

AERO NEWSLETTER



VISION

The Department of Aeronautical Engineering is committed to impart quality education fostering excellence in academics, research and innovation to develop globally competent aeronautical engineers contributing to the society.

MISSION

M1: To offer outcome-based learning that encompasses research and innovation.

M2: To promote interdisciplinary learning and interaction with the global community.

M3: To enable holistic education engrossed with social values.

KNOWLEDGE SHARING SESSION BY AE'S ALUMNI

16/12/2022

DEPARTMENT OF AERONAUTICAL ENGINEERING ORGANIZED AN EVENT NAMED 'KNOWLEDGE SHARING SESSION BY AE'S ALUMNI' ON THE 16TH OF DECEMBER 2022 AT ANA SEMINAR HALL.

MS. KEREN SUSAN, A 2016 GRADUATE OF AE, AIT, CURRENTLY WORKING IN DIAMOND AIRCRAFT INDUSTRIES INC. CANADA, ADDRESSED THE STUDENTS ON IMPORTANCE OF PARTICIPATION IN WORKSHOPS, INTERNSHIPS AND HANDS-ON ACTIVITIES TO GET A BETTER UNDERSTANDING OF THE TECHNICAL CONCEPTS.



MS. ALVINA NIRMAL RAJ, ALUMNA OF AE, CLASS OF 2016, WHO IS CURRENTLY WORKING WITH BOEING, INDIA, EMPHASIZED ON THE IMPORTANCE OF EFFECTIVE COMMUNICATION AND SOFT SKILLS AND ADVISED HER JUNIORS TO PARTICIPATE IN THE TECHNICAL COMPETITIONS CONDUCTED IN VARIOUS PLATFORMS.



THE INTERACTIVE SESSION HELD THE ATTENTION OF PARTICIPANTS AND WERE INDEED HAPPY TO MEET THEIR ALUMNI. THE EVENT WAS ORGANIZED UNDER THE GUIDANCE OF DR. S K MAHARANA, ADMINISTERED BY DR. SWETHA S AND COORDINATED BY PROF. STEFFI THANGACHAN.



EDUCATIONAL VISIT TO HINDUSTAN AERONAUTICS LIMITED (HAL) HERITAGE CENTRE AND AEROSPACE MUSEUM, BENGALURU.

28/12/2022

HINDUSTAN AERONAUTICS LIMITED (HAL) HERITAGE CENTRE AND AEROSPACE MUSEUM, THE FIRST OF ITS KIND IN INDIA WAS ESTABLISHED IN THE YEAR 2001 AT HAL AIRPORT ROAD, BENGALURU. THE MUSEUM IS A REPERTOIRE OF KNOWLEDGE FOR THE ACADEMICALLY MINDED AS IT HOUSES A LIBRARY ON AEROSPACE AND TRACES THE DEVELOPMENT OF THE INDUSTRY'S EXCITING PHASES SINCE 1940. THE MUSEUM HAS GOT THE PRIZED POSSESSION OF VARIOUS TYPES OF AIRCRAFT MODELS ON STATIC DISPLAY. IT IS A MATTER OF PRIDE FOR THE DEPARTMENT OF AERONAUTICAL ENGINEERING AS 43 STUDENTS OF THE 3RD SEM JOINED THE FACULTY TO MAKE AND LEARN THE 'KNOW-HOW' OF FLYING. AS A PART OF THEIR ORIENTATION PROGRAM ORGANIZED BY THE DEPARTMENT OF AERONAUTICAL ENGINEERING, THE FRESHMEN WERE TAKEN ON A FIELD TRIP TO HAL HERITAGE CENTRE AND AEROSPACE MUSEUM ON 28TH DECEMBER 2022.

THE FIELD TRIP WAS ORGANIZED UNDER THE GUIDANCE OF DR. S K MAHARANA, CARRIED OUT BY PROF. AMAR GANDGE SUBASH, AND WAS ACCOMPANIED BY PROF MAHANTAYYA K HIREMATH.



EDUCATIONAL VISIT TO INDIAN INSTITUTE OF SCIENCE BENGALURU- 'OPEN DAY'.

04/03/2023



THE INDIAN INSTITUTE OF SCIENCE (IISC) BANGALORE, A PREMIER RESEARCH AND EDUCATIONAL INSTITUTION ORGANIZED AN 'OPEN DAY' ON 04 MARCH 2023.

IISC WAS FOUNDED IN 1909 BY JAMSETJI TATA, IT IS CONSIDERED ONE OF THE TOP RESEARCH INSTITUTIONS IN INDIA, WITH A STRONG FOCUS ON SCIENTIFIC RESEARCH AND EDUCATION. THE INSTITUTE IS SPREAD OVER A VAST CAMPUS OF 400 ACRES, AND IT HAS SEVERAL DEPARTMENTS AND RESEARCH CENTERS, INCLUDING THE DEPARTMENT OF AEROSPACE ENGINEERING, DEPARTMENT OF MECHANICAL ENGINEERING, DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING, AND MORE.



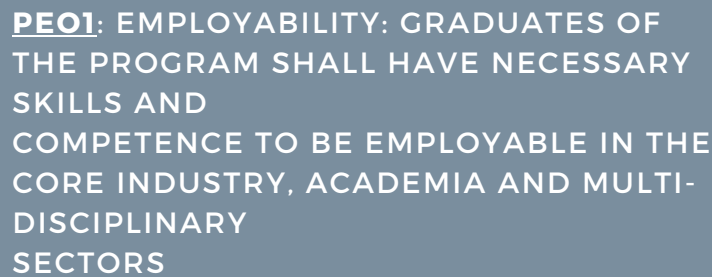
THE STUDENTS OF AERONAUTICAL ENGINEERING OF AIT WERE ACCOMPANIED TO THE 'OPEN DAY' TO VISIT VARIOUS DEPARTMENTS, INTERACT WITH RESEARCHERS AND FACULTY MEMBERS AND LEARN ABOUT THEIR ONGOING RESEARCH PROJECTS. THEY ALSO GOT TO SEE VARIOUS FACILITIES AND LABORATORIES, INCLUDING WIND TUNNELS, AIRCRAFT SIMULATORS, AND OTHER ADVANCED EQUIPMENT USED FOR RESEARCH AND TESTING PURPOSES. APART FROM THE AEROSPACE DEPARTMENT, THE STUDENTS ALSO VISITED DEPARTMENT OF COMPUTER SCIENCE AND AUTOMATION, DEPARTMENT OF MATERIALS ENGINEERING, AND THE NATIONAL CENTRE FOR BIOLOGICAL SCIENCES.



THE STUDENTS OF AE WERE ACCOMPANIED TO IISC BY DR. SWETHA S, PROF. VARSHA N, PROF. AMAR, PROF. AKASH AND PROF. STEFFI THANGACHAN.



PEO'S AND PSO'S



PEO1: EMPLOYABILITY: GRADUATES OF THE PROGRAM SHALL HAVE NECESSARY SKILLS AND COMPETENCE TO BE EMPLOYABLE IN THE CORE INDUSTRY, ACADEMIA AND MULTI-DISCIPLINARY SECTORS

PEO2: ADVANCEMENT: GRADUATES OF THE PROGRAM SHALL ADVANCE PROFESSIONALLY IN THE MANAGEMENT, ENTREPRENEURSHIP AND ALLIED INDUSTRIES.

PEO3: CONTRIBUTION: GRADUATES OF THE PROGRAM SHALL HAVE INNOVATIVE IDEA AND THE POTENTIAL TO CONTRIBUTE TO THE EXPANSION, MAINTENANCE AND ONGOING NEEDS OF THE AVIATION INDUSTRY.

PEO4: LIFELONG LEARNING: GRADUATES OF THE PROGRAM SHALL POSSESS AN UNRELENTING INTEREST IN LEARNING AND ADAPT NEW TECHNOLOGICAL ADVANCEMENTS TO THE REQUIREMENTS OF THE EVOLVING INDUSTRIAL CONTEXTS.



PSO1: ELEMENTS OF AIRCRAFT COMPONENTS AND THEIR OPERATIONS: APPLY THE FOUNDATIONS OF AERODYNAMICS, PROPULSION, AIRCRAFT STRUCTURE AND MATERIALS; EVALUATE THE PERFORMANCE AND OPERATION OF COMPONENTS OF AIRCRAFTS AND FLYING VEHICLES.

PSO2: FLIGHT VEHICLE DESIGN AND DEVELOPMENT: DEMONSTRATE THE FLIGHT VEHICLE DESIGN, INTEGRATE THE AIRCRAFT SYSTEMS AND COMPONENTS AND TEST THE FLIGHT.

PSO3: AIRCRAFT THERMAL AND FLUID STRUCTURE INTERACTION: APPLY THE CONCEPTS OF AEROTHERMODYNAMICS, ENERGY CONVERSION, HEAT AND MASS TRANSFER IN ANALYZING BOTH INTERNAL AND EXTERNAL FLOWS; DEMONSTRATE IT FOR VARIOUS AIRCRAFT ENGINES AND STRUCTURES.

PSO4: AIRCRAFT AVIONICS, STABILITY AND CONTROL: APPLY THE BASIC KNOWLEDGE OF AVIONICS TO COMMUNICATE AND CONTROL WITH THE AIRCRAFT COMPONENTS; EVALUATE THE STABILITY OF THE OVERALL AIRCRAFT.

