



# IARE

INSTITUTE OF  
AERONAUTICAL ENGINEERING

## PERSPECTIVE PLAN

(2017-2018 To 2021-2022)

# INTRODUCTION

IARE consistently ranks in the country's top 200 institutions that draw on information about teaching, research, innovation, and employability. We are one of the most popular colleges in the state of Telangana, India, attracting on average top 5% of EAMCET aspirants, and our students are among the most sought-after by employers across the globe. 100 percent of our B. Tech programmes are NBA accredited.

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

IARE is a prestigious Autonomous engineering college offering eleven B.Tech programs Computer Science and Engineering, Computer Science and Engineering (Artificial Intelligence and Machine Learning), Computer Science and Engineering (Data Science), Computer Science and Engineering (Cyber Security), Computer Science and Information Technology, 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 21 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 159 in Engineering category as per National Institutional Ranking Framework (NIRF) – 2021, Ministry of Human Resource Development (MHRD), Govt. of India. This illustrates positive performance and quality standards we maintain in Teaching, Research, Employability, and Innovation. Categorized as 'Band B' institution (Rank Band 26-50) in category of 'Private or Self-Financed College/Institutes' in Atal Ranking of Institutions on Innovation Achievement (ARIIA) – 2020, as per MHRD's Innovation Cell, Ministry of Education, Govt. of India. With the right mix of technical and crucially, social, and contextual skills to tackle global challenges and help change people's lives. Targeting a more diverse cohort of students than traditional engineering degrees. IARE aims to attract and empower socially aware and globally focused engineers through its innovative, industry informed and project-based curriculum.

Our strategic Plan has long-term aspirations to grow IARE'S total student cohort to over 5000 and to develop a new teaching model that is scalable nationally and internationally to positively influence engineering education delivery in our founding partners' provision and across the sector.

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

## [This 2017-2022 Perspective Plan has been developed to set us on](#)

A course to achieve these long-term aims, by providing goals and objectives for IARE'S first five years of operation and to test the feasibility of our innovative curriculum model within this period. The Perspective Plan has been proudly developed in consultation with our staff and our stakeholders and will be regularly monitored and reviewed. Our Perspective Plan is underpinned by a set of KPIs which will enable us to measure progress, celebrate successes and refocus our effort where required.

We are embarking on an exciting journey to extend participation in engineering, to increase the pipeline of engineering graduates which is sorely needed. This will enable us to transform engineering education in order to transform lives. This Perspective Plan, together with our sub-strategies and operational planning, provides us with a roadmap to achieve this vision.



# OVERVIEW

## OUR VISION

To bring forth professionally competent and socially sensible engineers, capable of working across cultures while meeting the global standards ethically.

## OUR MISSION

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

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

## OUR VALUES

We always aim to be inclusive, courageous, inspiring and collaborative and to work with integrity.

## OUR STRATEGIES AND OBJECTIVES:

**STRATEGY  
01**

Attract motivated academic achievers to UG and PG programmes and nurture them in to skilled technical and managerial workforce with research acumen and social responsibility.

### Establish and strengthening a comprehensive advisory system

#### INITIATIVES

- Addressing stakeholders' expectations and Local / National / Global needs in formation of syllabi / Other contemporary activities.
- Regular Auditing of academic and administrative functions
- Innovative Teaching Learning Model

#### KPI Measures

- No. of New Courses
- Frequency of Scheme Modification
- Number of programs for career guidance
- Involvement of industry experts in curriculum design

### Transforming students into an Employable Workforce

#### INITIATIVES

- Career counseling and aptitude building
- Industry experts in curriculum development and strategy formulation
- Fostering industry tie-ups to converting internships to job offers

#### KPI Measures

- No. of Programs
- No. of Internships and Job Offers

### Holistic Development of Students

#### INITIATIVES

- Incentives for participation in extra & co-curricular activities
- Hackathons and Competitions
- Organizing Soft-skill Development Programs
- Extend technical and financial support for start-ups
- Inculcation of Ethical Practices

#### KPI Measures

- No. of students in different Activities across the college
- Support extended to student startups
- Programs on skill upgradation
- No. of Self-Financed / MOOC Courses

### Establish state-of-the-art Research laboratories and Centres of Excellence

#### INITIATIVES

- Strengthening the research setup across departments
- Identify areas of expertise and set up courses/ centers to disseminate the expertise

#### KPI Measures

- No. of Centre of Excellences
- No. of Research Projects
- No. of Research publications

### Instituting scholarships for Economically Backward Category (EBC) students

#### INITIATIVES

- Strengthening the research setup across departments
- Identify areas of expertise and set up courses/ centers to disseminate the expertise

#### KPI Measures

- Institutional Scholarships

## OUR STRATEGIES AND OBJECTIVES:

### STRATEGY 02

Provide outstanding and diverse faculty and technological & other facilities so that students receive quality teaching and advising, enabling them to become problem solvers, leaders, and critical thinkers highly sought after by universities, industry, and the government.

#### Providing outstanding and diverse faculty Transforming students into an Employable Workforce

##### INITIATIVES

- Recruitment of new faculty with contemporary research exposure
- Recruitment of Faculty with Industry Exposure
- Recruitment of Adjunct Faculty

##### KPI Measures

- Number of Faculty recruited with Research Exposure

#### Qualification improvement of the existing Faculty

##### INITIATIVES

- Encouraging existing Faculty to Pursue PhD at NITs and IITs
- Participation in STTP and conferences
- Certifications - NPTEL
- Promoting industry assignments

##### KPI Measures

- Institutional funding to pursue doctoral programs
- Reimbursement of PhD fees of faculty

#### Retention of Faculty Members

##### INITIATIVES

- Providing Incentive for Qualification Up gradation / Research Incentives
- Implementation of CAS Scheme

##### KPI Measures

- Providing Incentive for Qualification Up gradation / Research Incentives
- Sponsoring for Higher Education / Academic leave
- Maternity leaves

#### Up gradation of Technological and Other Facilities

##### INITIATIVES

- Up gradation of laboratories
- Lab Access for extended hours
- Provide smart class rooms
- Updating software and Internet facility

##### KPI Measures

- Sponsoring the Faculty to participate in FDPs, STTP's and Conferences
- Budgetary Provision and Utilization

#### Engage the services of qualified and competent industry / field experts

##### INITIATIVES

- Involvement of industry experts in Board of studies
- Guest lecturers / Course
- Module by industry experts
- Industry Visits Conducted

##### KPI Measures

- Number of Faculty recruited with Industry Exposure
- Number of Industry Experts in Advisory committees / BoS
- Number of Expert Lectures delivered by industry personnel
- Number of Adjunct Faculty recruited
- No. of Corporate trainings

#### Encourage the Faculty to develop and promote the products / technology

##### INITIATIVES

- Carrying UG and PG projects up to the level of product development

##### KPI Measures

- Number of Faculty undertaking industry assignments / Consultancy
- Number of Industry Visits
- Number of Projects carried out leading towards product development

## OUR STRATEGIES AND OBJECTIVES:

### STRATEGY 03

Establish focused, high-impact, nationally recognized research programs and build a prominent faculty that will enhance the college's national and international reputation.

#### Establish and promote research ethos in the college

##### INITIATIVES

- Facilitate Incentive schemes
- Motivate faculty members to publish papers in high impact reputed indexed journals
- Anti-plagiarism Policy
- Installation of Research Awards
- Organizing Conferences and Workshops

##### KPI Measures

- Incentives Paid (Rs.)

#### Enhance high impact research through academic and sponsored research

##### INITIATIVES

- Academic Research
- Increase the numbers of PhD seats & enrolments
- Add Place of Research & Higher Learning Seed Money for research
- Sponsored Research
- Increase research grants
- Receive sponsorship from Corporate / NGOs

##### KPI Measures

- Number of papers in Indexed Journals (SCI/WoS)

#### Augment technical, legal and financial support to IPRs

##### INITIATIVES

- IPR Cell established
- Legal help from professional attorney is provided
- Financial support is provided
- Incentives are provided

##### KPI Measures

- Grants received
- Number of Patents filed
- Number of Copyrights received
- Books / Book chapters

#### National Ranking

##### INITIATIVES

- To be one among NIRF ranked institutions

##### KPI Measures

- National Institutional Ranking Framework (NIRF)
- Atal Ranking of Institutions on Innovation Achievement (ARIIA)
- QS Ranking

## OUR STRATEGIES AND OBJECTIVES:

### STRATEGY 04

Establish lifelong connections with alumni and capitalize on this network, corporate partnerships, and related research/scholarship within the college to strengthen the education experience, research/scholarship quality, an financial support of the college.

#### Building a bridge between alumni and current students

##### INITIATIVES

- Scholarships to deserving students
- Mentorship Workshops
- Invited lectures by alumni
- Students Exchange programs facilitated by alumni
- Internship facilitation
- Placement facilitations
- Entrepreneurial Assistance Program

##### KPI Measures

- Donations received from alumni
- Number of alumni registered with official website of college
- Number of alumni Meets conducted
- Expert Lectures / Workshops conducted by alumni

#### Creating public perception/ Brand image of the institute in society

##### INITIATIVES

- Nominating Distinguished
- Alumni for Institute Perception
- Organizing Admission process
- Awareness Program for aspiring students annually
- Felicitating and publicizing alumni for their outstanding performance in their Profession

##### KPI Measures

- Number of alumni Nominated for Institute perception
- Number of Awareness Programs organized

#### Enrichment of curriculum and Fostering Industry relationships

##### INITIATIVES

- Inviting Alumni as BOS, Academic council and BOG members
- Alumni sponsored
- Labs/Infrastructure
- Industry Visits through alumni
- Industry Projects

##### KPI Measures

- Number of alumni invited on various boards
- Number of Industry visits organized by alumni

#### Enhancing alumni network for professional development

##### INITIATIVES

- Establishing Alumni Chapters nationally and globally
- Conducting Alumni meets at respective chapters regularly
- Development of Official Alumni Website

##### KPI Measures

- Number of alumni felicitated for outstanding performance in their profession
- Number of alumni Chapters established

## OUR STRATEGIES AND OBJECTIVES:

### STRATEGY 05

Prepare students and faculty for the changing global environment to create a culture of diversity, creativity, innovation, and entrepreneurship

#### Promote Global knowledge exposure

##### INITIATIVES

- Collaborations and MOU with international universities
- Facilitating faculty members to attend international conferences/symposium/workshops
- Organize conferences in collaboration with international universities
- Invite faculty members from International Universities for conducting expert talks, training programs, etc.

##### KPI Measures

- Number of MOUs with International Universities
- Number of student internships at Foreign universities / laboratories
- Number of faculty members participated in International Events
- Number of Conferences organized in association with Foreign Universities

#### Promote culture of Creativity, Innovation and Entrepreneurship amongst students

##### INITIATIVES

- Establishment of Incubation Centre
- Creation of Entrepreneurship Development Cell
- Design and launch of Nano Satellite

##### KPI Measures

- Number of Experts invited from Foreign Universities
- Number of Training programs organized in association with Foreign Universities

## OUR STRATEGIES AND OBJECTIVES:

### STRATEGY 06

Actively engage with the local/regional community and use all our institutional strengths & capabilities for providing the solutions for socio-economic growth of the local/regional community, irrespective of their status in the society.

#### Providing Technological and Managerial Solutions to Local Industries

##### INITIATIVES

- Promotion of RGSTC-TIFAC Internship Scheme
- Industry based Project at UG and PG level

##### KPI Measures

- Number of Projects offered under various schemes and Industry based Project

#### Identification of socio-economic problems and provide the assistance through Institutional Support

##### INITIATIVES

- National Service Scheme (NSS)
- Organ and Blood Donation Camp
- Cleanliness Drive - Swachh Bharat Abhiyaan
- Health Check-up Camps
- Visit and Support to Orphanage and Old Age Homes
- Awareness Programs on Traffic, Water Conservation
- Identification and Adoption of Villages
- Environmental Conservation Awareness Program
- Unnat Bharath Abhiyan

##### KPI Measures

- Number of programs conducted through Extension and Outreach

# COLLECTED IARE KPIS

## Strategy 01

Attract motivated academic achievers to UG and PG programs and nurture them in to skilled technical and managerial workforce with research acumen and social responsibility.

| OBJECTIVE   | KPI  | TARGET BY 2020-21 | TARGET BY 2021 -22 | UPDATED  |
|---|--|-------------------|--------------------|----------|
| Installing and strengthening a comprehensive advisory system                        | % No. of New programs                                    | 50%               | 65%                | Annually |
|   | Frequency of Scheme Modification                         | Once in two years | Once in two years  | Annually |
|   | Number of programs for career guidance                   | 5                 | 10                 | Annually |
|   | Involvement of industry experts in curriculum design     | 25                | 30                 | Annually |
| Transforming students into an Employable Workforce                                  | No. of Programs  | 30                | 50                 | Annually |
|   | No. of Internships and Job Offers                        | 1000              | 2000               | Annually |
| Holistic Development of Students  | % of students in different Activities across the college | 08                | 12                 | Annually |
|   | Support extended to student startups                     | 20                | 25                 | Annually |
|   | Programs on skill upgradation                            | 5                 | 10                 | Annually |
|   | No. of Self-Financed / MOOC Courses                      | 10                | 15                 | Annually |
| Establish state- of-the-art Research laboratories and Centres of Excellence         | No. of Centre of Excellences                             | 5                 | 8                  | Annually |
|   | No. of Research Projects                                 | 10                | 15                 | Annually |
|   | No. of Research publications                             | 150               | 200                | Annually |
|   | Research Centres   | 03                | 05                 | Annually |
| Institutional scholarships for deserved students as per the Government of Telangana | % of students benefited by the Institutional Scholarship | 16                | 20                 | Annually |

## Strategy 02

Provide outstanding and diverse faculty and technological & other facilities so that students receive quality teaching and advising, enabling them to become problem solvers, leaders, and critical thinkers highly sought after by universities, industry, and the government.

| OBJECTIVE  | KPI  | TARGET BY 2020-21 | TARGET BY 2021 -22 | UPDATED  |
|--|--|-------------------|--------------------|----------|
| Providing outstanding and diverse faculty Transforming students into an Employable Workforce | Number of Faculty recruited with Research Exposure                       | 20                | 25                 | Annually |
| Qualification improvement of the existing Faculty  | Institutional funding to pursue doctoral programs                        | 10 Lakhs          | 20 Lakhs           | Annually |
|  | Reimbursement of PhD fees of faculty                                     | 20 Lakhs          | 25 Lakhs           | Annually |
| Retention of Faculty Members   | Providing Incentive for Qualification Up gradation / Research Incentives | 50 Lakhs          | 70 Lakhs           | Annually |
|  | Sponsoring for Higher Education / Academic leave                         | 30 Lakhs          | 35 Lakhs           | Annually |
|  | Maternity leaves   | 06 months         | 06 months          | Annually |
| Up gradation of Technological and Other Facilities   | Sponsoring the Faculty to participate in FDPs, STTP's and Conferences    | 20 Lakhs          | 25 Lakhs           | Annually |
|  | Budgetary Provision and Utilization                                      | Yes               | Yes                | Annually |
| Engage the services of qualified and competent industry / field experts                      | Number of Faculty recruited with Industry Exposure                       | 50                | 60                 | Annually |
|  | Number of Industry Experts in Advisory committees / BoS                  | 20                | 25                 | Annually |
|  | Number of Expert Lectures delivered by industry personnel                | 25                | 30                 | Annually |
|  | Number of Adjunct Faculty recruited                                      | 10                | 15                 | Annually |
|  | No. of Corporate trainings   | 25                | 30                 | Annually |
| Encourage the Faculty to develop and promote the products / technology                       | Number of Faculty undertaking industry assignments / Consultancy         | 20                | 25                 | Annually |
|  | Number of Industry Visits  | 24                | 30                 | Annually |
|  | Number of Projects carried out leading towards product development       | 20                | 25                 | Annually |

# COLLECTED IARE KPIS

## Strategy 03

Establish focused, high-impact, nationally recognized research programs and build a prominent faculty that will enhance the college's national and international reputation.

| OBJECTIVE   | KPI  | TARGET BY 2020-21                                     | TARGET BY 2021 -22                                   | UPDATED  |
|---|--|---|--|----------|
| Establish and promote research ethos in the college     | Incentives   | 25 Lakhs  | 30 Lakhs   | Annually |
|   | Number of papers in Indexed Journals (SCI/WoS)                 | 150   | 200  | Annually |
| Augment technical, legal, and financial support to IPRs | Grants received  | 250 lakhs   | 300 lakhs  | Annually |
|   | Number of Patents filed  | 7   | 15   | Annually |
|   | Number of Copyrights received                                  | 10  | 20   | Annually |
|   | Books / Book chapters  | 25  | 50   | Annually |
| National Ranking  | National Institutional Ranking Framework (NIRF)                | 159   | < 100  | Annually |
|   | Atal Ranking of Institutions on Innovation Achievement (ARIIA) | Categorized as 'Band B' institution (Rank Band 26-50) | Categorized as 'Band A' institution (Rank Band 1-25) | Annually |
|   | QS Ranking   | Participated  | Platinum / Gold / Silver                             | Annually |

## Strategy 04

Establish lifelong connections with alumni and capitalize on this network, corporate partnerships, and related research/scholarship within the college to strengthen the education experience, research/scholarship quality, and financial support of the college.

| OBJECTIVE   | KPI  | TARGET BY 2020-21 | TARGET BY 2021 -22 | UPDATED  |
|---|--|-------------------|--------------------|----------|
| Building a bridge between alumni and current students               | Donations received from alumni   | 10 Lakhs          | 15 Lakhs           | Annually |
|   | Number of alumni registered with official website of college                 | 3000              | 4000               | Annually |
|   | Number of alumni Meets conducted   | 01                | 02                 | Annually |
|   | Expert Lectures / Workshops conducted by alumni                              | 15                | 25                 | Annually |
| Creating public perception/ Brand image of the institute in society | Number of alumni Nominated for Institute perception                          | 05                | 10                 | Annually |
|   | Number of Awareness Programs organized                                       | 03                | 05                 | Annually |
| Enrichment of curriculum and fostering Industry relationships       | Number of alumni invited on various boards                                   | 20                | 30                 | Annually |
|   | Number of Industry visits organized by alumni                                | 01                | 02                 | Annually |
| Enhancing alumni network for professional development               | Number of alumni felicitated for outstanding performance in their profession | 02                | 04                 | Annually |
|   | Number of alumni Chapters established  | 01                | 02                 | Annually |



# COLLECTED IARE KPIS

## Strategy 05

Prepare students and faculty for the changing global environment to create a culture of diversity, creativity, innovation, and entrepreneurship.

| OBJECTIVE                         | KPI  | TARGET BY 2020-21 | TARGET BY 2021 -22 | UPDATED  |
|-----------------------------------|--|-------------------|--------------------|----------|
| Promote global knowledge exposure | Number of MOUs with International Universities                           | 08                | 10                 | Annually |
|                                   | Number of student internships at Foreign universities / laboratories     | 08                | 10                 | Annually |
|                                   | Number of faculty members participated in International Events           | 05                | 10                 | Annually |
|                                   | Number of Conferences organized in association with Foreign Universities | 02                | 05                 | Annually |
|                                   | Number of Experts invited from Foreign Universities                      | 02                | 05                 | Annually |

## Strategy 06

Actively engage with the local/regional community and use all our institutional strengths & capabilities for providing the solutions for socio-economic growth of the local/regional community, irrespective of their status in the society.

| OBJECTIVE  | KPI  | TARGET BY 2020-21 | TARGET BY 2021 -22 | UPDATED  |
|--|--|-------------------|--------------------|----------|
| Providing technological and managerial solutions to local industries                               | Number of Projects offered under various schemes and Industry based Project 02 |                   | 05                 | Annually |
| Identifying of socio- economic problems and providing the assistance through Institutional Support | Number of programs conducted through Extension and Outreach                    | 05                | 10                 | Annually |

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 **Find out more:**  
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