



DAYANANDA SAGAR
UNIVERSITY



DECADES LEGACY
IN EDUCATION & HEALTHCARE



B.Tech. in Aerospace Engineering

SCHOOL OF ENGINEERING

DSU *live the dream*

Reach Beyond Borders,
to Achieve Extraordinary!



Promising Private University for Academic Excellence & Learning



STATE RANK **3** SOUTH ZONE RANK **3**



BEST EMERGING UNIVERSITY 2021



Teaching Excellence
★★★★★
Research Excellence
★★★★★



Excellence in Academic Facilities & Learning Resources

*A Place to
Grow, Excel,
Invent &
Innovate!*

About DSU

Dayananda Sagar Institutions founded in the 60's by one such visionary, late Sri Dayananda Sagar committed to take knowledge to the people, transforms today's students into responsible citizens and professional leaders of tomorrow. Dayananda Sagar University created by an Act of the Karnataka State in 2014, built on this adorable legacy and inspired by its own milestones, meeting the needs of quality higher education in this part of the world.

The main campus is thoughtfully planned on 130 acres, with a picturesque site and a blossoming green environment, making it free from city crowds and pollution. Being a completely self-contained campus adjacent to Harohalli (45kms from Bengaluru city), it is equipped with all the modern state-of-the-art infrastructure, creating a conducive environment for progressive experiential learning and transforming you into next-generation innovators, explorers, leaders, and researchers.





It has become appallingly obvious that our technology has exceeded our humanity.

About School of Engineering

Welcome to the cutting-edge realm of engineering excellence at the School of Engineering (SoE), Dayananda Sagar University (DSU). The school offers world-class education and experiential training in engineering, with a focus on innovation across various disciplines such as Computer Science, Artificial Intelligence, Robotics, and more. The unique and multidisciplinary learning here is backed by some of the world's best state-of-the-art infrastructure, job-role based emerging specialisations, innovative pedagogy, contemporary curriculum, multifaceted faculties, strong industry collaborations, and impeccable placements.

The curriculum focuses on knowledge based course work integrated with skill development as a part of training. It equally helps in inculcating the scientific temper necessary for the Lifelong learning process. It has emerged as the top choice for students who want to become the next- generation technocrats, innovators, developers, and creators.

About Aerospace Engineering

Aerospace Engineering is the upcoming field of engineering that deals with the development of aircraft and spacecraft. It consists of two major branches, Aeronautical Engineering and Astronautical Engineering. Aeronautical Engineering deals with aircraft whereas Astronautical Engineering deals with the spacecraft.

The Aerospace Engineering program at DSU offers a comprehensive undergraduate curriculum aimed at producing skilled and innovative Aerospace Engineers. Students are equipped with theoretical knowledge and practical skills necessary for conceptualizing, designing, analysing, and developing mechanical systems. Interdisciplinary training expands their scope, while experienced faculty with industry connections enrich the learning experience. The Department offers a vibrant academic atmosphere that enables independent research and the free exchange of ideas among students and faculties. The department has continuous interaction with Aerospace and Defense organizations of international reputation like Dassault Systems to help students build the required skill set.



VISION

To become a global leader in Aerospace Engineering education and research by transforming individuals to be creative, innovative and socially responsible citizens desired by industry, research organizations and society.



MISSION

To impart technical knowledge, ethical values, practical and entrepreneurial skills to transform individuals into competent engineers.

Program Overview

The Department in its curriculum delivers the fundamental and advanced courses to cater the need of students in various domains. Department address it by formulating courses in multiple areas of aerospace engineering such as aerodynamics, Structures, Propulsion and materials. Being a multidisciplinary program, it is required to meet the needs of students by expanding the courses into the fields of electronics, CSE and more. Courses designed by the department such as Avionics, AI & ML, Control systems fulfil the above aspects. Department in hands with DASSULT systems, trains the students on 3d experience software towards advanced design and simulation. Students on graduating will have a complete understanding of this software with futuristic approach.

Admission Eligibility Criteria

Pass in PUC / 10+2 examination with Physics and Mathematics as compulsory subjects along with one of the Chemistry / Biotechnology / Biology / Computer Science / Electronics / Technical Vocational subjects and obtained at least 45% marks (40% in case of candidate belonging to SC/ST & OBC category) in the above subjects taken together, of any Board recognized by the respective State Governments / Central Government / Union Territories or any other qualification recognized as equivalent there to.

Career BOOOM in Aerospace Engineering? (Industry Insights)

The Aerospace Engineering industry is experiencing unprecedented growth, and there has never been a better time to be part of this exciting journey. Bengaluru, as India's aerospace hub, faces a growing demand for skilled professionals from both local entities like National Aerospace Laboratories and global giants like Rolls Royce and SpaceX. The Department of Aerospace Engineering at our university goes beyond the standard curriculum, offering additional training and practical experiences aligned with national and global industry needs.

Here's why:

Industry Expansion

Aerospace engineering encompasses aircraft and spacecraft development, with constant advancements in drone technologies, satellite technologies, autonomous systems, air transport, and space-based internet technologies the opportunities are expanding

Global Opportunities

The demand for aerospace engineers is not limited by borders. With DSU's program, you position yourself to explore international opportunities in the commercial and defence sectors, making your career truly take off.

Innovation at its Core

From advancing drone technologies and satellite systems to pioneering autonomous vehicles & space-based internet, the aerospace sector offers diverse opportunities for those equipped with the skills to drive innovation forward





Emerging Jobs in Aerospace Engineering

Aerospace Engineering isn't just a field; it's a universe of opportunities waiting to be explored. With DSU's B. Tech in Aerospace Engineering, you can tap into the emerging job opportunities that this dynamic field offers.

Here's a glimpse

Design Engineer

Shape the future of aerospace technology by contributing to the design and development of innovative aircraft and spacecraft systems.

CAE Analyst

Dive into computer-aided engineering, playing a crucial role in the analysis and optimization of aerospace components.

Research & Development

Be at the forefront of advancements in drone technologies, satellite technologies, and more, as a key player in aerospace research labs.

Safety Engineer

Ensure the reliability and safety of aerospace systems, contributing to the industry's commitment to excellence.

Production Planning and Quality Assurance

Play a pivotal role in ensuring efficient production processes and maintaining the highest standards of quality.

Career & Placements

100% Ground Breaking Placement Record

Average Salary
5.64 LPA

Maximum Salary
35 LPA

Companies Visited
450+

Aerospace Engineering Lab for Experiential Learning

DSU has established a Centre of Excellence (COE) in Aerospace Engineering with M/s. Dassault Systems (DS/3DS) who will be the technology partner, COE for Aerospace & Defence - Government of Karnataka, a knowledge partner and M/s. Dymech Consultancy Services Pvt. Ltd. (DCS) as the interfacing partner.

The CoE is aimed to strengthen technical education infrastructure to promote industry relevant skill. The COE will have the state-of-the-art Labs including:

Product Design and Development

Flight Physics Validation

Aerospace Structures Design

Avionics

Aircraft Systems

Reality

Composites



Objective of CoE projects

Objective

Enable skill development for improved livelihoods and social upliftment.

Competency

Impart modern technical skills to create industry-ready human capital.

Knowledge & R&D

Establish high-end assets for skill development center to foster human capital formation.

Industry Linkages

Forge partnerships with industry for live exposure to technology, project work, and processes.

Placements

Boost recruitment through DS/DCS HR initiatives and industry collaborations within CoE.

Institute Role

Collaborate with DS, CoE — A & D (GoK), and DCS to establish and facilitate institutional cooperation for CoE.

Our Top Recruiters



Cognizant

accenture

Prodapt powering global telecom

Capgemini



Mercedes-Benz



Infosys

KOCH

kyndryl



Mindtree

Chegg



L&T Infotech

IQVIA



Mu Sigma
DO THE MATH

pwc

thouCentric labs
RESOLVE. EVOLVE.

CitiusTech

tcs TATA CONSULTANCY SERVICES

intel

JPMORGAN CHASE & CO.

USTGlobal

INMOVIDU
TRANSFORM YOURSELF

ivy comptech



ACCOLITE DIGITAL
Transforming The Future, Now



6D Technologies
Smart Ideas, Delivered

We Shape You,
Go and Shape the World !

Glimpse of DSU Main Campus at Harohalli



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