



INSTITUTE OF AERONAUTICAL ENGINEERING (Autonomous)

Dundigal, Hyderabad - 500 043

PERSPECTIVE PLAN (2017-2018 to 2021-2022)

Strategy 01: Attract motivated academic achievers to UG and PG programmes and nurture them into skilled technical and managerial workforce with research acumen and social responsibility.

S No	Objectives	Activities	Outcomes
1	Installing and Strengthening a comprehensive advisory system	<ul style="list-style-type: none"> Addressing stakeholders' expectations in formation of syllabi / Other contemporary activities Auditing of academic processes and procedures Strengthening Teaching Learning Model through BOS Interaction 	<ul style="list-style-type: none"> No. of New Courses Frequency of Scheme Modification
2	Transforming students into an Employable Workforce	<ul style="list-style-type: none"> Career counseling and aptitude building Industry experts in curriculum development and strategy formulation Fostering industry tie-ups to converting internships to job offers 	<ul style="list-style-type: none"> No. of Programs No. of Industry Experts No. of Internships and Job Offers
3	Holistic Development of Students	<ul style="list-style-type: none"> Incentives for participation in extra- and co-curricular activities Hackathons and Competitions Organizing Soft-skill Development Programs Extend technical and financial support for start-ups Inculcation of Ethical Practices 	<ul style="list-style-type: none"> No. of students in different Activities across the college Support extended to student startups
4	Establish state- of-the-art Research laboratories and Centres of Excellence	<ul style="list-style-type: none"> Strengthening the research setup across departments Identify areas of expertise and set up courses/ centers to disseminate the expertise 	<ul style="list-style-type: none"> No. of Self-Financed Courses No. of Labs of Excellences No. of Research Programs
5	Encouraging inter-disciplinary research	<ul style="list-style-type: none"> To involve UG and PG students in research activities by offering them tasks requiring research capabilities Identify faculty with expertise and form SIGs Provide adequate incentives for publications/IPRs by students and faculty 	<ul style="list-style-type: none"> No. of Interdisciplinary Research Projects No. of Research Publication Support extended for skill upgradation
6	Offering twinning & student exchange programs [Credit Transfer Schemes]	<ul style="list-style-type: none"> Explore possibilities of tie-ups for twinning programs Benefit from MoUs with leading industries and academic institutions Involve industry to offer current technology trends in curriculum through Open Electives or Sponsored Electives Promoting MOOC and 'Swayam' courses 	<ul style="list-style-type: none"> No. of student / Faculty registered for Student Exchange Programs No. of students/ Faculty registered for MOOC No. of students registered "Swayam" Courses
7	Instituting scholarships for Economically Backward Category (EBC) students and for students with exemplary consistent academic record	<ul style="list-style-type: none"> Provide financial aid to needy students Focus on financial assistance to bright students 	<ul style="list-style-type: none"> Alumni-sponsored EBC and Merit scholarships

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.

S No	Objectives	Activities	Outcomes
1	Providing outstanding and diverse faculty	<ul style="list-style-type: none"> Recruitment of new faculty with contemporary research exposure Recruitment of Faculty with Industry Exposure Recruitment of Adjunct Faculty 	<ul style="list-style-type: none"> No. of Faculty with Research Exposure No. of Faculty with Industry Exposure No. of Adjunct Faculty
2	Qualification improvement of the existing Faculty	Encouraging existing Faculty to: <ul style="list-style-type: none"> Pursue PhD at NITs and IITs Participation in STTP and conferences Certifications - NPTEL Promoting industry assignments 	<ul style="list-style-type: none"> No. of Faculty pursuing / pursued PhD from IIT's and NIT's No. of Faculty participating in STTP's and Conferences No. of Faculty undertaking industry Assignments
3	Retention of Faculty Members	<ul style="list-style-type: none"> Providing Incentive for Qualification Up gradation / Research Incentives Implementation of CAS Scheme 	<ul style="list-style-type: none"> Faculty Retention Ratio
4	Up gradation of Technological and Other Facilities	<ul style="list-style-type: none"> Up gradation of laboratories Lab Access for extended hours Provide smart class rooms Use of GEMS Updating software and Internet facility 	<ul style="list-style-type: none"> Budgetary Provision and Utilization
5	Engage the services of qualified and competent industry / field experts	<ul style="list-style-type: none"> Involvement of industry experts in Board of studies Guest lecturers / Course Module by industry experts Industry Visits Conducted 	<ul style="list-style-type: none"> No. of Expert Lectures Delivered No. of Industry Visits No. of Experts in BOS
6	Encourage the Faculty to develop and promote the products / technology	<ul style="list-style-type: none"> Carrying UG and PG projects up to the level of product development 	<ul style="list-style-type: none"> No. of Projects

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.

S No	Objectives	Activities	Outcomes
1	Establish and promote research ethos in the college	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> Incentives Paid (Rs.) Papers in SCI Journals Papers in Scopus Journals Papers in Conferences
2	Enhance high impact research through academic and sponsored research	A. Academic Research <ul style="list-style-type: none"> Increase the numbers of PhD seats & enrolments Add Place of Research & Higher Learning Seed Money for research 	<ul style="list-style-type: none"> Place of Research & Higher Learning Seats of PhD No. of scholars pursuing PhD
		B. Sponsored Research <ul style="list-style-type: none"> Increase research grants Receive sponsorship from Corporate / NGOs 	<ul style="list-style-type: none"> Grant Received
3	Augment technical, legal and financial support to IPRs	<ul style="list-style-type: none"> IPR Cell established Legal help from professional attorney is provided Financial support is provided Incentives are provided 	<ul style="list-style-type: none"> Patents Filed Copyrights Received
4	Extend support for faculty development	<ul style="list-style-type: none"> Financial support for attending conferences / FDPs at India & Abroad Financial support & study leave for pursuing PhDs 	<ul style="list-style-type: none"> Faculty Development Exp. Ph.D fees reimbursed Faculty pursuing Ph.D Faculty availed study leave
5	National Ranking	<ul style="list-style-type: none"> To be one among NIRF ranked institutions 	<ul style="list-style-type: none"> NIRF Rank

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.

S No	Objectives	Activities	Outcomes
1	Building a bridge between alumni and current students	<ul style="list-style-type: none"> • Scholarships to deserving students • Mentorship Workshops • Invited lectures by alumni • Students Exchange programs facilitated by alumni • Internship facilitation • Placement facilitations • Entrepreneurial Assistance Program 	<ul style="list-style-type: none"> • Scholarship in Rs. • Workshops conducted • No. of Lectures by Alumni • Internships • Placements Facilitated • No. of Startups
2	Creating public perception/ Brand image of the institute in society	<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • No. of Nominations • No. of Programs • No. of Alumni • Felicitated
3	Enrichment of curriculum and Fostering Industry relationships	<ul style="list-style-type: none"> • Inviting Alumni as BOS, Academic council and BOG members • Alumni sponsored Labs/Infrastructure • Industry Visits through alumni • Industry Projects 	<ul style="list-style-type: none"> • No. of Alumni Invited • No. of Industries Visited • No. of Projects undertaken • Donations Received
4	Establish networking amongst alumni for professional development	<ul style="list-style-type: none"> • Establishing Alumni Chapters nationally and globally • Conducting Alumni meets at respective chapters regularly • Development of Official Alumni Website 	<ul style="list-style-type: none"> • Alumni Chapters established • Alumni Meets conducted • Official website with registered Alumni

Strategy 05: Prepare students and faculty for the changing global environment to create a culture of diversity, creativity, innovation, and entrepreneurship.

S No	Objectives	Activities	Outcomes
1	Promote Global knowledge exposure	<ul style="list-style-type: none"> • 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. 	<ul style="list-style-type: none"> • No. of MOUs • No. of students in Student Exchange Programs • No. of faculty members participated in international events • No. of Conferences organized • No. of Experts invited • No. of Training programs
2	Promote culture of Creativity, Innovation and Entrepreneurship amongst students	<ul style="list-style-type: none"> • Establishment of Incubation Centre • Creation of Entrepreneurship Development Cell • Design and launch of Nano Satellite 	<ul style="list-style-type: none"> • No. of Entrepreneurs • Global Recognition
3	Promote Post- Doctoral Research for faculty members	<ul style="list-style-type: none"> • Provide subsidized financial support and study leave 	<ul style="list-style-type: none"> • Improvement in Research Quality • No. of sponsored projects

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.

S No	Objectives	Activities	Outcomes
1	Providing Technological and Managerial Solutions to Local Industries	<ul style="list-style-type: none"> • Promotion of RGSTC-TIFAC Internship Scheme • Industry based Project at UG and PG level 	<ul style="list-style-type: none"> • Projects offered under TIFAC • No. of Industry based Projects
2	Identification of socio-economic problems and provide the assistance through Institutional Support	<ul style="list-style-type: none"> • National Service Scheme (NSS) • Organ and Blood Donation Camp • Cleanliness Drive - Swach 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 	<ul style="list-style-type: none"> • No. of activities