



# INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500 043

## STRATEGIC PLAN

(2011-2016)

### INTRODUCTION

The Institute of Aeronautical Engineering (IARE) is a leading engineering institution in the country, enabling students to improve their quality of life through education, research, innovation, entrepreneurship and societal engagement.

To achieve our vision, we have aligned IARE strategic plans with its mission, accreditation standards, and best practices at private higher education institutions around the world.

IARE leadership team formulated the first strategic plan (2011 - 2016) during the “Growth Phase” to strengthen the infrastructure. The plan consisted of actions to establish quality programs, recruit faculty, graduate exemplary students and obtain resources with developmental key result areas.

#### **This 2011-2016 Strategic 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 strategic Plan has been proudly developed in consultation with our staff and our stakeholders and will be regularly monitored and reviewed. 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 to transform lives. This Perspective Plan, together with our sub-strategies and operational planning, provides us with a roadmap to achieve this vision.

#### **VISION:**

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

#### **MISSION:**

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

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

#### **VALUES:**

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

## STRATEGIES AND OBJECTIVES:

### **STRATEGY 01: EMPOWER FACULTY AND STUDENTS TO ACHIEVE HIGH LEVELS OF TEACHING AND LEARNING.**

#### **Objectives:**

1. Support teaching and learning as the central focus of the institution.
2. Continuously recruit, achieve and maintain a sufficient number of highly qualified faculties based on standards specified by AICTE and accreditation agencies.
3. Provide opportunities for faculty to update and upgrade their performance, qualifications and skills.
4. Maximize physical facilities for effective teaching and learning.
5. Integrate the development of the following education abilities: communication, critical analysis, problem solving, decision making, social interaction, global perspective and aesthetic engagement to achieve high level teaching and learning methodologies.

#### **Major Accomplishments**

- Over the last five years, institute has recruited 150 faculty members, 20% of whom are Ph.D. holders.
- 80 % retention rate indicates the overall engagement and satisfaction of faculty members.
- Student satisfaction of the quality of their courses is consistently is a strong indication of high faculty performance.
- Faculties have facilitated to participate in professional development activities.
- Established adequate physical facilities of class rooms and laboratories.

### **STRATEGY 02: PROVIDE AN EFFECTIVE AND EFFICIENT STUDENT MANAGEMENT SYSTEM**

#### **Objectives:**

1. Attract good rank holders for admission in to the institution.
2. Update policies and procedures governing code of behavior for students.
3. Maintain an effective and efficient delivery of student services and support.
4. Continuously provide a wide range of extra-curricular activities for the students.
5. Provide high quality teaching to students at the first year level.
6. Provide students with a wide range of subjects, both core and elective (Professional and open), that will increase both their professional competence and employment prospects.

#### **Major Accomplishments**

- The institute has organized several initiatives and events to admit good rank holders.
- Students with high academic performance are awarded with institutional scholarships.
- Faculty members have received several training sessions on enhancing the reading and writing skills of students as well as the overall teaching and learning process.
- Students are offered numerous opportunities for extra-curricular activities (i.e., intercollegiate sports competitions, intercollegiate debate competitions, translation competitions).
- Students are encouraged to participate in the various community service activities.

### **STRATEGY 03: IMPLEMENTATION OF DYNAMIC CURRICULUM IN ALL THE PROGRAMS OFFERED.**

#### **Objectives:**

1. Become an autonomous institute to bridge the gap between industry and academia through effective implementation of dynamic curriculum.
2. Review and update the curriculum of each academic program at every two years once.
3. Periodically analysis of stake holder's feedback.
4. Establishment of MoU's with academic institutions and industries.

### Major Accomplishments

- The institute has a well-established curriculum review policy.
- Memorandum of Understanding (MoU) with different national universities and industries.
- Stakeholder's feedback (students, parents, alumni and employers) is systematically gathered and analyzed.

### **STRATEGY 04: FOSTER AN INSTITUTE GOVERNANCE SYSTEM THAT INSTILLS FLEXIBILITY, TRANSPARENCY, ACCOUNTABILITY, SHARED RESPONSIBILITY AND A POSITIVE ORGANIZATIONAL CLIMATE.**

#### Objectives:

1. Clearly established policies and regulations that provide a framework for management, decision making and accountability at all levels in the institution.
2. Ensure that established statements of responsibilities and guidelines are widely known and understood by faculty and students.

### Major Accomplishments

- Progressively implemented decentralized decision making for the regular tasks.
- Established an authority matrix that defines the scope of authority for all faculty and administrators.

### **STRATEGY 05: EFFECTIVE INTEGRATION OF INNOVATIVE LEARNING AND TEACHING PEDAGOGY**

#### Objectives:

1. Effectively integrate innovative learning and teaching technologies to establish a center for learning and teaching.
2. Encouraging the faculty to use pedagogies and new technologies.
3. Encouraging the faculty to use Blooms taxonomy.

### Major Accomplishments

- The well- conducted various workshops and training sessions to promote best practices in teaching and learning.
- A center for learning and teaching was established and implemented the latest educational technologies.
- Implementation of Blooms taxonomy to encourage higher-order thought in their students by building up from lower-level cognitive skills.

### **STRATEGY 06: RESEARCH AND COMMUNITY INVOLVEMENT**

#### Objectives:

1. Increase the number and quality of research publications (published in peer-reviewed local and international journals, books, international conference proceedings).
2. Implement progressively the institutional research activities.
3. Address the societal and industrial problems.

### Major Accomplishments

- Recruited good faculty with a proven track record in research.
- Sanctioned more number of research funded projects from external sources.
- Provided financial assistance for new researchers and early careers in the process of Publications.
- Faculty involved in various social, industrial and multidisciplinary problems.

## ANNUAL PROGRESS OF THE STRATEGIC PLAN 2011-2016

