Welcome to Institute of aeronautical engineering

Institute of Aeronautical Engineering, Hyderabad also known as IARE is an Autonomous Institution established by a devoted group of eminent professionals and industrialists having a long and outstanding experience in science, engineering and technology with a mission 'Education for Liberation'.

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, the institute started with a B.Tech program in Aeronautical Engineering in the year 2000 and has grown to offer programs in diverse disciplines from bachelors to doctoral degree.

Currently, IARE comprises 10 academic departments with 07 Bachelor of Technology (B.Tech) degree programs, 07 Master degree (M.Tech / MBA) programs, and 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 skilful engineers who are well received by industry and academia. Building on a strong foundation, the sustainability and high quality of the programs have been assured. With the full support from our staff, we aim to be one of the leaders in the field of Engineering.
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Vision

To bring forth professionally competent and socially sensitive engineers, capable of working across cultures while 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

<table>
<thead>
<tr>
<th>Name</th>
<th>Institute of Aeronautical Engineering (IARE)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Estd. Year</td>
<td>2000</td>
</tr>
<tr>
<td>Managed by</td>
<td>Maruthi Educational Society, Hyderabad</td>
</tr>
<tr>
<td>Approved by</td>
<td>All India Council for Technical Education, New Delhi</td>
</tr>
<tr>
<td>NIRF India Ranking</td>
<td>139th Best Engineering Institution in India, as per Ministry of HRD, Govt. of India</td>
</tr>
<tr>
<td>Accreditation</td>
<td>NBA accreditation for all seven B.Tech programs (validity till 30 June, 2022)</td>
</tr>
<tr>
<td></td>
<td>NAAC accreditation with ‘A’ Grade (validity till 31 December, 2021)</td>
</tr>
<tr>
<td>Autonomy</td>
<td>Autonomous status from University Grants Commission (UGC), New Delhi</td>
</tr>
<tr>
<td>Affiliated to</td>
<td>Jawaharlal Nehru Technological University Hyderabad</td>
</tr>
<tr>
<td>Campus</td>
<td>Dundigal, Hyderabad – 500043, Telangana</td>
</tr>
<tr>
<td>Distance</td>
<td>Secunderabad - 20 km; JNTUH, Kukatpally - 12 km</td>
</tr>
<tr>
<td>Phone</td>
<td>040 - 29705852, 53, 54</td>
</tr>
<tr>
<td>Mobile</td>
<td>8886234501, 8886234502</td>
</tr>
<tr>
<td>Email / Web</td>
<td><a href="mailto:info@iare.ac.in">info@iare.ac.in</a> / <a href="http://www.iare.ac.in">www.iare.ac.in</a></td>
</tr>
</tbody>
</table>

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To bring forth professionally competent and socially sensitive engineers, capable of working across cultures while meeting the global standards ethically.
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**
   Learn from world leaders and groundbreaking experts
   IARE is ranked in the top 4% of engineering institutes in the country and has an invincible reputation for high quality education, research, active teaching, staff, and facilities.

2. **Pedagogy**
   The curriculum prepares you for today’s world
   We work with our community, business partners, and industry leaders to develop course content that meets the future needs of employers.

3. **Research**
   Learn from world researchers-go beyond and do differently
   We see 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**
   Go beyond the classroom and make your ideas take a concrete shape
   Got a good idea for a Start-Up venture? We have the resources to help you realise your dream.
   Want to make a difference and help others? We offer entrepreneurial advise and opportunities for you to achieve this.

5. **Community**
   You can make a difference by getting involved
   Over the last few years, IARE students have earned national reputation for their community involvement and social service.

6. **Active traits**
   With technical clubs and events, you can have a unique student experience and can become expert by getting involved
   A dedicated centre 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
   IARE is committed to help and support you with a wide range of services such as, computerised intellect campus management system, 24 / 7 high speed Wi-Fi environment to manage your jobs easily.
Management

Sri Marri Rajasekhar Reddy
Chairman

Sri Marri Rajasekhar Reddy envisioned a technological revolution and committed himself to establish an institution, to foster technical and higher education. Since his young age, he has shown great flair in managing and nurturing educational institutions. For him, quality is the way of life. 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

A post graduate in Mechanical Engineering from Osmania University, Sri Sathi Reddy is a visionary and industrialist. Established in 1984, MTE industries under his leadership has risen, flourished, and gained international recognition for manufacturing and exporting CNC machines. 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

With the fast-paced ever-growing markets having global outlook, the demand for well-trained multi-skilled engineers and entrepreneurs has risen. The competition in the industry has increased and so have the standards that define engineering. Institute of Aeronautical Engineering has always strived to excel in both technical and managerial arenas. Over the past 19 years, our strong alumni placed in prominent companies have done us proud. The placements over the years have increased with many eminent companies visiting our campus. We make sure that students do not believe only in gaining text bookish knowledge but go beyond and master life skills. In a short span, we have successfully made a mark in the corporate world. Our students have always set high benchmarks, competing with students all around the globe.

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 instil and nurture leadership qualities in our students.

Wish you a happy learning!

Dr. L V Narasimha Prasad
PRINCIPAL
Quality does not depend on high tuition fee. It banks on academic excellence, dedicated faculty and passionate student community. We are proud to say that at IARE International Quality Education is offered at an affordable fee.

**Experience more at IARE!!!**

It is a matter of great pride that the institute is ranked one among the 200 best engineering colleges in the country by the National Institutional Ranking Framework (NIRF) - 2019, Ministry of Human Resources Development, Govt. of India.

IARE is ranked **139** in Engineering category as per National Institutional Ranking Framework (NIRF) – 2019. Ministry of Human Resource Development (MHRD), Govt. of India.

From rank band 151-200 in 2017, IARE rose to the rank of 139th Best Engineering Institution in India. This illustrates positive performance and quality standards we maintain in teaching, research, employability, and innovation.

IARE’s ratings as given by the most read and widely acclaimed magazines:

- **Careers360 (AAA+)**
- **India Today (38)**
- **The Week (89)**
- **Times of India (15)**
- **Competition Success Review (27)**
- **BW Business World (51-65)**
- **Data Quest (45)**
- **Career Connect (4/5)**
Why IARE

→ Ranked 139 among the best 200 engineering colleges in India by NIRF - 2019, Ministry of Human Resources Development, Govt. of India.

→ Maintaining quality in Teaching, Research, Employability, and Innovation.

→ Collaboration with 30+ countries for International Student / Faculty Exchange Program

→ Effective Mentoring and Student Counselling

→ Science and Technology Start-Up Park and Business Incubator

→ Air-conditioned Lecture Halls, Laboratories, and Flipped Class Rooms with ICT Facility

→ More than 62 Companies Visiting for Campus Recruitment

→ 85% Placements Every Year (7.5 lakhs, highest salary | 3.5 lakhs, average salary)

→ Funding for Innovative Student Projects

→ Excellent Student Support Services

→ Extensive Placement Training on Aptitude, Programming and Soft Skills from Second Year B.Tech Onwards

→ Eight Centers of Excellence with Cutting Edge Technology Instruments

→ Ultra-Modern Hostel Accommodation

→ Continuous Support for Participations in National / International Competitions / Hackathons
Why study at IARE

Leadership in one of India’s fastest growing regions
Hyderabad is India’s one of the largest and fastest growing economy. In this culturally diverse hub of international education, technology, business, industry and innovation, IARE global links are creating unlimited opportunities.

Our students sit at the heart of everything we do
Our student-centred 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 that you need for a successful career in future.

Research has global impact
We see 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.

Reputation for excellence
Ranked among the top 4% of engineering institutes as per the National Institutional Ranking Framework (NIRF) - 2019, Ministry of Human Resource Development (MHRD), Govt. of India., with a growing international reputation for research-led, student-centred learning.

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

Embrace technology enriched learning
From our 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, we adopt new and emerging technologies to provide richer educational experience.

Advanced opportunity and unlimited success
From advanced training on technologies to internationally recognised industry or business certifications, internships, and student exchange opportunities, we provide multiple pathways for academic and professional success.

Globally focused and connected
With our growing reach and reputation, we offer the opportunity to travel, learn, and work in different places through our global internship, work-placement programs and participation in international competitions/conferences/events.

Achievement of outstanding awards
IARE is one of the top private engineering colleges in India which completely focuses on innovative and visionary aspects of each student. We welcome our 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.

Curriculum prepares you for today’s world
We work with our 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.

International collaboration
Our collaborations, with top institutions in USA, 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 favoured destination.
Admission procedure

Undergraduate Programs

Category 'A'
Admissions under Category 'A' (70%) are made by the Telangana State Council of Higher Education through a common entrance test TS EAMCET.

Category 'B'
Admissions under Category 'B' (Management / NRI - 30%) are done based on merit as per the guidelines of TSCHE, Hyderabad.

Lateral Entry into II Year B.Tech
In addition to the above, 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 Engineering Common Entrance Test (ECET), under lateral entry scheme conducted by Govt. of Telangana.

Post-Graduate Programs

Admissions to the Post-Graduate programs are made through both the windows, Category ‘A’ and Category ‘B’. Category ‘A’ admissions (70% of the seats) are made for M.Tech programs based on a valid GATE score / Rank obtained in TS PGECET common entrance test conducted by the Government of Telangana. Category ‘B’ admissions (30% of seats) are done on the basis of merit as per the guidelines of TSCHE, Hyderabad.

In case of MBA, 70% of the seats are filled by ICET Convener and 30% of the seats are filled based on merit as per the guidelines of TSCHE, Hyderabad.
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Courses offered

<table>
<thead>
<tr>
<th>B.Tech Programs</th>
<th>Intake</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aeronautical Engineering</td>
<td>120</td>
</tr>
<tr>
<td>Computer Science and Engineering</td>
<td>240</td>
</tr>
<tr>
<td>Information Technology</td>
<td>120</td>
</tr>
<tr>
<td>Electronics and Communication Engineering</td>
<td>240</td>
</tr>
<tr>
<td>Electrical and Electronics Engineering</td>
<td>120</td>
</tr>
<tr>
<td>Mechanical Engineering</td>
<td>120</td>
</tr>
<tr>
<td>Civil Engineering</td>
<td>120</td>
</tr>
</tbody>
</table>

Fee per year - Rs. 67,000

<table>
<thead>
<tr>
<th>M.Tech Programs</th>
<th>Intake</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aerospace Engineering</td>
<td>18</td>
</tr>
<tr>
<td>Computer Science and Engineering</td>
<td>18</td>
</tr>
<tr>
<td>Embedded Systems</td>
<td>18</td>
</tr>
<tr>
<td>Electrical Power Systems</td>
<td>18</td>
</tr>
<tr>
<td>CAD / CAM</td>
<td>18</td>
</tr>
<tr>
<td>Structural Engineering</td>
<td>18</td>
</tr>
</tbody>
</table>

Fee per year - Rs. 57,000

<table>
<thead>
<tr>
<th>Master of Business Administration</th>
<th>Intake</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fee per year - Rs. 30,000</td>
<td>60</td>
</tr>
</tbody>
</table>

Fee per year - Rs. 30,000
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 from the nimble-footed initiatives.

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.

It accommodates the needs of the entire student community including both slow and fast learners. They serve 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 interdisciplinary courses
- Freedom to choose minor / honours courses for specialization
- Special care for slow learners by offering important / common courses in all semesters
- Optional summer semester
- 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 and/or two summer terms in any academic institution of repute in India or abroad
- Abundant options to choose credit-based courses from self-learning MOOCs

ADDITIONAL LEARNING

- Provision of Honours and Minors available to students as add on to the base level B.Tech degree.
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All seven B.Tech programmes are accredited by the National Board of Accreditation (NBA), New Delhi, since 2008. The accreditation status granted is valid till 30 June, 2022.

**NBA Accredited Programmes:**

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

Students studying in an NBA accredited institution can be assured that they will receive education which is a balance between high academic quality and professional relevance, and that the needs of the corporate world are well integrated into programmes, activities, and processes.

Accredited by National Assessment and Accreditation Council (NAAC) for a period of 5 years with grade ‘A’. The accreditation status granted is valid till 31 December, 2021.
The IARE quality policy

Our policy is to nurture and build, diligent and dedicated community of engineers providing a professional and unprejudiced environment, thus justifying the purpose of teaching and satisfying the stake holders.

A team of well-qualified and experienced professionals ensures quality education with its practical application in all areas of the Institute.

Students

We are proud of our vibrant student community that continually innovates and excels in all spheres from academics to arts and sports. Together, the students make up a marvellous pool of diverse interests and talent that thrives on the rich cultural, recreational, and social opportunities on our campus. Our students are encouraged and fully financed for participating in various national and international competitions. The students who participate in these competitions spend hours working tirelessly on designing their models. Their dedication shines through the results. Recognition and rewards for excellence encourage healthy competition and motivate students to go that extra mile.

The IARE educational experience not just develops students’ intellect but also shapes their character. While our student community is enriched by its diversity, there are certain values we seek to inculcate in everyone who studies here. All IARE graduates are distinguished by a fierce commitment to their goals, integrity, and concern for the environment as well as for the society they live in.

Faculty

Our faculty is our most precious resource and one of the main pillars on which the institute rests (the other two are students and infrastructure). Our faculty members develop and deliver the educational programs that bring excellent students to the institute. Teachers at our institute have impeccable qualifications, extensive expertise and experience in their chosen fields, and an overriding commitment to the welfare of the students.

The institute’s culture of continuous improvement impacts teachers as much as it does students. Our teachers are constantly given opportunities and platforms to update their skills and to stay in touch with new developments. The core faculty is enhanced by visiting experts from both academic and corporate field. In fact, time and again, our faculty members have proven their ability to adapt and stay on the top of today’s rapidly changing technologies.

Faculty involvement here goes far beyond academics and influences every aspect of campus life. In addition to their teaching duties, faculty members guide and mentor students while participating with enthusiasm in other areas, such as, research and sports/cultural pursuits. We have found that the majority of our students stay in touch with their teachers – calling for advice or to share their success stories from all over the globe.
We believe that to be leaders in the real world, students must develop the intellectual breadth and creativity to tackle the challenges of increasing complexity, globalization, and rapid change. The Total Student Development Program (TSDP) focuses on every aspect of a student’s personality, helping him/her to develop interpersonal, technical, and business skills.

**Interpersonal Skill Development**

Creativity, lateral thinking, and communication / people management skills are essential components for progress in any sphere. Students are encouraged to develop these through goal setting exercises, group discussions, mock interviews, and presentations.

**Technical Skill Development**

All students are given a conceptual grounding in core skills and application orientation through real-time projects to ensure their skills are concurrent with market needs.

**How you are taught:** Lectures, practical laboratory sessions and project work are supplemented by problem solving workshops and tutorials. In a week, you can expect about 18-20 hours of lectures, five hours of problem-based workshops, nine hours of hands-on laboratory sessions, and three hours of in a small group tutorial. Additionally, you will undertake independent work towards Alternative Assessment Tool (AAT) and complete the necessary reading in preparation for writing reports and laboratory experiments.

**Business / Skill Development**

All students are taught essential business skills through industry interaction as well as innovative channels, such as, marketing and finance clubs. We believe that this training will stand them in good stead when they make the transition from employee to employer.

We are always looking for people who can learn new skills faster than our competitors. Students of IARE not only have a very strong technical and theoretical background, but also have problem solving skills that they acquire from their experience on actual projects.
The in-house quality improvement program (IHQIP) aims at optimizing teaching and learning methods in the teaching-learning process. It works on three distinct fronts.

Sets up systems for accountability and continuous improvement in the classroom

Creates an environment where each student is constantly motivated to excel and reach new heights

Provides proactive career management facilities that help students find internships and campus placement jobs
Classroom Management

Course Information
All published course materials and question banks are made available to the students before the semester begins. This ensures that they are well-aware of the course coverage and requirements in advance. We have found that this helps them to plan their activities and study schedules better, and maximizes their benefits from the curriculum.

Progress Monitor
We periodically provide detailed student progress reports that help students and their families monitor their ward’s academic performance throughout the year. These reports can also be accessed online on our Intellect CMS login website by parents / guardians sitting anywhere across the world. Students with learning difficulties are supported by Student Academic Support Program (SASP).

Teacher Evaluation
We believe that teachers must be evaluated by the students they teach. This ensures that there is no discrepancy between content delivery and the students’ needs. The teachers are evaluated twice in a semester on a wide range of parameters that cover everything from their expertise in subjects to their contribution to the institute.

Performance Incentives

Rank Awards
Students, who are ranked first in their respective classes, are felicitated and awarded on annual day function. The award comprises a citation, a gold medal, and a cash prize. This encourages competitive spirit and rewards those students who constantly strive to do better.

Student Assistantships
Exceptional students get opportunity to work closely with their teachers by assisting them in their research and coaching the students who need extra help. Such experience always helps students to perform better.

Distinction Awards
Students, who get distinctions (CGPA more than 9) in any year, are given a cash award and an appreciation certificate. This small but significant recognition goes a long way towards boosting a student’s morale.
The research activity on campus is woven, in pursuance of its vision & mission statements around the philosophy of inspire, innovate and implement to benefit the contemporary society. It unwinds itself into different fields, such as, environment, 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, cloud computing, wireless technology, image processing, and next generation networks.

<table>
<thead>
<tr>
<th>Number of Research Projects</th>
<th>Research Grants in Rupees</th>
<th>Junior Research Fellowships (JRFs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>553.5 Lakhs</td>
<td>20</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Faculty Publications in Journals</th>
<th>Faculty Publications in Conferences</th>
<th>Student Paper Publications</th>
</tr>
</thead>
<tbody>
<tr>
<td>2700+</td>
<td>1380+</td>
<td>1700+</td>
</tr>
</tbody>
</table>
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### Research Facilities
A facility is provided for both students and research associates to implement research-based projects under the guidance of faculty. It can be utilized by B.Tech and M.Tech students extensively for their project and research work.

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

- **Centre for alternative energy sources** (Solar | thermo electric | materials - STEM)
- **Centre for automation and robotics** (CAR)
- **Aerospace research and development centre** (ARDC)
- **Centre for prototyping and manufacturung** (CPRM)
- **Soil testing and material testing centre** (STMT)
- **Printed circuit board design center** (PCDC)
- **Bioinspired robotics and design lab** (BRDL)
Makerspace

This 10,000 sq.ft. exciting Makerspace is furnished with equipment ranging from small 3D printers to large industrial machining centers, such as, precision measurement and laser cutting machines, Computer Numerical Control (CNC) machining, industry-standard lathes, milling machines and metal sheet cutters, rapid prototyping technology – multi-material 3D printers, laser cutters and vacuum casting systems.

Key features of the space include:

- Product Design and Prototyping
- Industry Standard Computer Aided Design (CAD) and Machining (CAM) Software
- CNC Machining
- Additive Manufacturing (3D Printing)
- Metalwork and Welding
- Electronics Design, Assembly, and Manufacturing
- Industrial Metrology (Measurement and Verification)
Students and researchers are supported by extensive technical workshops and laboratories. They also have access to a wide range of industry-standard software.

### SPECIALIZED LABORATORIES
- LOW SPEED SUBSONIC WIND TUNNEL
- MICRO GAS TURBINE
- PUCKLING OF STRUCTS
- COMPUTERISED UNIVERSAL TESTING MACHINE
- 3D PRINTING MACHINE
- 6 AXIS ROBOTIC ARM
- PLANING AND MILLING MACHINE
- ROLLS ROYCE ENGINE
- CESSNA 172 FLIGHT SIMULATOR
- IOT AND APPLICATIONS
- CLOUD COMPUTING (AMAZON AND ANEKA)
- NI INSTRUMENTATION
- PCB DESIGN AND FABRICATION
- HIGH VOLTAGE ENGINEERING
- BIO INSPIRED ROBOTICS
- PRODUCT LIFE CYCLE MANAGEMENT (PLM)
- DIGITAL SYSTEM DESIGN
- DELTA – PLC
- ARM
- CADENCE VLSI DESIGN
- CNC MACHINE CENTER

### SOFTWARE PACKAGES
- HYPER MESH
- UNIGRAPhICS
- XILINKS
- KEIL
- PSCAD
- SOLID WORKS
- SALESFORCE
- CADENCE
- COMPUTER ASSISTED LANGUAGE
- SOFTWARE DEFINED RADIO
- CLEMENTINE
- ANSYS
- STAAD PRO
- ECLIPSE
- NASTRAN
- ADAMS
- NI LABVIEW
- PROTEUS
- IBM WATSON ANALYTICS
- RATIONAL ROSE
- RATIONAL FUNCTIONAL TESTER
- CATIA
- MATLAB
- SAP
- NETBEANS 7.X WITH JAVA 7
- ORACLE
- INFORMATICA
- AMAZON AND ANEKA CLOUD
- PYTHON
- NODEJS, ANGULAR JS
- AUTODESK - REVIT
- HIPER WORKS
- AUTODESK SUITE
- MULTISIM
- R / R STUDIO
- TABULAE

### Design and manufacturing workshops

Traditional soft modelling and prototyping facilities, the latest Computer Numerical Control (CNC) machining technology, industry-standard lathes, milling machines and metal sheet cutters. Rapid prototyping technology – multi-material 3D printers, laser cutters and vacuum casting systems.
Partnerships
(National / International)

Academic MoU’s

- Nanyang Technological University
  Singapore
- The University of Alabama
  Tuscaloosa, USA
- King Mongkut’s Institute of Technology
  Bangkok, Thailand.
- Southern University and A&M College
  Louisiana, U.S.A.
- Nakhon Pathom Rajabhat University
  Bangkok, Thailand.
- University of Malaya
  Kuala Lumpur, Malaysia
- Institut Teknologi Bandung
  Indonesia
- Vietnam National University
  Ho Chi Minh City, Vietnam.
- Military College of Electronics and Mechanical Engineering
  Secunderabad, India

Understandings 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
Partnership with ministry of micro, small & medium enterprises - MSME

SKILL DEVELOPMENT PROGRAM

MoU with MSME – Tool Room CITD (Central Institute of Tool Design)
- Full-time access to the laboratories and library at CITD
- Fee concession in certification courses and in-plant training
- Placement assistance
- Co-author publications

MOU with NSIC (National Small Industries Corporation)
- Industry centric, demand oriented training for skill / entrepreneurship development at NSIC
- Tailor-made training programmes
- Facilitation of successful trainees for placements

IARE - Technology Business Incubator (TBI)
(Supported by Ministry of Micro, Small & Medium Enterprises)

The ‘Support for Entrepreneurial and Managerial Development of SMEs through Incubators’ program is a component of ASPIRE – A Scheme for Promotion of Innovation, Rural Industry and Entrepreneurship – launched by the Ministry of Micro, Small & Medium Enterprises (MSME), Government of India.

Objective of the program is to promote emerging technological and knowledge based innovative ventures that seek the nurturing of ideas from professionals beyond the traditional activities of Micro, Small & Medium Enterprises (MSMEs). It aims at nurturing innovative business ideas (new and/or ingenious technology, processes, products, procedures, etc.) which could be commercialized in a year.

IARE TBI is one of the approved Technology Business Incubators (TBI), through which you can apply for this scheme. Note that applications for this scheme can only be submitted through MSME approved Business Incubators.

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

“A dedicated body 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 able guidance of industry experts and faculty members. Having express 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 centre provides physical infrastructure and support system necessary for business incubation activities to network them with seed funders, angel investors, and venture capitalists.

38 business ideas supported in 2016-17

Over 400 students engaged in enterprise activities

14 start-ups last year
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 students' projects on this platform to make the project nationwide
→ To inculcate socially responsive behaviour in student aspirants interested in launching Start-Ups
→ To train students of rural backdrop 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 instil business acumen in students who seek to become entrepreneurs after under graduation. Our student entrepreneurship support service is a vibrant platform where our 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 start-ups. The cell regularly organises enterprise internships, seminars and workshops by business experts drawing them from diverse business fields.

The Entrepreneurial Cell offers assistance in:

- Developing business plans
- 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 research / survey, market and trend analyses, industry analysis, assessing economic viability, product/idea design, overcoming developmental impediments and other related activities
- Providing capital investment

Partnership with National Research Development Council - NRDC

A Memorandum of Agreement (MoA) has been signed between National Research Development Corporation (NRDC), an Enterprise of Department of Scientific & Industrial Research, Ministry of Science & Technology, Govt. of India. IARE and NRDC shall work in partnership for knowledge transfer and commercialization of research and projects done by the students.
Upon completion of undergraduate/postgraduate study it is important that you know what your future career options are. As committed as ever, the PAT center organizes and coordinates campus placement program to fulfil its promise to every job aspirant. Placement and Training (PAT) center leaves no stone unturned in providing placement related training programmes or workshops to hone the skills of students. It is a regular feature at our center to invite resource persons from academia and certified soft skills trainers from the corporate world to prepare students for placement activity.

The PAT center holds an impressive testimony of continuously maintaining an upward curve in terms of the percentage of eligible students placed thereby building a good placement record during its on-campus drive and also for attracting more and more MNCs from across the globe.

Around 62 companies encompassing the core engineering sectors and software industry visit IARE every year. Further, the PAT is successful in clinching industry-oriented projects and internships for undergraduate and postgraduate students in various reputed MNCs. Today IARE alumni can be found enjoying privileged positions in premier companies across the world.
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**Training Programs**

<table>
<thead>
<tr>
<th>II B.Tech I Semester</th>
<th>Fount Foundation and Soft Skills, Python Certification</th>
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<tbody>
<tr>
<td>II B.Tech II Semester</td>
<td>Sthenic Software and Oracle Academy Java SE 8 Certification</td>
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<tr>
<td>III B.Tech I Semester</td>
<td>Aptitude Adaptation and Oracle Academy Database Expert</td>
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<tr>
<td>III B.Tech II Semester</td>
<td>Enrich English and Microsoft .NET, Salesforce Advanced Developer Certification</td>
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<tr>
<td>IV B.Tech I and II Semesters</td>
<td>Inclusive Interaction and Tech Target</td>
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Placement opportunities

62+ Companies

Highest salary package of Rs 7.5 lakh per annum.

Average salary saw rise by 15 percent from the last year to Rs 3.54 lakh per annum.
<table>
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<tr>
<th>Rank</th>
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Participants 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.

- SAE Aero Design East (International) Advanced Class Award
  March 8-10, 2019 | Fort Worth, TX, USA. Nineteen in Design Report, Eighteen in Technical Presentation, Top Ranked Indian Team (Seventeen in Overall).


- SAE SUPRA 2018 | JUNE 15-20, 2018 | Buddh International Circuit, New Delhi, India. Cleared seven levels out of eight levels of challenges.

- SAEI-SS 13th National Student Convention
  March 23-24, 2019 | Bannari Amman Institute of Technology, Sathyamangalam, India

Eleven positions with five first, three second and three third awards.
At IARE, up-to-date software environment with 42 ultra modern computer laboratories that are home to over 1600 computers offers computing facilities to meet academic, project, and research requirements. This is made possible by connecting the servers across the campus through fiber optic backbone.

120 KVA uninterruptible power supply system with 480 KVA diesel green generator sets are exclusively catering to the needs of the computer center. Broadband 600 Mbps internet facility is available through wireless connectivity.

- **WiFi**: 600 Mbps
- **32** Legal Application Development Softwares
- **1600** Computers
  (All new Dell Intel i3 | i5 | i7 processor)
- **5** High End Dell Rack Servers

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  - **SAE INDIA Aero Design Challenge | July 11-13, 2018 | Anna University, Chennai, India.** Regular/Micro Class: First in Design Report, First in Technical Presentation, First in Innovation, Second in Overall.

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    Eleven positions with five first, three second and three third awards.
The campus is spread over 17 acres in a beautiful and serene environment, ideal for learning. The infrastructure available on campus are aesthetically pleasing, calm, and amongst the very best. It is a wholly self-contained campus comprising everything that students on campus would ever cherish.

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.

Infrastructure

Our air-conditioned Sangeet auditorium (860 seating capacity) provides a platform for a wide spectrum of events: from the finest Academic Conferences to our Annual Cultural Festivals, Consortium, Concoct and Spandana.
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**04 GENERATORS**
(480 KVA green generators)

**05 Flipped Class Rooms**
(Clustered seating for problem solving and discussions)

**06 SEMINAR HALLS**
(120 seating capacity)

**Wi-Fi**
600 Mbps

**4 CONFERENCE ROOMS**
(100 seating capacity)

**SOLAR POWER**
160 KVA

**120 KVA POWER BACKUP**
The duplex modelled modern digital library is fully computerized with bar-coding and Wi-Fi facility. Completely automated library management system creates comfort and convenience for the readers to borrow books at any time. In addition to these resources, faculty are given the provision of uploading all their lectures, question banks, lab manuals, and research notes on the institute’s Intellect CMS repository. These are available to the students with the simple keying in of a password.

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<td>JOURNALS</td>
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Library
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Industry institution interaction

Consultancy Services
Industrial consultancy center caters to the needs of students in terms of industrial consultation, and R&D services. Besides, the industry-institute interaction helps students to become aware of emerging technologies and engineering methodologies as this will have a great bearing on the engineering curriculum and subsequent placement of young undergraduates/postgraduates in industries.

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. These include Tata Advanced Systems, Cyient, MAQ Software, Excers, Byjus, Aricent, CITD-MSME, and Aptroid amongst 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.
Strong industry collaboration

IARE has a host of tie-ups with various companies in the industry for training the students, joint research, and other extension activities.
Aeronautical Engineering

B.Tech in Aeronautical Engineering (NBA accredited) | Year of inception: 2000 | Intake: 120
M.Tech in Aerospace Engineering | Year of inception: 2011 | Intake: 18

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

Established in the year 2000, the department offers B.Tech program in Aeronautical Engineering with an intake of 120 and M.Tech in Aerospace Engineering with an intake of 18. The B.Tech Program has been accredited by National Board of Accreditation (NBA) successively four times i.e. in 2008, 2011, 2016, and 2019 (valid till 30 June, 2022).

The department has 23 faculty members including 7 professors with Ph.D. who have vast experience in both industry and academia.

It has well established air-conditioned laboratories with modern equipment to impart knowledge for future industrial and academic needs. The laboratories include, Flight Simulation Lab, Aero Dynamics Lab, Aerospace Propulsion Lab, Aerospace Structures Lab, Computer Aided Manufacturing Lab, Aerospace Composites Lab, Computational Simulation Lab, Aircraft Systems Lab and Flight Vehicle Design Lab. The laboratories offer students to work on a wide range of advanced software packages, such as, MATLAB, Nastran, Adams, Ansys, HyperMesh, Solid Works, Unigraphics and CATIA.

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.

Skill Development Programs

- Aircraft System Design
- CESSNA Aircraft Simulator - Left Seat Inter Cockpit Flying Experience
- Unmanned Air Vehicles (UAV’s) – Design, development and deployment
- Finite Element Analysis - IS Code and Standard Interpretation
- Aircraft production - Industrial drawing practice with CNC
- Experimental Investigations – Low Subsonic Wind Tunnel and Micro Gas Turbine System

INDUSTRIAL CONNECTIONS

Department tied up with organizations like DRDL, NAL, ADA, SHAR, ISRO, and CITD to enrich students knowledge to current needs and also expanded the MOU’s with leading private organizations like Cyient, Safran and Quest Global in aerospace domain.

CAREERS

Our students have obtained placements in prestigious companies, such as, Boeing, Airbus, Pawan Hans, Tata Advanced Systems, ISRO, VSSC, DRDO, HAL, BDL, NAL, ADA, Rolls-Royce, Capgemini, Cyient, Mphasis, Infosys, Tech Mahindra and many more.
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SKILL DEVELOPMENT PROGRAMS

- Aircraft System Design
- CESSNA Aircraft Simulator - Left Seat Inter Cockpit Flying Experience
- Unmanned Air Vehicles (UAV's) – Design, development and deployment
- Finite Element Analysis - IS Code and Standard Interpretation
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Department tied up with organizations like DRDL, NAL, ADA, SHAR, ISRO, and CITD to enrich students knowledge to current needs and also expanded the MOU’s with leading private organizations like Cyient, Safran and Quest Global in aerospace domain.

CAREERS

Our students have obtained placements in prestigious companies, such as, Boeing, Airbus, Pawan Hans, Tata Advanced Systems, ISRO, VSSC, DRDO, HAL, BDL, NAL, ADA, Rolls-Royce, Capgemini, Cyient, Mphasis, Infosys, Tech Mahindra and many more.
Established in the year 2001, the department offers B.Tech Program in Computer Science and Engineering with an intake of 240 and M.Tech in Computer Science and Engineering with an intake of 18. The B.Tech Program in CSE has been accredited by National Board of Accreditation (NBA) successively four times i.e. in 2008, 2011, 2016, and 2019 (valid till 30 June, 2022).

The department has 52 faculty including 10 professors with Ph.D. who have vast experience in both industry and academia.

Computer Science and Engineering department facilitates high-end systems in all focused laboratories, such as Programming for Problem Solving through C Lab, Data structures through Python Lab, Database Management Systems Lab, Object-Oriented Programming Lab, Operating Systems Lab, Compiler Design Lab, Web Technologies Lab, Linux Programming Lab, Software Testing Methodologies Lab, Cloud Application Development Lab, Big data and Business Analytics Lab. The laboratories offer students to work on a wide range of advanced software packages, such as, Oracle, IBM SPSS Clementine, IBM Rational Rose, IBM Rational Functional Tester, IBM Blumix, SAP, MATLAB, J2ME, NodeJS, Angular JS, WordPress, Tableau and Salesforce.

In order to meet the need of the day, the department prepares the students from first semester onwards to gain experience on problem solving and design of algorithms to compete in programming contests.

"Science is about knowing, engineering is about doing.”

The most important aspect of Computer Science and Engineering is problem solving, an essential skill for life. Students study the design, development and analysis of software and hardware used to solve problems in a variety of business, scientific, and social contexts. Because computers solve problems to serve people, there is a significant human side to CSE as well. Our students start with the basics in our popular introductory programming courses - no prior experience required! Then they learn the mathematical foundations of computing; get hands-on experience building software and hardware; and choose advanced courses, such as, human-computer interaction, computer graphics and animation, artificial intelligence, machine learning, robotics, data science, natural language processing, computer networking, computer security and privacy, and much more.

**INDUSTRIAL CONNECTIONS**

Marquee companies such as, Capgemini, Infosys, Tech Mahindra, NTT DATA, Mphasis, Cyient, CDK Global, Atos | Syntel, NCR, Aricent, HCL, and Apps Associates greatly support us in terms of supplying the state-of-the-art training for the students.

**CAREERS**

Our students have obtained placements in prestigious companies, such as, Capgemini, Atos Syntel, Wipro, Cognizant, LG Soft, Infosys, Verizon, Virtusa, CtrlS, Napier, NTT DATA, Mphasis, Value Momentum, Global Edge, Tech Mahindra, Cyient, CDK Global, NCR, Aricent, Tata Consultancy Services, Apps Associates, and many more.

**SKILL DEVELOPMENT PROGRAMS**

- SAP - ABAP Training and Certification
- Salesforce - Developer Training and Certification
- J2ME-Cross Platform Mobile App Development
- IoT - Smart Application Development
- CISCO - CCNA and CCNP Training and Certification
Established in the year 2001, the department offers B.Tech Program in Computer Science and Engineering with an intake of 240 and M.Tech in Computer Science and Engineering with an intake of 18. The B.Tech Program in CSE has been accredited by National Board of Accreditation (NBA) successively four times i.e. in 2008, 2011, 2016, and 2019 (valid till 30 June, 2022). The department has 52 faculty including 10 professors with Ph.D. who have vast experience in both industry and academia.

Computer Science and Engineering department facilitates high-end systems in all focused laboratories, such as, Programming for Problem Solving through C Lab, Data structures through Python Lab, Database Management Systems Lab, Object-Oriented Programming Lab, Operating Systems Lab, Compiler Design Lab, Web Technologies Lab, Linux Programming Lab, Software Testing Methodologies Lab, Cloud Application Development Lab, Big data and Business Analytics Lab. The laboratories offer students to work on a wide range of advanced software packages, such as, Oracle, IBM SPSS Clamentine, IBM Rational Rose, IBM Rational Functional Tester, IBM Blumix, SAP, MATLAB, J2ME, NodeJS, Angular JS, WordPress, Tableau and Salesforce.

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**SKILL DEVELOPMENT PROGRAMS**
- SAP - ABAP Training and Certification
- Salesforce - Developer Training and Certification
- J2ME–Cross Platform Mobile App Development
- IoT - Smart Application Development
- CISCO - CCNA and CCNP Training and Certification

*Science is about knowing, engineering is about doing.*

B.Tech in Computer Science and Engineering (NBA accredited) | Year of Inception: 2001 | Intake: 240

M.Tech in Computer Science and Engineering | Year of Inception: 2011 | Intake: 18

**COMPUTER SCIENCE AND ENGINEERING**
The most important aspect of Computer Science and Engineering is problem solving, an essential skill for life. Students study the design, development and analysis of software and hardware used to solve problems in a variety of business, scientific, and social contexts. Because computers solve problems to serve people, there is a significant human side to CSE as well. Our students start with the basics in our popular introductory programming courses - no prior experience required! Then they learn the mathematical foundations of computing; get hands-on experience building software and hardware; and choose advanced courses, such as, human-computer interaction, computer graphics and animation, artificial intelligence, machine learning, robotics, data science, natural language processing, computer networking, computer security and privacy, and much more.

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iare.ac.in
Information Technology

B.Tech in Information Technology (NBA accredited) | Year of inception: 2001 | Intake: 120

“The science of today is the technology of tomorrow”

Information Technology is a field of science that comprises all aspects of computing, including data storage, sharing of information and communications. It is a rapidly growing area that is radically changing the world by making it possible to do new way business, providing entertainment and creating art. 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.

Established in the year 2001, the department offers B.Tech program in Information Technology with an intake of 120. The B.Tech Program in IT has been accredited by National Board of Accreditation (NBA) successively four times i.e. in 2008, 2011, 2016, and 2019 (valid till 30 June, 2022).

The department has 16 faculty including 4 professors with Ph.D. having vast experience in both industry and academia.

Information Technology department truly believes in learning by doing and experiencing. It has specialized laboratories in the areas of Machine Learning, Cloud Application Development, Big data and Business Analytics and Image Processing. The other academic laboratories include, Programming for Problem Solving through C Lab, Data structures through Python Lab, Database Management Systems Lab, Object-Oriented Programming Lab, Operating Systems Lab, Compiler Design Lab, Web Technologies Lab, Linux Programming Lab and Software Testing Methodologies Lab. The laboratories offer students to work on a wide range of advanced software packages such as, Oracle, IBM SPSS Clametline, IBM Rational Rose, IBM Rational Functional Tester, IBM Blumix, SAP, MATLAB, J2ME, NodeJS, Angular JS, WordPress, Tableau and Salesforce.

CISCO Networking Academy laboratory is established to provide students an opportunity to design, build, and maintain computer network for local, national, and global business.

In order to meet the need of the day, the department prepares the students from first semester onwards to gain experience on problem solving and design of algorithms to compete in programming contests.

INDUSTRIAL CONNECTIONS

Marquee companies such as, Capgemini, Infosys, Tech Mahindra, NTT DATA, Mphasis, Cyient, CDK Global, Atos | Syntel, NCR, Aricent, HCL, and Apps Associates greatly support us in terms of supplying the state-of-the-art training for the students.

CAREERS

Our students have obtained placements in prestigious companies, such as, Capgemini, Atos Syntel, Wipro, Cognizant, LG Soft, Infosys, Verizon, Virtusa, CtrlS, Napier, NTT DATA, Mphasis, Value Momentum, Global Edge, Tech Mahindra, Cyient, CDK Global, NCR, Aricent, Tata Consultancy Services, Apps Associates, and many more.

 SKILL DEVELOPMENT PROGRAMS

→ SAP - ABAP Training and Certification
→ J2ME-Cross Platform Mobile App Development
→ IoT - Smart Application Development
→ CISCO - CCNA, CCNP Training and Certification
→ Big Data and Business Analytics Training and Certification
Established in the year 2001, the department offers B.Tech program in Information Technology with an intake of 120. The B.Tech Program in IT has been accredited by National Board of Accreditation (NBA) successively four times i.e. in 2008, 2011, 2016, and 2019 (valid till 30 June, 2022).

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In order to meet the need of the day, the department prepares the students from first semester onwards to gain experience on problem solving and design of algorithms to compete in programming contests.

“The science of today is the technology of tomorrow”
Established in the year 2004, the department offers B.Tech program in Electronics and Communication Engineering with an intake of 240 and M.Tech in Embedded Systems with an intake of 18. The B.Tech Program in ECE has been accredited by National Board of Accreditation (NBA) successively thrice i.e. in 2013, 2016, and 2019 (valid till 30 June, 2022).

The department has 47 faculty including 14 professors with Ph.D. having vast experience in both industry and academia.

The department provides ample hands-on training to the students on National Instruments hardware and software (Analog Discovery Kits, Zybo Digital System Design, ELVIS Virtual Instrumentation Suite and LabVIEW). It has well established air-conditioned laboratories with modern equipment to impart knowledge for future industrial and academic needs. It is equipped with digital signal processing lab, microprocessor lab, communication lab, optical lab, VLSI lab, and embedded systems lab. The labs offer students to work on a wide range of advanced software packages, such as, MATLAB, Xilinx, FPGA, Cadence, NI LabVIEW, ORCAD, Multisim, KEIL, ARM Cortex-MO, and PCB Machine NVIS.

SKILL DEVELOPMENT PROGRAMS
→ Cadence - Analog and Digital Circuit Design
→ Xilinx - HDL Programming
→ MATLAB - Training on Image and Signal Processing
→ NI LabVIEW - Training and Certification (CLAD, CLD and CLA)
→ KEIL - Embedded System Programming
→ Cortex ARM - Training using Embedded System Programming
→ PCB Design using Proteus
→ Digilent - Training on Electronic Circuit Simulation using Analog Discovery Kits

“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.
Established in the year 2004, the department offers B.Tech program in Electronics and Communication Engineering with an intake of 240 and M.Tech in Embedded Systems with an intake of 18. The B.Tech Program in ECE has been accredited by National Board of Accreditation (NBA) successively thrice i.e. in 2013, 2016, and 2019 (valid till 30 June, 2022).

The department has 47 faculty including 14 professors with Ph.D. having vast experience in both industry and academia.

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“We are connecting the world”

Electronics and Communication Engineering

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INDUSTRIAL CONNECTIONS

Marquee companies such as, nVidia, ARM, Cadence, NXP semiconductor, National Instruments, and Texas Instruments have recently supported us in terms of supplying the state-of-the-art equipment for the best hands-on training for our students.

CAREERS

Our students have obtained placements in prestigious companies, such as, Effetronics, Capgemini, Atos Syntel, Wipro, Cognizant, LG Soft, Infosys, Verizon, Virtusa, CtrlS, Napier, NTT DATA, Mphasis, Global Edge, Value Momentum, Tech Mahindra, Cyient, CDK Global, NCR, Aricent, Tata Consultancy Services (TCS), Apps Associates, nVidia, Texas Instruments, Cadence, ARM, and many more.

SKILL DEVELOPMENT PROGRAMS

- Cadence - Analog and Digital Circuit Design
- Xilinx - HDL Programming
- MATLAB - Training on Image and Signal Processing
- NI LabVIEW - Training and Certification (CLAD, CLD and CLA)
- KEIL - Embedded System Programming
- Cortex ARM - Training using Embedded System Programming
- PCB Design using Proteus
- Digilent - Training on Electronic Circuit Simulation using Analog Discovery Kits
Established in the year 2004, the department offers B.Tech program in Electrical and Electronics Engineering with an intake of 120 and M.Tech in Electrical Power Systems with an intake of 18. The B.Tech Program in EEE has been accredited by National Board of Accreditation (NBA) successively thrice i.e. in 2013, 2016, and 2019 (valid till 30 June, 2022).

The department has 25 faculty including 7 professors with Ph.D. having vast experience in both industry and academia. They are outfitted with core technical knowledge as well as professional skills necessary to face the challenges of the future.

All the labs in the department are air-conditioned and equipped with advanced tools and cutting edge technologies. This includes, Electrical Circuits Lab, Electrical Machines Lab, Control Systems Lab, Electrical Measurements and Instrumentation Lab, Power Electronics and Static Drives Lab, High Voltage Engineering Lab, Power Systems Lab, Industrial Automation Lab, Solar Power Lab, Switchgear and Protection Lab, Internet of Things Lab and Computer Aided Design Lab. All the laboratories are equipped with latest software packages for modelling and analysis using MATLAB, PSCAD, LabVIEW, Mi-Power and Python, etc.

“"We are lighting the world”

Electrical engineers use theories and tools from mathematics and physics to develop systems ranging from smart electric grids, design and application of renewable energy sources to internet-based information technology. The subject area encompasses an interesting range of topics and develops a variety of skills that are in great demand by employers such as, - How can sustainable energy be generated more efficiently?, What can be done to make machines and devices smarter and more user-friendly?, How can new technologies like the electric car and the e-step be further developed?, Electrical engineers work on these kinds of challenges every day. Are you up for the challenge?

INDUSTRIAL CONNECTIONS
Top esteemed companies such as, High Voltage India, MKR Industries, DRDL, HMT, CFIENT, Mediqip, Sanathan, VEM Technologies, Nucon Aerospace, Toshiba Transmission and Distribution Systems, Schneider Electric, BHEL, Amara Raja, DELTA, MTE Industries, and Tech Mahindra have recently supported us in terms of supplying the state-of-the-art equipment for the best hands-on training for our students.

CAREERS
Our students have obtained placements in prestigious companies, such as, General Electronics, MEDHA Servo Drives, BDL, Capgemini, Wipro, Cognizant, Infosys, NTT DATA, Mphasis, Tech Mahindra, Cyient, Tata Consultancy Services (TCS), Amara Raja, Tata Motors, Tata Technologies, Hyundai R & D, Wind Care India, and many more.

SKILL DEVELOPMENT PROGRAMS
- High Voltage Engineering - Training and Consultancy Work
- Transmission Line SMU – Training and Testing with Real Time Parameters and Consultancy Work
- Feeder Protection SMU - Training, Testing and Consultancy Work
- Generator Protection SMU - Training with Real Time Parameters and Consultancy Work
- Sphere gap / Rod gap - Study the Dielectric Strength and Consultancy Work
- PSCAD - Hands-on Tool for Analyzing Power System Transients
- Delta Industrial Automation Controllers – PLC, HMI, VFD and Servo Drive
Established in the year 2004, the department offers B.Tech program in Electrical and Electronics Engineering with an intake of 120 and M.Tech in Electrical Power Systems with an intake of 18. The B.Tech Program in EEE has been accredited by National Board of Accreditation (NBA) successively thrice i.e. in 2013, 2016, and 2019 (valid till 30 June, 2022).

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Electrical and Electronics Engineering

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CAREERS

Our students have obtained placements in prestigious companies, such as, General Electronics, MEDHA Servo Drives, BDL, Capgemini, Wipro, Cognizant, Infosys, NTT DATA, Mphasis, Tech Mahindra, Cyient, Tata Consultancy Services (TCS), Amara Raja, Tata Motors, Tata Technologies, Hyundai R & D, Wind Care India, and many more.

B.Tech in Electrical and Electronics Engineering (NBA accredited) | Year of inception: 2004 | Intake: 120

M.Tech in Electrical Power Systems | Year of inception: 2018 | Intake: 18

SKILL DEVELOPMENT PROGRAMS

- High Voltage Engineering - Training and Consultancy Work
- Transmission Line SMU – Training and Testing with Real Time Parameters and Consultancy Work
- Feeder Protection SMU - Training, Testing and Consultancy Work
- Generator Protection SMU - Training with Real Time Parameters and Consultancy Work
- Sphere gap / Rod gap - Study the Dielectric Strength and Consultancy Work
- PSCAD - Hands-on Tool for Analyzing Power System Transients
- Delta Industrial Automation Controllers – PLC, HMI, VFD
Established in the year 2004, the department offers B.Tech program in Mechanical Engineering with an intake of 120 and M.Tech in CAD/CAM with an intake of 18. The B.Tech Program in ME has been accredited by National Board of Accreditation (NBA) successively thrice i.e. in 2013, 2016, and 2019 (valid till 30 June, 2022).

The department has 32 faculty including 11 professors with Ph.D. having vast experience in both industry and academia.

The department has well equipped state-of-the-art modern laboratories to give hands-on experience to the students for extensive expertise for future industrial and academic needs. This includes Metallurgy and Material Science Lab, Mechanics of Solids Lab, Production Technology Lab, Mechanics of Fluids and Hydraulic Machines Lab, Thermal Engineering Lab, Machine Tools and Metrology Lab, Theory of Machines Lab, Heat Transfer Lab, Instrumentation and Control Systems Lab, Rapid Prototyping Lab, Computer Aided Design and Manufacturing Lab, Production Drawing Lab, Aristo SIM Robotics Simulation Lab, Fluid Thermal Modeling and Simulation Lab. The labs offer students to work on a wide range of advanced software packages, such as, MATLAB, NASTRAN, ADAMS, ANSYS, HyperWorks, Solid Works, Unigraphics NX, CATIA, and CADEM.

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.

“No machine can do the work of one extraordinary man”

INDUSTRIAL CONNECTIONS
Marquee companies such as, DRDL, HMT, CYIENT, Automotive Robotics, Mediqip, Sanathan, Vinci Innovations, Envirotech, Hyderabad Dies and Moulds, and MTE Industries have recently supported us in terms of supplying the state-of-the-art equipment for the best hands-on training for our students.

CAREERS
Our students have obtained placements in prestigious companies, such as, Daimler, Rane Engine Valves, Moldtek, Pawan Hans, General Electronics, BDL, Infosys, Tech Mahindra, CYIENT, Tata Advanced Systems, Amara Raja, Tata Motors, Tata Technologies, Snapdeal, Hyundai R & D, Mobis, and many more.

SKILL DEVELOPMENT PROGRAMS
- 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
Established in the year 2004, the department offers B.Tech program in Mechanical Engineering with an intake of 120 and M.Tech in CAD/CAM with an intake of 18. The B.Tech Program in ME has been accredited by National Board of Accreditation (NBA) successively thrice i.e. in 2013, 2016, and 2019 (valid till 30 June, 2022).

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“Any machine can do the work of an extraordinary man”

Mechanical Engineering

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SKILL DEVELOPMENT PROGRAMS

- 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
Civil Engineering

B.Tech in Civil Engineering (NBA Accredited) | Year of inception: 2008 | Intake: 120
M.Tech in Structural Engineering | Year of inception: 2014 | Intake: 18

“Building the future, on a foundation of excellence”

Civil Engineers build the world’s infrastructure, which encompasses Railways, Highways, Bridges, Water-works, Skyscrapers, Canals, Wharves, Industrial Buildings, Rapid Transit Systems, Power Plants etc. They deal with the design, construction, maintenance, and repair of structures. There are opportunities galore 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 Resource and Environmental Engineers, Hydrologists, Geologists and Geotechnical Experts.

Established in the year 2008, the department offers B.Tech program in Civil Engineering with an intake of 120 and M.Tech in Structural Engineering with an intake of 24. The B.Tech (Civil Engineering) program has been accredited by the National Board of Accreditation (NBA) successively twice i.e. in 2016 and 2019 (valid till 30 June, 2022).

The department has 25 faculty including 5 professors with Ph.D. having vast experience in both industry and academia. The department lays great emphasis on the aspect of correlating the theoretical knowledge with practical exposure. This is achieved by exposing the students to various laboratory sessions in all the domains of Civil Engineering to meet the challenging needs of the construction sector. Various laboratories available in Civil Engineering department are Strength of Materials, Fluid Mechanics and Hydraulic Machinery, Surveying laboratory, Geotechnical Engineering, Environmental Engineering, Engineering Geology, Concrete and Highway Materials, Building Information Modeling, Advanced Material Testing, Advanced Concrete, and Numerical Analysis.

**SKILL DEVELOPMENT PROGRAMS**

- STAAD.Pro – Structural Analysis & Design
- AutoCAD 3D - Drafting and Design of Buildings
- RIVET Architecture - Planning & Tracking of Building Life Cycles
- Total Station – Training in Modern Surveying and Building Construction
- ETABS Training on Structural Software for Building Analysis and Design
- WaterGEMS Training on Water Distribution Analysis and Design
- EPANET training on Water distribution system modeling
- AutoCAD MAP 3D training on GIS and Mapping Softwareermal Utilities

**INDUSTRIAL CONNECTIONS**

Marquee companies such as, AIMIL, Lawrence & Mayo, Moldtek, Pentax, AAB Engineering, Arvind Engineering, Gowin, Nagarjuna, Aparna and Gokul Constructions have recently supported us in terms of supplying the state-of-the-art equipment for best hands-on training for our students.

**CAREERS**

Our students have obtained placements in prestigious companies, such as, Moldtek, My Home Constructions, NCC Pvt. Ltd., Tata Consultancy Services (TCS), L&T Constructions, Aparna Constructions, Navayuga, Shoba Developers, Infosys, Wipro and many more.
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"Building the future, on a foundation of excellence"

Civil Engineering

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SKILL DEVELOPMENT PROGRAMS

- STAAD.Pro – Structural Analysis & Design
- AutoCAD 3D - Drafting and Design of Buildings
- RIVET Architecture - Planning & Tracking of Building Life Cycles
- Total Station – Training in Modern Surveying and Building Construction
- ETABS Training on Structural Software for Building Analysis and Design
- WaterGEMS Training on Water Distribution Analysis and Design
- EPANET training on Water distribution system modeling
- AutoCAD MAP 3D training on GIS and Mapping Software ermal Utilities
Established in the year 2006, the department offers four most coveted specializations like Financial Management, Human Resource Management, Marketing Management and Systems Management with an intake of 60.

The department has 10 faculty including 4 professors with Ph.D. having vast experience in both industry and academia.

The department trains the students to become decision makers along with exercising social sensitivity, keeping in mind a broad strategic vision and an ability to assume a higher corporate responsibility. All this is enhanced through a superior degree of skill in interpersonal relationships. A great deal of emphasis is also placed on experiential learning. The students are required to work on a number of corporate and academic research projects during their two years course, which also includes two months of Summer Internship.

“Management is doing things right, leadership is doing the right things”

Indian business education now, is a fusion of conventional curriculum and traditional learning methods. The conservative approach of ‘follow the big’ has made the business education monotonous and far away from business reality. Conventionally, business schools positioned themselves on the dimensions of pedagogy and content. This is why the business education is under threat when compared to the developments that have taken place in the developed and industrialized nations.

Globalization has led to a paradigm shift in the strategic context of doing business, leading to the interdependence of the economies. The emerging countries are facing challenges towards achieving corporate bottom-line for sustainability. Unless these challenges are addressed through education and training, the divide of the world will continue for ages. It has come up with a new paradigm of ‘Global Width and Local Depth’ in order to become a leading game changer.

Our unique specializations are based on digital technologies which rapidly transform the nature of the business. We have active collaboration with leading companies, such as, IBM, Finshiksha, Trainedge, CII, etc., to make our specializations relevant and application oriented, based on real-time business practices.

Our students have obtained placements in prestigious companies, such as, Capital IQ, Factcet, Mediamint, Amazon, Wipro, Renault, Tata AIG, HSBC, and many more.
Established in the year 2006, the department offers four most coveted specializations like Financial Management, Human Resource Management, Marketing Management and Systems Management with an intake of 60. The department has 10 faculty including 4 professors with Ph.D. having vast experience in both industry and academia.

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INDUSTRIAL CONNECTIONS
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CAREERS
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Freshman Engineering department provides the launching pad for the academic affluence and fundamental skill development of any Freshman. The department lays a strong foundation in Mathematics, Chemistry, Physics, English and communication skills.

The academic team of Freshman Engineering department is strengthened by 40 experienced and competent faculty comprising 10 Professors, 10 Associate Professors and 20 Assistant Professors. The Professors of the department are dedicated in empowering students to achieve academic success and unleash their creative potential by peer mentoring.

“Success usually comes to those who are too busy to be looking for it”
Transport

More than 35 buses
GPS tracking
Terminals across the city
Cafeteria

Tea
Coffee
Snacks
Lunch
Soft Drinks
Ice-Creams
Accommodation

Spacious well-ventilated rooms accommodating two persons in each room

Separate hostels for boys and girls

Well-furnished dining room with a seating capacity of 350 students

RO purified water facility

24X7 Wi-Fi facility

Ragging-free environment

Health care and regular visits by registered physicians

Healthy and hygienic food

Round-the-clock security

Doctor on call

Free transportation to and from the institute
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
→ Well-furnished dining room with a seating capacity of 350 students
→ RO purified water facility
→ 24X7 Wi-Fi facility
→ Ragging-free environment
→ Health care and regular visits by registered physicians
→ Healthy and hygienic food
→ Round-the-clock security
→ Doctor on call
→ Free transportation to and from the institute
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.
- CIYARAHH 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.
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CONCOCT National product expo

CONSORTIUM Inter college technical fest

CIYARAHH Inter college sports meet

EVOKE An alumni meet

ORIENTATION DAY First B. Tech induction programme

SAMSKRUTHI A traditional day

SPANDANA Annual Day

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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.
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Directions

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Contact us

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(Autonomous)
Approved by AICTE | NAAC Accreditation with 'A' Grade | Accredited by NBA | Affiliated to JNTUH, Hyderabad

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