



# A.C.S. COLLEGE OF ENGINEERING

## BENGALURU

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

### DEPARTMENT OF AERONAUTICAL ENGINEERING

# NEWSLETTER

FLIGHT – 2, TAKE OFF – 1

2015-2016



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Moogambigai Charitable & Educational Trust

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##### **Mr. R. R. Elangovan**

Professor & Head  
Department of Aeronautical Engineering

##### **Mr. P. Soma**

Professor  
Department of Aeronautical Engineering

#### Editors

##### **Dr. R. Mukesh**

Associate Professor  
Department of Aeronautical Engineering

##### **Mr. R. B. Dhanya prakash**

Associate Professor  
Department of Aeronautical Engineering

##### **Mr. V. Ramji**

Assistant Professor  
Department of Aeronautical Engineering

## 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.

## COURSES 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



*2010 – 2014 batch Aeronautical Engineering Students*



*2011 – 2015 batch Aeronautical Engineering Students*

**FACULTY DETAILS**

<b>PARTICULARS</b>	<b>QUANTITY</b>
<b>TEACHING FACULTY</b>	<b>10</b>
<b>NON TEACHING FACULTY</b>	<b>3</b>
<b>COMPLETED Ph. D</b>	<b>1</b>
<b>PURSUING Ph. D</b>	<b>2</b>
<b>M.E/M.TECH/M.S</b>	<b>7</b>

**STUDENT DETAILS**

<b>PARTICULARS</b>	<b>QUANTITY</b>
<b>I –YEAR</b>	<b>48</b>
<b>II – YEAR</b>	<b>38</b>
<b>III – YEAR</b>	<b>51</b>
<b>IV - YEAR</b>	<b>38</b>
<b>Total</b>	<b>175</b>

**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



LABORATORY DETAILS



Aerodynamics Lab



Propulsion Lab



Structures Lab



Energy conversion Lab

## LABORATORIES DETAILS



Mechanical measurements & Metrology Lab



Machine Shop Lab



Design, Modeling & Analysis Lab



Simulation Lab



Foundry & Forging Lab



Metallography & Material Testing Lab


## MEMORANDUM OF UNDERSTANDING SIGNED BY THE DEPARTMENT

S.No	PROGRAMME
1	MOU between <b>ACSCE and ISRO</b> is under process for the Installation of <b>IRNSS Receiver</b> in the ACSCE college premises.
2	MOU between <b>ACSCE and Sukra Helitek</b> for the use of Sukra Helitek software for research and students projects.

## GUEST LECTURES DELIVERED BY THE FACULTIES IN OTHER NOTABLE VENUES

S.No	DETAILS OF GUEST LECTURES
1	Prof. R.R. Elangovan delivered guest lecturer on “Future Launch Vehicles” in Adhyanan College of Engineering, Hosur.
2	Prof. R.R. Elangovan delivered guest lecturer on “ Destination Mars” in IEL, Chennai.
3	Prof. R.R. Elangovan delivered guest lecturer “Career opportunities” in SAA, Bengaluru.
4	Dr. R. Mukesh delivered a Guest Lecture on “How to Proceed research and Publish Papers” in Anna university, Dindigul.
5	Mr. Dhanya Prakash R babu delivered a guest Lecture on “ Aircraft Structures” during FDP held at RRCE.

## UNIVERSITY TOPPERS

			
RAJASHREE D	LAVANYA C	VIDYASHREE	YASHASWINI.V

## PROGRAMME ORGANIZED IN THE DEPARTMENT

S.No	PROGRAMME
1	Inauguration of SAE- Collegiate club on 27 <sup>th</sup> April, 2016
2	Guest Lecture delivered by Air force Wing Commander Mr. S.N. Moorthi and Former HAL DGM, Mr. R. Arunagiri.
3	Two days National Conference FLEIGH on “Advances in Aerospace Technologies” on 4 <sup>th</sup> and 5 <sup>th</sup> March 2016.
4	One day National Level Seminar on “Advanced Aerospace Propulsion and Cryogenics”, by Padma Shri. V. Gnanagandhi, Rtd. Scientist ISRO, on 4 <sup>th</sup> March 2016.
5	Inauguration of IE(I) – Aerospace Division, Student Chapter on 3 <sup>rd</sup> March, 2016.
6	One day Seminar on “Design, Tracking and Control of Satellites”, jointly organized by ACSCE and ISRO on 25 <sup>th</sup> February 2016.
7	Guest Lecture delivered on “Recent Trends in Aerospace” by Mr. Perimal & Mr. Harsha, Brainstorming Pvt. Ltd
8	National Level workshop on “Space mechanics” delivered by ISRO scientists T. K. Sundara moorthy and Prof. P Soma
9	One day student conference “ PRESENTECH – 2015” was organised on 7 <sup>th</sup> November 2015
10	A National level Technical symposium “Vayurvyuha” was conducted on 14 <sup>th</sup> - 16 <sup>th</sup> October 2015





**one day Seminar on “Design, Tracking and Control of Satellites**



**Inauguration of IE(I) Student Chapter**

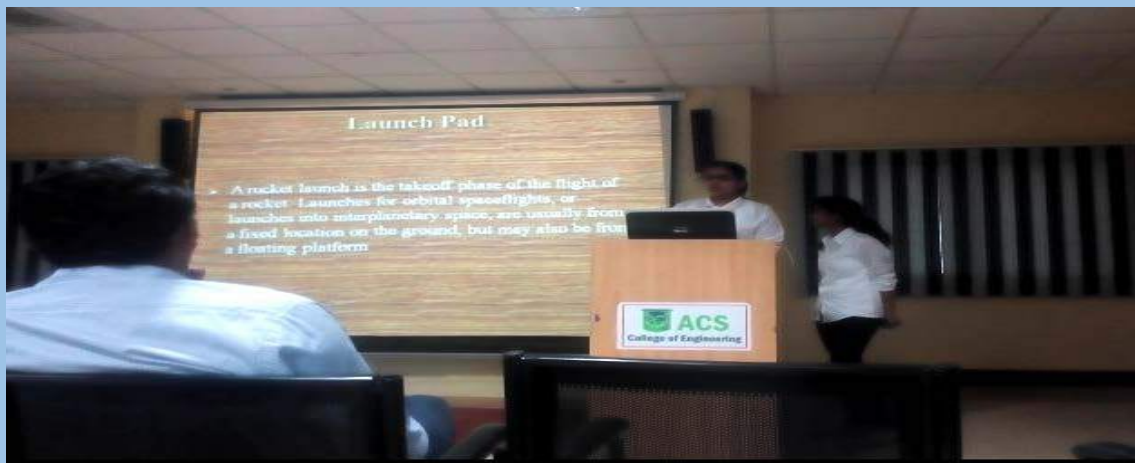


**Fresher's Party**





**HAL Industrial visit**



**Presentech 2015-16**



**SAE Collegiate club Inauguration**



**Sambharam Tech Fest 2015**



**Teacher's Day Celebration**



**Vayurvyuha - 2015**





Vayurvyuha -2015



Annual Sports meet - 2016



Annual Cultural Fest-2016





Guest Lecture by Padmasri. Mr. V. Gnanagandhi



Guest Lecture by Mr. Arunagiri



National level workshop on Space Mechanics



Guest Lecture by Mr. Perimal

## STUDENT PROJECT WORK

S.No	PROGRAMME
1	Thirteen projects were undertaken by Final year students in the academic year 2015-16
2	Four Students (Rajashree.D, Abhinaya Sree. R, Harish. R and Satish kumar kanhar) were assigned with a project work at Indian Institute of Science, Bangalore.
3	Four Students (Jnanendra .R, Kiran .V C, Rashmi .N V and Vinutha. R C) were permitted to carry out their project work in LCA Tejas Division, HAL, Bangalore.
4	Three Students (Aaliya Rafi . M, Goutham . A G and Praveen. R L) were accepted to do a project work in Overhaul Division, HAL, Bangalore.
5	Three Students (Sandeep Reddy, Shaik Mansoor Ali and kavitha. A) were accepted to do a project work in Aircraft Division, HAL, Bangalore.
6	Four Students (Ajay Sampath. H A, Priyanka. C Hattikal, Vivek chettri and Gavish B Herakkal) were accepted to do a project work in ARDC, HAL, Bangalore.
7	Three Students (Athulya .S, Janardhan .N and Lavanya. C) were accepted to do a project work in Seine product Design Pvt Ltd, Bangalore.
8	Four Students (Manushree. S, Pragathi. y, Madhan. B N and Aditya. A R) were accepted to do a project work in Seine product Design Pvt Ltd, Bangalore.

## INDUSTRIAL VISIT, IN-PLANT TRAINING & INTERNSHIPS

S.No	PROGRAMME
1	Second Year students had an opportunity of visiting HAL Heritage Centre as an one day industrial visit on 5 <sup>th</sup> November 2015.
2	Two Students (Dhanush. S & Vaishnavi G Prasad) have undergone a two weeks internship at GTRE, Bangalore.
3	Five Students (Indushree. KM, Nisarga. N, Harshitha. N, Surabhi S Bharadwaj & Tanushree. B R) have undergone an In Plant Training at HAL, Bangalore
4	Three Students (Mansi, Bhavana Shetty, & Bharath.B) have undergone a Internship at HAL, Bangalore

## CO-CURRICULAR AND EXTRA-CURRICULAR ACTIVITIES

S.No	AWARDS AND ACHIEVEMENTS
1	Vijay and Chandan secured 2nd place in water rocketry in Sambhram tech fest held at Mangalore.
2	Shobha and Jagannath secured 2nd place in gliders in Sambhram tech fest held at Mangalore.
3	Aeronautical department girls team won Winners up in Basket ball game during College annual Sports meet 2015-2016.
4	Aeronautical department girls team won Winners up in Throw ball game during College annual Sports meet 2015-2016.
5	Aeronautical department Boys team won Runners up in Basket ball game during College annual Sports meet 2015-2016.
6	Aeronautical department Boys relay team (Achuthan G R, Shashank, Parashurtam Vitthal and Shalvin Raj K H) won Winners up in College annual Sports meet 2015-2016.
7	Aeronautical department Boys relay team (Shakthi Prakash, Kushal S Morey, Nagendra and Vinay Kumar) won Runners up in College annual Sports meet 2015-2016.
8	Shakthi Prakash won first place in Table tennis Singles held at annual sports meet 2015-16.
9	Bhavana Shetty, Nisarga and Surabhi S Bharadwaj won first, second and Third place respectively in Chess tournament held at annual sports meet 2015-16.
10	Bhavana Shetty won first place in 100m held at annual sports meet 2015-16.
11	Achuthan G R and Shashank won first and second place in Long Jump held at annual sports meet 2015-16.
12	Vishwanath Hiremath won Second place in Chess held at annual sports meet 2015-16.



## STAFF ACHIEVEMENT

S.No	PROGRAMME
1	Dr. R. Mukesh, Associate professor, has presented a paper titled "Airfoil Design Optimization and its Validation using Wind Tunnel and Numerical Simulation" in the Anna University College of Engineering, Villupuram, Tamil Nadu on October-2015.
2	Mr. R. Dhanya Prakash, Associate professor, has presented a paper titled "Surrogate Model for Aerospace Applications" in the National Conference on Advances in Aerospace Technologies, ACS College of Engineering, Bangalore on March 2016.
3	Mr. Venkatesh Kusnur, Assistant professor, has presented a paper titled "Estimation of base drag of spinning projectiles" in the National Conference on Advances in Aerospace Technologies, ACS College of Engineering, Bangalore on March 2016.
4	Mr. Prashant S Manvi, Assistant professor, has presented a paper titled "Redesign of Fuselage Floor Panel with Different Composite Architecture for Weight Reduction" in the National Conference on Advances in Aerospace Technologies, ACS College of Engineering, Bangalore on March 2016
5	R. Mukesh, A. Muruganandham and K. Lingadurai, "On the Use of Kriging Based Surrogate Model for NACA 0012 Airfoil Design Optimization" In: Proceedings of ICONSTEM 2016, Jeppiaar Engineering College, Chennai, Tamil Nadu, India, March -2016.
6	R. Mukesh and J. Jensin Joshua, "Self Healing Capsules" In: Proceedings of ICSDMA 2016, Kongu Engineering College, Erode, Tamil Nadu, India, March-2016.
7	R. Mukesh and V. Ramji, "Design and Numerical Simulation of Convergent Divergent Nozzle" In: Proceedings of ICMED 2016, SSN College of Engineering, Chennai, Tamil Nadu, India, April-2016.
8	R. Mukesh and J. Jensin Joshua, "Self Healing Capsules" In: International Journal of Applied Engineering Research, Volume 10, No. 5, pp. 208-213. <b>ISSN 1087-1090.</b>
9	Mr. Dhanya Prakash R Babu, Associate Professor, attended an one day international Conference on "Recent Developments and advances in Aeroelasticity" organized by Royal Aeronautical Society held at London on 14 <sup>th</sup> March 2016

## PROFESSIONAL BODIES

### SOCIETY FOR AUTOMOTIVE ENGINEERS (INDIA) – COLLEGIATE CLUB

CHAIR PERSON	Mr. NERIL LESTER LOBO	VICE CHAIR PERSON	Mr. RAJESH FRANKLIN G
SECRETARY	Mr. NIKHIL SHANKAR R	VICE SECRETARY	Mr. BASAVARAJ HABBAD
TREASURER	Ms. NISARGA N	ASSISTANT TREASURER	Ms. VINILA NADGOUDA
RECEPTION CHAIR	Ms. POOJA SUNKAD	PUBLICITY CHAIR	Mr. K KAIVALLYA
MEMBERSHIP CHAIR	Mr. SHAKTHI PRAKASH	PROGRAMME CHAIR	Mr. VIJAY KUMAR R
CONVENER	Mr. ANOOP KARPUR A		





### INSTITUTION OF ENGINEERS (INDIA) – AEROSPACE DIVISION STUDENT CHAPTER

CHAIR PERSON	Mr. PANKAJ P HIREMATH	VICE CHAIR PERSON	Mr. PRAVEEN KUMAR M
SECRETARY	Mr. DHANUSH S	CONVENER	Mr. JAGANATH N
TREASURER	Ms. VAISHNAVI G PRASAD	ASSISTANT TREASURER	Ms. SHREE B
RECEPTION CHAIR	Ms. MEGHANA A R	PUBLICITY CHAIR	Ms. AMREEN TAJ
MEMBERSHIP CHAIR	Mr. UDAYA RAJ D	PROGRAMME CHAIR	Mr. RUDRESH H M

## MEMBERSHIP OF PROFESSIONAL BODIES

S.No	PROGRAMME
1	Mr. R. R. Elangovan, Professor & Head is the Life Time member of AeSI
2	Mr. Dhanya Praksh R.B , Associate professor is a member of AeSI and MISTE
3	Dr. R. Mukesh, Associate Professor is a member of IEEE, SAE and RAS
4	Mr. Inamul Hasan M, Assistant Professor is a member of IE(I).
5	Mr. Radha Krishnan P, Assistant Professor is a member of IE(I).
6	Mr. Ramji V, Assistant Professor is a member of IE(I).

## CLASS TOPPERS

BATCH	I RANK	II RANK	III RANK
<b>III SEMESTER</b>			
2014 – 2018	 YASHASWINI.V – 82%	 Tanmayi – 77%	 SANJAY S – 76%
	<b>V SEMESTER</b>		
	2013 – 2017	 Gagana S -76.78%	 NERIL LESTER LOBO – 75.11%
<b>VII SEMESTER</b>			
2012 – 2016		 RAJASHREE D– 88.22	 LAVANYA .C– 79.11%

## PLACEMENT

Our students are placed in Intel, Wipro, Mindtree, EMC<sup>2</sup>, HCL, Capgemini, Tech Mahindra etc. Some of the students are Entrepreneur and some of them are doing their Higher studies.

## OUR RECRUITERS

