

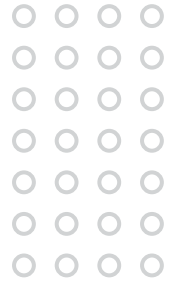


KALINGA INSTITUTE OF INDUSTRIAL TECHNOLOGY

Deemed to be University U/S 3 of the UGC Act, 1956

SCHOOL OF AEROSPACE ENGINEERING

Information Brochure



School of Aerospace Engineering

www.ksae.kiit.ac.in



B.Tech in
Aerospace
Engineering

KSAE

Campus-08

Bhubaneswar, 751024

Odisha, India

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Message from

Leadership



India is writing its most ambitious chapter in the skies from Gaganyaan to indigenous fighter jets, from a \$44-billion space economy target to over two lakh new aerospace jobs by 2033. The question is no longer whether India will be an aerospace power. The question is who will build it? At KIIT, we believe the answer walks through our gates every year.

The School of Aerospace Engineering was born from a simple conviction that Odisha, and indeed every corner of India, must have a seat at the table where the future of flight, space, and defence is decided. Our students don't just study aerospace. They design, build, and fly. They compete with the best. They are placed with the best. To every young dreamer I say the sky was never the limit. It was always just the beginning. Come, let us build what the world hasn't imagined yet.

Prof. (Dr.) Achyuta Samanta

Founder, KIIT, KISS and KIMS



Prof. (Dr.) Saranjit Singh

Vice Chancellor, KIIT DU

Aerospace Engineering in India offers vast opportunities driven by the rapid growth of the aviation sector. With increasing demand for design, manufacturing, maintenance, and testing, skilled engineers are highly sought after in both public and private sectors.

Aligned with the vision of Atmanirbhar Bharat, KIIT actively promotes collaboration between academia, R&D, and industry. With advanced laboratories and modern computational facilities, the School of Aerospace Engineering provides a strong learning and research environment.

KIIT aims to emerge as a leading centre in aerospace education, research, and industry solutions.



Prof. (Dr.) Mrutyunjay Jena

Dean, Aerospace Engineering)

Established in 1992, KIIT – Deemed to be University is a leading institution for higher education in India. The B.Tech in Aerospace Engineering, introduced in 2016, is supported by experienced faculty from academia and industry.

The program prepares students for diverse career opportunities in aviation, airlines, and global aerospace industries across government and private sectors. With strong industry collaboration and growing demand in India, KIIT-DU offers an ideal platform for aspiring aerospace professionals.

For those passionate about aircraft and space, this program is your gateway to a high-flying career.



What We Offer

B. Tech - Aerospace Engineering

Aerospace Engineering in KIIT – Deemed to be University offers not only classroom education but also provides research opportunities in critical areas such as aircraft structures, aerodynamics, propulsion, aircraft stability, aircraft maintenance and more. Our comprehensive undergraduate program combines rigorous classroom instruction with practical, real-world applications, culminating in an innovative capstone project where students design, build, and fly their own aircraft. This hands-on experience ensures that our graduates are not only equipped with a deep theoretical understanding but also possess the practical skills and problem-solving abilities necessary for a successful and dynamic career in the ever-evolving aerospace industry.



B. Tech Aerospace Engineering

Duration:
4 Years / Full Time



Eligibility: Successfully completed the 10+2 examination with a focus on Physics, Chemistry, and Mathematics/ Biology, securing a minimum of 60% marks.

or

Qualified in a minimum 3-year Diploma examination with at least 60% marks

About Program

The B. Tech in Aerospace Engineering program at KIIT provides a comprehensive foundation in the principles of aerospace, equipping students with the knowledge to explore both basic concepts and advanced applications. Students are trained in designing and developing cutting-edge launch vehicles, aircraft, and spacecraft, preparing them for roles at the forefront of technological innovation.

Aerospace Engineering is the study of systems that operate in the sky, where precision and reliability are paramount. Unlike conventional systems on the ground, aerospace systems demand detailed theoretical and experimental analysis to ensure optimal performance.

Graduates of this program have vast career opportunities in both aviation and space industries, with the potential to work in commercial and defense sectors. They can pursue roles in public and private organizations around the world, contributing to advancements in space exploration research and technology. Moreover, the rapidly growing field of drone technology presents exciting new avenues. From satellite systems to autonomous vehicles, air transport, and space-based internet, aerospace engineers play a pivotal role in shaping the future of aerospace and beyond.

Program Highlights:

- Internship Program for practical Exposure

Why Apply

- Aerospace domain deals with aircraft, helicopter, missiles, rockets, spacecraft.
- Engineering activities involve design and development, manufacturing and repair, testing and validation, deployment and operation.
- Concepts of Mathematics, Computer programming, Science and Technology are used.
- Various specializations are Aerodynamics, Propulsion, Avionics, Dynamics and Control, System Integration and Aviation.
- Benefits of pursuing aerospace engineering include opportunity to innovate, rewarding salary, growing demand across the globe and global recognition.

Career Opportunities



- Aviation Manager
- Design Engineer
- Mission Specialist
- Propulsion Engineer
- Aerospace Engineer
- Aeronautical Designer
- Materials Engineer
- Spacecraft Manufacturer
- Aircraft Manufacturing & Repair Engineer
- Aircraft Systems Engineer
- Structural Engineer
- Data Scientist.



Aviation Industry:

- Flight Test Engineer
- Aircraft Maintenance Engineer
- Flight Systems Engineer



Space Industry:

- Spacecraft Design Engineer
- Satellite Systems Engineer
- Space Mission Planner
- Orbital Mechanics Specialist
- Space Research Scientist



Defense Sector:

- Military Aircraft Engineer
- Weapons Systems Engineer
- Defense Research & Development Engineer



Emerging Technologies:

- Drone Development Engineer
- Autonomous Vehicle Engineer
- Aerospace Robotics Engineer



Public and Private Sector R&D:

- Aerospace Research Scientist
- Engineering Consultant
- Project Manager
- Aircraft Design Engineer
- Aerodynamics Engineer



Academic and Research Institutions:

- Aerospace Engineering Faculty
- Aerospace Researcher



Entrepreneurship and Startups:

- Aerospace Startup Founder
- Innovator in Advanced Aerospace Technologies

Testimonial



Nihar Ranjan Nayak

B.Tech. (Aerospace Engineering)
2018-2022

"Enormous gratitude to all the professors and faculty of SOAE for their unwavering support and guidance. Their mentorship was instrumental in securing my placement at TATA Advanced Systems. Thank you for believing in me and shaping my career journey."

Placed at TATA ADVANCED SYSTEMS LIMITED





Roshni Parida

B.Tech. (Aerospace Engineering)

I'm privileged to be part of KIIT Aerospace Engineering department. Grateful to the aerospace faculty for all the support throughout our 4 year journey. Heartly thankyou for the guidance at every step.

Placed at Capgemini



Ayush Boral

B.Tech. (Aerospace Engineering)

KIIT gave me a launching pad for my career. The faculty helped me shape my future nurturing my interests and curiosity.

Placed at Directorate General of Civil Aviation(DGCA)



Faculty

Name	Academic Designation	Highest Qualification	Specialisation
Mrutyunjay Jena	Assoc. Professor (Dean)	PhD	Propulsion, Control Systems, Gas Dynamics
Chinmay Kundu	Assoc. Professor	PhD, Post Doc.	Aerostructures
Srikant Panigrahi	Asst. Professor	M. Tech (PhD Contd...)	Avionics
Anil Ku. Rout	Asst. Professor	PhD	Propulsion
Pramod Ku. Mallick	Asst. Professor	PhD	Flight Mechanics
Umakanta Meher	Asst. Professor	PhD	Aerostructures
Pankaj Chaudhary	Asst. Professor	M. Tech (PhD Contd...)	Aerodynamics & Flight Dynamics and Control
Devabrata Sahoo	Asst. Professor	PhD	Aerodynamics
Shanta Chakraborty	Asst. Professor	PhD	Aerospace Materials
Jitendra Ku. Patel	Asst. Professor	PhD	Aviation Fuel & Combustion
Asit Ku. Behera	Asst. Professor	PhD	Mfg. Technology
Manoj Ukamanal	Asst. Professor	PhD	Instrumentation and Control





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