



**IARE**  
INSTITUTE OF  
AERONAUTICAL ENGINEERING



# STUDENT HANDBOOK

2023-24

**23** YEARS OF  
*Excellence*



**nirf**  
INDIA RANKINGS

ENGINEERING CATEGORY  
RANK 151-200  
INNOVATION CATEGORY  
RANK 51-100

Accredited with  
**'A'**  
Grade

by **NAAC**  
NATIONAL ASSESSMENT AND  
ACCREDITATION COUNCIL

**NBA**  
NATIONAL BOARD  
OF ACCREDITATION

# **Student Handbook**

## **2023 - 24**



## **Institute of Aeronautical Engineering**

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**Dundigal, Hyderabad - 500 043 | Telangana, India.**

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## **STUDENT HANDBOOK**

Student Handbook is an official publication of Institute of Aeronautical Engineering.

Student Handbook merely presents the updated information of IARE genesis, vision, mission, culture, policies, services and resources available to the students. These policies are applicable to all the students and should be followed accordingly. The code of conduct applies to student on campus.

The policies of Institute of Aeronautical Engineering are under continuous examinations and revision. Any revision of the policies will be posted in the online version of the Student Handbook located at

**Web Resource: <https://www.iare.ac.in>**



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# WELCOME MESSAGE FROM THE PRINCIPAL

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A very warm welcome to all the students!

As you embark on this new and exciting phase of your life, you are also in the process of discovering yourself. Institute of Aeronautical Engineering (IARE) provides an excellent foundation and platform for your onward journey.

With regard to academics, you will find many opportunities to explore your interests, apart from your major area. Equally important, you will have a variety of options to cultivate your passions in the extra-curricular domains of arts, culture and sports. As well, we urge you to expand your interests and network in your respective major areas through student associations. A combination of these activities will ensure development of academic, technical and life skills that will facilitate lifelong growth, realization of your potential to the fullest and high quality of life. In short, we aim for holistic growth through the IARE principles of innovate, create and lead.

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. We look forward to an exhilarating journey with you.

**Dr. L V Narasimha Prasad**

**PRINCIPAL**

**Professor of Computer Science and Engineering**

## 1. OVERVIEW

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### 1.1 ABOUT INSTITUTE OF AERONAUTICAL ENGINEERING

Institute of Aeronautical Engineering (**IARE**), Hyderabad was established in the year 2000 and is run by Maruthi Educational Society founded by a devoted group of eminent professional and industrialists having a long and outstanding experience in educational system with a mission 'Education for Liberation'. It is the first institute to start B.Tech program in Aeronautical Engineering in the state of Telangana and has gradually transformed itself into an integrated multi-disciplinary technological institute. It is the most preferred institute with 100% admissions in the state of Telangana.

IARE is a prestigious **Autonomous** engineering college offering eleven B.Tech programs Computer Science and Engineering (CSE), CSE (Artificial Intelligence and Machine Learning), CSE (Data Science), CSE (Cyber Security), Information Technology, Computer Science and Information Technology, Electronics and Communication Engineering, Electrical and Electronics Engineering, Aeronautical Engineering, Mechanical Engineering, Civil Engineering and six M.Tech programs in engineering and MBA (Master of Business Administration) with 23 years of rich standing in the educational sphere. The institute is approved by AICTE, New Delhi; recognized by Govt. of Telangana; permanently affiliated to Jawaharlal Nehru Technological University Hyderabad (JNTUH); and accredited by National Assessment and Accreditation Council (NAAC) with 'A' Grade. All the seven B.Tech programs are accredited thrice by National Board of Accreditation (NBA), New Delhi since 2008. The institute also received UGC recognition under Sections 2(f) and 12(B) of the UGC Act.

The institute is ranked **151-200** in Engineering category and ranked **51-100** in Innovation category as per **National Institutional Ranking Framework (NIRF)** - 2023, Ministry of Education, Govt. of India. This illustrates positive performance and quality standards we maintain in Teaching, Research, Employability, and Innovation.

Besides the institute has been ranked by different independent national agencies which include Careers 360 (AAAA), India Today (54), The Week (60), Times of India (64), Competition Success Review (16), Outlook (50), Data Quest (78), Business World (60).

The total number of students is 5215 and that of faculty is 315, out of which, 106 are Ph.D's (41%) ensuring healthy faculty student ratio. 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, PLC, CAD/CAM, CNC machining, tool design, welding, embedded systems, and low power VLSI digital system design. Emphasis is also being laid on manufacturing, automation, business analytics, big data, cloud computing, wireless technology, image processing, and next generation networks.

IARE has fourteen sponsored research projects, and has received grants of worth Rs. 895.59 lakhs for research and other activities by different agencies including DST, AICTE, UGC etc. The institute

has a record of intellectual property with 1800+ research paper publications by faculty as well as students and 4700+ citations, 160 patents in last 5 years. Internal Revenue Generation through consultancy facilitates and promotes activities pertaining to energy audit, mobile apps, drones in agriculture, agricultural tools, and material testing.

Big placements greet our students with ample opportunities with around 62 core and software companies visiting the institute every year with 700+ Placements. Placement and training centre is instrumental in signing the Memorandum of Understanding (MOU) with many reputed organizations including Amazon, IBM, DBS, Capgemini, L&T Infotech, TCS, Cognizant, Accenture, Accolite Digital, Wipro, Mindtree, Mphasis, NTT Data, Infosys, Hexaware, Optum, TEK Systems, ValueLabs, Tata Advanced Systems Limited, Cyient, Virtusa, Temenos and so on...

To promote incubation centres, start-ups and entrepreneurship, IARE signed an MOU with National Research Development Corporation (NRDC) to cooperate for the development of technologies and their successful transfer to industry for commercial and socio-economic benefits. The students are provided with avenues to showcase their talents and innovative skills. They also participate in various national level engineering competitions like Baja SAEINDIA, Supra SAEINDIA, Go-kart, ADC championships to name a few and have made their mark by winning prizes and ranks. They participate in national and state level project competitions as well as conferences to share their research findings. Students have represented the institute at international level as well.

The central library houses a rich collection of books for all subjects with recent publications. There are about 56,862 books, 7998 individual titles, nearly 132 National / International Journals, 2715 back volumes, and e-journals from IEEE, ASME and ASCE. Apart from this, the students have an exclusive access to DELNET for resource sharing. The library is open for 10 hours on weekdays and even on Sundays. Book distribution process has been automated for quick and easy access. For circulation of library books 'Automated Self Service Kiosk' has been installed, which enables users to issue, return and renew books by themselves.

Institute has state of art infrastructural facilities to support teaching-learning, research and administrative services. The institute is spread over 17 acres with built up area of 3,90,837 sft. housing 65+ smart class rooms, 2 ICT studio rooms, 4 flipped classrooms, 4 conference halls, auditorium, 8 research laboratories, 94 academic laboratories, science and technology startup park, technology innovation and incubation centre, open air amphitheater, makerspace, community facilitation centre, skill development centre and library. Campus-wide networking with 1800 Mbps internet connectivity, Wi-Fi and CCTV facility is available. To reduce the consumption of electricity efficient lightings are used with solar electric energy of 160 KW on the grid. A captive power of 480 KVA is provided to ensure smooth working of the institute in times of power outage. The institute operates 32 buses for the benefit of students and staff.

IARE has a home away from home with the best amenities for the students to provide them a comfortable lifestyle within a vicinity of 1 km of the campus. The institute provides separate hostels for boys and girls, made to grow as places to support learning not only academics but also life skills in a multi-cultural and multi-lingual environment.

Students are encouraged to participate as actively in sports and other extracurricular activities as in academics. The institute maintains a separate unoccupied open area of 4 acres for the play fields in any time fit condition. Apart from this, the institute also has several sports rooms where students can play and revive their energies and be mentally and physically fit.

The IARE also enjoys geographical advantage, as it is well connected by air, rail and road. The college campus is adjacent to Nehru Outer Ring Road close to Dundigal junction exit-5, making it accessible to several important centers in and around the city. The Campus is situated 20 Km away from Secunderabad railway station and 11 Km from JNTUH University, Kukatpally, in a lush green and pollution free environment.

With its belief in **holistic approach to excellence**, the institute offers distinct Teaching-Learning Process to push the boundaries of human knowledge. The Institute excels in supporting “Research initiatives among students and faculty members” and “Entrepreneurship drive among students” which makes IARE as one of the best institutions to enhance the performance of the students.

## **1.2 WHY IARE**

### **1: GREAT STUDENT EXPERIENCE**

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

### **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.**

### **3: TAUGHT BY TOP RESEARCHERS**

**Taught by top researchers**

### **4: EXCELLENT JOB PROSPECTS**

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

### **5: HIGHLY RANKED**

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

**We look forward to welcoming you to the Institute of Aeronautical Engineering (Autonomous) and helping you along your journey to become one or more of many things – engineer, scientist, inventor, designer, builder, and great thinker.**

### **1.3 VISION, MISSION AND QUALITY POLICY**

#### **VISION**

**To bring forth professionally competent and socially sensitive engineers, 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 profession, guided by dynamic intellectual community and be able to face the technically complex world with creative leadership qualities.**

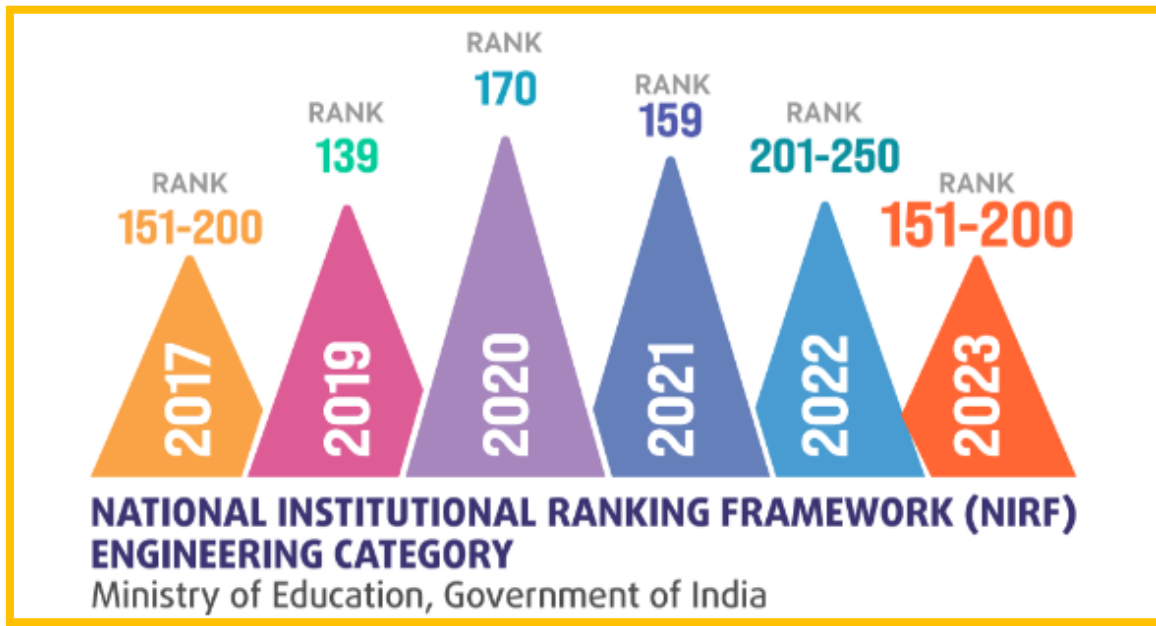
**Further, be instrumental in emanating new knowledge through innovative research that emboldens entrepreneurship and economic development for the benefit of wide spread community.**

#### **QUALITY POLICY**

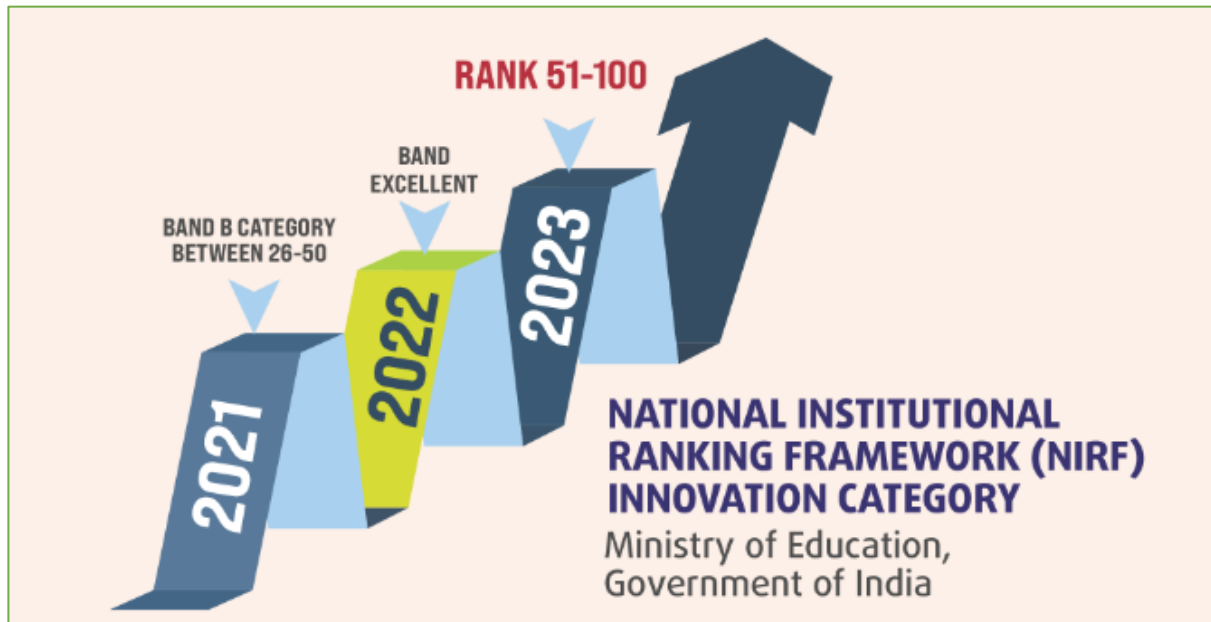
**Our policy is to nurture and build diligent and dedicated community of engineers providing a professional and unprejudiced environment, thus justifying the purpose of teaching and satisfying the stake holders.**

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

## 1.4 RANKINGS AND ACCOLADES



Institute of Aeronautical Engineering (IARE) is ranked 151-200 in Engineering category as per National Institutional Ranking Framework (NIRF) - 2023, Ministry of Education, Govt. of India.



In Innovation category of National Institutional Ranking Framework (NIRF) – 2023, Ministry of Education, Govt. of India, Institute of Aeronautical Engineering is ranked 51-100.India.

- ❖ **India Today (54)**
- ❖ **Times of India (64)**
- ❖ **The Week (60)**
- ❖ **Careers360 (AAAA)**
- ❖ **Competition Success Review (16)**
- ❖ **BW Business World (60)**
- ❖ **Data Quest (78)**
- ❖ **Outlook (50)**



## 1.5 ACADEMIC EXCELLENCE

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

### 1 Academic

**Learn from world leaders and ground breaking experts.**

IARE is ranked in the world's top 4% of engineering institutes 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 needs of employers.

### 3 Research

**Learn from world researchers-go beyond and do differently.**

We see learning and research as the connected aspects of a student's experience, putting him close to the world-leading research that is changing lives in 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 realize 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 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.**

IARE is committed to help and support you with a wide range of services such as, computerized intellect campus management system, 24/7 high speed W-Fi environment to manage your jobs easily.

## CORE VALUES

- Excellence** : All activities are conducted according to the highest international standards.
- Integrity** : Adheres to the principles of honesty, trustworthiness, reliability, transparency and accountability.
- Inclusiveness** : To show respect for ethics, cultural and religious diversity and freedom of thought.
- Social Responsibility** : Promotes community engagement, environmental sustainability, and global citizenship. It also promotes awareness of, and support for, the needs and challenges of the local and global communities.
- Innovation** : Supports creative activities that approach challenges and issues from multiple perspectives in order to find solutions and advance knowledge.

## 1.6 CAMPUS LOCATION AND DIRECTIONS

### Campus Location

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 km 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.

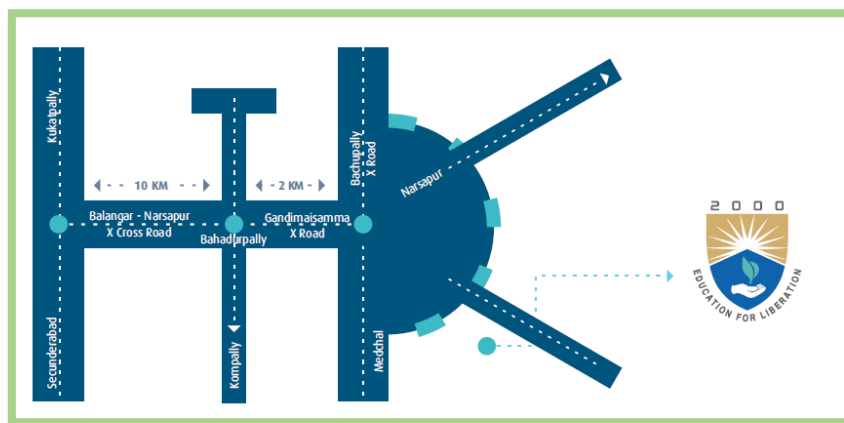
### How to get to Institute of Aeronautical Engineering by Bus:

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 km to reach Gandhi Maisamma X Roads. Head 03 km towards Dundigal to reach the institute.



## 2. CODE OF CONDUCT AND POLICIES

### 2.1 ACADEMIC INTEGRITY

Integrity is, one of the core values at Institute of Aeronautical Engineering. IARE believes that academic integrity is reinforced by the faculty as an element of the teaching and learning process. Only in limited instances, which call for stern disciplinary action, the Disciplinary Committee shall consider sanctions, warning, or in rare cases, removal of a student from the academic program.

### 2.2 MOBILE USAGE POLICY

In accordance with the institute policy, usage of mobiles are not allowed in instructional area i.e. classrooms, tutorial rooms, laboratories, central library, seminar halls and auditorium. Everyone will switch off his/her mobile phone in instructional area. In addition to this, usage of mobile phones not allowed where "No Mobile Zone" board is displayed. Use of mobiles for viewing videos / radio / music / camera, etc. is strictly prohibited. Use of Head phones/Blue tooth devices in the campus is also strictly prohibited.

The dress code in the institute should be proper and appropriate. A professional appearance is appreciated.

### 2.3 DRESS CODE

Laboratory name	Boys	Girls
Workshop / Engineering Physics and Engineering	Neat dress with shirt tucked in, blue / white apron and formal shoes	Chudidhars and Blue apron
Engineering Drawing Laboratories	Neat dress with shirt tucked in, blue apron and formal shoes	Chudidhars and Blue apron
Mechanical Engineering / Aeronautical Engineering / Civil Engineering Laboratories	Neat dress with shirt tucked in, blue apron and formal shoes	Chudidhars and Blue apron
Electronics and Communication Engineering / Electrical and Electronics Engineering Laboratories	Neat dress with shirt tucked in, blue apron and formal shoes	Chudidhars and Blue apron
Computer Science and Engineering Laboratories	Neat dress with shirt tucked in and formal shoes	Chudidhars

### 2.4 ANTI-RAGGING ACT

Ragging has ruined countless innocent lives and careers. In order to eradicate it, Hon'ble Supreme Court in civil appeal No. 887 of 2009, passed the judgment wherein guidelines were issued for setting up of a Central Crisis Hotline and Anti-Ragging database.

Complying with the directives of the Hon'ble Supreme Court of India (vide its order dated 16 May 2007) and AICTE Notification dated 25 March 2009 (issued vide F. No. 37-3/Legal/AICTE/2009), an Anti-Ragging Committee is formed for overseeing the implementation of the provisions of the Anti-Ragging verdict.

It shall be the responsibility of the Anti Ragging Committee to ensure compliance with the provisions of UGC regulations on Curbing of Menace of Ragging in Higher Educational Institutions 2009, as well as the provisions of any law for the time being in force concerning ragging and also

to monitor and oversee the performance of the Anti- Ragging Squads detailed for prevention of ragging in the Institutions.

## 2.5 INSTITUTE GENERAL CODE OF CONDUCT

Institute punish the students if they found by consuming/indulging in alcohol, smoking, drugs, paan & tobacco chewing, spitting, pornography, gambling, thieving, demonstrations and eve-teasing, indecent/inappropriate behaviour. Complaints from any girl student will be treated seriously. It is strictly forbidden to comment in a disrespectful manner about their caste, religion any community,

### It advises the following:

- Do not post photos or videos of others without consent.
- Do not make threats: Posts or comments that are abusive or threatening to other people can have legal consequences.
- Do not post vulgar pictures or of alcohol. Do not post pornographic or material that contains nudity.
- Do not gossip: People could face fines of up to Rs. 10,000/ if they spread false information.
- Do not bully or harass: Users must not post content which includes hate speech, incites violence or which is threatening or contains graphic or gratuitous violence.

## 2.6 STUDENT CODE OF CONDUCT



No inappropriate physical contact between males and females.



Inappropriate dress for males and females is prohibited



No fighting, assault or any acts of violence.



No harassing, threatening, bullying or intimidating other



No possessing, using or distributing illegal substances



No smoking in the institute



No possessing of firearms, explosives or weapons



No gambling



No raising false alarms



No setting fires

## **.7 CODE OF CONDUCT TO HOSTELLERS**

1. All residents are required to maintain standards of behavior expected of students of a prestigious Institution such as ours. They are expected to behave courteously and fairly with everyone both inside and outside the campus.
2. All residents are required to carry their valid Identity Cards issued to them by the Institute.
3. It is prohibited to throw garbage, trash or any other things outside the hostel through the windows/balconies. All such waste materials shall be dropped separately in the dustbins kept at the corners of all the wings of the hostels. The housekeeping staff engaged by the hostel collects garbage every day and dispose the same.
4. The rooms, common areas and surroundings should be kept clean and hygienic. Notices shall not be pasted on walls and walls shall not be scribbled on.
5. Playing of Football, Cricket and such other games which may cause damage to glass panels and properties, damage to vehicles and which may cause injury to any person is strictly prohibited in common or covered areas inside the premises.
6. The hostellers of one block should not enter into the premises of other hostel block without prior permission of the chief warden/ warden.
7. The students should not screen pirated / unauthorized / unlicensed movies in their computers and common rooms. Any violation will be dealt severely. Punishment for the same will be decided by authorities.
8. The resident of a room is responsible for any damage to the property in the room during his / her occupancy of that room and will be required to make good the damage, if any.
9. In case of damage to or loss of hostel property the cost will be recovered from the students responsible for such damage or loss, if identified, or from all the students of the hostel, as decided by the Associate Warden.
10. Ragging of students admitted to the Institute is totally banned. Any violation of this by the students will be dealt with very severely.
11. Smoking and consumption of alcoholic drinks and / or narcotic drugs in the hostel premises is strictly prohibited
12. All senior students, hostellers and day scholars, are required to sign an Anti-Ragging Undertaking form.
13. Residents should not participate in any anti-national, antisocial or undesirable activity in or outside the campus. The visit of a person of the opposite sex to the hostel is restricted to common room and lounge.
14. Smoking and consumption of alcoholic drinks and / or narcotic drugs in the hostel premises is strictly prohibited.
15. Hostellers should strictly observe the normal rules of morality, conduct and behavior in their daily life and should not indulge in any activity unbecoming of students of the hostel. Violation of the rules and regulations will be informed to Principal, respective Head of the departments and their parents..

## **2.8 MONITORING ASPECTS OF RAGGING**

### **Anti-Ragging Surveys**

Anonymous random surveys, across first year students to be carried out in the respective places allotted by Antiragging committee Chairman during first three months.

### **Anti Ragging Committee (ARC) at the Institute Level**

Anti Ragging Committee (ARC) should be constituted at Institute level to monitor the various aspects related to menace of ragging. The members of the committee can be nominated by the Principal. The ARC may have 'Principal' as chairperson and one member as convener, and all the head of the departments are as members.

## 2.9 MEASURES TO PREVENT RAGGING

- Awareness programs are conducted and Anti ragging act is read out in the class during the induction and orientation programs for fresher and senior students.
- Anti-Ragging regulations are displayed in the prominent places in the campus and also on the Institute's website.
- Anti-Ragging Committee is constituted to ensure compliance with the provisions of the Regulations as well as the provisions of any law for the time being in force concerning ragging; It will also to nominate, monitor and oversee the performance of the Anti-Ragging Squad in prevention of ragging in the institution
- Anti-Ragging Squad will be called upon to make surprise checks in the canteen, and other places vulnerable to incidents of, and having the potential of, ragging and shall be empowered to inspect such places.
- Anti-Ragging Squad is empowered to conduct an on-the-spot enquiry into any incident of ragging referred to it by the Head of the institution or any concerned complainant and the enquiry report along with recommendations shall be submitted to the Anti-Ragging Committee for action.

## 2.10 ANTI-RAGGING COMMITTEE

An Institute Anti-Ragging Committee has been constituted. The committee focuses on anti-ragging issues of the students and resolves the issues by suitable awareness drives, students counseling, monitoring, and control. The composition of the committee is as under:

S.No	Name	Designation	Responsibility	Phone Number
1	Dr. L V Narasimha Prasad	Principal and Professor, CSE	Chairman	9490182900
2	Dr. D Govardhan	Professor, AE	Member	9948503909
3	Dr. C Madhusudhana Rao	Professor, CSE	Member	9959990001
4	Dr. M Purushotham Reddy	Professor, IT	Member	8309537013
5	Dr. P Munaswamy	Professor, ECE	Member	9493042585
6	Dr. CH Sandeep	Associate Professor, ME	Member	7893645222
7	Dr. V Chandra Jagan Mohan	Associate Professor, EEE	Member	9618541353
8	Dr. G Sucharitha Reddy	Associate Professor, DS	Member	9573097536
9	Dr P Ashok Babu	Professor, AI&ML and CSE (CS)	Member	9848898290
10	Dr. R Ramya Swetha	Assistant Professor, CE	Member	9908395072
11	Dr. Vara Lakshmi Thavva	Professor, MBA	Member	8639418996
12	Dr. J Suresh Goud	Assistant Professor	Member	9966239198

The Committee will monitor the measures taken by the Institute for prevention of ragging and suggest appropriate actions/punishments against individuals indulged in ragging.

### Acting Responsibly

Given the impact that allegations of illegal harassment can have on those involved, the institute

expects all persons involved in any procedure under this policy-whether as a complainant, a respondent, or a potential witness-- to act responsibly and in good faith.

### **2.11 EMPLOYEE / EMPLOYEE SOCIAL RELATIONSHIPS**

All employees are expected to maintain relationships with their colleagues that in no way foster questions or allegations of favoritism or conflicts of interest, adversely affect the morale of others, create an appearance of impropriety, or otherwise adversely affect the institute's standards, overall character, public image, or other legitimate interests. Mature, mutually respectful, and non-coercive social or amorous relationships between consenting adult employees are not considered to be sexual harassment. However, given the risk of potential sexual harassment claims, dating or amorous relationships between any faculty or staff member and his/her direct supervisor are prohibited.

### **Unfair Means and Plagiarism**

IARE has zero tolerance for any unfair means in any evaluation component. The following examples will be construed as unfair means during examinations:

- Possession of materials generally not allowed during examinations, in any form, relevant or not relevant to the course.
- Possessing incriminating material in the pencil box / scale/ calculators / tables / any part of the body.
- Tampering with the answer books during examination.
- Copying during the examination in collaboration with other student(s) or helping a student in the examination hall.
- Any suspicious behaviour / action which could disturb the smooth conduct of the examination.
- Scribbling / writing answers on the question papers.
- Impersonation.
- Any other activity which may lead to unfair means.

The offenders will face severe punishment, ranging from cancellation of registration in the said course to cancellation of registration in all the courses and discontinuation from the program, based on various codes regarding the punishment for unfair means cases.

For thesis and project work, plagiarism check will be done using (Turnitin) software for all the project reports.

### **2.12 INTERNAL COMPLAINTS COMMITTEE (ICC)**

Institute recognizes that all human beings are born free and are equal in dignity and rights and that all human beings are entitled to the full enjoyment of all human rights. Institute further recognizes that discrimination, violence, harassment and sexual misconduct is a serious challenge that undermines the physical and mental health, all round well-being, as well as the security of individuals, of communities, and of the nation at large. All members of IARE should have the ability to live, work, study and participate in activities within a safe and healthy campus environment free from any sexual violence and free from any form of discrimination, violence and harassment.

In furtherance of its commitment towards prevention, prohibition and protection from any incident of discrimination, violence and harassment involving its members, institute has constituted a Committee for Internal Complaints Committee (ICC). The ICC has been vested with the power to investigate all cases of sexual harassment and sexual abuse on campus. The ICC shall have 7 members, and all members nominated for ICC must be women and the Counsellor must be a member as an external person to ensure integrity and impartiality of the ICC.

If students believe that they have been subject to harassment or sexual misconduct by another

member of the institute, they can make a complaint through Website / SMS / Call / Email / Letter / verbally to any member of the ICC, to the head of the institution, or directly to the higher authorities of the Institute. Complaints can be made directly by the person facing harassment or even by a third party.

The Committee guarantees anonymity of complainants and all persons involved. All complaints will be dealt with equal seriousness irrespective of the positions held by the persons involved.

**For more information, visit**

<https://www.iare.ac.in/?q=pages/internal-complaints-committee>

### **2.13 GRIEVANCE REDRESSAL (STAFF AND STUDENT)**

Grievance Redressal Committee at IARE has been constituted as per the AICTE notification F. No. AICTE/PG/2012/20/SRO/06/1143, dated 25-07-2012, with the objective of resolving the grievances of students, parents and others. The committee comprises of following members:

S.No	Name of the Member	Designation
1	<b>Dr. L V Narasimha Prasad</b> Principal, Institute of Aeronautical Engineering, Dundigal, Hyderabad	Chairperson
2	<b>Dr. M Sushama</b> Professor, Electrical and Electronics Engineering, JNTUH CEH, Hyderabad	Member
3	<b>Dr. R Sayanna</b> Former Vice chancellor, Kakatiya University, Warangal	Member
4	<b>Dr. V Padmanabha Reddy</b> Professor, Electronics and Communication Engineering, Institute of Aeronautical Engineering, Dundigal, Hyderabad	Member

Grievance Redress and Monitoring System (GRAMS) is an online platform available to the stakeholders to lodge their grievances to Grievance Officer on any subject related to service delivery.

The status of the grievance filed in GRAMS can be tracked with the unique registration ID provided at the time of registration of the complainant. GRAMS also provides appeal facility, if they are not satisfied with the resolution by the Grievance Officer. After closure of grievance if the complainant is not satisfied with the resolution, he/she can provide feedback to the Principal. If you have not got a satisfactory redress of your grievance within a reasonable period of time, you may seek help of Principal.

#### **Grievances and Redressal (Faculty / Staff)**

The committee focuses on the holistic staff development, executes and monitors all the activities in regard to the staff development. It conducts training, seminars/workshop & supports activities related to continuing education.

#### **Convener**

- Dr. M Purushotham Reddy, Associate Professor, Dept. of Information Technology

#### **Members**

- Mr. G Chandra Sekhar, Assistant Professor, CSE
- Dr. G V R Seshagiri Rao, Associate Professor, ME
- Ms. K Laxmi Narayanamma, Assistant Professor, IT
- Ms. K S Indrani, Assistant Professor, ECE

- Mr. A Satish Kumar, Assistant Professor, EEE
- Ms. K Lakshmi Revathi, Assistant Professor, MBA
- Ms. P B Esther Rani, Assistant Professor, English
- Ms. Zeba Farooq, AAO (Estd.), Administration

### Grievances and Redressal (Students)

Grievances Redressal Committee is formed in order to keep the healthy working atmosphere and to uphold the dignity of the institute by ensuring strife free atmosphere in the institute to promote cordial student to student relationship, student to teacher relationship relations etc. This cell also helps students and parents to record their complaints and solve their problems related to academics, resources and personal grievances.

Suggestion / complaint Boxes have been installed at different places in the campus, in which the students who want to remain anonymous, can put in writing their grievances and their suggestions for improving the academic/administration in the institute. Students and parents can lodge a complaint. Students can also lodge ragging complaints. The person concerned can personally approach or write / e-mail to any member of the cell. They can send email on [grievances.student@iare.ac.in](mailto:grievances.student@iare.ac.in), or write an application and submit it to cell convener.

### Convener

- Dr. V Padmanabha Reddy, Professor, Dept. of Electronics and Communications Engineering

### Members

- Dr. K Viswanath Allamraju, Associate Professor, ME
- Mr. B Raju, Assistant Professor, Chemistry
- Mr. S Devaraj, Assistant Professor, AE
- Ms. G Ajitha, Assistant Professor, ECE
- Mr. S L Karthik, Student, CSE

## 2.14 DISCIPLINARY COMMITTEE

The committee focuses on discipline related issues of the students and resolves the issues by suitable awareness drives, students counseling, monitoring, and control. The members also study the case of indiscipline and send the final report to the Principal for necessary action.

S.No	Name	Designation	Department	Responsibility
1	Dr. D Govardhan	Professor and Head	AE	Convener
2	Dr. P Sridhar	Professor	EEE	Co-Convener
3	Dr P Ashok Babu	Professor and Head	CSE(AI&ML)   CSE (CS)	Member
4	Dr. J Suresh Goud	Assistant Professor	Mathematics	Member
5	Mr. G Sarath Raju	Assistant Professor	ME	Member
6	Dr. T Vara Lakshmi	Associate Professor and Head	MBA	Member

### 3. ACADEMIC INFORMATION

#### 3.1 COURSES OFFERED WITH INTAKE

The college offers the following UG and PG courses with an annual intake of 1698.

##### B.Tech Courses:

S. No	Year of Estd.	Name of the course	Intake
01	2000	Aeronautical Engineering	60
02	2001	Computer Science and Engineering	420
03	2020	Computer Science and Engineering (AI & ML)	240
04	2020	Computer Science and Engineering (Data Science)	180
05	2020	Computer Science and Engineering (Cyber Security)	180
06	2001	Information Technology	180
07	2004	Electronics and Communication Engineering	240
08	2004	Electrical and Electronics Engineering	30
09	2004	Mechanical Engineering	30
10	2008	Civil Engineering	30
<b>Total</b>			<b>1590</b>

##### M.Tech / MBA Courses:

S. No	Year of Estd.	Name of the course	Intake
01	2008	M.Tech - Aerospace Engineering	12
02	2008	M.Tech - Computer Science and Engineering	06
03	2012	M.Tech - Embedded Systems	06
04	2019	M.Tech - Electrical Power Systems	06
05	2012	M.Tech – CAD/CAM	06
06	2014	M.Tech - Structural Engineering	12
07	2006	MBA - Master of Business Administration	60
<b>Total</b>			<b>108</b>

### 3.2 ADMISSION PROCEDURE

Admissions to the Institute are made along with the other engineering colleges in the state through a common entrance test conducted by the Govt. of Telangana.

#### UNDER-GRADUATE 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 made by the college 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 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 seats) are conducted 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 made based on 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.

### 3.3 PHOTOGRAPHS

On admission a student shall submit five copies of his / her photograph with the following specifications:

- 3.5 cm x 3.5cm
- White background
- 80% of the photo should comprise of the face
- Sunglasses, hats, etc. should be avoided

**Note:** Students are advised to keep additional copies of the same for use in examination application forms and other forms.

### 3.4 PAYMENT OF FEES AND FINANCIAL MATTERS

To ensure students are well informed of the financial considerations of their enrolment, the institute provides fee information to each student prior to enrolment.

All students are requested to pay the academic fees for the academic year 2023 - 24 through HDFC Smart Hub (Payment Gateway) module only. The Administrative office operates from Monday to Saturday between 09.30 a.m. to 06.00 p.m. It also provides information about tuition fees, refunds, examination fees, financial aid and fines.

Last slot for payment of annual tuition fee is from **01 May to 15 May** for each year of study. Students must pay the fees by the payment schedule. Failure to pay fees by the due date may incur

a financial penalty. The late payment of tuition fee with fine of Rs. 500/- per day is applicable on

the next 6 days and thereafter, Rs. 100/- per day upto a day before the date of course registration as specified in the academic calendar.

### Scholarships and provisions for EBC

Reserved category students and EBC students may be eligible for scholarships offered by the State Government/Central Government. Such students need to submit their applications along with the required certificates to the scholarship desk at the Institute at the beginning of every academic year.

### 3.5 INSTITUTE ACADEMIC / ACTIVITY DETAILS

Institute Academic Calendar / Events and Fests / Pre events and Post events details are available on [www.iare.ac.in](http://www.iare.ac.in)

### 3.6 COURSE REGISTRATION AND ACADEMIC CALENDAR

It is mandatory for all the students to register the courses through the Samvidha – Campus Management Portal, before the commencement of the class work of each semester.

### ACADEMIC CALENDAR

The academic year comprises of two semesters  
 Semester 1: August – January (Tentative)  
 Semester 2: February – July (Tentative)

Month	Week	Mon	Tue	Wed	Thur	Fri	Sat	Sun	No. of Academic days	Holidays / Events
AUG										
			1	2	3	4	5	6		
		7	8	9	10	11	12	13		
		14	15	16	17	18	19	20		15 – Independence Day
		21	22	23	24	25	26	27		
		28	29	30	31					31 – Orientation Program
SEP	1					1	2	3	2	Commencement of Classwork (Including induction program)
	1	4	5	6	7	8	9	10	5	07 - Sri Krishna Astami
	2	11	12	13	14	15	16	17	6	
	3	18	19	20	21	22	23	24	5	18 – Vinayaka Chavithi
	4	25	26	27	28	29	30		5	28 - Milad-un Nabi
OCT	-							1	-	
	5	2	3	4	5	6	7	8	5	02 – Mahatma Gandhi Jayanthi
	6	9	10	11	12	13	14	15	5	14 - Bathukamma Starting Day
	7	16	17	18	19	20	21	22	4	20 – 25 Dussehra Recess 24 - Vijaya Dashami
	8	23	24	25	26	27	28	29	3	
	8	30	31						2	
NOV	8			1	2	3	4	5	4	
	9	6	7	8	9	10	11	12	2	06/11/23 to 09/11/23 - CIE - I 12-Deepavali
	9	13	14	15	16	17	18	19	6	
	10	20	21	22	23	24	25	26	6	
	11	27	28	29	30				3	27 - Kartika Pournima / Gurunanak's Birthday

DEC	11					1	2	3	2	
	12	4	5	6	7	8	9	10	6	
	13	11	12	13	14	15	16	17	6	
	14	18	19	20	21	22	23	24	6	
	15	25	26	27	28	29	30	31	5	25 - Christmas 30/12/23 to 03/01/24 Preparation Holidays
JAN	16	1	2	3	4	5	6	7	5	01 - New Year <b>06 - End of I Semester</b>
	--	8	9	10	11	12	13	14	--	08/01/24 to 11/01/24 - CIE - II 12 - 17 - Sankranti Holidays
	--	15	16	17	18	19	20	21	--	18/01/23 to 24/01/24 - SEE 25/01/24 to 31/01/2024 Practical Examinations
		22	23	24	25	26	27	28		26 - Republic Day
		29	30	31						
FEB	1				1	2	3	4	3	<b>01 - Start of II Semester</b>
	1	5	6	7	8	9	10	11	6	
	2	12	13	14	15	16	17	18	6	
	3	19	20	21	22	23	24	25	6	
	4	26	27	28	29				4	
MAR	4					1	2	3	2	
	5	4	5	6	7	8	9	10	5	08 - Maha Shivarathri
	6	11	12	13	14	15	16	17	6	
	7	18	19	20	21	22	23	24	6	
	8	25	26	27	28	29	30	31	2	28/03/24 to 02/04/24 - CIE - I 25 - Holi 29 - Good Friday
APRIL	9	1	2	3	4	5	6	7	3	05 - Babu Jagjivan Ram Jayanthi
	9	8	9	10	11	12	13	14	4	09 - Ugadhi 10 - Eid Ul Fitr (Ramzan) 14 - Dr. B.R. Ambedkar's Birthday
	10	15	16	17	18	19	20	21	5	17 - Sri Rama Navami
	11	22	23	24	25	26	27	28	6	
	12	29	30						2	
MAY	12			1	2	3	4	5	4	
	13	6	7	8	9	10	11	12	6	
	--	13	14	15	16	17	18	19	-	<b>13/05/24 to 25/05/24 Summer Vacation</b>
	--	20	21	22	23	24	25	26	-	
	14	27	28	29	30	31			5	
JUNE	14						1	2	1	
	15	3	4	5	6	7	8	9	6	
	16	10	11	12	13	14	15	16	2	<b>11 - End of II Semester</b> 12/06/24 to 15/06/24 - CIE - II
	-	17	18	19	20	21	22	23	-	17 - Bakrid 18/06/24 to 19/06/24 - Preparation Holidays 20/06/24 to 28/06/24 - SEE
	--	24	25	26	27	28	29	30	--	29/06/24 to 04/07/24 - SEE

JULY		1	2	3	4	5	6	7	-	05/07/24 to 20/07/24 Commencement of Field Project
		8	9	10	11	12	13	14	-	
		15	16	17	18	19	20	21	-	17 - Moharram
		22	23	24	25	26	27	28		22 - Start of next semester
		29	30	31						31 - Bonalu

**Note:** Total No. of working days: 92 days for Odd semester (16 weeks), 90 days for Even semester (16 weeks).

Color Code Used:	
	Starting and Ending of Working day
	Holidays
	Continuous Internal Examinations (CIE)
	Preparation Holidays
	Semester End Examinations (SEE)
	Commencement of Field Project

### 3.7 INSTITUTE TIMINGS AND CLASS SCHEDULE

**The Institute starts at 9:45 AM and ends at 4:10 PM**

Each day is bifurcated into six interactive sessions of 55 minutes duration each. Practical learning sessions are allotted two / three consecutive sessions wherein students perform experiments in laboratories.

B.Tech I semester: 2023 - 24							
Monday to Saturday							
Period	1	2	3	Lunch	4	5	6
Time	09:45 AM - 10:40 AM	10:40 AM - 11:35 AM	11:35 AM - 12:30 PM	12:30 PM - 01:25 PM	01:25 PM - 02:20 PM	02:20 PM - 03:15 PM	03:15 PM - 04:10 PM

### 3.8 FEEDBACK MECHANISM

**Feedback will be collected twice in a semester**

- ❖ Early semester feedback
  - Collected after two weeks of commencement of class work of each semester
- ❖ End semester OBE feedback (Outcome Based Education)
  - Collected at the end of the semester

### 3.9 ROLL NUMBER

Each student will be allotted a unique roll number which will be used throughout his / her course and even for alumni activities.

**Note:** Ensure that state the complete roll number on any correspondence that you make with the Institute.

### 3.10 IDENTITY CARD

Each student shall have his/her identity card. He / She needs to wear it in the institute. You are

advised to always carry it with you even outside the campus as it may be useful for you to prove your identity when asked by any authority.

Ensure that your address on the identity card is correct and always get it updated in case of any change. Report lost/damaged identity card to the administrative section without any delay and follow the procedure to get a replacement card.

Replacement card shall be issued on submission of application in a prescribed format along with fees of **Rs.200**.

### **3.11 RESIDENTIAL ADDRESS AND PHONE NUMBERS**

Provide the correct residential address along with parents and student phone numbers to the administrative office. In case of any change, inform the authorities immediately. Students staying in hostels should also provide permanent address and phone number. Submit your mobile number to received text message alerts from the Institute.

**Note:** The administrative office follows the Institute policy of maintaining the students' records which includes the personal details, enrolment status, degrees received, recent educational institutions attended and certificates issued.

### **3.12 CURRICULUM**

The curriculum prescribed by the Institute is taught during the term notified by the Institute. For program curriculum, visit [www.iare.ac.in](http://www.iare.ac.in).

### **3.13 SEMESTER STRUCTURE**

The Institute shall follow semester pattern. An academic year shall consist of a odd semester and a even semester follows in sequence. Each semester shall be of 21 weeks and this period includes time for course work, examination preparation, and examinations. Each semester shall have a minimum of 16 weeks / 90 teaching days.

### **3.14 ATTENDANCE REQUIREMENTS**

#### **Attendance requirements to appear for the Semester End Examination**

- It is desirable for a candidate to maintain 100% attendance in each course. In every course (theory/laboratory), student has to maintain a minimum of 75% attendance including the days of attendance in sports, games, NCC and NSS activities to be eligible for appearing in the Semester End Examination of the course.
- In case of medical issues, deficiency of attendance in each course to the extent of 10% may be condoned by the College Academic Committee (CAC) on the recommendation of the head of the department if the attendance is between 75% and 65% in every course, subjected to the submission of medical certificates, medical case file and other necessary documents to the concerned departments.
- The basis for the calculation of the attendance shall be the period prescribed by the Institute by its calendar of events. For late admission, attendance is reckoned from the date of admission to the program. However, in case of a student having less than 65% attendance in any course, s/he shall be detained in the course and in no case such process will be relaxed.
- A candidate shall put in a minimum required attendance for at least three (3) theory courses to get promoted to next higher class / semester. Otherwise, s/he shall be declared detained and will have to repeat the semester.

- Students whose shortage of attendance is not condoned in any subject are not eligible to write their semester end examination of those courses and their registration shall stand cancelled.
- A prescribed fee shall be payable towards condonation of shortage of attendance.
- A student shall not be promoted to the next semester unless he satisfies the attendance requirement of the present semester, as applicable. They may seek readmission into that semester when offered next. If any candidate does not fulfill the attendance requirement in the present semester, he shall not be eligible for readmission into the same class.
- Any student against whom any disciplinary action by the institute is pending shall not be permitted to attend any SEE in that semester.

### **Methodology for monitoring and evaluating the progress**

The conduct and the performance of students are closely monitored in terms of attendance, continuous assessment test, mid semester tests and tutorials. Every month the attendance particulars are presented by every course instructor to the head of the department who informs students about the percentage of shortage of attendance, if any, and cautions them not to miss classes any more. Each student is assigned to a faculty member (called mentor) who continually monitors his / her performance and guides him / her so as to foster overall growth and development. An excellent rapport is maintained with parents who are informed of their wards' progress on a regular basis.

### **3.15 EXAMINATIONS**

- Examinations are conducted by the Institute at the end of each semester.
- The rules related to the eligibility for examination are available in the Institute's website. Rules are subject to change by the Institute.
- Examination application form link will be enabled to the students who do not pay the college/exam fees.
- Hall tickets will not be issued to the students who do not pay college fees and/or examination fees and to those who do not submit applications for examination.
- Students may contact the Examination Cell for more details.

### **3.16 CLASSROOM MISCONDUCT**

The instructor has the primary responsibility for control over classroom behavior and academic integrity and can order the temporary removal or exclusion from the classroom of any student engaged in disruptive behavior. Extended or permanent exclusion from the classroom or further disciplinary action can be imposed only with the approval of the Principal.

### **3.17 ISSUE OF CERTIFICATES**

- **Bonafide Certificate:** Bonafide certificate is issued to students on the payment of tuition fees. The certificate shall be issued within 2 working days.
- **Certificates for Bank Loans:** Certificate for availing bank loan is issued to eligible students. Students need to apply online to the department for the same. The loan estimation document shall be issued within 3 working days.
- **Any other certificates:** For any other certificates, students need to apply online while clearly stating the purpose for which the certificate is required. The certificate may be issued on scrutiny within 2 working days.

### 3.18 TEACHING AND LEARNING

A course is offered as a single section or multi-section based on the number of enrolled students. Each section of the multi-section course is taught by a faculty member called the course teacher. A class incharge (CI) for each class is allotted and coordinate all the academic activities. For every course, course coordinator is allocated and they are responsible to prepare course full stack and needs to submit before commencement of classwork. A course may be offered in any one of the following ways depending on the modules associated with the course:

1. Lecture
2. Lecture + Tutorial (if any)
3. Lecture + Tutorial (if any) + Practical
4. Practical

### 3.19 EVALUATION

All courses are conducted and evaluated in a continual and internal manner by the faculty who teach these courses. The performance of a student in each course is assessed by means of continuous internal examinations, mid-term tests, by conducting online examinations (Definitions and Terminology / Quiz), assignments, Tech talk, laboratory examinations, evaluation of project, etc., at the end of the semester. Besides encouraging and rewarding consistent and systematic study, the system provides regular feedback to the students as to where they stand, thus enabling them to cultivate regular habits of studying and preparing for the future.

The student is awarded a letter/non-letter grade for each course at the conclusion of the semester. The grade will depend on the total performance in all the components of evaluation as designed.

Letter Grade	O	A+	A	B+	B	C	F	AB
Qualitative Meaning	Outstanding	Excellent	Very Good	Good	Average	Pass	Fail	Absent
Grade Point	10	9	8	7	6	5	0	0

### 3.20 FACULTY AND STAFF

IARE has a dedicated team of teachers who are committed to igniting the spark of creativity and inspiring a quest for knowledge in the minds of students. The highly qualified faculty comprises a judicious blend of experience and expertise, aimed to motivate students to gain knowledge by using their personal qualities and their positive experiences.

Faculty members develop and deliver the educational programs that bring excellent students to the institute. Faculty at our institute has impeccable qualifications, extensive expertise and experience in their chosen fields, and an overriding commitment to the welfare of the students.

**For a detailed list of all the faculty departmentwise, visit  
Website: [www.iare.ac.in](http://www.iare.ac.in)**

### 3.21 OUTCOME BASED EDUCATION (OBE)

Outcome-Based Education (OBE) model is being adopted at a fast pace at Engineering institutes in India at the moment. It is considered as a giant leap forward to improve technical education in India and help Engineers compete with their global counterparts. Outcome Based Education (OBE) is an important demonstration Tool for student-centered instruction that focuses on measuring student performance through outcomes.

Outcomes include Engineering Knowledge, Problem Analysis, Ethic, Individual and Team Work, Communication etc. It enables the students to perpetuate these outcomes as they perceive over the years of engineering. The students are evaluated for all the required parameters (Outcomes)

during the course of the program. The formulated rubrics assessment is indicative of a continuous improvement strategy that can be easily adaptable by faculty and students across engineering streams.

### 3.22 MENTOR – MENTEE SCHEME

A mentor is a faculty member who is duly appointed to monitor a student's academic and personal welfare and help in their studies. With mentors a student can share all their problems that are somehow affecting their academic pursuit.

Students can also share with them their personal problems in case any help is required. They keep track of mentee attendance and will remain in touch with their parents/guardians as well. The Mentor mainly performs the following functions:

- ❖ Meet the group of students at least twice a month
- ❖ Continuously monitor, counsel, guide and motivate the students
- ❖ Advice students regarding choice of electives, projects, summer training etc.
- ❖ Advice students in their career development / Professional guidance

### 3.23 SCHEME FOR AWARD OF GRADE

- **A student shall be deemed to have satisfied the minimum academic requirements and earn the credits for each theory course, if s/he secures**
  - i. Not less than 35% marks for each theory course in the semester end examination
  - ii. A minimum of 40% marks for each theory course considering Continuous Internal Assessment (CIA) and Semester End Examination (SEE)

**A student shall be deemed to have satisfied the minimum academic requirements and earn the credits for each Laboratory / Project work / FSI Project work, if s/he secures**

- i. Not less than 40% marks for each Laboratory / Project work / FSI Project work course in the semester end examination
  - ii. A minimum of 40% marks for each Laboratory / Project work / FSI Project work course considering both internal and semester end examination
- If a candidate fails to secure a pass in a particular course, it is mandatory that s/he shall register and reappear for the examination in that course during the next semester when examination is conducted in that course. It is mandatory that s/he should continue to register and reappear for the examination till s/he secures a pass.
- A student shall be declared successful or 'passed' in a semester, if he secures a Grade Point  $\geq 5$  ('C' grade or above) in every course in that semester (i.e. when the student gets an SGPA  $\geq 5.0$  at the end of that particular semester); and he shall be declared successful or 'passed' in the entire under graduate programme, only when gets a CGPA  $\geq 5.0$  for the award of the degree as required.

Institute Academic calendar, academic regulations, curriculum, examinations, list of policies and guidelines, facilities and information etc. are available at:

**<https://www.iare.ac.in/?q=Regulations-and-Syllabus>**

**<https://www.iare.ac.in/?q=pages/iare-academic-calendar>**

**<https://www.iare.ac.in/?q=basicpage/examinations-home>**

**<https://www.iare.ac.in/?q=policies>**

***Institute Website: <https://www.iare.ac.in>***

## 4. STUDENT RESOURCES

### 4.1 LIBRARY

The IARE Library is considered one of the most resourceful centres in twin cities since it caters to the current educational need on a wide scale. The institute has a duplex library which is spacious and voluminous enough to accommodate more than **56862** volumes of books. The first floor has Circulation Books, News Papers, Back Volumes of the Periodicals whereas the Second floor accommodates Reference Books, Current Periodicals, etc.

It has a modern infrastructure with a reading capacity of 500 students and **56862** volume of books. It has subscribed to more than **228** online journals of IEEE, ASME and it is subscribing more than **210** Indian Journals & Magazines in print.

Digital library with 20 systems to access E-journals, E-books, E-learning, Multimedia Center and photocopying are made available for the convenience of the users. N-LIST E resources (Through INFLIBNET), NPTEL facility (National Programme on Technology Enhanced Learning) to access video lectures and membership of DELNET (Inter library loan) for resource sharing. Library is fully computerized with bar-coding system.

The library has also been Information Centre providing information and intellectual requirements to its students and faculty with user-friendly approach. It offers a fully integrated and dynamic environment for conducting academic study. Multiple copies ensure that resources are easily available in Reference Section and Stack Section as well.





#### LIBRARY RULES

- ❖ Student's ID card is mandatory to enter into the library
- ❖ Talking on mobile phones inside the library is strictly prohibited
- ❖ Food and beverage are not allowed inside the library
- ❖ Playing games and watching movies in library are not allowed
- ❖ Do not take books out of library without issuing them, if caught disciplinary action will be taken

#### LIBRARY WORKING HOURS

- ❖ All working days: **9:00 AM to 6:00 PM**
- ❖ Sunday: **10:00 AM to 01:00 PM**
- ❖ The issue counters function between **9:00 AM and 06:00 PM** on all working days.

## 4.2 COMPUTER CENTRE



More than 1700+ computers are housed in 42 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.

120 KVA uninterruptible power supply system with 480 KVA diesel green generator sets are exclusively catering to the needs of the computer center. Broadband **1000 Mbps** internet facility is available through wireless connectivity.

Further, the computers providing an excellent computational environment comprise multiple operating systems-Microsoft Windows, Linux and UNIX, and can be accessed from any of the nodes attached to the servers across the campus through UTP and fiber optic backbone.

SOFTWARE PACKAGES		
<b>HYPER MESH</b>	<b>CADENCE</b>	<b>ANSYS</b>
<b>UNIGRAPHICS</b>	<b>PSCAD</b>	<b>STAADPRO</b>
<b>SOLID WORKS</b>	<b>MULTISIM</b>	<b>ECLIPSE</b>
<b>AUTODESK SUITE</b>	<b>MI-POWER</b>	<b>NASTRAN</b>
<b>XILINKS</b>	<b>COMPUTER ASSISTED LANGUAGE</b>	<b>ADAMS</b>
<b>ORCAD</b>	<b>SOFTWARE DEFINED RADIO</b>	<b>NI LABVIEW</b>
<b>KEIL</b>	<b>CLEMENTINE</b>	<b>IBM WATSON ANALYTICS</b>
<b>RATIONAL ROSE</b>	<b>RATIONAL FUNCTIONAL TESTER</b>	<b>CATIA</b>
<b>MATLAB</b>	<b>SAP</b>	<b>NETBEANS 7.X WITH JAVA 7</b>
<b>ORACLE</b>	<b>INFORMATICA</b>	<b>AMAZON &amp; ANEKA CLOUD</b>
<b>PYTHON</b>	<b>NODEJS   ANGULARJS</b>	<b>AUTODESK REVIT</b>
<b>PROTEUS</b>	<b>AUTOCAD</b>	<b>VIVADO LATEST</b>
<b>TABULAE</b>	<b>R/R STUDIO</b>	<b>MULTISIM</b>
<b>HYPERWORKS</b>	<b>STARUML</b>	<b>CADEM</b>

#### Design and Manufacturing Workshop

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.

### 4.3 INTERNET

Campus-wide networking with 1000 Mbps internet connectivity, Wi-Fi and CCTV facility is available. The Institute uses legal software as a practice. It has set up a dedicated license server for major development related software that is part of the curriculum.

### 4.4 WEBSITE AND E-MAIL

The Institute information can be availed on website [www.iare.ac.in](http://www.iare.ac.in). For any queries / suggestions one can mail to [principal@iare.ac.in](mailto:principal@iare.ac.in). Students can also use Samvidha – Campus Management Portal in the institute for day-to-day useful information and notices.

## In-house quality improvement program

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 and internships and campus placement jobs

## Experiential Learning (ExL)

Experiential learning is, in essence, the process of developing new skills or knowledge through doing, rather than reading, watching or listening. It is the most natural and effective way that we learn.

As such, experiential learning has much better rates of engagement, long-term retention and transferability than other methods of learning. Experiential learning lends itself to richer skill development.

In a world where technology is increasingly capable, the skills most need in students are ExL power skills, which relate to mindset, creativity, leadership and self management.

The Experiential Engineering Education Department (ExEEd) of IARE design and teach FIVE ExL power skills courses, to shape the students future.

- ExL – Essentials of Innovation
- ExL – Prototype / Model Development
- Engineering Design Project
- Development Project



## 4.5 INFRASTRUCTURE



**SANGEET  
AUDITORIUM**  
Air Conditioned  
800 seating capacity

**OPEN  
AIR THEATRE**  
(3000 seating capacity)

**80  
SMART CLASS ROOMS**  
(34+ Ultra-Modern and  
Air Conditioned)

**103  
LABORATORIES**  
(81+ Air Conditioned)

**17  
ACRES LAND**

**3, 63, 530 Sft.  
BUILTUP AREA**

## 4.6 CAFETERIA

The Institute has fully air-conditioned cafeteria that takes utmost care in providing hygienic and wholesome food at subsidized rates. The cafeteria offers a wide range of cuisines like South Indian, North Indian and Chinese. Besides, it also has fruit juice and fast food stalls. Students also enjoy the provision of popular food outlets such as 'Wings & Fries', 'Coffee Day' and 'Nestle'. The authorities take personal care in maintaining the quality of food served in the canteen.

## 4.7 DRINKING WATER FACILITY

The drinking water available in the Institute is filtered and purified using high quality water purifiers. All water tanks are periodically cleaned using modern equipment. In addition to this, drinking water samples are periodically tested at the Government approved laboratories for its portability.

#### **4.8 TRANSPORT FACILITY**

IARE has a fleet of 32 luxury buses with GPS tracking providing transport facilities to the students and faculty from all parts of Hyderabad and Secunderabad making commute easy and enjoyable.

#### **4.9 REST ROOMS / GUEST ROOM**

The Institute has western and indian toilets across all the floors. A guest rooms for visitors for a stay is available with all facilities.

#### **4.10 IARE CONNECT SMS FACILITY**

Students/parent who has submitted their mobile phone number can get message alerts from the Institute informing them about important schedules / announcements, etc.

#### **4.11 HDFC BANK ATM**

The banking facility in the Institute facilitates payment of salaries of all the employees, disbursement of scholarships to the students, and other financial transactions of staff and students. The bank has more than 500 account holders availing the facilities.

#### **4.12 HEALTH SERVICES**

The IARE health centre provides healthcare facilities to the students whenever required. Registered doctors are called in case of emergency and a part time nurse is employed to render health services. All treatments, consultation and medicines including lab investigations are done free of cost for all students, staff and staff dependents.

#### **4.13 HOSTEL FACILITY**

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, ambulance facilities
- ❖ Free transportation to and from the institute

#### **4.14 VEHICLE PARKING**

Two and four-wheeler parking is available for the students. Daytime students must obtain a permit to park in the Institute campus. Parking permits are available at the security office at the campus. You will need to produce your driving license and vehicle registration card. It is your responsibility to familiarize yourself with campus parking regulations.

**Note:** Parking facility shall be available in the Institute hours only. Parking is at owners' risk. Speed Limit is 5 km/hr and no overtaking is allowed in the campus. Wearing of helmet is mandatory.

#### 4.15 ELECTRONIC SURVEILLANCE

For added safety, complete campus including the Institute building is guarded with the help of cameras including night vision cameras.

#### 4.16 TUCK SHOP

Institute has well established tuck shop. Students can get stationery and confectionary are met with by this shop. Laboratory work sheets, rough books, pens, T-shirts etc. are available. Text books for first B.Tech courses authored by IARE faculty are also available in the tuck shop.

#### 4.17 AMENITIES FOR PHYSICALLY CHALLENGED

The Institute is equipped with rest room for physically challenged. There is a specially marked parking space too. A ramp is fitted alongside the staircase at the entry to the IARE building. In addition to elevators, there is a stair climber too.

#### 4.18 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.
- High quality learning experience using multimedia on anytime, anywhere 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.



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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

## 5. STUDENT ASSISTANCE

### 5.1 AMBULANCE IN THE CAMPUS

It is said that health is a state of complete harmony of the body, mind and spirit. The Institute has tied up with reputed emergency response services for 24x7 medical support facilities. In case of an emergency, medical help is provided by an ambulance consisting of a paramedic officer with essential lifesaving equipment. If necessary, the patient is taken to the nearest hospital for further treatment.

### 5.2 FIRE SAFETY

Institute building has required fire-fighting equipments so as to comply with the municipal corporation norms. Our security personnel are trained to handle fire emergencies.

### 5.3 EVACUATION PLAN

In case of an emergency wherein you are required to evacuate the college premises, please do not panic. The Institute building has exit points. Well-planned evacuation routes are accessible to assist you. Your safety is a matter of great concern for us.

### 5.4 ACADEMIC ADVISOR / MENTOR

Counseling sessions and academic mentoring will ensure that students have a stress-free educational environment and are ably guided. Your academic mentor, who is a faculty member, will provide information regarding course offerings, attendance regulations, placement opportunities, and educational/career guidance in addition to providing counseling.

### 5.5 EMERGENCY PHONE NUMBERS

1	Police	Police...100 Fire... 101 Police Station (Dundigal)... 8418 - 255633 Police Control Room... 040 - 23232222
2	SHE Team	"SHE" Team... Cyberabad Police She teams, Whatsapp number: 94906 17444 Barosa& She Teams: 040 2785 2355
3	Ambulance	Free Service...108 Apollo Emergency... 1066 / 23548888 Malla Reddy Narayana Multi Specialty Hospital... 040 2378 3000 BBR Super Specialty Hospitals ... 040 - 33086065
4	Eye Banks	Eye Bank Association... 23545454 L V Prasad Eye Bank... 30612514 / 23608262 Sarojini Devi Eye Bank... 23317274 TL Kapadiya Eye Bank... 23317274
5	Medical Services (24hrs)	Mahavir Hospital...23393134 Niloufer Hospital...23394265 Gandhi Hospital .... 040 - 27505566 Osmania General Hospital... 24600121
6	24 Hours Pharmacy	Apollo Pharmacy...23231380 Health Pharmacy...23310618 Medwin Pharmacy...23202902 New City Hospital Pharmacy...55260004

## 5.6 CAREER DEVELOPMENT CENTRE

IARE has been consistently improving its placement record with more than 75% students being placed in various reputed organizations. The Career Development Cell (CDC) plays a pivotal role in building the career of aspiring engineers enabling them to hone their skills in order to reach their desired goals. Our industry-institute interactions have been instrumental in getting some of the renowned MNCs to the institute and conduct on campus recruitment drives.

CDC believes in combining the three facets that together spell success - Ability, Motivation and Attitude. To strengthen one's forte in today's ever challenging technical world, engineers require exemplary technical expertise combined with effective inter personal skills.

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.

### *Objectives:*

- To place final year students in respectable organizations through campus recruitment.
- To provide industrial training to students during their course of study.
- To organize lectures, seminars, group discussions, mock interviews etc. for career guidance, entrepreneurship and personality development.
- To provide information and assistance to students regarding opportunities for self-employment and job opportunities in India and abroad.
- To provide opportunities for higher studies in India and abroad.
- To prepare students for competitive examinations like GRE, GMAT, TOEFL, GATE, CAT etc.

### Our formula for student's employability

Quality Education + Employability Skill = Student Employability



Our Talent Team is a dedicated resource for students, and offers a range of services, including

- ✓ One-to-one support
- ✓ Drop-in sessions for CV, application and
- ✓ Personal statement checks
- ✓ Skills development sessions (200 hours)
- ✓ Mock interviews
- ✓ Assessment centre and psychometric testing training
- ✓ Employer networking events
- ✓ Placements and paid internship opportunities

### **An Impressive Array of Services**

The Institute facilitates hundreds of on-campus interview opportunities for positions spanning the globe and over a thousand electronic job postings specifically targeting our students each year. In addition, you are given the opportunity to interact with hiring managers and recruiters in more informal ways, including industry firm nights, career panels, corporate visits, alumni mixers, and job fairs.

### **A Personal Approach**

The Institute optimum class size allows career advisors to offer a personalized, hands-on approach to your career search. Our goal is to provide you with resources and opportunities to successfully match your skills and interests with an employer. We also offer a broad range of seminars, programs, and services from experienced advisors, coaches, managers, and practitioners at all stages of the career planning process.

The Institute maintains good relations with corporate houses and other prestigious institutions being a perfect host for educationists and entrepreneurs. Our placement team works round the year to ensure successful placements in esteemed organizations.

To strengthen one's forte in today's ever challenging technical world, engineers require exemplary technical expertise combined with effective inter personal skills.

Increasingly recognized by recruiters for its abundant talent pool and excellent facilities, IARE's placement process aims to match the requirements of recruiters and the aspirations of students.

### **SkillUP Program**

Only 5% students get placed in high impact salary jobs and this program ensures you are in that 5%. It is crafted to get students placed in these companies. Mastering Data structure/Algorithms, problem solving along with strong knowledge of required computer science subjects is a key to get placed in these companies and in this program students get proficient in all of these.

This program will help the students be able to easily solve problems asked in coding interviews of these companies. This program is designed for two years and three levels to meet the above mentioned company requirement. The students will be eligible to the next level only if they satisfy current program requirements.

### **SEED – (Skill Enhancement and Employment Development)**

Skill Enhancement and Employment Development (SEED) is the 6 months entry level program in SkillUP and this will start at the III semester. This program is mainly concentrated to excel in Coding and Data Structures.

### **STAR – (Set to Augment Result)**

Set to Augment Result (STAR) is the 6 months middle level program in SkillUP and this will start at the IV semester. STAR program is only open to the students who will complete the SEED program. This program is mainly concentrated to excel in Algorithms and Database Management Systems.

### **ZENITH PROGRAM**

ZENITH is the 12 months advance level program in SkillUP and this will start at the V semester. ZENITH program is only open to the students who will complete the STAR program. This program mainly concentrates on Internships, Coding interviews, Operating System and Computer Networks. ZENITH program shortlisted students spend 70% time with the training activities and also these students will get outside training from top industry people and top trending training institutes.

### **SkillBridge Program**

SDD team is continuously analyzing changes in the global market and industry's expectations. In today's world survival of the fittest is in trend, organizations are not only looking for individuals with a prescribed Technical skills set but more importantly individuals with a propensity to demonstrate 'Hard skills' efficiently. The SDD team has created a platform for students to hone their Employability skills along with Aptitude through various activities.

#### **1. Technical Skills**

With the fast paced growth in the software and hardware technology sector, companies and institutions will have to cope with the vast progress through providing its employees with the necessary technical training to improve their performance, and through adopting new practices to develop more competitive businesses. Technical training should be tailored to the set of skills required at the company or organization.

##### **Skills Covered**

- Graph Theory
- Python Programming
- Data Structures
- Algorithms
- Database Management Systems
- Operating Systems
- Computer Networks

#### **2. Aptitude Skills**

Companies nowadays provide adequate work-related training to their employees themselves, but they require the recruit to be competent and able enough to imbibe that training quickly and effectively. This is why aptitude skills have become an integral part of all recruitment processes. Aptitude Skills Enhancement Program of SDD enhances Numeric abilities, logical, critical and verbal reasoning along with the problem-solving capabilities of the students.

##### **Skills Covered**

- Logical reasoning
- Quantitative Mathematics
- Verbal Aptitude
- Verbal Reasoning
- Placement Aptitude

#### **3. Business English Language Skills**

SDD has taken a new initiative to enhance the language skills of each student. Proficiency in English language is absolutely essential for securing suitable employment, qualifying different competitive

exams and performing well at academics. Keeping these objectives in mind, a test was conducted. It was found out that a very large number of students required supplementary remedial English classes. Therefore, a very elaborate program has been designed to improve the linguistic skills of the students.

### **Skills Covered**

- Reading Comprehension
- Grammar
- Spoken English
- Written English

### **Skill Refresher Program**

Skill Refresher is a one month summer refresher program for VI semester Students. Aptitude, Technical Training, Communication Skills and Mock Interviews are the integral part of the selection procedure in almost all the MNC Companies. SDD Conducts Program for Students in a workshop mode, which helps students to revise, revives and re-construct their preparation in synchronize with industries demand

### **Student Mentoring in Life and Education (SMILE)**

SMILE understands that Counseling is the activity in which a counselor, or a professional who counsels people, especially on personal, career and behavior problems and difficulties. Individual Counseling is confidential short-term therapy available to all students at no charge. This center is operated by experienced counselors who are specifically appointed to help in all aspects.

We encourage you to take full advantage of the services we provide to support your IARE experience and your career development process. We will partner with you to develop an action plan for accomplishing your goals for both. There are benefits to developing a relationship with your career adviser as soon as your first year at IARE, we hope you'll visit early and often.

### **Programs Covered**

- ❖ Academic Counseling
- ❖ Career Counseling
- ❖ Personal Counseling

### **IARE Career Center Confidentiality Policy**

Most information shared in career advising appointments remains confidential. In specific circumstances, the Career Center may be required to break confidentiality to protect you or identified others from harm. IARE Career Center staff protects the privacy and security of student records.



## CAMPUS PLACEMENT DETAILS OF 2022 - 2023 STUDENTS

S.No	Name of the Company	Total Selections	Role	Salary Offered per Annum (₹)	No. of Selections
1	AMAZON	10	Support Engineer	17.38 Lakhs	6
			Support Engineer - Internship	17.1 Lakhs	1
			Quality Assurance Engineer - Internship	14.5 Lakhs	3
2	EPAM	11	Junior Software Engineer	12 Lakhs	11
3	AMADEUS	2	Software Engineer	11.50 Lakhs	2
4	JSW GROUP	4	Graduate Engineer Trainee	9.5 Lakhs	4
5	SEARS	34	Software Engineer	9 Lakhs	34
6	DBS Bank	13	Senior Software Engineer	8.9 Lakhs	13
7	ACCOLITE DIGITAL	3	Software Engineer	9 Lakhs	3
8	WILEY EDGE	1	Software Engineer	9 Lakhs	1
9	VIRTUSA	126	Power Developer	7 Lakhs	14
			Developer	6 Lakhs	112
10	LUMEN	4	Software Engineer	7.4 Lakhs	4
11	TATA CONSULTANCY SERVICES (TCS)	63	TCS-Digital	7 Lakhs	9
			TCS-Ninja	3.5 Lakhs	54
12	TATA ADVANCED SYSTEMS LIMITED	3	Software Engineer	5.0 Lakhs	3
13	TATA TECHNOLOGIES	6	Graduate Engineer Trainee	4.7 Lakhs	6
14	TATA POWER	1	Graduate Engineer Trainee	4.5 Lakhs	1
15	ACCENTURE	216	Adv Software Engineer	6.5 Lakhs	23
			Software Engineer	4.5 Lakhs	193
16	ERNST & YOUNG	38	Software Engineer	6.30 Lakhs	38
17	COGNIZANT	131	Gen C Next	6.50 Lakhs	Waiting
			Gen C Elevate	4.25 Lakhs	19
			Gen C	4 Lakhs	112
18	LTI	51	Adv Software Engineer	6.5 Lakhs	13
			Software Engineer	5 Lakhs	13
			Jr Software Engineer	4 Lakhs	25
19	DELOITTE	2	Software Engineer	4.5 Lakhs	2
20	HEXAWARE TECHNOLOGIES	7	Software Engineer	6 Lakhs	7
21	LEGATO HEALTH	5	Software Engineer	5.76 Lakhs	5
22	DXC TECHNOLOGY	219	Software Engineer	4.5 Lakhs	219

23	<b>TVARANA</b>	<b>4</b>	Trainee Technical/Functional Consultant (Netsuit)	4 Lakhs	4
24	<b>MPHASIS</b>	<b>4</b>	Software Engineer	3.25 Lakhs	4
25	<b>TECH MAHINDRA</b>	<b>5</b>	Software Engineer	5.5 Lakhs	5
26	<b>QUEST GLOBAL</b>	<b>4</b>	Graduate Engineer Trainee	3.25 Lakhs	4
27	<b>TECHNOVERT</b>	<b>6</b>	Software Engineer	6.5 Lakhs	6
28	<b>DELTAX</b>	<b>1</b>	Software Engineer	7 Lakhs	1
29	<b>BYTERIDGE</b>	<b>1</b>	Software Engineer	5.33 Lakhs	1
30	<b>SMARTSOC SOLUTIONS</b>	<b>1</b>	Software Engineer	4.5 Lakhs	1
31	<b>CES IT</b>	<b>5</b>	Software Engineer	3.5 Lakhs	5
32	<b>YAMAHA</b>	<b>20</b>	Operator Trainee	3 Lakhs	20
33	<b>ACADEMOR</b>	<b>27</b>	Academic Counsellor	5 Lakhs	27
34	<b>VERZEO</b>	<b>5</b>	Business Development Trainee	4 Lakhs	5
<b>Total</b>					<b>1033</b>

### 5.7 CAREER COUNSELING

The Institute provides career counseling and academic counseling to all students. Mentors / Counselors can provide you with educational and career information. Special seminars are held in pre-final year for the information about various career options after graduation. Two special programs like (1) Jaan-Pehchan (2) Darpan to be conducted in the institute for each and every student.

### 5.8 PROFICIENCY TESTS: THE WEEK END INTERNET BASED TESTS

Proficiency Tests are taken from home online. These are weekend tests conducted on Sundays from 9 AM to 9 PM. Proficiency tests assess the student's knowledge acquired on Aptitude, English, C and Java programming. Students taking 50% of tests with 60% of marks are waved from the payment of PAT training fee.

### 5.9 BUILDIT GO-LAB

An online learning, assessment and evaluation platform (Programming, Aptitude, English Language (Grammar and Vocabulary) and Essay/Email writing), focused on helping the students to clear initial screening tests of campus recruiters in an automated way.

### 5.10 BOOTCAMP PROGRAM

BOOTCAMP is a technical training program that helps students of all backgrounds to enhance the technical skills that employers look for. We are offering 13 courses in various engineering streams for 30 days. Students can choose any one course based on their interest and prior knowledge. Maximum intake for each course is 30 and the selection is based on first come first serve registrations.

## 6. STUDENT ACTIVITIES

### 6.1 CO-CURRICULAR AND EXTRACURRICULAR ACTIVITIES

IARE has always encouraged the students to give expression to their talents and creativity by organizing cultural and sports-related activities and events. The student coordinators manage the activities under the guidance of the convener. Students also get to prove their mettle by participating in the sports and cultural meets of other colleges.

The Institute has indoor as well as outdoor sports facilities on two playgrounds in the campus. The Sports Committee arranges tournaments in carom, chess, table tennis, football, volleyball, cricket, kho-kho, kabaddi, throwball, etc.

### 6.2 NEWSLETTER - THE COMPEDIUM

The Compendium, recognizing the need to provide students with broader perspectives on campus issues, world and national issues related to technology and career planning, Institute has started a newsletter.

#### It has three objectives-

- Enhancing the learning environment on campus
- Acquainting students with national and world events and
- Encouraging a readership habit

### 6.3 STUDENT PROFESSIONAL CHAPTERS

Each department has set up its own society. It organizes various programs like expert lectures, workshops, seminars in it's their field of study.

#### STUDENT CHAPTERS

- Institute of Electrical and Electronics Engineers
- Association for Computing Machinery
- Institution of Electronics and Telecommunication Engineers
- Indian Society for Technical Education
- Computer Society of India
- Society of Aerospace Engineers
- American Society of Civil Engineers
- Indian Concrete Institute
- Institution of Engineers India
- American Society of Mechanical Engineers
- The Institution of Mechanical Engineers

### 6.4 ALUMNI ASSOCIATION

IARE Alumni Association aims to foster interactions and reinforce the bonds between alumni and the Institute through athletic and cultural activities, educational programs, and social services to nurture mutually beneficial relationships. It makes the Institute proud to know that its alumni are successful in their lives and careers by dint of their endeavors. The date and time of the meet will be well publicized and beforehand preparations are made for the success of the meet.

**Weblink: [iare.ac.in/?q=node/3088](http://iare.ac.in/?q=node/3088)**

## 6.5 SOCIAL RESPONSIBILITY – NSS

The National Service Scheme (NSS) has been functioning with the motto “NOT ME BUT YOU” in view of making the youth inspired in service of the people and hence NSS aims education through community service and community service through education. NSS undertakes various activities like tree plantation, blood donation camps, disaster management, national integration camps, immunization, adventure programs, etc.

We are proud to note that until this academic year, the NSS units of our institution have conducted the mega and highly useful “Blood Donation Camps”.

## 6.6 COMMITTEES AT IARE

IARE has constituted a number of committees to provide a platform and opportunities for development of the faculty and staff which ultimately will benefit the students at the Institute.

**The following committees are formed they are.**

### 6.6.1 DISCIPLINARY COMMITTEE

The committee focuses on discipline related issues of the students and resolves the issues by suitable awareness drives, students counseling, monitoring, and control. The members also study the case of indiscipline and send the final report to the Principal for necessary action.

S.No	Name	Designation	Department	Responsibility
1	Dr. D Govardhan	Professor and Head	AE	Convener
2	Dr. P Sridhar	Professor	EEE	Co-Convener
3	Dr P Ashok Babu	Professor and Head	ECE	Member
4	Dr. M Purushotham Reddy	Professor and Head	IT	Member
5	Dr. B D Y Sunil	Associate Professor	MECH	Member
6	Mr. G Sarat Raju	Assistant Professor	MECH	Member
7	Mr. A Srikanth	Assistant Professor	EEE	Member
8	Mr. B Naresh	Assistant Professor	ECE	Member

### 6.6.2 ANTI-RAGGING COMMITTEE

The committee focuses on anti-ragging issues of the students and resolves the issues by suitable awareness drives, students counseling, monitoring, and control.

S No	Name	Designation	Department	Responsibility
1	Dr. L V Narasimha Prasad	Principal	CSE	Chairperson
2	Dr. D Govardhan	Professor and Head	AE	Convener
3	Dr. C Madhusudhana Rao	Professor and Head	CSE	Member
4	Dr. M Purushotham Reddy	Professor and Head	IT   CSIT	Member
5	Dr. P Munaswamy	Professor and Head	ECE	Member

6	Dr. Ch Sandeep	Professor and Head	MECH	Member
7	Dr V Chandra Jagan Mohan	Associate Professor and Head	EEE	Member
8	Dr. R Ramya Swetha	Assistant Professor and Head	CE	Member
9	Dr. P Ashok Babu	Associate Professor	CSE (AI&ML)   CSE (CS)	Member
10	Dr. G Sucharitha Reddy	Associate Professor and Head	CSE (DS)	Member
11	Dr. T Vara Lakshmi	Professor and Head	MBA	Member
12	Dr. V V S H Prasad	Professor and Head	Mathematics	Member
12	Dr. Rizwana	Professor and Head	Physics	Member
13	Dr. V Anitha Rani	Associate Professor & Head	Chemistry	Member
14	Dr. Jetty Wilson	Associate Professor & Head	English	Member

### 6.6.3 OTHER COMMITTEE DETAILS

S.No	Name	Designation	Department	Name of the Committee	Responsibility
1	Dr. L V Narasimha Prasad	Principal	CSE	Staff Selection	Chairman
2	Dr. P Sridhar	Professor	EEE	Internal Quality Assurance Centre (IQAC)	Convener
3	Dr. M Pala Prasad Reddy	Professor	EEE	Placement and Training	Convener
4	Ms. K Lakshmi Revathi	Associate Professor	MBA	Internal Complaint Committee	Convener
5	Dr. B D Y Sunil	Associate Professor	ME	Research and Development	Convener
6	Dr. Ranjith Kumar Gatla	Associate Professor	EEE	Intellectual Property Rights	Convener
7	Dr. K. Raghu Ram Mohan Reddy	Associate Professor	CIVIL	Innovation Steering	Convener
8	Dr. Shaik Jakeer Hussain	Professor	CSE (AI&ML)	Start-Up Park & Incubation	Convener
9	Dr. J Sirisha Devi	Professor	CSE	Career counseling and Entrepreneurship Development	Convener
10	Mr. A Srikanth	Assistant Professor	EEE	Information and Communications Technology	Convener
11	Ms. K Lakshmi Revathi	Assistant Professor	CSE	Women Welfare and Protection	Convener
12	Dr. Rizwana	Professor	PHYSICS	Collegiate Women's Development	Convener
13	Dr. M Purushotham Reddy	Professor and Head	IT	Staff Grievances Redressal	Convener
14	Dr. V Padmanabha Reddy	Professor	IT	Students Grievances Redressal	Convener
15	Dr. B D Y Sunil	Associate Professor	ME	Social Welfare (SC/ST)	Convener

16	Dr. D Shobha Rani	Professor	EEE	Cultural	Convener
17	Dr. J Suresh Goud	Associate Professor and Head	MATHS	Admission	Convener
18	Dr. D Govardhan	Professor and Head	AE	Canteen Coordination	Convener
19	Dr. B D Y Sunil	Associate Professor	ME	Research Ethics and Advisory	Convener
20	Dr. Surekha Reddy Bandela	Assistant Professor	ECE	Outreach and Inclusivity	Convener

For more details visit  
<https://www.iare.ac.in/?q=pages/statutory-and-institute-level-committees>

## 6.7 STUDNT CLUBS

Academic grades are imperative for job applications and career success, many employers are also looking for well-rounded candidates with demonstrated participation in extra-curricular activities. IARE provide students with both academic and non-academic clubs, to promote personal and professional development.

“Participation in the work of various clubs on campus provides students an opportunity to acquire leadership, planning, and social skills that are important for successful living.”

### BENEFITS

IARE not only provides career opportunities to students but also improves them with personal and social skills, enhancing the overall collegiate experience. Clubs and extra-curricular activities are “extremely important in helping students develop lifelong good working habits which hone their communication skills and foster creative thinking. Students can learn valuable character traits such as pride and productivity and also work as part of a team towards a common goal.

In addition to helping foster practical skills such as time management, leadership, and responsibility, extra-curricular activities allow students to “test the waters” and explore new areas of interest. Additionally, successfully balancing the time commitments involved in participating in clubs with those necessary to maintain good grades helps prepare students for balancing the demands of a career, family and other life obligations.

### LIST OF CLUBS AT IARE CAMPUS

S.No	Name of Club	Faculty Coordinator	Student Coordinators
<b>Community Service Clubs</b>			
1	National Service Scheme (NSS)	Dr. J Suresh Goud	Pagadala Reddy Sai Kishore 20951A0224
2	Club of Street Cause	Dr. B Surekha Reddy	Shaik Jahangir Aslam 20951A3347
3	Club of Women Empowerment	Ms. K L Revathi	Teddy Srujana 20951A2190
4	Club of Electoral Literacy	Mr. Vijay Krishna	Pepakayala Trinadh 20951A0232
<b>Technical Clubs</b>			
5	Club of Entrepreneurship	Dr. Raghu Ram Mohan Reddy	Ramarapu Manish Sagar 20951A0582

6	Club of Literary (Citadel)	Ms. K Anjali	Marripalepu Srihimamshu 21951A66F9
7	Club of Compendium	Ms. S Shireesha	Borra Mythri 20951A1246
8	Club of Google Developers	Dr. P L Srinivas Murthy	TNS Charishma 21951A3323

#### **Cultural Clubs**

9	Club of Fine Arts	Dr. B Aslesha	Katuri Sai Sahasra 20951A3344
10	Club of Dance (Plugs)	Dr. Sayanthi Chatterjee	Manyamolla Harshitha 20951A0550
11	Club of Music (Rhapsody)	Dr. P Teja	Kancharla Aashish Kumar 21951A6601
12	Club of Photography and Film	Mr. M Geetha Yadhav	Kanugula Samyuktha 21951A6248
13	Club of Foodies (Bakasura)	Mr. N Suresh	Mangalampally Venkata Nagasree 20951A6757
14	Sports Club	Mr. A Srikanth	Pathakoti Saketh 21951A2188
15	N2O Factory (Comedy Club)	Mr. N Suresh	M Adhitya 21951A6605

#### **Professional Networking for Engineers**

16	CSI	Dr. B Padmaja	--
17	IEI	Dr. P L Srinivasa Murthy	--
18	ISTE	Dr. P L Srinivasa Murthy	--
19	IETE	Dr. G Mary Swarna Latha	--
20	ACM	Dr. Sreelakshmi Doma	--
21	IMechE	Mr. C Labesh Kumar	--
22	SAE (Mechanical)	Dr. Ch.Sandeep	--
23	SAE (Aeronautical)	Mr. A Rathan Babu	--
24	AIMS	Dr. K. Jagannayaki	--
	IEEE	Dr. Ranjith Kumar Gatla	--
25	IEEE(CS)	Dr. Ravi Kumar Poluru	--
	IEEE(PES)	Dr. P Sridhar	--
26	CISCO NET ACAD	Dr. Sajja Suneel	

## 6.8 PHONE DIRECTORY

Below is the list of some of the most commonly requested telephone numbers and E-mail addresses in the IARE.

Name and Responsibility	E-mail	Phone Number
<b>Dr. L V Narasimha Prasad</b> Principal	principal@iare.ac.in	040-29709851, 9703618753
<b>Dr. P Sridhar</b> Dean of Internal Quality Assurance Centre (IQAC)	iqac@iare.ac.in	8886023000
<b>Dr. Y Mohana Roopa</b> Dean of Strategy Development and Finance (SDF)	dean-sdd@iare.ac.in	9573988829
<b>Prof. G Chandra Sekhar</b> Dean of Academics	academic@iare.ac.in	9703618749
<b>Dr. V Padmanabha Reddy</b> Dean of Planning, Monitoring & Continuing Studies	pmcs@iare.ac.in	9490244578
<b>Dr. CH Srinivasulu</b> Dean of Outcome Based Teaching and Learning (OBTL)	dean-clet@iare.ac.in	9052441559
<b>Dr. GVR Seshagiri Rao</b> Dean of Internal Audit and Policies	dean-audit@iare.ac.in	9490074689
<b>Dr. D Shobha Rani</b> Controller of Examinations (COE)	coe@iare.ac.in	040-29705856, 9885565674
<b>Dr. A Krishna Chaitanya</b> Additional Controller of Examinations (ACOE)	acoe2@iare.ac.in	040-29705856, 9949122135
<b>Dr. B D Y Sunil</b> Dean of Academic Research - A Division of R&D	research@iare.ac.in	9949900490
<b>Dr. K Rajendra Prasad</b> Dean of Sponsored Research - A Division of R&D	dr.rajendraprasad@iare.ac.in	9618614555
<b>Dr. Praveen Kumar Balguri</b> Dean of Research Impact & Perception - A Division of R&D	dean-ric@iare.ac.in	9789080024
<b>Dr. Ranjith Kumar Gatla</b> Dean of Intellectual Property Management & Commercialization - A division of R&D	ipr@iare.ac.in	9966959593

<b>Dr. P L Srinivasa Murthy</b> Dean of Industry Institute Interface Centre (IIIC)	<a href="mailto:dean-iiic@iare.ac.in">dean-iiic@iare.ac.in</a>	9989885556
<b>Dr. K. Raghu Ram Mohan Reddy</b> Dean of Technology Innovation and Incubation Center	k.raghurammohanreddy@iare.ac.in	6281006831
<b>Dr Shaik Jakeer Hussain</b> Dean of Start-Up Enclave	sk.jakeerhussain@iare.ac.in	9912721786
<b>Dr. P Reddy Prasad</b> Dean of International Relations and Higher Studies	dean-sa@iare.ac.in	9490830886
<b>Dr. B Surekha Reddy</b> Dean of Outreach, Inclusivity, Extension Activities, Environment and Sustainability	dean_ia@iare.ac.in	9490809185
<b>Dr. B Padmaja</b> Dean of Career Development Centre	b.padmaja@iare.ac.in	9618150625
<b>Dr. J Sirisha Devi</b> Dean of Career Counseling and Guidance	j.sirishadevi@iare.ac.in	7093086402
<b>Dr. J Suresh Goud</b> Dean of Student Services	j.sureshgoud@iare.ac.in	9966239198
<b>Dr. Pacha Govardhan</b> Advisor - Academics	p.govardhan@iare.ac.in	9848869010
<b>Dr. B Polaiah</b> Dean of Content Development and Publishing (CDP)	b.polaiah@iare.ac.in	8522870911
<b>Mr. A Srikanth</b> Information and Communications Technology (ICT) Officer Student Attendance and ID card Services	dean-ict@iare.ac.in	8008494843
<b>Ms. I Shireesha</b> Brand Building, Media, Publicity, Advertising and Vigilance Officer	digitalmedia@iare.ac.in   vigilance@ iare.ac.in	8790060284
<b>Mr. E Krishna Rao Patro</b> Software Development and Deployment Officer	patro@iare.ac.in	9701037695
<b>Dr. M Purushotham Reddy</b> Dean of Human Resources Head - Information Technology & Computer Science and Information Technology	hod-it@iare.ac.in hod-csit@iare.ac.in	9885423370
<b>Dr. U Sivaji</b> Deputy Head - Information Technology	u.sivaji@iare.ac.in	9849583915

(IT)		
<b>Dr. C Madhusudhana Rao</b> Head - Computer Science and Engineering (CSE)	hod-cse@iare.ac.in cmrao@iare.ac.in	9959990001
<b>Dr. M Lakshmi Prasad</b> Deputy Head - Computer Science and Engineering (CSE)	m.lakshmiPrasad@iare.ac.in	8121979497
<b>Dr. G Mary Swarna Latha</b> Head – Computer Science and Engineering (CSE) Class of 2023	g.maryswarnalatha@iare.ac.in	7893430058
<b>Dr. P Ashok Babu</b> Head -CSE (AI&ML)   Head -CSE (Cyber Security)	hod-aiml@iare.ac.in	9848898290
<b>Dr. M Nagaraju</b> Deputy Head - CSE (AI&ML)	m.nagaraju@iare.ac.in	9441168122
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<b>Dr. Yagya Dutta Dwivedi</b> Deputy Head - Aeronautical Engineering	yagyadutta.dwivedi@iare.ac.in	8555815261
<b>Dr. Ch Sandeep</b> Head - Mechanical Engineering	hod-me@iare.ac.in	9985821449
<b>Dr. R Ramya Swetha</b> Head - Civil Engineering	hod-ce@iare.ac.in	9989338686

<b>Dr. U Vamsi Mohan</b> Deputy Head - Civil Engineering	u.vamshimohan@iare.ac.in	9866313532
<b>Dr. V Anitha Rani</b> Head - Department of Chemistry	v.anitharani@iare.ac.in	9177845484
<b>Dr. Rizwana</b> Head - Department of Physics	dr.rizwana1@iare.ac.in	9959562810
<b>Dr. Jetty Wilson</b> Head - Department of English	jettywilson@iare.ac.in	8106154943
<b>Dr. Vara Lakshmi Thavva</b> Head - Master of Business Administration	hod-mba@iare.ac.in t.varalakshmi@iare.ac.in	8639418996
<b>Dr. K Jagannayaki</b> Deputy Head- Master of Business Administration	hod-mba@iare.ac.in k.jagannayaki@iare.ac.in	9848837510
<b>Dr. M Pala Prasad Reddy</b> Placement and Training Officer	pat@iare.ac.in	9491602701
<b>Dr. V Padmanabha Reddy</b> I/C Grievances and Redressal	dean-grc@iare.ac.in	9490244578
<b>Mr. N Rajasekhar</b> Information Technology Infrastructure Management Services Officer	itims@iare.ac.in	9533893585
<b>Mr. B Raju</b> Admissions Officer	dean-admissions@iare.ac.in	9866398700, 8886234502
<b>Ms. K Lakshmi Revathi</b> Women Protection and Empowerment Officer	k.lakshmirevathi@iare.ac.in	9550041819
<b>Mr. A Sathish Kumar</b> Alumni Engagement Officer	a.satishkumar@iare.ac.in	9704227374
<b>Mr. K Venkat Rao</b> System Administrator & Online Services	systemadmin@iare.ac.in	9490319033
<b>Mr. P Rajesh</b> Administrative Officer (Administration)	pro@iare.ac.in	9581241234
<b>Mr. D Narayana Rao</b> Finance Officer	aao@iare.ac.in	9985821456
<b>Ms. Zeba Farooq</b> AAO, Establishment	zeba@iare.ac.in	9985821452
<b>Mr. B Siva Bala Rama Prasad</b> I/C, Scholarships	scholarship@iare.ac.in	9866383999
<b>Ms. K Bhagyalaxmi</b> AAO, Student Affairs	sa@iare.ac.in	9951232519

<b>Mr. B Satyanarayana</b> Librarian	library@iare.ac.in	8463927364
<b>Mr. S Ravikanth</b> I/C Transport & Logistics	transport@iare.ac.in	9985821460
<b>Mr. D Ravinder</b> I/C Transport & Logistics	transport@iare.ac.in	9391290660
<b>Mr. C Srisailam</b> I/C Transport & Logistics	transport@iare.ac.in	9885291907

**DEPARTMENT WISE**  
**VISION & MISSION, PEO's, POs and PSOs**

## AERONAUTICAL ENGINEERING

### Vision and Mission

#### VISION

To build a strong community of dedicated graduates with expertise in the field of aeronautical science and engineering suitable for industrial needs having a sense of responsibility, ethics and ready to participate in aerospace activities of national and global interest.

#### MISSION

To actively participate in the technological, economic and social development of the nation through academic and professional contributions to aerospace and aviation areas, fostering academic excellence and scholarly learning among students of aeronautical engineering.

B.TECH (AERO) - PROGRAM EDUCATIONAL OBJECTIVES (PEO's)	
A graduate of Institute of Aeronautical Engineering in Aeronautical Engineering discipline should have a successful career in Aeronautical Engineering or a related field, and within three to five years, should attain the following:	
<b>PEO - I</b>	To prepare and provide student with an academic environment for students to excel in postgraduate programs or to succeed in industry / technical profession and the life-long learning needed for a successful professional career in Aeronautical Engineering and related fields ( <b>Preparation &amp; Learning Environment</b> ).
<b>PEO - II</b>	To provide students with a solid foundation in mathematical, scientific and engineering fundamentals required to solve engineering problems and also to pursue higher studies ( <b>Core Competence</b> ).
<b>PEO - III</b>	To train students with good scientific and engineering breadth so as to comprehend, analyze, design, and create novel products and solutions for the real life problems ( <b>Breadth</b> ).
<b>PEO - IV</b>	To inculcate in students professional and ethical attitude, effective communication skills, teamwork skills, multidisciplinary approach, and an ability to relate engineering issues to broader social context ( <b>Professionalism</b> ).
B.TECH (AERO) - PROGRAM OUTCOMES (PO's)	
<b>P01:</b>	<b>Engineering knowledge:</b> Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
<b>P02:</b>	<b>Problem Analysis:</b> Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
<b>P03:</b>	<b>Design/development of solutions:</b> Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
<b>P04:</b>	<b>Conduct investigations of complex problems:</b> Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
<b>P05:</b>	<b>Modern tool usage:</b> Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

<b>P06:</b>	<b>The engineer and society:</b> Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
<b>P07:</b>	<b>Environment and sustainability:</b> Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
<b>P08:</b>	<b>Ethics:</b> Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
<b>P09:</b>	<b>Individual and team work:</b> Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
<b>P010:</b>	<b>Communication:</b> Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
<b>P011:</b>	<b>Project management and finance:</b> Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
<b>P012:</b>	<b>Life-long learning:</b> Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.
<b>B.TECH (AERO) - Program Specific Outcomes (PSO's):</b>	
<b>PSO1:</b>	Build the prototype of UAVs and aero-foil models for testing by using low speed wind tunnel towards research in the area of experimental aerodynamics.
<b>PSO2:</b>	Focus on formulation and evaluation of aircraft elastic bodies for characterization of aero elastic phenomena.
<b>PSO3:</b>	Make use of multi physics, computational fluid dynamics and flight simulation tools for building career paths towards innovative startups, employability and higher studies.

## MECHANICAL ENGINEERING

### Vision and Mission

#### VISION

The Department of Mechanical Engineering envisions value based education, research and development in the areas of Manufacturing and Computer Aided Engineering as an advanced center for Mechanical Engineering, producing graduates of world-class competence to face the challenges of global market with confidence, creating effective interface with various organizations.

#### MISSION

The mission of the Mechanical Engineering Department is to prepare effective and responsible engineers for global requirements by providing quality education and to improve pedagogical methods employed in delivering the academic programs to the needs of the industry and changing world by conducting basic and applied research and to generate intellectual property.

OR

M1: Prepare effective and responsible engineers for global requirements by providing quality education.

M2: Improve pedagogical methods employed in delivering academic program to the needs of the industry, prepare for higher education and building entrepreneurship.

M3: Conduct basic and applied research to generate intellectual property and adapt to professional standards.

#### B. TECH (MECH) - PROGRAM EDUCATIONAL OBJECTIVES (PEO's)

A graduate of Institute of Aeronautical Engineering College, Mechanical Engineering should enjoy a successful career in Mechanical Engineering or a related field after graduation. The program aims to:

<b>PEO - I</b>	<i>To provide students with a sound foundation in the mathematical, scientific and engineering fundamentals necessary to formulate, solve and analyze engineering problems.</i>
<b>PEO - II</b>	<i>To prepare students for successful careers in industry that meet the needs of local, Indian and multinational companies.</i>
<b>PEO - III</b>	<i>To develop the ability among students to synthesize data and technical concepts for application to product design and prepares students to work as part of teams on multidisciplinary projects.</i>
<b>PEO - IV</b>	<i>To promote student awareness for life-long learning and to introduce them to codes of professional practice, ethics and prepare them for higher studies.</i>

#### B. TECH (MECH) - PROGRAM OUTCOMES (PO's)

A graduate of the Mechanical Engineering Program will demonstrate:

<b>PO1:</b>	<b>Engineering knowledge:</b> Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
<b>PO2:</b>	<b>Problem analysis:</b> Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences
<b>PO3:</b>	<b>Design/development of solutions:</b> Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate

	consideration for the public health and safety, and the cultural, societal, and environmental considerations.
<b>P04:</b>	<b>Conduct investigations of complex problems:</b> Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
<b>P05:</b>	<b>Modern tool usage:</b> Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
<b>P06:</b>	<b>The engineer and society:</b> Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
<b>P07:</b>	<b>Environment and sustainability:</b> Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
<b>P08:</b>	<b>Ethics:</b> Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
<b>P09:</b>	<b>Individual and team work:</b> Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
<b>P010:</b>	<b>Communication:</b> Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
<b>P011:</b>	<b>Project management and finance:</b> Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
<b>P012:</b>	<b>Life-long learning:</b> Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.
<b>B. TECH (MECH) - Program Specific Outcomes (PSO's):</b>	
<b>PSO1:</b>	Focus on Ideation and Research towards Digital manufacturing in Product development using Additive manufacturing, Computer Numerical Control (CNC) simulation and high speed machining.
<b>PSO2:</b>	Formulate and Evaluate concepts of Thermo-Fluid Systems to provide solutions for Inter Disciplinary Engineering Applications.
<b>PSO3:</b>	Make use of Computational and Experimental tools for Building Career Paths towards Innovation Startups, Employability and Higher Studies.

## CIVIL ENGINEERING

### Vision and Mission

#### VISION

To produce eminent, competitive and dedicated civil engineers by imparting latest technical skills and ethical values to empower the students to play a key role in the planning and execution of infrastructural & developmental activities of the nation.

#### MISSION

To provide exceptional education in civil engineering through quality teaching, state-of-the-art facilities and dynamic guidance to produce civil engineering graduates, who are professionally excellent to face complex technical challenges with creativity, leadership, ethics and social consciousness.

OR

M1: Provide exceptional education in civil engineering through quality teaching, state-of-the-art facilities and dynamic guidance.

M2: Produce civil engineering graduates, who are skillfully excellent.

M3: Encourage professionally to face complex technical challenges and entrepreneurship with creativity, leadership, ethics and social consciousness.

#### B. TECH (CE) - PROGRAM EDUCATIONAL OBJECTIVES (PEO's)

The current Civil Engineering program educational objectives were developed as part of the program's ongoing efforts to maintain through innovation in undergraduate program that meets the needs of our constituents. The current educational objectives of the Civil Engineering program are:

<b>PEO - I</b>	<i>To impart proficiency in engineering knowledge and skills to analyze, design, build, maintain, or improve civil engineering based systems. (Professional Excellence)</i>
<b>PEO - II</b>	<i>To offer broad education and practical skills so that the students can carry out technical investigations within realistic constraints such as economic, environmental, societal, safety and sustainability. (Understanding Socio-Economic Aspects)</i>
<b>PEO - III</b>	<i>To impart ability to collaborate with and function on multidisciplinary teams to offer engineering solutions to the society (Technical Collaboration)</i>
<b>PEO - IV</b>	<i>To create interest in the students to engage in life-long learning in advanced areas of civil engineering and related fields. (Continued Self-Learning)</i>
<b>PEO - V</b>	<i>To educate the students in ethical values and social responsibility to use engineering techniques and modern tools necessary for civil engineering practice to serve the society effectively. (Effective Contribution to Society)</i>

#### B. TECH (CE) - PROGRAM OUTCOMES (PO's)

A graduate of the Civil Engineering Program will demonstrate:

<b>P01:</b>	<b>Engineering knowledge:</b> Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
<b>P02:</b>	<b>Problem analysis:</b> Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences

<b>P03:</b>	<b>Design/development of solutions:</b> Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
<b>P04:</b>	<b>Conduct investigations of complex problems:</b> Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
<b>P05:</b>	<b>Modern tool usage:</b> Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
<b>P06:</b>	<b>The engineer and society:</b> Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
<b>P07:</b>	<b>Environment and sustainability:</b> Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
<b>P08:</b>	<b>Ethics:</b> Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
<b>P09:</b>	<b>Individual and team work:</b> Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
<b>P010:</b>	<b>Communication:</b> Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
<b>P011:</b>	<b>Project management and finance:</b> Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
<b>P012:</b>	<b>Life-long learning:</b> Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

#### B. TECH (CE) - PROGRAM SPECIFIC OUTCOMES (PSO's)

A graduate of the Civil Engineering Program will demonstrate:

<b>PSO1:</b>	Design and Supervise Sub-Structures and Super Structures for Residential and Public Buildings, Industrial Structures, Irrigation Structures, Power Houses, Highways, Railways, Airways, Docks and Harbours.
<b>PSO2:</b>	Focus on Improving Performance of Structures with reference to Safety, Serviceability and Sustainable Green Building Technology.
<b>PSO3:</b>	Make use of Advanced Structural Analysis and Project Management Software for creating Modern Avenues to succeed as an Entrepreneur, Pursue Higher Studies and Career Paths.

## ELECTRONICS AND COMMUNICATIONS ENGINEERING

### Vision and Mission

#### VISION

To produce professionally competent engineers, innovators and entrepreneurs capable of effectively addressing the technical challenges with social responsibility and professional ethics.

#### MISSION

To provide an academic environment that will ensure high quality education, training and research by keeping students abreast of latest research and innovations in science and technology aimed at promoting employability, entrepreneurship, leadership qualities with ethics and research attitude.

OR

M1: To provide an academic environment that will ensure high quality education, training and research.

M2: To keep the students abreast of latest research and innovations in science and technology.

M3: To promote employability, entrepreneurship, leadership qualities with ethics and research attitude

#### B. TECH (ECE) - PROGRAM EDUCATIONAL OBJECTIVES (PEO's)

A graduate of the Electronics and Communication Engineering Program should:

<b>PEO - I</b>	<b>Success in Professional career:</b> To make the students to excel in professional career in applied research by acquiring the knowledge in electronics, basic sciences and professional skills through rigorous learning.
<b>PEO - II</b>	<b>Design/Development of Solutions:</b> To prepare the students to analyze real life problems and design socially accepted and economically feasible solutions in the chosen field of engineering or other fields.
<b>PEO - III</b>	<b>Lifelong learning and Research:</b> To involve the students in lifelong learning and professional development by pursuing higher education and participation in research and development activities to integrate engineering issues to broader social contexts.
<b>PEO - IV</b>	<b>Communication skills and Leadership:</b> To exhibit effective communication skills in their professional career, lead a team with good leadership traits and good interpersonal relationship with the members related to other engineering streams.

#### B. TECH (ECE) - PROGRAM OUTCOMES (PO's)

A graduate of the Electronics and Communication Engineering Program will demonstrate:

<b>PO1:</b>	<b>Engineering knowledge:</b> Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
<b>PO2:</b>	<b>Problem analysis:</b> Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences
<b>PO3:</b>	<b>Design/development of solutions:</b> Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
<b>PO4:</b>	<b>Conduct investigations of complex problems:</b> Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

<b>P05:</b>	<b>Modern tool usage:</b> Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
<b>P06:</b>	<b>The engineer and society:</b> Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
<b>P07:</b>	<b>Environment and sustainability:</b> Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
<b>P08:</b>	<b>Ethics:</b> Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
<b>P09:</b>	<b>Individual and team work:</b> Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
<b>P010:</b>	<b>Communication:</b> Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
<b>P011:</b>	<b>Project management and finance:</b> Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
<b>P012:</b>	<b>Life-long learning:</b> Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.
<b>B. TECH (ECE) - PROGRAM SPECIFIC OUTCOMES (PSO's)</b>	
A graduate of the Electronics and Communication Engineering Program will demonstrate:	
<b>PS01:</b>	Build Embedded Software and Digital Circuit Development platform for Robotics, Embedded Systems and Signal Processing Applications.
<b>PS02:</b>	Focus on the Application Specific Integrated Circuit (ASIC) Prototype designs, Virtual Instrumentation and System on Chip (SOC) designs.
<b>PS03:</b>	Make use of High Frequency Structure Simulator (HFSS) for modeling and evaluating the Patch and Smart Antennas for Wired and Wireless Communication Applications.

## ELECTRICAL AND ELECTRONICS ENGINEERING

### Vision and Mission

#### VISION

To produce comprehensively trained, socially responsible, innovative electrical engineers and researchers of high quality who can contribute for the nation's and global development.

#### MISSION

The mission of Electrical and Electronics Engineering is to provide academic environment with a strong theoretical foundation, practical engineering skills, experience in interpersonal communication and teamwork along with emphasis on ethics, professional conduct and critical thinking. Further, the graduates will be trained to have successful engagement in research and development and entrepreneurship.

### B. TECH (EEE) - PROGRAM EDUCATIONAL OBJECTIVES (PEO's)

A graduate of the Electrical and Electronics Engineering Program should:

<b>PEO - I</b>	<b>Success in Electrical Engineering:</b> To provide students with the knowledge of Basic Sciences in general and Electrical and electronics Engineering in particular so as to acquire the necessary skills for analysis and synthesis of problems in generation, transmission and distribution.
<b>PEO - II</b>	<b>Industrial awareness and research:</b> To provide technical knowledge and skills to identify, comprehend and solve complex tasks in industry and research and inspire the students to become future researchers / scientists with innovative ideas.
<b>PEO - III</b>	<b>Successful employment and professional ethics:</b> To prepare the students for successful employment in various Industrial and Government organizations, both at the National and International level, with professional competence and ethical administrative acumen so as to handle critical situations and meet deadlines.
<b>PEO - IV</b>	<b>Being an leader professional and societal environment:</b> To train the students in basic human and technical communication skills so that they may be both good team-members, leaders and responsible citizen.

### B. TECH (EEE) - PROGRAM OUTCOMES (PO's)

A graduate of the Electrical and Electronics Engineering Program will demonstrate:

<b>PO1:</b>	<b>Engineering knowledge:</b> Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
<b>PO2:</b>	<b>Problem analysis:</b> Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences
<b>PO3:</b>	<b>Design/development of solutions:</b> Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
<b>PO4:</b>	<b>Conduct investigations of complex problems:</b> Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
<b>PO5:</b>	<b>Modern tool usage:</b> Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

<b>P06:</b>	<b>The engineer and society:</b> Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
<b>P07:</b>	<b>Environment and sustainability:</b> Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
<b>P08:</b>	<b>Ethics:</b> Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
<b>P09:</b>	<b>Individual and team work:</b> Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
<b>P010:</b>	<b>Communication:</b> Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
<b>P011:</b>	<b>Project management and finance:</b> Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
<b>P012:</b>	<b>Life-long learning:</b> Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

#### B. TECH (EEE) - PROGRAM SPECIFIC OUTCOMES (PSO's)

A graduate of the Electrical and Electronics Engineering Program will demonstrate:

<b>PSO1:</b>	Design, Develop, Fabricate and Commission the Electrical Systems involved in Power generation, Transmission, Distribution and Utilization.
<b>PSO2:</b>	Focus on the Components of Electrical Drives with its Converter Topologies for Energy Conversion, Management and Auditing in Specific applications of Industry and Sustainable Rural Development.
<b>PSO3:</b>	Gain the Hands-On Competency Skills in PLC Automation, Process Controllers, HMI and other Computing Tools necessary for entry level position to meet the Requirements of the Employer.

## COMPUTER SCIENCE AND ENGINEERING

### Vision and Mission

#### VISION

The Vision of the department is to produce competent graduates suitable for industries and organizations at global level including research and development with Social responsibility.

#### MISSION

To provide an open environment to foster professional and personal growth with a strong theoretical and practical background having an emphasis on hardware and software development making the graduates industry ready with social ethics.

Further the Department is to provide training and to partner with Global entities in education and research.

#### B. TECH (CSE) - PROGRAM EDUCATIONAL OBJECTIVES (PEO's)

A graduate of the Computer Science and Engineering Program should:

<b>PEO - I</b>	<i>Students will establish themselves as effective professionals by solving real problems through the use of computer science knowledge and with attention to team work, effective communication, critical thinking and problem solving skills.</i>
<b>PEO - II</b>	<i>Students will develop professional skills that prepare them for immediate employment and for life-long learning in advanced areas of computer science and related fields.</i>
<b>PEO - III</b>	<i>Students will demonstrate their ability to adapt to a rapidly changing environment by having learned and applied new skills and new technologies.</i>
<b>PEO - IV</b>	<i>Students will be provided with an educational foundation that prepares them for excellence, leadership roles along diverse career paths with encouragement to professional ethics and active participation needed for a successful career.</i>

#### B. TECH (CSE) - PROGRAM OUTCOMES (PO's)

A graduate of the Computer Science and Engineering Program will demonstrate:

<b>P01:</b>	<b>Engineering knowledge:</b> Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
<b>P02:</b>	<b>Problem analysis:</b> Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
<b>P03:</b>	<b>Design/development of solutions:</b> Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
<b>P04:</b>	<b>Conduct investigations of complex problems:</b> Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
<b>P05:</b>	<b>Modern tool usage:</b> Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

<b>P06:</b>	<b>The engineer and society:</b> Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
<b>P07:</b>	<b>Environment and sustainability:</b> Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
<b>P08:</b>	<b>Ethics:</b> Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
<b>P09:</b>	<b>Individual and team work:</b> Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
<b>P010:</b>	<b>Communication:</b> Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
<b>P011:</b>	<b>Project management and finance:</b> Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
<b>P012:</b>	<b>Life-long learning:</b> Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

#### B. TECH (CSE) - PROGRAM SPECIFIC OUTCOMES (PSO's)

A graduate of the Computer Science and Engineering Program will demonstrate:

<b>PSO1:</b>	Understand, design and analyze computer programs in the areas related to Algorithms, System Software, Web design, Big data, Artificial Intelligence, Machine Learning and Networking.
<b>PSO2:</b>	Focus on improving software reliability, network security or information retrieval systems.
<b>PSO3:</b>	Make use of modern computer tools for creating innovative career paths, to be an entrepreneur and desire for higher studies.

## INFORMATION TECHNOLOGY

### Vision and Mission

#### *Vision:*

The Department envisions to become a Center of Excellence in Information Technology with a strong teaching and research environment that produces competent graduates and to inculcate traits to make them not only good professionals but also kind, committed and socially oriented human beings.

#### *Mission:*

To promote a teaching and learning process that includes latest advancements in information technology, that provides strong practical base for the graduates to make them excellent human capital for sustainable competitive edge and social relevance by inculcating the philosophy of continuous learning and innovation in the core areas.

#### B. TECH (IT) - PROGRAM EDUCATIONAL OBJECTIVES (PEO's)

A graduate of the Information Technology Program should:

<b>PEO - I</b>	<i>To prepare the graduates for a successful career to meet the diversified needs of industry, academia and research.</i>
<b>PEO - II</b>	<i>Apply knowledge of societal impacts of information technologies in the course of their career related activities ethically and appropriately</i>
<b>PEO - III</b>	<i>To equip graduates with a solid foundation in discrete mathematical and engineering fundamentals required to develop problem solving ability in complex engineering design.</i>
<b>PEO - IV</b>	<i>To inculcate in graduates the qualities of leadership in technology innovation and entrepreneurship with effective communication skills, teamwork, ethics and to create ability for life-long learning needed in a successful professional career</i>

#### B. TECH (IT) - PROGRAM OUTCOMES (PO's)

A graduate of the Information Technology Program will demonstrate:

<b>PO1:</b>	<b>Engineering knowledge:</b> Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
<b>PO2:</b>	<b>Problem analysis:</b> Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
<b>PO3:</b>	<b>Design/development of solutions:</b> Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
<b>PO4:</b>	<b>Conduct investigations of complex problems:</b> Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
<b>PO5:</b>	<b>Modern tool usage:</b> Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

<b>P06:</b>	<b>The engineer and society:</b> Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
<b>P07:</b>	<b>Environment and sustainability:</b> Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
<b>P08:</b>	<b>Ethics:</b> Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
<b>P09:</b>	<b>Individual and team work:</b> Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
<b>P010:</b>	<b>Communication:</b> Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
<b>P011:</b>	<b>Project management and finance:</b> Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
<b>P012:</b>	<b>Life-long learning:</b> Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

#### B. TECH (IT) - PROGRAM SPECIFIC OUTCOMES (PSO's)

A graduate of the Information Technology Program will demonstrate:

<b>PSO1:</b>	Design next-generation computer systems, networking devices, search engines, soft computing and intelligent systems, web browsers, and knowledge discovery tools.
<b>PSO2:</b>	Focus on mobile and web applications development and learn the emerging technologies and frameworks in demand with employers and contemporary challenges.
<b>PSO3:</b>	Practical experience in shipping real world software, using industry standard tools and collaboration techniques will equip to secure and succeed in first job upon graduation in IT industry.

## COMPUTER SCIENCE AND INFORMATION TECHNOLOGY

### Vision and Mission

#### VISION

Graduates of the Department of Computer Science and Information Technology will empower technologically adept, innovative, self-motivated and responsible citizens, to emerge as leaders in academics or an inspiring revolutionary in entrepreneurship and Research environment.

#### MISSION

To achieve academic excellence by imparting in-depth knowledge to the students through effective pedagogies and hands on experience on latest tools and technologies with an objective to contribute to society by innovations with enhancing student knowledge through interactive instruction, global engagement, experiential learning and research.

Further the Department is to provide training and to partner with Global entities in education and research.

B. Tech COMPUTER SCIENCE AND INFORMATION TECHNOLOGY – PROGRAM EDUCATIONAL OBJECTIVES (PEOs)	
A graduate of Computer Science and Information Technology program will be able to:	
<b>PEO - I</b>	<i>Understand, analyse Computer Science and Information Technology problems and relate them with real life</i>
<b>PEO - II</b>	<i>Acquire knowledge in core areas of Computer Science and Information Technology to meet the needs of industry.</i>
<b>PEO - III</b>	<i>Gain insights in to the recent trends, professional skills, communication skills and teamwork needed for successful professional.</i>
<b>PEO - IV</b>	<i>Exhibit leadership qualities, social consciousness and ethical values for lifelong learning.</i>
B. Tech COMPUTER SCIENCE AND INFORMATION TECHNOLOGY - PROGRAM OUTCOMES (POs)	
A graduate of the Computer Science and Information Technology Program will demonstrate:	
<b>P01:</b>	<b>Engineering knowledge:</b> Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
<b>P02:</b>	<b>Problem analysis:</b> Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
<b>P03:</b>	<b>Design/development of solutions:</b> Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
<b>P04:</b>	<b>Conduct investigations of complex problems:</b> Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
<b>P05:</b>	<b>Modern tool usage:</b> Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

<b>P06:</b>	<b>The engineer and society:</b> Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
<b>P07:</b>	<b>Environment and sustainability:</b> Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
<b>P08:</b>	<b>Ethics:</b> Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
<b>P09:</b>	<b>Individual and team work:</b> Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
<b>P010:</b>	<b>Communication:</b> Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
<b>P011:</b>	<b>Project management and finance:</b> Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
<b>P012:</b>	<b>Life-long learning:</b> Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

#### B. Tech COMPUTER SCIENCE AND INFORMATION TECHNOLOGY – PROGRAM SPECIFIC OUTCOMES (PSOs)

Graduates of Computer Science and Information Technology acquires ability to:

<b>PSO1:</b>	Develop software systems reflecting platform constraints, version control, and automation for digital innovation and transformation.
<b>PSO2:</b>	Evaluate the successful applications for IoT and Cyber-Physical Systems and Implement cyber security measures using tools, and networking technologies as per the needs of Industry and society
<b>PSO3:</b>	Apply appropriate machine learning models, tools, and techniques to perform data analytics for effective decision-making and create innovative career paths toward Continuous Learning.

## CSE (ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING)

### Vision and Mission

#### VISION

The Vision of the department is to produce competent graduates suitable for industries and organizations at global level including research and development with Social responsibility.

#### MISSION

To provide an open environment to foster professional and personal growth with a strong theoretical and practical background having an emphasis on hardware and software development making the graduates industry ready with social ethics.

Further the Department is to provide training and to partner with Global entities in education and research.

#### B. Tech CSE (AI & ML) - PROGRAM EDUCATIONAL OBJECTIVES (PEO's)

A graduate of the Computer Science and Engineering Program should:

<b>PEO - I</b>	<i>Students will establish themselves as effective professionals by solving real problems through the use of computer science knowledge and with attention to team work, effective communication, critical thinking and problem solving skills.</i>
<b>PEO - II</b>	<i>Students will develop professional skills that prepare them for immediate employment and for life-long learning in advanced areas of computer science and related fields.</i>
<b>PEO - III</b>	<i>Students will demonstrate their ability to adapt to a rapidly changing environment by having learned and applied new skills and new technologies.</i>
<b>PEO - IV</b>	<i>Students will be provided with an educational foundation that prepares them for excellence, leadership roles along diverse career paths with encouragement to professional ethics and active participation needed for a successful career.</i>

#### B. Tech CSE (AI & ML) - PROGRAM OUTCOMES (PO's)

A graduate of the Computer Science and Engineering Program will demonstrate:

<b>P01:</b>	<b>Engineering knowledge:</b> Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
<b>P02:</b>	<b>Problem analysis:</b> Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
<b>P03:</b>	<b>Design/development of solutions:</b> Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
<b>P04:</b>	<b>Conduct investigations of complex problems:</b> Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
<b>P05:</b>	<b>Modern tool usage:</b> Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
<b>P06:</b>	<b>The engineer and society:</b> Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

<b>P07:</b>	<b>Environment and sustainability:</b> Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
<b>P08:</b>	<b>Ethics:</b> Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
<b>P09:</b>	<b>Individual and team work:</b> Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
<b>P010:</b>	<b>Communication:</b> Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
<b>P011:</b>	<b>Project management and finance:</b> Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
<b>P012:</b>	<b>Life-long learning:</b> Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

#### B. Tech CSE (AI & ML) - PROGRAM SPECIFIC OUTCOMES (PSO's)

A graduate of the Computer Science and Engineering (AI & ML) Program will:

<b>PSO1:</b>	Build skills to develop software applications in specialized areas of Computer Science and Engineering such as Artificial Intelligence, Machine Learning, Data Science, Web Development, Gaming, Augmented Reality / Virtual Reality (AR/VR).
<b>PSO2:</b>	Focus on exploring supervised, unsupervised and reinforcement learning and apply them to a range of AI problems.
<b>PSO3:</b>	Make use of AI and ML techniques for industrial applications in the areas of Autonomous Systems, IOT, Cloud Computing, Robotics, Natural Language Processing and emerging areas.

## CSE (CYBER SECURITY)

### Vision and Mission

#### VISION

The vision of the department is to produce competent graduates with multicultural capability to promote IT security standards, practices, products and services to address the challenges faced by government, industry and individuals.

#### MISSION

The department achieves by imparting innovative teaching learning practices by providing updated information on emerging cyber security standards and practices.

Build the capability to manage cyber risks by providing specialized training and develop ecosystem for incubating startups.

B. Tech CSE (CS) - PROGRAM EDUCATIONAL OBJECTIVES (PEO's)	
A graduate of Computer Science and Engineering (Cyber Security) will be able to:	
<b>PEO - I</b>	Recognized as effective professionals for their applied skills, problem solving capabilities and professional skills in the field of cyber security.
<b>PEO - II</b>	Develop themselves as effective communicators that help them for employment in the areas of cyber security and related fields.
<b>PEO - III</b>	Incorporate ethical, legal and social implications as outcomes of their profession.
<b>PEO - IV</b>	Actively engage themselves in activities which allow for the continuous development of their computing and cyber security skills.
B. Tech CSE (CS) - PROGRAM OUTCOMES (PO's)	
A graduate of the Computer Science and Engineering (Cyber Security) Program will demonstrate:	
<b>P01:</b>	<b>Engineering knowledge:</b> Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
<b>P02:</b>	<b>Problem analysis:</b> Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
<b>P03:</b>	<b>Design/development of solutions:</b> Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
<b>P04:</b>	<b>Conduct investigations of complex problems:</b> Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
<b>P05:</b>	<b>Modern tool usage:</b> Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
<b>P06:</b>	<b>The engineer and society:</b> Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

<b>P07:</b>	<b>Environment and sustainability:</b> Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
<b>P08:</b>	<b>Ethics:</b> Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
<b>P09:</b>	<b>Individual and team work:</b> Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
<b>P010:</b>	<b>Communication:</b> Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
<b>P011:</b>	<b>Project management and finance:</b> Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
<b>P012:</b>	<b>Life-long learning:</b> Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.
<b>B. Tech CSE (CS) - PROGRAM SPECIFIC OUTCOMES (PSO's)</b>	
A graduate of Computer Science and Engineering (Cyber Security) acquires ability to:	
<b>PS01:</b>	Develop secure software with vulnerability assessment, and security requirements, designed with the least privileges for the protection of digital applications.
<b>PS02:</b>	Evaluate the function of cyber security by identifying the tools and systems to minimize the risk to an organization's cyberspace.
<b>PS03:</b>	Apply machine learning models, methods, and techniques for data analysis, data handling, and data visualization for effective decision-making.

## CSE (DATA SCIENCE)

### Vision and Mission

#### VISION

To produce globally competent young data scientists to serve in one or more application areas of business analysis, supply chain, social media content analysis, bioinformatics, finance, health care and so on towards software development and/or research.

#### MISSION

To provide a sound learning environment for data science students to excel in computer programming and software development to suit to contemporary industry needs and research.

To provide a conducive environment for data science students to excel in specific domains of data analytics and other data science related areas to serve the needs of industry and academics.

B. Tech CSE (Data Science) - PROGRAM EDUCATIONAL OBJECTIVES (PEO's)	
A graduate of the Computer Science and Engineering (Data Science) Program should:	
<b>PEO - I</b>	<i>Students will establish themselves as effective professionals by solving problems through programming, leadership qualities, team work, effective communication skills, critical thinking to solve business solutions.</i>
<b>PEO - II</b>	<i>Students will develop data science applications in advanced areas and employability in IT industry.</i>
<b>PEO - III</b>	<i>Students will understand the significance of Data Science tools and methodologies in global industry demands.</i>
<b>PEO - IV</b>	<i>Students will be provided with strong foundation in Data Science applications for their career paths.</i>
B. Tech CSE (Data Science) - PROGRAM OUTCOMES (PO's)	
A graduate of the Computer Science and Engineering (Data Science) Program will demonstrate:	
<b>PO1:</b>	<b>Engineering knowledge:</b> Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
<b>PO2:</b>	<b>Problem analysis:</b> Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
<b>PO3:</b>	<b>Design/development of solutions:</b> Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
<b>PO4:</b>	<b>Conduct investigations of complex problems:</b> Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
<b>PO5:</b>	<b>Modern tool usage:</b> Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

<b>P06:</b>	<b>The engineer and society:</b> Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
<b>P07:</b>	<b>Environment and sustainability:</b> Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
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<b>P012:</b>	<b>Life-long learning:</b> Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

#### B. Tech CSE (Data Science) - PROGRAM SPECIFIC OUTCOMES (PSO's)

A graduate of the Computer Science and Engineering (Data Science) Program will::

<b>PS01:</b>	Build suitable statistical models, tools and techniques to analyse large data sets for visualization and interpretation.
<b>PS02:</b>	Focus on improving software reliability, network security or information retrieval systems.
<b>PS03:</b>	Make use of computing theory, mathematics, statistical methods and the principles of optimization techniques in data analytics for providing solutions

Since the programs, policies, and statements contained herein are subject to continuous review and evaluation, the administration of Institute of Aeronautical Engineering reserves the right to make changes at any time without prior notice. This handbook is for information only and may not be all-inclusive.



# INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad – 500 043

## STUDENT INFORMATION

Student Details					
Roll Number	:				
Name of the Student (As per SSC)	:				
Branch	:				
Date of Birth (DD / MM / YYYY)	:				
Blood Group	:				
Gender	:	Male / Female			
Email ID	:				
Mobile Number	:				
Aadhaar Number	:				
Type of Admission (Tick any one)	:	Convener / Management / PMSSS / Lateral entry students			
Nature of Stay (Tick any one)	:	Staying in College Hostel / Private Room / Day Scholar			
Address					
Permanent Address	:				
Address for Communication	:				
Details of Parents / Guardian					
		Name	Mobile Number	Email ID	Occupation
Father	:				
Mother	:				
Local Guardian (if any)	:				

Signature of the student

Copy to:  
Head of the department



# INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)  
Dundigal, Hyderabad - 500 043

## STUDENT HANDBOOK ACKNOWLEDGEMENT (2023 - 2024)

Name: \_\_\_\_\_ Class and Branch: \_\_\_\_\_

Roll No: \_\_\_\_\_ Permanent Address: \_\_\_\_\_

\_\_\_\_\_

City: \_\_\_\_\_ Pin Code: \_\_\_\_\_ State: \_\_\_\_\_

Student's (Mobile No): \_\_\_\_\_ Student's Email Address: \_\_\_\_\_

Father's (Mobile No): \_\_\_\_\_ Mother's (Mobile No): \_\_\_\_\_

I hereby acknowledge the receipt of the Student Handbook and agree to abide by the norms laid by the Institute from time to time.

**Student name and Signature**

**Received Date**

**Copy to:**  
**Dean of Academics**



# INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)  
Dundigal, Hyderabad – 500 043

## ANTIRAGGING UNDERTAKING FORM

I, \_\_\_\_\_ (Name of the student) studying \_\_\_\_\_

\_\_\_\_\_ (Year, Semester, Section), S/D \_\_\_\_\_

\_\_\_\_\_ residing at \_\_\_\_\_

\_\_\_\_\_ (Permanent home address with phone number if any) undertake that I am aware of the system of punishment in case of ragging other students, I become involved in any manner in any ragging case I am liable for any punishment, including:

1. Cancellation of admission
2. Suspension from attending classes
3. Withholding / withdrawing scholarship / fellowship and other benefits
4. Debarring from appearing for any test / examination or other evaluation process
5. Withholding results
6. Debarring from representing the institution in any national or international meet, tournament, youth festival, etc..
7. Suspension, expulsion from hostel.
8. Rustication from the institution for periods varying from 1 to 2 academic years.
9. Expulsion from the institution and consequent debarring from admission to any other institutions.
10. Fine up to Rs. 50,000/-
11. Rigorous imprisonment up to 3 years (by court of law)

**Date:**

**Signature of Student**

I am aware of the consequences that may arise from ragging. I will do my best to prevent my son / daughter / ward from indulging in ragging.

**Date:**

**Signature of Parent / Guardian**

**Copy to:**  
**Principal Office**



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**Institute of Aeronautical Engineering  
(Autonomous)**

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