



# ACS COLLEGE OF ENGINEERING BENGALURU

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

## DEPARTMENT OF AEROSPACE ENGINEERING

# NEWSLETTER



2020-2021



### Chief Patrons

**Dr. A.C. Shanmugam**

Chairman

Moogambigai Charitable & Educational Trust

**Sri. A.C.S. Arunkumar**

Vice Chairman

RajaRajeswari Group of Institutions

### Patrons

**Dr. S. Vijayanand**

Executive Director

RajaRajeswari Group of Institutions

**Dr. S. Jayabalan**

Special Officer

RajaRajeswari Group of Institutions

### Chief Editor

**Dr. R. Mukesh**

Professor & Head

Department of Aerospace Engineering

### Editor

**Mr. R. Ganesh**

Tutor

Department of Aerospace Engineering

## ABOUT AEROSPACE DEPARTMENT

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

## COURSES OFFERED

### B.E – AEROSPACE 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 Aerospace Engineering was established in year 2017 with under Graduate Course in Bachelor of Engineering in Aerospace Engineering under VTU, Belagavi. The course is approved by AICTE, New Delhi



*2017– 2021 batch Aerospace Engineering Students*

## FACULTY DETAILS

PARTICULARS	QUANTITY
TEACHING FACULTY	11
NON TEACHING FACULTY	03
COMPLETED Ph. D	02
PURSUING Ph. D	01
M.E/M.TECH/M.S	08

## STUDENT DETAILS

PARTICULARS	QUANTITY
I –YEAR	38
II – YEAR	49
III – YEAR	38
IV –YEAR	33
Total	158

### 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
- Avionics and Instrumentation Laboratory



## LABORATORY DETAILS



Aerodynamics Lab



Propulsion Lab



Structures Lab



Energy conversion Lab



Mechanical measurements &  
Metrology Lab



Machine Shop Lab

## LABORATORIES DETAILS



Design, Modeling & Analysis Lab



Simulation Lab



Foundry & Forging Lab



Metallography & Material Testing Lab



Flight Simulator



IRNSS Lab



## Cut Sectional Aircraft Engines

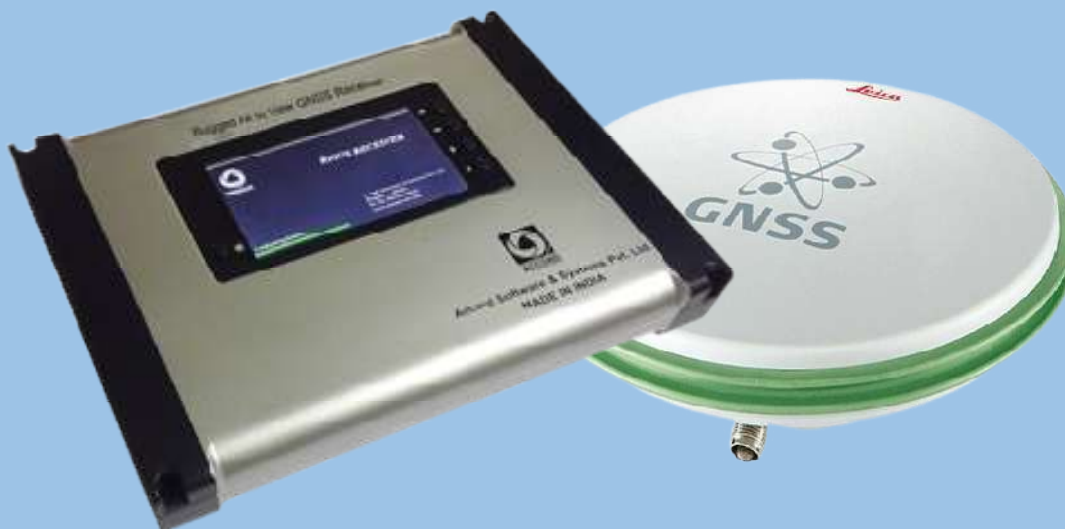


**Tumansky R – 25 – 300 Series Supersonic Jet Engine**



**14 Cylinder Radial Aircraft Engine**

## Research Equipments Details



**Multi View GNSS Receiver**

## Upcoming Facility Details



**Supersonic Wind Tunnel**

- Nozzles with Mach numbers 2 & 2.5
- Test Section Size 100mm (H) 100mm (W) 300mm(L)
- Schlieren setup with 6 inch diameter parabolic mirrors and DSLR camera
- Computerised DAQ with Lab view analysis software, 8 channel data acquisition
- Steady state run time = 30 seconds (maximum)



## MEMORANDUM OF UNDERSTANDING SIGNED BY THE DEPARTMENT

S.No	Company/Organization/Institution Name
1.	Accord Software and Systems
2.	SS Technologies (STK Software)
3.	Simulation and Innovation (SANDI) Engineering Solutions
4.	Ray Dynamics, Coimbatore.
5.	BridgeNow Academy, Bangalore.



**MOU with Accord Software and Systems**



**PROGRAMME ORGANIZED IN THE DEPARTMENT**

<b>S.No</b>	<b>PROGRAMME</b>
<b>1</b>	Webinar on “ARINC 702A Advanced Flight Management Computer System” - 08-08-2020
<b>2</b>	Webinar on “State of the Art of Small Satellites & A Student-run Cubesat Program at Nanyang Technological University” – 22-08-2020
<b>3</b>	Webinar on “Seaplane and Hovercraft – Indian seacoast & Lakes”-15-10-2020
<b>4</b>	Webinar on “System toolkit software”- 27-11-2020
<b>5</b>	Webinar on “Evolution of Flight vehicle control, Guidance and sensors”- 12-12-2020
<b>6</b>	Webinar on “Introduction to Advanced Electronics in Aviation”- 29-12-2020
<b>7</b>	Webinar on “Applications of Artificial Intelligence in Aerospace Engineering”- 19-05-2021
<b>8</b>	Webinar on “Damage predictions on Nano Composites after high velocity Impact”- 22-05-2021
<b>9</b>	Webinar on “3D high lift flow computations”-28-05-2021

## PROGRAMME ORGANIZED IN THE DEPARTMENT

S.No	PROGRAMME
10	Webinar on “Aviation/Aerospace – Be Different / Hobby corner – HAM radio ” – 29-05-2021
11	Webinar on “Design perspectives in morphing wings and overview” – 04-06-2021
12	Webinar on “Indian NavIC and other GNSS – Research analysis and challenges” - 05-06-2021
13	Webinar on “Nanomaterials for Energy Storage Applications” – 12-06-2021
14	Webinar on “Flow through variable area ducts and influence of shockwaves” – 16-06-2021
15	Webinar on “Safety and Airworthiness in Aviation” - 17-06-2021
16	Webinar on “Non planar wing concept for commercial aircraft” – 19-06-2021
17	Webinar on “ The View from space Competitive Collaboration for space Development ” – 24-06-2021



**ACS COLLEGE OF ENGINEERING**  
#207, Kambipura, Mysore Road, Bangalore – 560 074.  
Affiliated to VTU, Belagavi, Approved by AICTE, New Delhi and Govt. Of Karnataka

**Department of Aerospace Engineering**  
PRESENTS WEBINAR ON  
**“ARINC 702A Advanced Flight Management Computer System”**



**Resource Person**  
  
**Mr. S. Ramesh Raju**  
Lead Application Engineer  
Honeywell Aerospace, Bengaluru

Registration Free  
<https://tinyurl.com/y3e5rnv9>  
\*E-Certificate will be issued

Event Co-Ordinator: **Mr. J. Siva** Ph: 08667291504  
Head of the Institution: **Dr. M. S. Murali** Principal  
Date: 08-08-2020 (Saturday)  
Time: 11:00AM to 12:00PM

## Webinar on “ARINC 702A Advanced Flight Management Computer System”

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#207, Kambipura, Mysore Road, Bengaluru - 560 074

**Department of Aerospace Engineering**  
Presents Webinar On  
**State of the art of small satellites and A student-run CubeSat Program at Nanyang Technological University**  
on 22<sup>nd</sup> August 2020 @ 3 PM to 4 PM



**Resource Person**  
**Mr. S. Shanmugasundaram**  
Research Engineer,  
Satellite Research Centre,  
NTU, Singapore




Event Coordinators: **Mr. J. Siva** | Ph: 08667291504  
Head of the Institution: **Dr. M. S. Murali** | Principal | ACSCE

Registration Link: <https://tinyurl.com/yymwnjd2> | \*E-certificate will be provided


## Webinar on “State of the art of small satellites and a student-run Cubesat Program”

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**Department of Aerospace and Aeronautical Engineering**  
On the Occasion of 89<sup>th</sup> Birth Anniversary Celebration of  
**Dr. A.P.J Abdul Kalam**  
and World Student's Day



Presents Webinar on  
**“Seaplane and Hovercraft - Indian Seacoast & Lakes”**

**Resource Person**  
  
**Dr. K. Ramachandra**  
Outstanding Scientist  
and Former Director - GTRE  
DRDO, Ministry of Defence, GOI.


You were born with wings  
**Don't Crawl**  
Learn to use them to  
**Fly and Fly**  
- Dr. A.P.J. Abdul Kalam

Event Co-Ordinator: **Mr. J. Siva** Ph: 08667291504  
Head of the Institution: **Dr. M. S. Murali** Principal

Date : 15<sup>th</sup> October 2020 (Thursday) Time : 2:00pm to 3:00pm  
Register Here : <https://forms.gle/9W4nH332RC8q4>

## Webinar on “Seaplane and Hovercraft – Indian seacoast & Lakes”



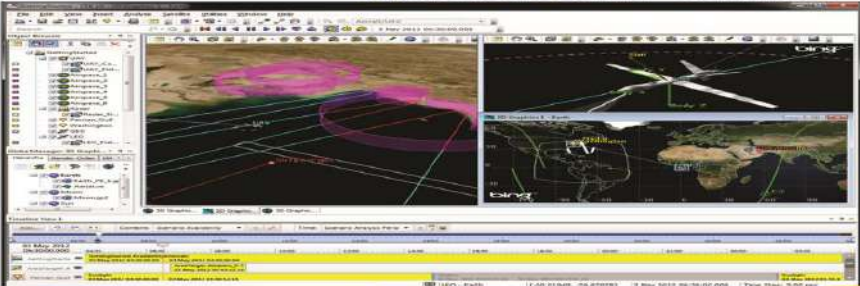


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### Department of Aerospace Engineering

**PRESENTS WEBINAR ON**  
**“Systems Tool Kit - Software”**



**Resource Person**



**Mr. Dhanish Abdul Khader**  
Space System Engineer,  
SS Technologies, Bangalore-78

Registration Free  
<https://tinyurl.com/y5xu399x>  
 \*E-Certificate will be issued

**Date: 27-11-2020 (Friday)**  
**Time: 11:00AM to 12:00PM**

Event Co-Ordinator

**Mr. J. Siva**  
Ph: 08667291504

Head of  
the Institution

**Dr.M.S. Murali**  
Principal

## Webinar on “System toolkit software”



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### Dept. of Aerospace & Aeronautical Engineering

**PRESENTS WEBINAR ON**  
**“Evolution of Flight Vehicle Control, Guidance and Sensors Since Second World War”**



**Resource Person**



**Dr. Achintya Krishna Sarkar**  
Professor  
Dept. of Aeronautical Engineering,  
Nitte Meenakshi Institute Of Technology  
Yelahanka, Bangalore

Registration Free  
<https://tinyurl.com/yydf2kv6>  
 \*E-Certificate will be issued

**Date: 12-12-2020 (Saturday)**  
**Time: 02:30PM to 03:30PM**

Event Co-Ordinator

**Mr. J. Siva**  
Ph: 08667291504

**Dr. C. Ramanan**  
Ph: 09965418124

Head of the Institution

**Dr.M.S. Murali**  
Principal

## Webinar on “Evolution of Flight vehicle control, Guidance and Sensors”



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### Dept. of Aerospace Engineering

**PRESENTS WEBINAR ON**  
**“Introduction to Advanced Electronics in Aviation”**



**Resource Person**



**Mr. R. Ramesh Babu**  
B.E., AIE., M(AeSI)  
Managing Partner-Ray Dynamics  
Coimbatore

Registration Free  
<https://tinyurl.com/yan3fxcpx>  
 \*E-Certificate will be issued

**Date: 29-12-2020 (Tuesday)**  
**Time: 10:00AM**

Event Co-Ordinator

**Mr. J. Siva**  
Ph: 08667291504

Head of the Institution

**Dr.M.S. Murali**  
Principal

## Webinar on “Introduction to Advanced Electronics in Aviation”



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Mysore Road, Bengaluru, Karnataka.



**DEPARTMENT OF AEROSPACE ENGINEERING**  
*Presents Webinar on*  
**“APPLICATIONS OF  
ARTIFICIAL INTELLIGENCE IN  
AEROSPACE ENGINEERING”**

*Date*  
19-05-2021  
*Time*  
11:00 AM

**Event Coordinator**  
Mr.J.SIVA  
Ph:8667291504

**Head of the Institution**  
Dr.M.S.MURALI  
PRINCIPAL

*Registration Free*  
<https://forms.gle/JBFq24EUSWoJxveS9>  
*\*E-Certificates will be issued*



**Resource Person:**  
Dr. B V N RAMAKUMAR  
Professor and Chairman  
Dayananda Sagar  
University

## Webinar on “Applications of Artificial Intelligence in Aerospace Engineering”

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Mysore Road, Bengaluru, Karnataka.



**DEPARTMENT OF AEROSPACE ENGINEERING**  
*Presents Webinar on*  
**“DAMAGE PREDICTIONS ON  
NANOCOMPOSITES AFTER HIGH  
VELOCITY IMPACT”.**



**Resource Person:**  
Dr. P.S.VENKATANARAYANAN,  
EX-SERVICEMAN - IAF,  
PROFESSOR - HITS, CHENNAI.

*Registration Free*  
<https://forms.gle/pArcsntYLDqRqnlQ9>  
*\*E-Certificates will be issued*

**Event Coordinator**  
Mr.J.SIVA  
Ph:8667291504

**Head of the Institution**  
Dr.M.S. MURALI  
PRINCIPAL

May  
**22**  
2021

**L**  
TIME  
10:00 AM

## Webinar on “Damage predictions on Nano Composites after high velocity Impact”

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**DEPARTMENT OF AEROSPACE ENGINEERING**  
*Presents Webinar on*  
**“3D HIGH LIFT FLOW  
COMPUTATIONS ”**

*Date*  
20-05-2021  
*Time*  
12:00 PM

**Event Coordinator**  
Mr.J.SIVA  
Ph:8667291504

**Head of the Institution**  
Dr. M.S. MURALI  
PRINCIPAL

*Registration Free*  
<https://forms.gle/JUNH8hxn6QHbsscd9>  
*\*E-Certificates will be issued*



**Resource Person:**  
Dr. N. GOPALAKRISHNA,  
Assistant Professor,  
M.S. RAMAIAH UNIVERSITY  
OF APPLIED SCIENCES.

## Webinar on “3D high lift flow computations”



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**DEPARTMENT OF AEROSPACE ENGINEERING**

*Presents Webinar on*

**“DESIGN PERSPECTIVES IN MORPHING WINGS: AN OVERVIEW”**

**RESOURCE PERSON**  
**GAUTHAM VIGNESWAR P N,**  
 Former Design Engineer,  
 UTC Aerospace.  
 Research Scholar, IIT Madras.

**Registration Free**  
<https://forms.gle/iwcxFDVLHRgHTa7b7>  
 \*E-Certificates will be issued

**Event Coordinator**  
 Mr.J. SIVA  
 Ph:8667291504

**Head of the Institution**  
 Dr.M.S. MURALI  
 PRINCIPAL

**Date**  
**04-06-2021**

**Time**  
**10:00 AM**

Webinar on “Design perspectives in morphing wings an overview”

Webinar on  
 “Aviation/Aerospace – Be  
 Different / Hobby corner –  
 HAM radio ”

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**DEPARTMENT OF AEROSPACE ENGINEERING**

*Presents Webinar on*

**Indian NavIC and Other GNSS - Research Analysis and Challenges**

**Resource Person:**  
**Dr NAVEENKUMAR PERUMALLA,**  
 Associate Professor & Coordinating Officer (MoU (ISRO - OU))  
 Department of ECE,  
 Osmania University,  
 Hyderabad - Telangana.

**DATE:**  
 05-06-2021  
**TIME:**  
 02:00 PM

**Event Coordinator**  
 Mr.J. SIVA  
 Ph:8667291504

**Registration Free**  
<https://forms.gle/tVLEdVatstVXXQ6>  
 \*E-Certificates will be issued

**Head of the Institution**  
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**DEPARTMENT OF AEROSPACE ENGINEERING**

*Presents Webinar on*

**AVIATION / AEROSPACE - BE DIFFERENT / HOBBY CORNER - HAM RADIO**

**Date : 29-05-2021**  
**Time : 10:00 AM**

**\*E-Certificates will be issued**

**Registration Free**  
<https://forms.gle/Yq1QQ8QHm3KQb7N7>

**Event Coordinator**  
 Mr.J. SIVA  
 Ph:8667291504

**Head of the Institution**  
 Dr.M.S. MURALI  
 PRINCIPAL

**Resource Person:**  
**KALYAN RAMAN N,**  
 MBA (AVIATION)  
 MANAGER,  
 ZEPHYR AEROSPACE.

Webinar on “Indian NavIC and other GNSS – Research analysis and challenges”



## Webinar on “Nanomaterials for Energy Storage applications”



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**DEPARTMENT OF AEROSPACE ENGINEERING**  
*Presents Webinar on*

**"FLOW THROUGH VARIABLE AREA DUCTS AND INFLUENCE OF SHOCK WAVES"**



**RESOURCE PERSON**  
**Mr. RAMAKRISHNA MADHIRA**  
(Expert in Supersonic Wind Tunnel Design),  
Dept. of Aeronautical Engg.,  
Bharath Institute of Higher  
Education and Research,  
CHENNAI.

**Registration Free**  
<https://forms.gle/qQ2SNbnD1A5Vf8c89>  
\*E-Certificates will be issued

**Event Coordinator**  
**Mr.J. SIVA**  
Ph:8667291504

**Head of the Institution**  
**Dr.M.S. MURALI**  
PRINCIPAL

**11:00 AM**  
**16-06-2021**

## Webinar on “Safety and Airworthiness in Aviation”



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**DEPARTMENT OF AEROSPACE ENGINEERING**  
*Presents Webinar on*

**"NANOMATERIALS FOR ENERGY AND STORAGE APPLICATIONS"**



**Resource Person:**  
**Dr. S. KALPANA,**  
Associate Professor,  
**AMET University,**  
**Chennai.**

**Registration Free:**  
<https://forms.gle/BkpEzKwoqzNDyz38>

**12 JUNE 2021 | 03:00 - 04:00 P.M.**

\*E-Certificates will be issued

**Event Coordinator**  
**Mr.J. SIVA**  
Ph:8667291504

**Head of the Institution**  
**Dr.M.S. MURALI**  
PRINCIPAL

## Webinar on “Flow through variable area ducts and influence of shockwaves”



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Mysore Road, Bengaluru, Karnataka.

**DEPARTMENT OF AEROSPACE ENGINEERING**  
*Presents Webinar on*

**SAFETY AND AIRWORTHINESS IN AVIATION**



**Resource Person:**  
**Shri P JAYAPAL,**  
Outstanding Scientist,  
Former Chief Executive,  
**CEMILAC (DRDO).**

**DATE**  
17-06-2021  
**TIME**  
11:00 AM

**Scan to Register**

**Registration Free**  
<https://forms.gle/f4nuZPHK9kdYlms8>  
\*E-Certificates will be issued

**Event Coordinator**  
**Mr.J. SIVA**  
Ph:8667291504

**Head of the Institution**  
**Dr.M.S. MURALI**  
PRINCIPAL



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Mysore Road, Bengaluru, Karnataka.



**DEPARTMENT OF AEROSPACE ENGINEERING**  
*Presents Webinar on*  
**NON PLANAR WING CONCEPT FOR COMMERCIAL AIRCRAFT**

**19-06-2021**  
**10:30 AM**  
Registration Free  
<https://forms.gle/3eNC9tyKzXqzXhjJ8>  
E-Certificates will be issued

Event Coordinator: **Mr. J. SIVA**  
Ph: 8667291504

Head of the Institution: **Dr. M. S. MURALI**  
PRINCIPAL

Resource Person:  
**Dr SURESH C**  
Department of  
Aeronautical Engineering,  
Hindustan College of  
Engineering & Technology,  
Coimbatore.

Webinar on “Non planar wing concept for commercial aircraft”

Webinar on “The View from Space: Competitive Collaboration for Space Development”



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**DEPARTMENT OF AEROSPACE ENGINEERING**  
*Presents Webinar on*  
**"THE VIEW FROM SPACE: COMPETITIVE COLLABORATION FOR SPACE DEVELOPMENT"**

**24-06-2021**  
**03:30 PM**  
Registration Free  
<https://forms.gle/PeXUH7PmDatIG8>  
E-Certificates will be issued

Event Coordinator: **Mr. J. SIVA**  
Ph: 8667291504

Head of the Institution: **Dr. M. S. MURALI**  
PRINCIPAL

RESOURCE PERSON  
**LUWANGA CHRISTOPHER**  
Research Scholar, Satellite  
Research Centre II (SaRC-II),  
**NANYANG TECHNOLOGICAL UNIVERSITY SINGAPORE**



## STUDENT PROJECT WORK

S.No	PROJECT DETAILS
1	Ice accretion analysis and De-icing on a Aircraft/UAV
2	Ice accretion analysis and De-icing on a Helicopter
3	Calculation of calorific values for different solid shapes and combination of propellants
4	Small UAV design and development
5	Airfoil/ wing shape optimization for Defence UAV
6	Ionospheric Studies using GNSS data
7	Prediction of ice accretion in aircraft by using surrogate model.
8	Preparation of composite materials for aerospace applications.

## Funded Projects

S.No	PROGRAMME
1	Amount of Rs. 9.59 Lakhs received for the Project Titled “Design and CFD Analysis of UAV” from ADE, DRDO.

## STAFF ACHIEVEMENT

S.No	PUBLICATIONS
1	R. Mukesh, S. Kiruthiga, S. Mythili, M. Vijay and D. Venkata Ratnam “Analysis of TEC values predicted by OKSM amongst low, mid and high latitude stations during X 9.3 Solar Flare”, Astrophysics and Space Science, <b>Springer</b> , 80-2021, <a href="https://doi.org/10.1007/s10509-021-03986-8">https://doi.org/10.1007/s10509-021-03986-8</a> . <b>ISSN: 1572-946X. (IF: 1.830).</b>
2	R. Mukesh, P. Soma, V. Karthikeyan and P. Sindhu “Prediction of TEC using NavIC/GPS data with geostatistical method/forecasting capability comparison with other models”, Astrophysics and Space Science, <b>Springer</b> , 9-2020, 365:152, <a href="https://doi.org/10.1007/s10509-020-03868-5">https://doi.org/10.1007/s10509-020-03868-5</a> . <b>ISSN: 1572-946X. (IF: 1.830).</b>
3	<b>R. Mukesh</b> , P. Soma, V. Karthikeyan and P. Sindhu “Ordinary kriging - and cokriging - based surrogate model for ionospheric TEC prediction using NavIC/GPS data”, Acta Geophysica, <b>Springer</b> , 8-2020, <a href="https://doi.org/10.1007/s11600-020-00473-6">https://doi.org/10.1007/s11600-020-00473-6</a> . <b>ISSN: 1895-7455. (IF: 2.054)</b>
4	R. Mukesh, V. Karthikeyan, S. Kiruthiga, S. Mythili and M. Vijay “Prediction of GPS TEC during the X9.3 Solar Flare for DGAR low latitude station by using OKSM”, Journal of Physics, 1979(1), 012060, 2021. <a href="https://doi.org/10.1088/1742-6596/1979/1/012060">https://doi.org/10.1088/1742-6596/1979/1/012060</a> . <b>ISSN: 1742 6588.</b>

S.No	PROGRAMME/PRESENTATIONS
1	Mr. J Siva participated in 5 days FDP in Advances in Computational Fluid Dynamics conducted by Symbiosis Institute of Technology.
2	Mr. J Siva participated in 6 days FDP in Emerging Research Areas in Aerodynamics conducted by Bannari Amman Institute of Technology.
3	Dr. R. Mukesh Presented a Paper Titled “Prediction of GPS TEC during the X9.3 Solar Flare by using OKMM” In: IVCACME21, Kongu Engineering College, Erode, India, April 2021.
4	Dr. R. Mukesh Presented a Paper Titled “Prediction of GPS TEC during the X9.3 Solar Flare for DGAR low latitude station by using OKSM” In: Proceedings of ICAIISEN21, SRM TRP Engineering College, Trichy, India, April 2021.



## MEMBERSHIP OF PROFESSIONAL BODIES

S.No	PROFESSIONAL BODIES
1.	Dr. R. Mukesh, Professor is a member of IEEE, SAE and RAS
2.	Dr. C. Suresh, Associate Professor is a member of ISTE and IEL.
3.	Mr. V. Paramaguru, Assistant Professor is a member of ISTE and IEL.

## CLASS TOPPERS

BATCH	I RANK	II RANK	III RANK
II Year			
2019 – 2023			
III Year			
2018 – 2022			
IV Year			
2017– 2021			

## OUR RECRUITERS

