

ACS COLLEGE OF ENGINEERING BENGALURU

(Affiliated to VTU, Belagavi, Approved by AICTE, New Delhi and Govt. of Karnataka)

DEPARTMENT OF AERONAUTICAL ENGINEERING

NEWSLETTER

FLIGHT – 4, TAKE OFF – 1

2017-2018



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AERONAUTICAL DEPARTMENT

NEWSLETTER

ABOUT AERONAUTICAL DEPARTMENT

The Department of Aeronautical Engineering aims to provide talented, motivated and competent students with Aeronautical engineering curriculum of the highest quality that will enable them to reach the global standard.

COURSE OFFERED

B.E - AERONAUTICAL ENGINEERING

With the intensions to fulfill the increasing demands of skilled manpower in Aero-based industries and hence to serve the society, the Department of Aeronautical Engineering was established in year 2010 with under Graduate Course in Bachelor of Engineering in Aeronautical Engineering under VTU, Belgaum. The course is approved by AICTE, New Delhi and two batches have been graduated successfully



AERONAUTICAL DEPARTMENT NEWSLETTER

VISION

To be at the focus of the Aerospace orbit with Global at the Apogee and Nation at the Perigee.



MISSION

Lift the knowledge of students beyond the sky of syllabus to become engineering leaders. Dragging the national and global resources for making the student as skilled managers. Thrusting the students to propel beyond the atmosphere of Employment to Entrepreneurship Weightage to shape the students from I to PI to excel as an ethical and responsible citizens.

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PROGRAM SPECIFIC OUTCOMES(PSOS)

PSO-1: AEROMODELLING Apply their Engineering knowledge of all the fundamental core subjects and the Hardware & Software skills in the development (Design, Fabrication, Analysis, Testing and Flying) of aero models (RC, UAV & DRONES)

PSO-2: AEROSPACE EXPOSURE Students will be given additional exposure in advanced development in the fields like Aerospace and helicopter designs

PSO-3: CAREER IMPROVEMENT THROUGH NETWORK Graduates will get quality Industrial exposure and carrier opportunity in the field of Aeronautics and Aerospace from eminent scientists of ISRO, NAL and DRDO taking advantage from the department strong network

PROGRAM OUTCOMES(POS)

PO1 – Engineering Knowledge: Apply knowledge of mathematics and science, with fundamentals of Aeronautical Engineering to be able to solve complex engineering problems related to Aeronautical Engineering.

PO2 – Problem Analysis: Identify, Formulate, review research literature and analyse complex engineering problems related to Aeronautical Engineering and reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.

PO3 – Design/Development of solutions: Design solutions for complex aircraft problems related to Aeronautical Engineering and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety and the cultural societal and environmental considerations

PROGRAM OUTCOMES(POS)

PO4 – Conduct Investigations of Complex problems: Use research-based knowledge and research methods including design of aircraft structure experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO5 – Modern Tool Usage: Create, Select and apply appropriate techniques, resources and modern engineering and IT tools including prediction and modeling to Aeronautical Engineering related complex engineering activities with an understanding of the limitations.

PO6 – The Engineer and Society: Apply Reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the Aeronautical professional engineering practice.

PO7 – Environment and Sustainability: Understand the impact of the Aeronautical professional engineering solutions in societal and environmental contexts and demonstrate the knowledge of, and need for sustainable development

PO8 – Ethics: Apply Ethical Principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9 – Individual and Team Work: Function effectively as an individual and as a member or leader in diverse teams and in multidisciplinary Settings.

PO10 – Communication: Communicate effectively on complex engineering activities with the engineering community and with High society and with write effective reports and design documentation, make effective presentations and give and receive clear instructions.

PO11 – Project Management and Finance: Demonstrate knowledge and understanding of the engineering management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multi-disciplinary environments.

PO12 – Life-Long Learning: Recognize the need for and have the preparation and ability to engage in independent and life-long learning the broadest content of technological change.

AERONAUTICAL DEPARTMENT DETAILS

FACULTY DETAILS

STUDENT DETAILS

PARTICULARS	QUANTITY
TEACHING FACULTY	13
NON TEACHING FACULTY	3
COMPLETED Ph. D	3
PURSUING Ph. D	2
M.E/M.TECH/M.S	8

PARTICULARS	QUANTITY
I – YEAR	57
II – YEAR	50
III – YEAR	36
IV - YEAR	51
Total	194

Department is equipped with following laboratories:

- Aerodynamics Laboratory
- Propulsion Laboratory
- Structures Laboratory
- Energy Conversion Laboratory
- Mechanical Measurements and Metrology Laboratory
- Machine shop laboratory
- Design , Modeling and Analysis Laboratory
- Simulation Laboratory
- Foundry and Forging Laboratory
- Metallography and Material Testing Laboratory

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LABORATORY DETAILS



Aerodynamics Lab



Propulsion Lab



Structures Lab



Energy conversion Lab

LABORATORY DETAILS



Mechanical measurements & Metrology Lab



Machine Shop Lab



Design, Modeling & Analysis Lab



Simulation Lab



Foundry & Forging Lab



Metallography & Material Testing Lab

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PROGRAMME ORGANIZED IN THE DEPARTMENT

**Advancements in Helicopter design by prof NagaRajan Hindustan University
(EX DGM, HAL-Bangalore) held on 11/11/17.**



**Recent Advancements in Aircrafts & Simulators by Dr. Elvin Prasad,
Technology officer, Mobilicas Robotics Pvt Ltd, Malaysia held on 10/11/17**



Career opportunities in Higher Education's in Aerospace fields by Career opportunities in Higher Education's in Aerospace fields held on 24/10/17



Career opportunities in Aerospace, Aviation and Defence by Mr. Prahlad Vice President Business Development, maini group held on 25/09/17



**6 Sigma concepts by Prof Vivekananda moorthy
KCG College of Engineering, Chennai held on 18/08/17**



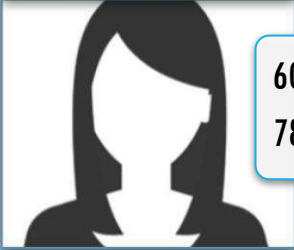
Student's participation in the competitions



RANK HOLDERS

4TH YEAR

YASHASWINI.V



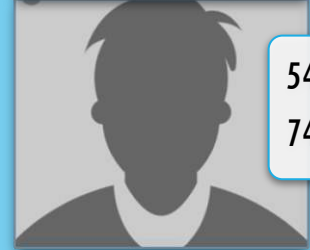
605
78%

PARASHURAM VITHAL



598
75%

CHANDAN L.S



545
74%

3RD YEAR

NAVEEN



701
88%

DEEKSHA



597
75%

KAVYA MS



577
72%

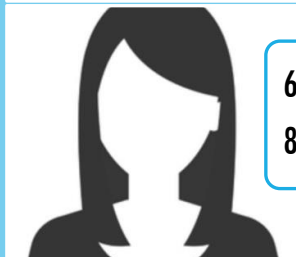
2ND YEAR

SUSMITHA KATTI



680
91%

PRIYANKA



654
87%

RAKSHA .G



609
81%