

10 Steps for B.Tech Aerospace & Aeronautical Engineering Course Enhancement in 2021

01	PROGRAMMING SKILLS	<ul style="list-style-type: none"> To improve programming skills, two new courses are introduced in the third year: <ol style="list-style-type: none"> 1) Data structures using C and 2) Matlab with applications.
02	SOFTWARE SKILLS	<ul style="list-style-type: none"> To provide skills in usage of engineering modeling and analysis softwares, two new practical courses are introduced: <ol style="list-style-type: none"> 1) CAD lab using CATIA and 2) Computational analysis lab.
03	PROGRAM SPECIFIC COURSES	<ul style="list-style-type: none"> From the industry perspective, following three program specific courses are introduced: <ol style="list-style-type: none"> 1) Introduction to Helicopters 2) Flight mechanics-II (Stability and control) and 3) Air traffic management
04	FLIGHT LAB COURSE	<ul style="list-style-type: none"> Training on flight simulator at IIAEM is integrated with the flight lab course conducted at Kanpur
05	AEROSPACE STRUCTURES	<ul style="list-style-type: none"> To enhance practical learning, two lab courses in aerospace structures are offered to teach additional experiments including composite materials.
06	LINKEDIN COURSE	<ul style="list-style-type: none"> Students are provided free access to curated courses offered by LinkedIn.
07	OUTCOME BASED EDUCATION (OBE)	<ul style="list-style-type: none"> Teaching-learning practices aligned with OBE.
08	PLACEMENT TRAINING	<ul style="list-style-type: none"> Professional training for placement is offered from the beginning of third year.

09	FACULTY	<ul style="list-style-type: none"> Faculty consists of members with rich experience in industry, national research organisations and retired professors from IIT , IISc etc.
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10	EXPERTS INTERACTION	<ul style="list-style-type: none"> Bangalore being the hub of aerospace research labs such as CSIR-NAL, DRDO, ISRO and industries, experts from those organizations visit the department for delivering technical lectures.
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10 Steps for M.Tech Aerodynamic Engineering, Aerospace Propulsion Technology and Aerospace Structures and Design Course Enhancement

01	FACULTY	<p>IIAEM (School of Aerospace Engineering), boasts of excellent faculty in the field of Aerospace Engineering.</p> <p>Prof B Data GuruPadma Shri awardee, former Chairman, Aerospace dept. IISc, Dr. A. R.Upadhya, former Director CSIR-NAL. Dr. Antonio Davis, former Scientist, GTRE(DRDO) and current Director IIAEM, Dr. A. R Manjunath, former General Manager, HAL, Dr. K Natarajan, former AGM, Bharat Electronics Ltd. Dr. R.M.O Gemson, former AGM, HAL, to list a few of the eminent faculty</p>
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02	CURRICULUM	<p>Latest curriculum in aerodynamics addresses research, Design, Tool based learning, and many advanced courses to prepare students to confidently pursue a career in aerospace/multidisciplinary industry or research. Choice-based credit system (CBCS) for the electives wherein students can take up department-specific electives from the parent department and open electives from other departments. Excellent inter-departmental faculty interaction</p>
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03	INFRASTRUCTURE	<p>The aerospace department has an excellent library facility with several important e-Journals. Advanced labs are available on campuses such as the Avionics Lab, Radar Lab, Wind Tunnel, Aeromodelling Lab, Structures Lab, Propulsion Lab, and Jet Engine Lab. These labs are available to the students after class hours and on Saturdays to conduct research depending on their interests.</p>
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04	FUNDED PROJECTS	The department has funded projects worth more than INR One Crore, and students are involved in various R &D activities of the projects.
05	RESEARCH & DEVELOPMENT	A research-oriented environment with 25 scholars doing Ph.D. under the guidance of internal faculty. Faculty and students publish papers in national/international reputed journals.
06	PLACEMENT	Excellent Placement cell with more than 250 companies visiting the campus every year. The placement department organizes multi-skill training programs for all eligible students.
07	STUDENT PROJECTS	MOU with NAL for lab visits, internships, and Research-based projects in the area of propulsion. In addition, the department collaborates with DRDO, HAL, ISRO, and other industries for executing student projects/funded projects.
08	SOFTWARE	Advanced engineering analysis software with Integrated software courses to address industry-based system development.
09	EXPERTS INTERACTION	Bengaluru being the hub of aerospace research, experts from industry and research labs are invited to the department for delivering technical lectures.
10	CAMPUS	Eco-friendly campus with excellent facilities like indoor/outdoor stadia, canteen, hostel, transport, and other facilities.