE India SUPRA

Bicycle Design Working with the formula racing car champions & bicycle design challenge

## Partnership

Benefit from our excellent, long-established links with major engineering firms in the local area. Gain real-world experience by working on industrially relevant projects.

## Employment

A huge range of potential employment within areas that include manufacturing, aerospace, automotive and marine engineering.

A blend of mechanical engineering with knowledge in computing continue to be among the most employable in the country

Established in the year 2004, the department offers B.Tech program in Mechanical Engineering. The department is a recognized Research Centre under Jawaharlal Nehru Technological University, Hyderabad and conducts Ph.D programs since 2019.

The B.Tech Program in Mechanical Engineering has been accredited by National Board of Accreditation (NBA) successively five times i.e. in 2013, 2016, 2019, 2022 and 2025.



No machine can do the work of  
one extraordinary man

## WHAT YOU LEARN

**Fluid -Thermal Engineering:** Principles of engineering thermodynamics and fluid dynamics, and engineering applications in Industrial like automobiles, steam engines, and power plants

**Machine design:** Principles of engineering mechanics and applications in machine dynamics for detailed design

**Manufacturing Technology:** Basic manufacturing theories and applications of metal cutting practices to get the quality products through processes.

**CAD/CAM Technologies:** Basic engineering computer aided design and analysis software (CAD) and applications of computer aided manufacturing on CNC machines

**Optimization and Industrial management :** Operation research techniques and enterprise resource planning techniques in an industrial scenario.

**Digital manufacturing:** Fundamentals of industrial automation and application of mechatronic technologies.

## CAREER PATHS - THE CHOICE IS YOURS

- CAD Software Training using CNC Programming
- Finite Element Analysis - IS Code and Standard Interpretation
- Machine Tool Training - Industrial Drawing Practice
- Field Instrumentations using Material Testing
- Design of Heat Exchangers- Heat Load Calculation for Thermal Utilities



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For more details about course catalog and syllabi visit...



# Civil Engineering

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Civil Engineers build the world's infrastructure, which encompasses Railways, Highways, Bridges, Waterworks, Skyscrapers, Canals, Wharves, Industrial Buildings, Rapid Transit Systems, Power Plants etc. They deal with the design, construction, maintenance, and repair of structures. There are galore opportunities for civil engineers, with new players entering the market and more large-scale developments announced around the globe. Civil Engineers play a very important role in improving the living standards of a society in the form of Structural Engineers, Transportation Engineers, Water Resources, and Environmental Engineers, Hydrologists, Geologists and Geotechnical Experts.

## Construction site visits

We're one of only a few institutes in the city who offer a program of weekly visits to construction sites to major civil engineering units and construction projects in Hyderabad

## Industry standard facilities

Superb computer facilities and the very latest design and planning software Invoke learning by doing

## Employment

As a graduate in Civil Engineering, students are the architects of the physical world, turning complex blueprints into the reality of our modern landscapes. Students are well-equipped to undertake hands-on engineering challenges and assume initial project oversight, particularly in the structural design, sustainable urban planning, and large-scale development of resilient infrastructure—all paths within the built environment are open to you!

Established in the year 2008, the department offers B.Tech program in Civil Engineering and M.Tech program in Structural Engineering.

The B.Tech Program in Civil Engineering has been accredited by the National Board of Accreditation (NBA) thrice i.e. in 2016, 2019 and 2025.



Building the future,  
on a foundation of excellence

## WHAT YOU LEARN

**Sustainable infrastructure:** Gain a grounding in the design and production of renewable energy systems.

**Civil construction/structures:** Understand civil engineering from a design, practical and project management perspective.

**Water resources:** Water engineering is an essential component of civil engineering. Learn about fluid dynamics, hydraulic systems, hydrological cycles, water quality, water management and water treatment.

**Transport engineering:** Analyse and design multimodal transport facilities, road and pavement structures.

**Surveying:** Take measurements of the earth's surface and perform calculations to produce maps and drawings for civil engineering design and construction.

**Computer aided design:** Use computers and software to design, improve and assess civil engineering projects.

## CAREER PATHS - THE CHOICE IS YOURS

- Structural Engineer: Structural Engineer, Design Engineer, Structural Consultant
- Geotechnical Engineer: Geotechnical Engineer, Foundation Engineer, Site Engineer
- Transportation Engineer: Traffic Engineer, Highway Engineer, Transport Planner
- Environmental Engineer: Environmental Engineer, Water Resource Engineer, Waste Management Engineer
- Construction Engineer / Manager: Site Engineer, Construction Manager, Project Engineer
- Urban Planner / Smart City Engineer: Urban Planner, Smart City Consultant, Infrastructure Planner
- Water Resources Engineer: irrigation Engineer, Hydrologist, Water Systems Engineer
- BIM Engineer: BIM Engineer, BIM Coordinator, Digital Construction Specialist
- Sustainability / Green Building Engineer: Green building concepts, LEED certification, energy analysis
- Research and Development (R&D) Engineer: Research Engineer, Innovation Engineer, Material Scientist



### Find out more:

For more details about course catalog and syllabi visit...



# Master of Business Administration

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Master of Business Administration is a post graduate degree that provides theoretical and practical training for business or investment management. It is integrated with the holistic view of business across areas like marketing, finance, and accounting, all while developing those vital soft skills and leadership skills.

Established in the year 2006, the department offers four five most coveted specializations like Financial Management, Human Resource Management, Marketing Management, Systems Management and Entrepreneurship, with an intake of 60.

A two year MBA program, accredited by National Board of Accreditation (NBA) successively thrice that is in 2019, 2022 and 2025 for best educational practices for management.

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## WHAT YOU LEARN

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- Strategic problem-solving: helps in guiding on how to resolve a business problem or industry challenge.
- Team Building: Teamwork with people from diverse backgrounds
- Networking: exchanges of information and ideas among people with a common profession or special interest, in an Professional setting.
- Business and management skills: oversees the operations of many different departments in a company



### Find out more:

For more details about course catalog and syllabi visit...



# Sciences and Humanities

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Sciences and Humanities department provides the launching pad for the academic affluence and fundamental skill development of Engineering students. The department lays a strong foundation in Mathematics, Chemistry, Physics, and English

## Mathematics

Engineering mathematics is the art of applying maths to complex real-world problems, combining theoretical, practical engineering and scientific computing.

Engineering Mathematics graduates are superbly employable in transforming student analytical and problem solving skills.

## Chemistry

Engineering Chemistry is an imperative part of every degree program structured in a manner that its different theoretical concepts are studied along with their practical applications. This specialized branch of Engineering mainly deals with the study of matter in any form along with its chemical and physical properties, composition and applications.

## Physics

Engineering Physics clubs together with the fields of Engineering as well as applied sciences in gaining collective knowledge of the new concepts. Engineering Physics course allows students to pursue a wide range of topics while providing several different options for a career.

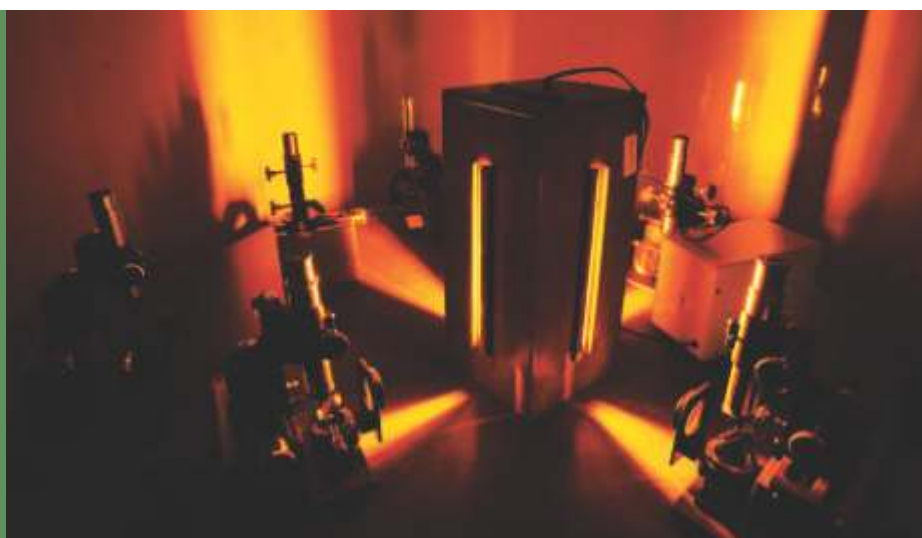
## English

Engineering English acts as a tool for global communication and also important for training students to attain communicatively competence. B.Tech Engineering English Syllabus for both semesters is designed to improve the linguistic and communicative competence of the students of Engineering.



### Find out more:

For more details about course catalog and syllabi visit...



# Student Council and Clubs

Student Council is the governing body for student organizations and cultural activities, integrating students in event planning, logistics, and accounting

- Allows to gain hands on experience with end to end administration,
- Dynamic problem solving, and typical issue analysis
- Team work while having fun with friends at college
- Bagging memories of lifetime.

Extra-curricular activities allow students to explore new areas of interest. IARE is successfully balancing the time commitments involved in participating in clubs along with maintaining good grades in academics.



## Cultural Clubs:

- Plugs Dance Club
- Fine Arts Club
- The Rhapsody
- Fit Fusion
- ASMI
- Chitrakala
- ReelHaus
- Bakasura
- Versailles
- The Compendium
- Citadel
- N2O Comedy Club
- Pixels

## Community Service Clubs:

- Club of National Service Scheme [NSS]
- Club of Street Cause
- Club of Well wishers
- Club of Women Empowerment

## Technical Clubs

- Google Developers Groups
- e-DAM
- E-Cell
- ACM IARE
- GenBot

## Community Service Clubs

- NSS
- Street Cause
- Electoral Literacy Club

## Sports Clubs:

- Football
- Cricket
- Volleyball
- Badminton
- Throwball & Basketball
- Kabaddi
- Chess & Carroms
- Table Tennis

## Objectives

- Initiates regular conversations, and events regarding all cultural aspects.
- Nurtures the talent, celebrate the diversity and give expressions to the creativity of young minds.
- Encourages the students to participate in various inter and intra college dance competitions.
- Identifies budding artists and provide a foundation by recognizing and promoting their talent.
- Encourages development of the creative, intuitive, and intellectual capabilities of students in music.
- Offers a chance for students to contribute to the society, learning to have a positive attitude towards the life.
- Provides opportunities for all students in the college to learn more about the values and knowledge based on the social work and its commitment to alleviate oppression in all of its forms.

# Sports and Recreation

The institute maintains a full fledged sports activity centre throughout the year and provides facilities for outdoor and indoor games. The institute has a well maintained separate unoccupied open area of 14 acres for the playfields. The infrastructure has been designed with good facilities for sports as well as recreational activities.

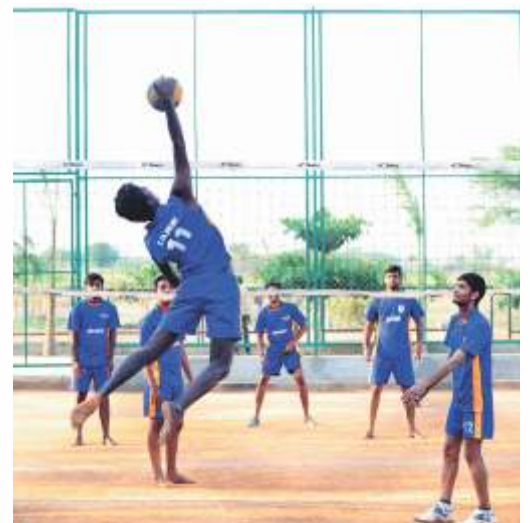
The students have been regularly representing the college in State / National level Inter-Collegiate Sports Meet in almost 25 events – Athletics, Badminton, Basketball, Billiards, Carroms, Chess, Cricket, Football, Kabaddi, Lawn Tennis, Snookers, Table Tennis, Volley ball, and Throw ball conducted every year.

## Additionally, Indoor Gym facility in shipping container

- Excellent coaching facilities allow them to hone their skills and IARE teams have won acclaim for their performance in the sports field.
- CIYARAAH an Inter-Collegiate sports week is a regular feature evoking tremendous response from the engineering colleges under the JNT University.

## National Service Scheme (NSS)

The college actively pursues the National Service Scheme (NSS) having 250 volunteers every year and conducts the National Foundation for Communal Harmony, Mega Blood Donation Camp, Harithaharam, 2K Run-Rally for Rivers, 5K Run- India Against Corruption, 2K Run-Against Child Labour, Cancer Awareness Programme.



# Accommodation

IARE has a home away from home with the best amenities provided to students to experience a comfortable lifestyle within the vicinity of 1 km of the campus. The institute provides separate hostels for boys and girls.

- Spacious well-ventilated rooms accommodating two persons in each room
- Separate hostels for boys and girls
- Ragging-free environment
- 24X7 Wi-Fi facility
- Round-the-clock security
- RO purified water facility
- Well-furnished dining room with a seating capacity of 350 students
- Health care and regular visits by registered physicians
- Healthy and hygienic food
- Doctor on campus
- Free transportation to and from the institute



# Fests and Events



- ★ **CONCOCT**  
National product expo
- ★ **CONSORTIUM**  
Inter college technical fest
- ★ **METE**  
Project expo
- ★ **CIYARAAH**  
Inter college sports meet
- ★ **EVOKE**  
An alumni meet
- ★ **GRADUATION DAY**  
Students completing degree requirements
- ★ **ORIENTATION DAY**  
First B. Tech induction programme
- ★ **SAMSKRUTHI**  
A traditional day
- ★ **SPANDANA**  
Annual Day
- ★ **THE CONFETTI NIGHT**  
Musical Concert



# Cafeteria

Spacious canteen inside the campus with a capacity of 400 persons at a time with dining hall and kitchen offering delicious and nutritious food prepared in a hygienic environment to all the students and the faculty.



# Transport

Fleet of 31 luxury buses, provides transport facilities to the students and faculty ensuring hassle-free and safe transportation from all parts of Hyderabad and Secunderabad.



# Who to Contact

Students require continuous support for one's academic, physical as well as mental growth and well-being. Keeping this in mind, the institute offices function in a student-friendly manner and remain accessible and helpful. You can directly contact the right department or office for all your queries, shown opposite are their functions for you to find the right contact.

## **Dean of Internal Quality Assurance Centre (IQAC)**

Supervises internal mechanism for planning, guiding and monitoring quality enhancement activities.

## **Dean of Strategy Development and Finance**

Responsible for navigating the complex intersection of institutional reputation and financial sustainability, ensuring the college remains both highly ranked and fiscally sound.

## **Dean of Academics**

Handles matters pertaining to academic regulations, programs of studies and academic calendar.

## **Dean of Planning, Monitoring & Continuing Education**

Deals with various processes of education to enhance continuous qualitative improvement periodically.

## **Dean of Student Admissions and Support Services**

Oversees student led activities including admissions, effective attendance management, scholarships, discipline and anti-ragging.

## **Dean Professionals Training and Internship (PTI)**

Dedicated to bridging the gap between theory and practice, he facilitates the transition of students into industry-ready professionals. By providing high-impact exposure through SIP and SRI projects

## **Dean of Career Development**

Helps the students in placement and job opportunities guiding them in preparing resumes and learning interview techniques.

## **Dean of Competency Building and Consultancy**

Provide direction and support to enhance skills of students and staff to build succession plan and meet industry needs.

## **Dean of Career Counseling and Guidance**

Staffed with professionals, provides personalized counseling services to the students.

## **Dean of Placement & Training**

A strategic connector who transforms students into high-impact professionals through rigorous training and global industry networking.

## **Dean of Student Learning and Assessment Models (SLAM)**

Designs and implements project-based learning frameworks aligned with sustainable development goals. Oversees student project evaluation and continuous improvement in experiential learning.

## **Controller of Examinations (CoE)**

Implements examination policies, maintains confidentiality, and ensures compliance with regulations. Ensures accurate and timely declaration of results and maintains academic records.

## **Dean of Technology Innovation and Incubation Centre (TIIC)**

Fosters commercialization of Science and Technology in the Institute creating an effective Interface with the Industry.

## **Dean of Science and Technology Startup Park (STSP)**

Oversees new start-up and financial counseling support. (Seed Support, Innovation, Refinement & Commercialization Grant).

## **Dean of Industry Connect and Knowledge Transfer (ICKT)**

Channels between the industry and the Institute by providing quality technical Education.

## **Dean of Research and Development (R&D)**

Focused on elevating institutional research profiles. Expert in aligning academic goals with industry needs to foster a robust ecosystem for patenting, and international scholarly impact.

## **Dean of Academic Research & Advocacy**

Serves as the primary catalyst for faculty development, ensuring that the transition from teaching to high-impact research is seamless and supported.

## **Dean of Outcome Based Teaching and Learning**

Develops the meaningful assessment for student learning through outcome based education.

## **Dean of Content Development and Publishing**

Oversees the creation and dissemination of content, ensuring its quality, relevance, and alignment with the institution's goals.

## **Dean of Outreach, Inclusivity and Extension Activity**

Collaborates with other organizations to carry out extended social service and outreach programs.

## **Dean of Student council and clubs**

Coordinates events, ensures smooth functioning of clubs, support student initiatives and promotes student engagement, leadership, and extracurricular development

## **Dean of Alumni**

Organizes alumni events, networking opportunities, and fundraising activities. Develops strategies to enhance the institution's brand, visibility, and reputation.

## **Dean of Information and Communications Technology (ICT)**

Broadens the ICT services by providing access to action the E-Learning Readiness Videos.

## **Dean of Policies, Development and Internal Audit**

Deals with the maintenance of internal academic and administrative audit.

## **Dean of International Student Affairs**

Oversees student's exposure internationally by promoting the international student exchange standards.

## **Dean of e-Governance**

Digitalizes every unit of academic record providing real time information processing and knowledge management.

# How to Reach Us

IARE enjoys geographical advantage as it is well connected by air, rail, and road transportation. The institute is situated at Dundigal, adjacent to Nehru Outer Ring Road (ORR) off Medak - Narsapur junction (exit - 5), making it accessible to several important centers in and around the city.

The institute is 20 kms away from Secunderabad Railway Station, 11 km from JNT University, Kukatpally, Hyderabad and is just a 40-minute drive from Rajiv Gandhi International Airport at Shamshabad.

## How to get to Institute of Aeronautical Engineering by Bus

Well connected by various bus-routes from all over the Hyderabad / Secunderabad. The details are as under:

- Bus No '230D' - It takes 60 min from Chilakalaguda / Secunderabad Bus Station. TSRTC runs a total of 26 daily trips from Chilakalaguda towards Air Force Academy route.
- Bus No '230X' - It takes 80 min from Central Bus Station (CBS). TSRTC runs a total of 5 daily trips from CBS towards Dundigal route.
- Bus No '83J/230' - It takes 120 min from Kachiguda Bus Station. TSRTC runs a total of 6 daily trips from Kachiguda Bus Station towards Dundigal route.

## Directions

Reach Balanagar X Roads -  
Take the road towards Medak/Narsapur  
Travel 14 Kms to reach  
GandiMaisamma X Roads

Head 03 KMS towards  
Dundigal to reach the institute.



80 MIN

From  
Central Bus  
Station



120 MIN

From  
Kachiguda  
Bus Station



60 MIN

From  
Secunderabad  
Bus Station



## Contact us

### Dr. L V Narasimha Prasad

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### Dr. B D Y Sunil

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# Campus Map



# EXPLORE EXPERIENCE EXCEL

 Find out more:  
[www.iare.ac.in](http://www.iare.ac.in)

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(Autonomous)**

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 91546 78976, 91543 79621, 91543 79622

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Campus Flying  
Point of View  
(FPV) Video



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