

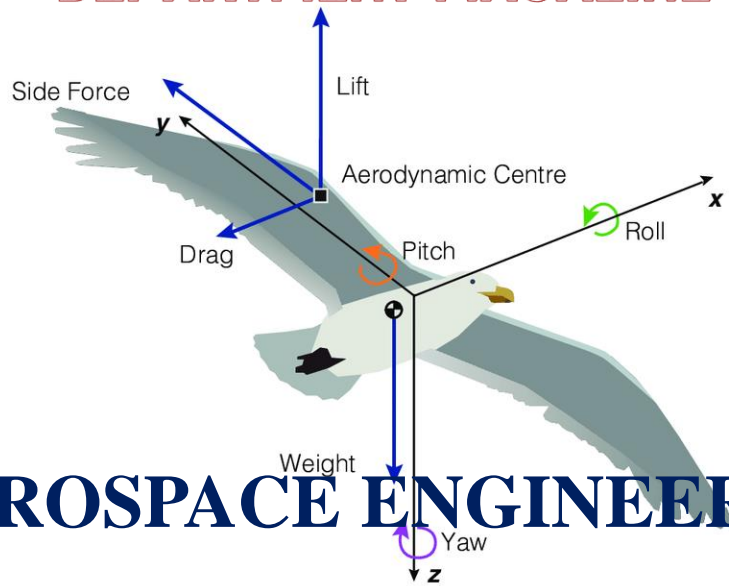


**SRM**  
INSTITUTE OF SCIENCE & TECHNOLOGY  
(Deemed to be University u/s 3 of UGC Act, 1956)



# VIMANA

DEPARTMENT MAGAZINE



## AEROSPACE ENGINEERING

**SRM INSTITUTE OF SCIENCE AND TECHNOLOGY  
KATTANKULATHUR, CHENNAI.**





# VIMANA



## MESSAGE FROM THE HEAD OF THE DEPARTMENT

Dear colleagues,  
Greetings from our department.....



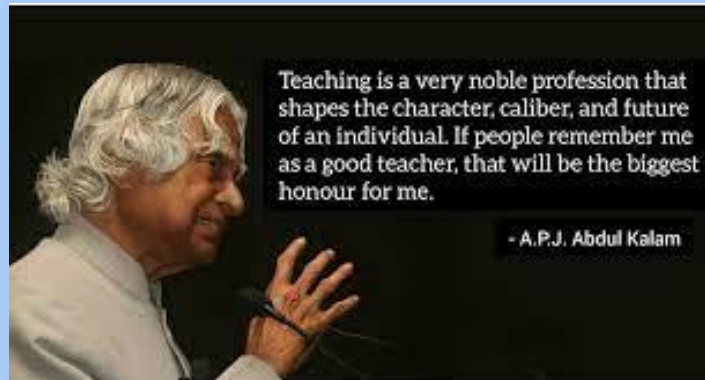
A quote from our former President of India and Missile Man of India (Late) Dr APJ Abdul Kalam “The purpose of education is to make good human beings with skill and expertise. Enlightened human beings can be created by teachers.” Therefore, “Confidence and hard work is the best medicine to kill the disease called failure. It will make you a successful person.”

“Great teachers emanate out of knowledge, passion and compassion.”

I congratulate the editorial board members for their great efforts to bring out this magazine successfully.

**Dr L.R.Ganapathy Subramanian, FIE**

# FACULTY PAGE





# VIMANA



## JOURNAL PUBLICATIONS

Mohamed Arif R, Ketu Satish Kumar Reddy, and Somaraju Sai Sri Vishnu. "Bio-inspired optimization of leading edge slat." *Aircraft Engineering and Aerospace Technology* 95, no. 5 (2023): 725-733.

Saravanakumar K., C. Suresh Kumar, and V. Arumugam. "Effect of elevated temperature on indentation response of glass/epoxy laminates hybridised with milled fibres." *International Journal of Materials Engineering Innovation* 14, no. 1 (2023): 34-48.

Saravanan, G. "Experimental studies on combustion performance of beeswax-paraffin blended solid fuels in a hybrid rocket." *Indian Journal of Chemical Technology (IJCT)* 30, no. 1 (2023): 35-45.

Dadhich Bhavesh, Fenil Bamnoliya, Edison Rajasingh, and Senthilkumar Sundararaj. *Enhancing Aerodynamic Performance of Savonius Vertical Axis Wind Turbine used with Triboelectric Generator*. No. 2022-28-0507. SAE Technical Paper, 2022.

Senthilkumar Sundararaj, Suhashini Basu Roy, and Ajay Hudge. *Effect of Wall Proximity and Shape on Bubble Enhanced Heat Transfer from a Vertical Heated Surface*. No. 2022-28-0508. SAE Technical Paper, 2022.

Bharanitharan Jambulingam, and Senthilkumar Sundararaj. *A Combined Automotive Exhaust Heat Recovery Technique Using Phase Change Material and Jet Impingement Heat Transfer with Wall Protrusions and Baffle*. No. 2022-28-0512. SAE Technical Paper, 2022.

Kuttum Pavan Kumar , Pratik Prakash Gupta , Shung-Wen Kang and Senthilkumar Sundararaj. "Numerical Flow Investigation of Hybrid Regenerator." *Journal of the Chinese Society of Mechanical Engineers* 43, no. 6 (2022): 499-507.

Rajkumar S , Parthasarathy Vasanthakumar, Aravindh Kumar S M, and Ethirajan Rathakrishnan. "Supersonic jet mixing in the presence of two annular co-flow streams." *International Journal of Turbo & Jet-Engines* (2023).

Selvakumaran T, Aniket Bhanudas Kolekar, Koli Gajanan Chandrashekhar, Rohit Pandey, Mohammad Shahid, K. Rajesh, P. Ragupathi, Asheesh Kumar, and Balkeshwar Singh. "Investigation of Mechanical Behavior and Surface Characteristics of Cold Spray Metallized B 4 C/AA7075 Composites Coated by AZ64 Alloy through Plasma Electrolytic Oxidation." *Journal of Nanomaterials* 2023 (2023).

Nandita Roy, and S. Gurusideswar. "Material characterization of polymer nanocomposites for aerospace applications." *Materials Today: Proceedings* (2023).



# VIMANA



**Aeronautical Sector Skill Council (ASSC)**  
वैमानिकी क्षेत्र कौशल परिषद



**SRM**  
INSTITUTE OF SCIENCE & TECHNOLOGY  
(Deemed to be University u/s 3 of UGC Act, 1956)

**Aeronautical Sector Skill Council (ASSC)**

वैमानिकी क्षेत्र कौशल परिषद  
and

10.00am to 4.30pm (IST)

31.01.2023

**DEPARTMENT OF AEROSPACE ENGINEERING**

**SRM INSTITUTE OF SCIENCE AND TECHNOLOGY**

Kattankulathur, Chennai

One-day National Seminar on

Organized by:  
ASSC Students' Chapter



## "Sustainability in Aerospace Industry"

**SPEAKERS:**

No Pollution  
is the Only  
Solution



Prof S.R. Chakravarthy,  
Aerospace Engineering,  
IITM, Chennai.



Mr. Murali Chandrasan  
Senior Director - Intelligent Industry,  
Cag Gemini Invent.



Mr. Antony Jude,  
Team Lead,  
Boeing India.

**Mr.Vivekananthan A**  
Director (Academic Relations), ASSC  
Ms. Krithiga RS  
Joint Director (Academic Relations),ASSC

Venue: Automobile Seminar hall, First floor,  
Automobile hangar, Main Campus

**Dr.L.R.Ganapathy Subramanian**  
Professor & Head / Aerospace / SRM IST  
Dr Selvakumaran T  
Chief Coordinator, ASSC



**Aeronautical Sector Skill Council (ASSC)**  
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वैमानिकी क्षेत्र कौशल परिषद  
and

**DEPARTMENT OF AEROSPACE ENGINEERING**

**SRM INSTITUTE OF SCIENCE AND TECHNOLOGY**

Kattankulathur, Chennai

Inauguration of

## ASSC Students' Chapter

On 31.01.2023

At 9.15am (IST)

Presided by:

**Dr. D. Kingsley Jebasingh,**  
Chairperson,  
School of Mechanical Engineering

**ALL ARE INVITED**

**Mr.Vivekananthan A**  
Director (Academic Relations), ASSC  
Ms. Krithiga RS  
Joint Director (Academic Relations),ASSC

Venue: Automobile Seminar hall, First floor,  
Automobile hangar, Main Campus

**Dr.L.R.Ganapathy Subramanian**  
Professor & Head / Aerospace / SRM IST  
Dr Selvakumaran T  
Chief Coordinator & Convener, ASSC



# VIMANA



## Speakers

Dr.T.R. Paarivendhar, Founder Chancellor  
 Mr. Ravi Pachamoothoo, Pro-Chancellor (Admin)  
 Dr. P. Sathyarayanan, Pro-Chancellor (Academics)  
 Dr. R. Shivakumar, Pro-Chancellor

## Steering Committee

Dr. C. Muthamizhchelvan, Vice-Chancellor  
 Dr. S. Ponnusamy, Registrar  
 Dr. B. Neppolian, Dean (Research)  
 Dr.T.V.Gopal, Dean (CET)  
 Dr. D. Kingsley Jebasingh, Chairperson, SME

## Convener

Dr.L.R.Ganapathy Subramanian,  
 Professor & Head, Department of Aerospace Engineering.

## Co-Conveners

Dr.S.Sivakumar, Associate Professor  
 Dr.S.SenthilKumar, Associate Professor

## Chief Coordinator & convener of ASSC

Dr. T.Selvakumar, Associate Professor

## Department Faculty members

Dr. G.Saravanan, Assistant Professor (SG)  
 Dr.S.Aravindh Kumar, Research Asst Prof.  
 Dr. Kannan B T, Research Asst Professor  
 Dr. Malaikannan G, Research Asst Professor  
 Mr.G.Mahendra Perumal, Asst Professor  
 Mr.S.Rajkumar, Assistant Professor  
 Dr.R.Mohamed Arif, Assistant Professor  
 Mr.N.Bharath, Assistant Professor  
 Dr.K.Allwyn, Assistant Professor  
 Dr.M.Vignesh Kumar, Assistant Professor  
 Mr.K.lynthezhuthon, Assistant Professor  
 Mr.K.B.Ravichandra Kumar, Asst Professor  
 Dr.K.K.Bharadwaj, Assistant Professor  
 Dr.S.Gurusideswar, Assistant Professor  
 Dr.K.Saravananumar, Assistant Professor

## Speaker Details:



Prof.S.R. Chakravarthy,  
 Aerospace Engineering,  
 IITM, Chennai.



Mr. Murali Chandrasan  
 Senior Director - Intelligent Industry,  
 Capgemini Invent.



Mr. Antony Jude,  
 Team Lead,  
 Boeing India.

## Special thanks to

Mr.Vivekananthan A

Director (Academic Relations), ASSC

Ms. Krithiga RS

Joint Director (Academic Relations), ASSC

Ms. Arul Jyothi D,

Admin. Director, Jet Aerospace Aviation  
 Research Centre

Certificate will be provided to all participants



## One-day National Seminar

On

“SUSTAINABILITY IN AEROSPACE  
 INDUSTRY”

JANUARY 31, 2023  
 10.00 am to 4.30pm

Organized by

DEPARTMENT OF AEROSPACE ENGINEERING  
 in association with

Aeronautical Sector Skill Council

&

Jet Aerospace Aviation Research Center

DEPARTMENT OF AEROSPACE ENGINEERING



College of Engineering and Technology  
 SRM Institute of Science and Technology  
 Kattankulathur, Chennai - 603203.  
 Chengalpattu (DT), Tamilnadu.

## THE INSTITUTE

SRM Institute of Science and Technology (SRMIST) is one of the top ranked universities in India with over 50,000 students and 3,000 plus faculty members, offering a wide range of Undergraduate, Postgraduate and Doctoral Programs in Engineering, Medicine & Health Sciences, Management, Science & Humanities, Law, and Agricultural Sciences. Over the last three decades, it has set standards in experiential learning and knowledge creation across various fields. It has reached beyond borders to Universities and corporates across India and around the World. There are four sprawling campuses three in and around Chennai, and one near New Delhi spread across 250 acres with all facilities. It had conducted 98 Indian Science Congress in January, 2011 which was attended by 7,000 delegates from India and abroad, including six Nobel Laureates and several eminent scientists. SRM IST is the first private University in India to launch a nano-satellite, named SRMSAT, into space, on board the PSLV-C18 from Sriharikota on October 12, 2011. The institution has grown up through international alliances and collaborative initiatives to achieve global excellence. Over 200 students are sponsored for 35-foreign Universities like MIT, Carnegie Mellon, UC Davis, Warwick and Western Australia annually. SRM IST is accredited by NAAC with the highest Grade of 'A+'. QS, the world renowned international ranking agency, has rated SRMIST as 'Four Star, Institute and QS-IGAUGE has awarded Diamond Rating to SRMIST. SRMIST is classified as Category I University by UGC/MHRD and enjoys 12B status too under UGC Act.

## DEPARTMENT OF AEROSPACE ENGINEERING

The Department of Aerospace Engineering was established in 2007. It offers four years degree B.Tech Program. It has well equipped laboratories. Our Aerospace hangar houses Cessna, Eurocopter, Kiran aircraft, Airbus A300 simulator, different types of engines and landing gear components. Aerodynamics lab comprises of subsonic & supersonic wind-tunnel, sophisticated high-speed jet facility, smoke tunnel, boundary layer tunnel, etc; Aircraft Structures lab; Aero fluid mechanics lab; CFD lab & Advanced computation lab; Material Testing lab; Avionics lab and Dr. APJ Abdul Kalam Memorial Propulsion Laboratory, exclusively for solid propellant making and firing to determine thrust, burn rate and to study combustion characteristics with high speed camera. The department had received AR&DB grant funded project and few consultancy projects too.

## ABOUT THE SEMINAR

### TOPICS:

- ✓ Electric aircraft propulsion
- ✓ Sustainability in Aerospace Industry
- ✓ Sustainable aviation



## AERONAUTICAL SECTOR SKILL COUNCIL

Aeronautical Sector Skill Council (ASSC), Office of Skill Development & Entrepreneurship, Kerala, India provides complete support for their growth, welfare and to achieve self-sustainability in a time-bound manner. Aeronautical Sector Skill Council (ASSC) helps to facilitate knowledge transfer, funding, Affiliation, Accreditation, Apprenticeship, Internships and Employment Opportunities in Aeronautical sector for the benefit of various organizations/institutions. It promotes Collaborations with various organizations under mentioned sectors.

## JET AEROSPACE AVIATION RESEARCH CENTER

Jet Aerospace is India's Largest Drones & Nanosatellite Research Division working in the field for past 10 years. Jet Aerospace is an advanced technological forum for the Researchers & Scholars to promote the innovations by displaying their knowledge in the vicinity of Science and Technology for the service of mankind and the advancement of general welfare. Jet Aerospace is the one and only Aerospace Organization providing complete solutions for all requirements in academics and industries under Aerospace & Aviation Sector. We outsource high quality products and equipment for Government Tenders and UAV/Drone Lab Setup & Requirements. We are an association of Top reputed Universities, Academicians, Professionals, Scientists, Engineers & Scholars with the mission to accomplish high quality knowledge & innovation in Research. We have partnered with IHFC - IIT Delhi (Technology Innovation Hub of IIT Delhi) for establishing Innovation Center - Drone Technology Park. We are Affiliated & Accredited as In-House R&D Unit by Aeronautical Sector Skill Council (ASSC).



# VIMANA



## Inauguration of ASSC Students' Chapter & One-day National Seminar on "Sustainability in Aerospace Industry"

**Date: 31.01.2023**

**Venue: Automobile Seminar Hall, First floor, Automobile hangar, Main Campus, SRMIST, KTR.**

**Time: 9.15 am to 4.30 pm.**

### INAUGURATION OF ASSC STUDENTS' CHAPTER



#### Lighting Kuthuvilakku



Chairperson lights lamp



HoD/Aerospace lights lamp



Dr S Sivakumar lights lamp



Dr Selvakumaran T lights lamp



Student Ms Keshika lights lamp



Welcome address by HoD/Aerospace



Felicitating Chairperson



Presidential address by Chairperson



# VIMANA



## Distributing ASSC students' lifetime membership cards



Chairperson to Yash Varma



Chairperson to Riya Prasad



Chairperson to Avinash Rajvikumar



Chairperson to Praneel Sharma



Chairperson to Prema Kumari



Chairperson to Nikil Senthilkumar



Chairperson to Sarita Maity



Chairperson to Laxmi Waghmare



Chairperson to Akash M



HoD/Aerospace to Joshi Sameer Riddhi



HoD/Aerospace to Sivaramakrishnan



HoD/Aerospace to Chimi Lhamo



HoD/Aerospace to Tashi Nima



HoD/Aerospace to Appasaheb Adesh



Dr S Sivakumar to Sanjay



Dr S Sivakumar to Amal Asokan



Dr S Sivakumar to Urvi Bachhav



Dr S Sivakumar to Aditya Raj



Dr S Sivakumar to Thirumurugan



Dr S Sivakumar to Shaik Sameer



Dr S Sivakumar to Adarsh Kartik



Dr S Sivakumar to Aakash K



# VIMANA



Distributing ASSC students' lifetime membership cards



Dr S Sivakumar to Sai Nithin



Audience



Vote of thanks by Dr S Sivakumar

**Session 1 speaker:**

**About the talk of Dr SR Chakravarthy**



Dr SR Chakravarthy, Professor, Aerospace, IITM, Chennai received by our chairperson

Session started with introduction of electric flight and how are they far better than combustion aircraft. Various electric flights the specs how the modifications are made and recent trendy electric flight which NASA's working on as well as the concept of distributed electric propulsion which is been NASA working on trying to bring down the weight of engine. So explain the concept of aerodynamic circulation over long wing total cross sectional area. Around 10 electric vehicles and its specs were discussed among that Quadcopter, volocopter, vtol, multicopter, hybrid propulsion and combined propulsion technique were discussed in detail.



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Strategical concept which created a new thinking path with a conceptual framework for integrating a Cessna and Tesla as a cessla and how the range of cessla will be. What will be the range of that Cessna compared to the cessla. It is being discussed range of lithium powered electric cessla flight has a huge drawback of battery weight which produces the range which the aircraft can travel compared to the combustion system where their propellant load will be varying and also discussed how lithium battery is not suitable for electric vehicle and how new type of batteries suitable for electric flight need to be researched. Small type of portable electric vehicle on the prime spots of a city or any area which will be a substitute for cars. And discussed about how does cars can reduce the pollution emission of CO<sub>2</sub> and how they can be effectively utilized in Suburban areas. The session concluded with a thought on urban electric flight which is fully electrically operator or hybrid one with a vertical take-off and landing which help in transit of the passengers in near future.



Dr SR Chakravarthy's session



HoD/Aerospace presents a memento to  
Dr SR Chakravarthy



Audience

**Session 2 speaker: Mr. Murali Chandrahasan, Senior Director - Intelligent Industry, Capgemini Invent.**

The session started with explaining what is the sustainability in the industry referring to and what the global countries signed up for. He explained that the global countries have signed up a agreement that by 2050 the countries will become carbon neutral and by 2070 India will become carbon neutral. He stated that not only their combustion exhaust as the main source of pollution which decrease the environment the sustainability has to be developed throughout the industry. In the aerospace sector, he explained the interlink between domains like R&D of product and services, manufacturing elements, sub-system and sub-assemblies, system integration, marketing R&D sales, Product delivery, support and services, retirement and decommissioning are explained briefly.



# VIMANA



The next topic covered was aerospace value chain end to end process cycle. Where he explained the basic phrases in aerospace product manufacturing cycle. A phases like design and development, prototype testing, production deployment & support phase were explained in detail. At the Next topic which was explained were sustainability climate change and carbon accounting. Where he explained scope 1 scope 2 scope 3 types of carbon emission in detail. Then he proceeded to explain Carbon related terms like the basic difference between carbon neutrality and net zero explained. ASTM international, IATA, new standard CORSIA ARE CONTRIBUTING TO DRIVE SUSTAINABILITY IN AEROSPACE GLOBALLY TO FORM A REGULATORY and compliances perspective. He then summarize to the SAGE framework for sustainable Aerospace for greenery and also the sustainability adoption in aerospace and what are all the challenges it faced along with the initiative taken by the world countries. He briefly summarized and concluded the session with s a g e framework on innovative design use case manufacturing case asset management case digital supply chain and innovations in aviation.



Mr. Murali Chandrasan 's session



HoD / Aerospace presents memento to Mr. Murali Chandrasan

**Session 3 speaker: Mr. Antony Jude, Team Lead, Boeing India.**

The session started with the speaker explaining about what is sustainability and what is the sustainability development as a global agenda and what is a sustainable aviation requires. He explain the forecasted evolution of air transport passenger traffic in the year 2050. He briefed of about how the aviation industry contribute 2.5% of global carbon emission and the net zero carbon emission challenge which needs to be attend around the year of 2050. He further went towards explaining the strategy towards net zero carbon emission. He interacted with how much carbon dioxide is released over a one litre of fuel and how much a typical passenger aircraft emits during a 1-hour cruise.



# VIMANA



If one kilogram saved in an aircraft structure can save about 25 tonne of less carbon dioxide over its life time. The Next topic was about making a goal to make a aviation sustainable one. Aviation's impact on climate change, reducing greenhouse gases emission, reduce the amount of fuel being burnt and how to make the design more efficient. The following topics were discussed and areas which needs extensive R&D and immediate application then moved on in briefing on innovative aircraft design, innovative aerodynamic design, SMART vortex generators and how are shape memory alloy can be used. More down to transonic truss-braced wing, efficient engines and sustainability driven by efficient designs advance materials and manufacturing. The concept of bionic partition used in airbus a320 and partition optimization via generative design. Composite penetration and growth over the time of 1980s to 2020s. New material and manufacturing process where the carbon and glass fibre reinforced plastic and on additive manufacturing where the 3D printed nozzles are currently in series production and over 30000 nozzles were produced by the end of 2019. He explained about how rolls Royce uses its new 3D robot control composite manufacturing for its turbine fan blades. Honeycomb panels how it is being used in various places in aircraft and how the plastic composite material which are non-degradable can be replaced with bio composite a new class of materials. The session concluded with How the wiring takes place 7400 kilogram in an aircraft weight in which it can be replaced by a wireless communication system.



Mr. Antony Jude's session



HoD / Aerospace presents a memento to Mr. Antony Jude



Vote of thanks by Dr Selvakumaran T, Associate Professor,  
Chief Coordinator & Convener, ASSC



# VIMANA



## "Three Days Workshop on UAV Technologies"

In association with

The Aeronautical Society of India (AeSI - Chennai Branch)

and

Aeronautical Sector Skill Council (ASSC Chennai Zone)

1st to 3rd February 2023 @ G D Naidu Hall, Mechanical B block, first floor, main campus, SRM IST

<p><b>CHIEF PATRONS</b></p> <p><b>Dr. T. R. Paarivendhar</b> Chancellor, SRMIST</p> <p><b>Dr. Ravi Pachamoothoo</b> Pro-Chancellor (Administration), SRMIST</p> <p><b>Dr. P. Sathyanarayana</b> Pro-Chancellor (Academics), SRMIST</p> <p><b>Prof. Dr. C. Muthamizhchelvan</b> Vice Chancellor, SRMIST</p> <p><b>Prof. Dr. S. Ponnusamy</b> Registrar, SRMIST</p> <p><b>PATRONS</b></p> <p><b>Prof. Dr. T. V. Gopal</b> Dean CET, SRMIST</p> <p><b>Prof. Dr. D. Kingsly Jeba Singh</b> Chairperson SME, SRMIST</p> <p><b>ADVISORY COMMITTEE</b></p> <p><b>Dr. L. R. Ganapathy Subramanian</b> Professor &amp; Head, Dept. of Aerospace Engg.</p> <p><b>Dr. T. Selvakumar</b>, Associate Professor Chief Coordinator of ASSC</p> <p><b>Prof. C. Senthil Kumar</b>, Chairman, Aeronautical Society of India-Chennai Branch</p> <p><b>Dr. P. S. Prem Kumar</b>, Hon. Secretary Aeronautical Society of India-Chennai Branch</p> <p><b>Dr. S. Nadaraja Pillai</b>, Joint Secretary Aeronautical Society of India-Chennai Branch</p> <p><b>CONVENERS</b></p> <p><b>Dr. M. Vignesh Kumar</b>, Assistant Professor <b>Dr. K. Allyn</b>, Assistant Professor</p> <p><b>ORGANISING COMMITTEE MEMBERS</b></p> <p><b>Mr. S. Rajkumar</b>, Assistant Professor <b>Dr. R. Mohamed Arif</b>, Assistant Professor <b>Dr. K. K. Bharadwaj</b>, Assistant Professor <b>Dr. K. Saravakumar</b>, Assistant Professor</p>	<p><b>EXPERT SPEAKERS</b></p> <p><b>Prof. K. Senthilkumar</b> Director, Centre for Aerospace Research MIT campus, Anna University, Chennai</p> <p><b>Dr. Chung-Yan Lin</b>, Director, International Administration Affairs Associate Professor, Dept. of Aeronautical Engg. National Formosa University, Taiwan</p> <p><b>Ms. Krithiga RS</b> Director(Operations), Jet Aerospace Center Head - Innovation Center - Drone Technology Park, IIT Delhi Sonapat Campus</p> <p><b>CHIEF INSTRUCTOR</b></p> <p><b>Mr. A. Vinoth Kumar</b> Technical Lead, HCL Technologies.</p> <p><b>Registration Link</b> <a href="https://forms.gle/mK7m5Wag6t7w8t6">https://forms.gle/mK7m5Wag6t7w8t6</a></p>  <p><b>CONTACT</b></p> <p><b>Dr. M. Vignesh Kumar / Dr. K. Allyn</b> Assistant Professor Department of Aerospace Engineering, SRMIST, Kattankulathur - 603 203 Mobile: + (91) 9940785645 / 9994703629 Email: <a href="mailto:vigneshm1@srmist.edu.in">vigneshm1@srmist.edu.in</a> <a href="mailto:allynk@srmist.edu.in">allynk@srmist.edu.in</a></p>	<p><b>SRM</b> SRM Institute of Science and Technology Kattankulathur, Chennai - 603203</p> <p>Department of <b>Aerospace Engineering</b> in association with</p> <p>Aeronautical Society of India (AeSI) &amp; Aeronautical Sector Skill Council (ASSC)</p> <p>presents</p> <p><b>Three Days Workshop</b> on <b>UAV Technologies</b> 1<sup>st</sup> - 3<sup>rd</sup> February 2023</p>  
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<p><b>ABOUT SRMIST</b></p> <p>SRM Institute of Science and Technology (SRMIST) is one of the top ranked universities in India with over 50,000 plus students and 3000 plus faculty members, offering a wide range of Undergraduate, Postgraduate and Doctoral Programs in Engineering, Medicine &amp; Health Sciences, Management, Science &amp; Humanities, Law, and Agricultural Sciences. Over the last three decades, it has set standards in experiential learning and knowledge creation across various fields. It has reached beyond borders to universities and corporates across India and around the World. There are four sprawling campuses three in and around Chennai, and one near New Delhi spread across 250 acres with all facilities. It had conducted 98th Indian Science Congress in January, 2011 which was attended by 7,000 delegates from India and abroad, including six Nobel Laureates and several eminent scientists. SRM IST is the first private university in India to launch a nano-satellite, named SRMSAT, into space, on board the PSLV-C18 from Sriharikota on October 12, 2011. The institution has grown up through international alliances and collaborative initiatives to achieve global excellence. Over 200 students are sponsored for 35- foreign Universities like MIT, Carnegie Mellon, UC Davis, Warwick and Western Australia annually. SRM IST is accredited by NAAC with the highest Grade of 'A++'. QS, the world renowned international ranking agency, has rated SRMIST as 'Four Star, Institute' and QS-IGAUCE has awarded Diamond Rating to SRMIST. SRMIST is classified as Category I University by UGC/MHRD and enjoys 12B status too under UGC Act.</p>	<p><b>DEPARTMENT OF AEROSPACE ENGINEERING</b></p> <p>The Department of Aerospace Engineering was established in 2007. It offers four years degree B.Tech Program. It has well equipped laboratories. Our Aerospace hangar houses Cessna, Eurocopter, Kiran aircraft, Airbus A300 simulator, different types of engines and landing gear components. Aerodynamics lab comprises of subsonic &amp; supersonic wind-tunnel, sophisticated high-speed jet facility, smoke tunnel, boundary layer tunnel, etc. Aircraft Structures lab, Aero fluid mechanics lab, CFD lab &amp; Advanced computation lab; Material Testing lab; Avionics lab and Dr. APJ Abdul Kalam Memorial Propulsion Laboratory, exclusively for solid propellant making and firing to determine thrust, burn rate and to study combustion characteristics with high speed camera. The department had received AR&amp;DB grant funded project in structures domain &amp; consultancy project from NARL, Tirupathi.</p>	<p><b>THE EVENT</b></p> <p>We invite engineering enthusiasts who have a passion for flight. The event is a workshop on UAV technologies, including Expert lectures and hands-on training sessions. During the training session, participants will be divided into teams of 5, making 10 teams. This will be a 3-days event, with the following plan:</p> <p><b>Day 1:</b> Expert lectures on various intricate technologies involved in UAV's and their significant applications in various fields.</p> <p><b>Day 2:</b> Training on basics of UAV design and fabrication.</p> <p><b>Day 3:</b> Fabrication of Quadcopter UAV and Flight Testing</p> <p><b>TARGET GROUP</b></p> <p>Research scholars and students of engineering background.</p> <p><b>INSTRUCTIONS</b></p> <ul style="list-style-type: none"><li>1 No Registration fee.</li><li>2 Participants should maintain at least 80% attendance.</li><li>3 Participant certificates will be provided to all active participants.</li></ul> 
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# VIMANA



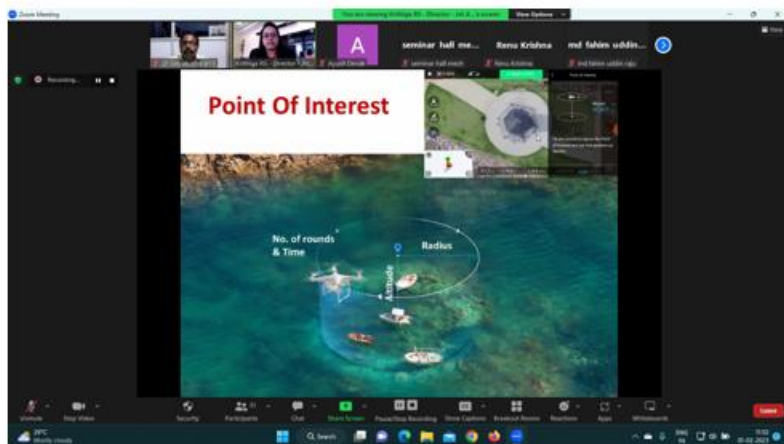
**01.02.2023, 9 am**

**Dr. Chung-Yan Lin, Director,**  
International Administration Affairs  
Associate Professor, Dept. of Aeronautical Engg.  
National Formosa University, Taiwan



**01.02.2023, 11 am**

**Ms. Krithiga RS**  
Director(Operations), Jet Aerospace  
Center Head - Innovation Center - Drone  
Technology Park, IIT Delhi Sonipat Campus





# VIMANA



02.02.2023, 9.30 am

Mr. A. Vinoth Kumar  
Technical Lead, HCL Technologies.



03.02.2023, Full day



Fabrication of drones



# VIMANA



03.02.2023, Full day



Fabrication of drones



# VIMANA



03.02.2023 VALEDICTORY FUNCTION



Welcome address and event report by Dr M Vignesh kumar



Audience



HoD / Aerospace honors the Ae S I chairman, Chennai chapter Dr C Senthil kumar



Valedictory address by the Ae S I chairman, Chennai chapter Dr C Senthil kumar



The Ae S I chairman, Chennai chapter Dr C Senthil kumar honors the chief instructor Mr A Vinoth kumar, Technical Lead, HCL Technologies



*Dr M Vignesh kumar*  
*Dr K Allwyn*



# VIMANA



## AERO INDIA 2023

Dr S Sivakumar had attended ARDB seminar in the AERO INDIA 2023 at YELANKHA AIRFORCE STATION, BENGALURE on 14-02-2023 as a invitee and the seminar title is: Indigenous Development of Futuristic Aerospace Technologies including Way Forward for Development of Indigenous Aero Engines, Presided by Hon'ble Raksha Mantri Shri Rajnath Singh.

### Highlights:

Handover of Health Usage & Monitoring System for MIG29K developed through TDF to VCNS Launch of web portal samar.gov.in (System for Advance Manufacturing Assessment and Rating). Release of AR & DB Magazine, "PUSHPAK 2022" (On going ARDB project titled "Shimmy vibration analysis on UAV with landing gears" by our department has got a page in the Magazine "PUSHPAK 2022").

Release of DRDO monograph "Non Destructive evaluation of solid rockets and missile systems". Handover of CEMILAC Certificate for CVRDE developed Aircraft Bearings for AMAGB of Tejas.

### Technical Sessions:

User Perspective: Air Marshal Narmadeshwar Tiwari AVSM VM, DCAS

Technology Perspective: Dr Girish S Deodhare, DS & DG(ADA) xi 1620 - 1630

Academia Perspective: Aerospace Propulsion - Future, Prof Sudarshan Kumar, Head Aerospace, IIT Bombay

DPSU Perspective: Dr D. K. Sunil, Director (Engg and R&D), HAL

Industry Perspective: Aero Engine, Shri Alok Nanda, CEO, GE India ,

Startup Perspective: Aero Engine, Shri Vikram Bansal, CEO & Founder, ASATROBO.



Dr S Sivakumar @ AERO INDIA 2023



Technical sessions @ AERO INDIA 2023



# VIMANA



**SRM**  
INSTITUTE OF SCIENCE & TECHNOLOGY  
Deemed to be University u/s 3 of UGC Act, 1956

Scientific Talk on

## “Electric, automated, and vertical - the Third Revolution in Aerospace”

**Speaker:** Prof. Dr. Ing. Florian Holzapfel, PhD



Research field is flight system dynamics. His four key interests are flight control of manned and unmanned systems, trajectory optimization, sensor technology, data fusion and navigation and modeling, simulation and parameter estimation.

15<sup>th</sup> February 2023  
14.00 – 16.00 IST

Faraday Hall, ESB block, second floor,  
Main campus, SRMIST



Welcome address by HoD



HoD welcomes Prof



HoD welcomes Ms Lenny



Presentation by Prof



Audience



# VIMANA



## IEI AEROSPACE DIVISION STUDENTS' CHAPTER ACTIVITIES

**Aeronautical Sector Skill Council (ASSC)**  
वैमानिक क्षेत्र कौशल परिषद

**SRM**  
INSTITUTE OF SCIENCE AND TECHNOLOGY  
Kattankulathur, Chennai

**DEPARTMENT OF AEROSPACE ENGINEERING**

**The Institution of Engineers (India)**  
Kattankulathur Local Centre - 603 203

**And**  
Aeronautical Sector Skill Council (ASSC)  
वैमानिक क्षेत्र कौशल परिषद

**Technical Talk on**  
**"Advanced Glass Cockpit"**

**Speaker: Mr. SETHUNATHAN.P**  
Senior first officer, IndiGo Airlines Pvt. Ltd.

**National Hospitality Workers Appreciation Day**

**IE(I) Students Chapter Aerospace Division**

**23<sup>rd</sup> February 2023**  
**10.00am to 12.00pm**

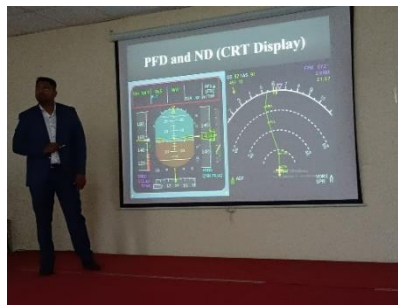
**Venue: Automobile Seminar hall, First floor, Automobile hangar, Main Campus**

Mr. Vivekananthan A, Director (Academic Relations), ASSC  
Ms. Vithiga RS, Joint Director (Academic Relations), ASSC

Student coordinators: Nandita Bhravahata & Gautam kumar



Self introduction by the speaker



Captain P Sethuraman's session



Audience



Captain P Sethuraman receives a memento from Dr Selvakumaran T



# VIMANA



## INTERNATIONAL WOMEN'S DAY 2023



### One-day National Seminar

On

### “TRENDS ON FUTURE OF AVIATION”

Organized by

### DEPARTMENT OF AEROSPACE ENGINEERING

in association with

The Institution of Engineers (India)  
“A Century of Service to the Nation”  
Kattankulathur Local Centre – 603 203

THE AERONAUTICAL SOCIETY OF INDIA  
“Promoting Excellence In Aeronautical And Aerospace Profession”

AERONAUTICAL SECTOR  
SKILL COUNCIL (ASSC)

MARCH 08, 2023  
9.15 am to 4.30 pm



Saranyaponusamy  
Manufacturing Engineer,  
Boeing India Pvt Ltd



Krithika R  
Mechanical Systems and design Analysis engineer,  
Boeing India Pvt Ltd



Esha Reddy  
Airport Operations & Air Network Manager  
(All India)  
Blue Dart Aviation



Venue: EEE Conference hall,  
Second floor, ESB, Main Campus



“women driving digital innovation & technological advancement”



# VIMANA



## Patrons

Dr. T.R. Paavivendhar, Founder Chancellor  
 Mr. Ravi Pachamoothoo, Pro-Chancellor (Admin)  
 Dr. P. Sathyarayanan, Pro-Chancellor (Academics)  
 Dr. R. Shivakumar, Pro-Chancellor

## Steering Committee

Dr. C. Muthamizhelvan, Vice-Chancellor  
 Dr. S. Ponnusamy, Registrar  
 Dr. B. Neppolian, Dean (Research)  
 Dr. T.V. Gopal, Dean (CET)  
 Dr. D. Kingsley Jeba Singh, Chairperson, SME

## Convener

Dr. L.R. Ganapathy Subramanian, FIE  
 Professor & Head, Department of Aerospace Engineering.

## Co-Convener

Dr. T. Selvakumar, FIE, Associate Professor  
 IEI KTR LC Committee member  
 Chief Coordinator & convener of ASSC  
 EC member, AeSI

## Department Faculty members

Dr. S. Sivakumar, FIE, Associate Professor  
 Dr. S. Senthil Kumar, Associate Professor  
 Dr. G. Saravanan, Assistant Professor (SG)  
 Dr. S. Aravindh Kumar, Assistant Professor  
 Dr. Kannan B T, Assistant Professor  
 Dr. Malaikannan G, Assistant Professor  
 Mr. G. Mahendra Perumal, Asst Professor,  
 Mr. S. Rajkumar, Assistant Professor  
 Dr. R. Mohamed Arif, Assistant Professor  
 Mr. N. Bharath, Assistant Professor  
 Dr. K. Alwyn, Assistant Professor  
 Dr. M. Vignesh Kumar, Assistant Professor  
 Mr. K. Lynthezhuthon, Assistant Professor  
 Mr. K. B. Ravichandra Kumar, Asst Professor  
 Dr. K. K. Bharadwaj, Assistant Professor  
 Dr. S. Gurusideswar, Assistant Professor  
 Dr. K. Saravanan Kumar, Assistant Professor

## Speaker Details:



**Saranyaponnusamy**  
 Manufacturing Engineer,  
 Boeing India Pvt Ltd



**Krithika R**  
 Mechanical Systems and design Analysis engineer,  
 Boeing India Pvt Ltd



**Esha Reddy**  
 Airport Operations & Air Network Manager  
 (All India)  
 Blue Dart Aviation

**Certificate will be provided to all participants**



## One-day National Seminar

On

**"TRENDS ON FUTURE OF AVIATION"**

**MARCH 08, 2023, 9.15 am to 4.30 pm**  
**INTERNATIONAL WOMEN'S DAY**

Organized by

**DEPARTMENT OF AEROSPACE ENGINEERING**  
*in association with*

**The Institution of Engineers (India)**

*"A Century of Service to the Nation"*

**Kattankulathur Local Centre – 603 203**

&

**THE AERONAUTICAL SOCIETY OF INDIA**

*"Promoting Excellence In Aeronautical And Aerospace Professions"*

&

**Aeronautical Sector Skill Council (ASSC)**

**DEPARTMENT OF AEROSPACE ENGINEERING**



College of Engineering and Technology  
 SRM Institute of Science and Technology  
 Kattankulathur, Chennai – 603203.  
 Chengalpattu (DT), Tamilnadu.

## THE INSTITUTE

SRM Institute of Science and Technology (SRMIST) is one of the top ranked universities in India with over 50,000 students and 3,000 plus faculty members, offering a wide range of Undergraduate, Postgraduate and Doctoral Programs in Engineering, Medicine & Health Sciences, Management, Science & Humanities, Law, and Agricultural Sciences. Over the last three decades, it has set standards in experiential learning and knowledge creation across various fields. It has reached beyond borders to Universities and corporates across India and around the World. There are four sprawling campuses three in and around Chennai, and one near New Delhi spread across 250 acres with all facilities. It had conducted 98 Indian Science Congress in January, 2011 which was attended by 7,000 delegates from India and abroad, including six Nobel Laureates and several eminent scientists. SRM IST is the first private University in India to launch a nano-satellite, named SRMSAT, into space, on board the PSLV-C18 from Sriharikota on October 12, 2011. The institution has grown up through international alliances and collaborative initiatives to achieve global excellence. Over 200 students are sponsored for 35-foreign Universities like MIT, Carnegie Mellon, UC Davis, Warwick and Western Australia annually. SRM IST is accredited by NAAC with the highest Grade of 'A++'. QS, the world renowned international ranking agency, has rated SRMIST as 'Four Star, Institute and QS-IGAUGE has awarded Diamond Rating to SRMIST. SRMIST is classified as Category I University by UGC/MHRD and enjoys 12B status too under UGC Act.

## DEPARTMENT OF AEROSPACE ENGINEERING

The Department of Aerospace Engineering was established in 2007. It offers four years degree B.Tech Program. It has well equipped laboratories. Our Aerospace hangar houses Cessna, Eurocopter, Kiran aircraft, Airbus A300 simulator, different types of engines and landing gear components. Aerodynamics lab comprises of subsonic & supersonic wind-tunnel, sophisticated high-speed jet facility, smoke tunnel, boundary layer tunnel, etc; Aircraft Structures lab; Aero fluid mechanics lab; CFD lab & Advanced computation lab; Material Testing lab; Avionics lab and Dr. APJ Abdul Kalam Memorial Propulsion Laboratory, exclusively for solid propellant making and firing to determine thrust, burn rate and to study combustion characteristics with high speed camera. The department had received AR&DB grant funded project and few consultancy projects too.

## ABOUT THE SEMINAR

### TOPICS:

- ✓ The Rise of Additive manufacturing
- ✓ Robotics in Aerospace
- ✓ Air Cargo Operations and Network Planning in India



## International Women's Day

Venue: EEE Conference hall, Second floor, ESB, Main Campus.

## THE AERONAUTICAL SOCIETY OF INDIA – CHENNAI BRANCH

Dr. C. Senthil Kumar, Chairman  
 Dr. K. Vijayaraja, Vice-Chairman  
 Dr. P. S. Premkumar, Honorary Secretary  
 Dr. S. Nadaraja Pillai, Joint Secretary  
 Dr. V. Suresh, Honorary Treasurer

## IEI KTR LC 603 203 COMMITTEE MEMBERS

Dr. S. Dhanalakshmi, FIE, Chairman  
 Dr. K. Vijayakumar, FIE, Honorary Secretary  
 Dr. P. T. Ravichandran, FIE  
 Dr. K. Gunasekaran, FIE  
 Dr. V. Thirumurugan, FIE  
 Dr. A. Vijaya, MIE  
 Dr. K. Harisudha, MIE  
 Dr. S. Latha, MIE  
 Dr. V. Mathanraj, MIE  
 Dr. S. Anandh, MIE  
 Dr. M. Uma Devi, FIE  
 Dr. R. Narayanamoorthi, MIE  
 Mr. V. Veeranath, MIE  
 Dr. T. Selvakumar, FIE  
 Dr. K. Anbalagan, MIE  
 Dr. S. Karthick, MIE  
 Dr. R. Senthil, FIE  
 Dr. R. Ramasubramani, MIE  
 Dr. M. Maheswari, MIE

## AERONAUTICAL SECTOR SKILL COUNCIL (ASSC)

Mr. Vivekananthan A,  
 Director (Academic Relations), ASSC

Ms. Krithiga RS,  
 Joint Director (Academic Relations), ASSC

Ms. Arul Jyothi D,  
 Admin. Director, Jet Aerospace Aviation Research Centre



# VIMANA



## INAUGURATION



### Lighting Kuthuvilakku



**Dr. Nisha Ashokan**, Associate Director – Student Affairs, SRMIST



**Dr. S. Dhanalakshmi**, FIE, Chairman, IEI KTR LC



**Dr. C. Senthil Kumar**, Chairman, AeSI, Chennai



**Dr. K. Vijayakumar**, FIE,  
Honorary Secretary, IEI KTR LC



**Dr. L. R. Ganapathy Subramanian**, FIE  
Professor & Head., Department of Aerospace Engineering, SRMIST



# VIMANA



## Welcome address



Photo: (from left) Welcome address by HoD, Dr K Vijayakumar, Dr C Senthil Kumar, Dr Nisha Ashokan, Dr S Dhanalakshmi and Dr Selvakumaran T

## Felicitation



HoD / Aerospace felicitates Dr Nisha Ashokan



HoD / Aerospace felicitates Dr C Senthil Kumar



HoD / Aerospace felicitates Dr K Vijayakumar



HoD / Aerospace felicitates Dr S Dhanalakshmi



# VIMANA



## Felicitation



Dr C Senthil Kumar felicitates HoD / Aerospace



Chief Guest address



Guest of honour address



Presidential address by Dr K Vijaya Kumar



Vote of thanks by Dr S.Dhanalakshmi

**Chief Guest Address**

**Dr. Nisha Ashokan**

Associate Director – Student Affairs, SRMIST

**Guest of Honor Address**

**Dr C.Senthil Kumar, Chairman, AeSI, Chennai**

**Presidential Address**

**Dr.K.Vijayakumar, FIE, Honorary Secretary, IEI KTR LC**

Professor & Head,  
Department of EEE, SRMIST

**Vote of thanks**

**Dr.S.Dhanalakshmi, FIE, Chairman, IEI KTR LC**

Professor, Department of ECE, SRMIST



# VIMANA



Happy moments





# VIMANA



**Saranyaponnusamy**  
**Manufacturing Engineer,**  
**Boeing India Pvt Ltd**

**Topic: The Rise of Additive manufacturing**



Saranyaponnusamy's session



HoD facilitates the speaker Saranyaponnusamy



# VIMANA



**Krithika R**  
**Mechanical Systems and design**  
**Analysis engineer,**  
**Boeing India Pvt Ltd**

**Topic: Robotics in Aerospace**



Krithika R's session



Video explaining industrial robots in Aerospace



HoD facilitates the speaker Krithika R



# VIMANA



**Esha Reddy**  
**Airport Operations &**  
**Air Network Manager**  
**(All India)**  
**Blue Dart Aviation**

Topic: Air Cargo Operations and Network Planning in India



Esha Reddy's session



HoD facilitates the speaker Esha Reddy



# VIMANA



Expert Lecture



Department of Aerospace Engineering  
College of Engineering and Technology

Cordially invites you to the  
**Expert Lecture** on

## COMPUTATIONAL FLUID DYNAMICS

**21<sup>st</sup> March 2023, Tuesday at 03:00 PM**

by

**Dr. R. Krishnamurthy**  
Group Director, Design Group,  
DRDL-DRDO Hyderabad

Venue:

**Mechanical Conference Hall (MEB301)**  
Mechanical B block II floor, Main Campus

*All are Welcome!*



HoD welcomes Dr R Krishnamurthy



Dr S Senthil kumar presents a gift to Dr R Krishnamurthy



HoD honors Dr R Krishnamurthy



# VIMANA



## INAUGURATION OF ASSOCIATION OF AEROSPACE ENGINEERING FOLLOWED BY A SCIENTIFIC TALK



Welcome address by HoD



Welcoming guest speaker by HoD

**Scientific Talk on**  
**"Digital twin technology in Aerospace industry"**  
**Speaker: Prof. Maxim Tyan PhD,**  
**Research Professor, Konkuk Aerospace Design Airworthiness Institute |**  
**KU, South Korea.**

Research professor at Konkuk Aerospace Design-Airworthiness Institute, the leading aerospace lab of Konkuk University. Primary research interests are: multidisciplinary design optimization, surrogate modeling, simulation and digital twin technologies. With recent shift to eco-friendly technologies, currently working with Electric propulsion systems and hydrogen fuel cell powered vehicle design, optimization and simulation.

**31<sup>st</sup> March 2023**  
**10.00 am – 11.00 am IST**

**Venue: Automobile Seminar hall, First floor, Automobile hangar, Main Campus**



Interaction with the faculties and students



Prof Maxim Tyan's session



HoD presents memento to Prof Maxim Tyan, South Korea



# VIMANA



## BEST POSTER PRESENTATION AWARD

Dr. Paarivendhar Research Colloquium **2023**

**March 29-31, 2023**

**“Characterization of self-ignition and propagation effect on external energy sources: Role, Peculiarities and Applications”**

**Authors:** Vinayak Malhotra and T. Selvakumaran



**KUDOS!**

**Mr Vinayak Malhotra**





# VIMANA



**The Institution of Engineers (India)**  
Kattankulathur Local Centre – 603 203

**Organizes**  
In association with  
**SDTech Robotics**  
and  
**Association of Aerospace Engineering**  
**DEPARTMENT OF AEROSPACE ENGINEERING**  
**SRM INSTITUTE OF SCIENCE AND TECHNOLOGY**  
Kattankulathur, Chennai

**Online Workshop on**  
**“PCB Designing & its Applications in Space”**

**IE(I) Students Chapter**  
**Aerospace Division**

**SPEAKER**

**10<sup>th</sup> APRIL 2023**  
**6.00 pm to 8.00 pm (IST)**  
✓ **E - certificate**

**Dr.Selvakumaran T, FIE**  
Convener & Organizer

**Dr.L.R.Ganapathy Subramanian, FIE**  
(Professor & Head / Aerospace)

**Dr. S. Dhanalakshmi, FIE**  
(Chairman, Professor / ECE)

**Dr.K.Vijayakumar, FIE**  
(Honorary Secretary, Professor & Head / EEE)

**IE(I), KTR LC - 603 203**



**Mr. Shubham Devkar**  
Founder & CEO at SDTech Robotics

**Registration link:**

<https://docs.google.com/forms/d/e/1FAipQLSd81vJQROxhCMZqCSA64LPyfobliMbsrgqpZp8Gd1f8tgXg/viewform>



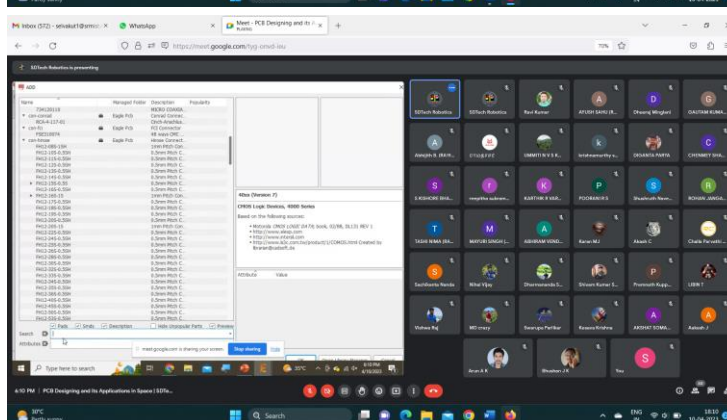
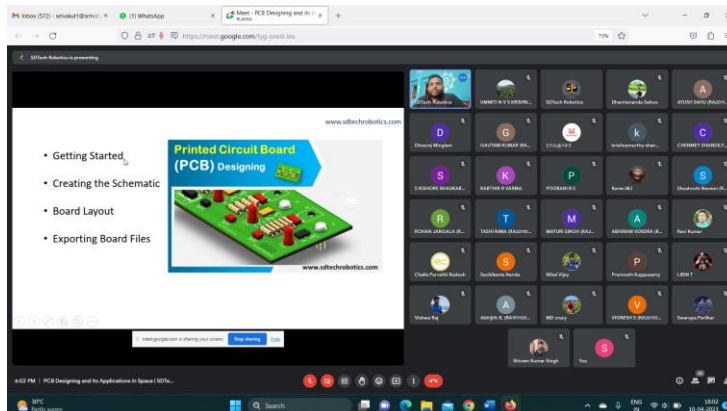
**Dr. S. Dhanalakshmi, FIE**  
(Chairman, Professor / ECE)



**Dr.L.R.Ganapathy Subramanian, FIE**  
(Professor & Head / Aerospace)



**Dr.K.Vijayakumar, FIE**  
(Honorary Secretary, Professor & Head / EEE)





# VIMANA



# CELEBRATE!



This is My Values Story



**Aeronautical Sector Skill Council (ASSC)**  
वेमानि की क्षेत्र कौशल परिषद



# SRM

INSTITUTE OF SCIENCE & TECHNOLOGY  
(Deemed to be University u/s 3 of UGC Act, 1956)

24 APRIL  
**HUMAN VALUES DAY**  
FOR HARMONY & HAPPINESS

## One-day National Workshop

On

APRIL 24, 2023  
9.30 am to 4.30 pm

### “VALUES BRING US TOGETHER”



Organized by



Association of Aerospace Engineering  
**DEPARTMENT OF AEROSPACE ENGINEERING**

Love  
Truth  
Right Action  
Peace  
Non-Violence

*in association with*

Department of Psychiatry,  
SRM Medical College Hospital And  
Research Centre

The Institution of Engineers (India)  
“A Century of Service to the Nation”  
Kattankulathur Local Centre – 603 203

**AERONAUTICAL SECTOR  
SKILL COUNCIL (ASSC)**

### SPEAKERS



Dr. Vadivambal MD,  
Assistant Professor,  
Department of Psychiatry



Dr Ramya Rachel,  
Assistant Professor,  
Department of Psychiatry



Dr. Vignesh MD,  
Senior Resident  
Department of Psychiatry



Venue: Automobile Seminar  
hall, First floor, Automobile  
hangar, Main Campus



NAAC A++



Category 1 with 12B status



Ranked 19<sup>th</sup> University (2022)



World Ranking one among  
41 Indian Universities (2023)



World Ranking one among  
75 Indian Universities (2023)



Ranked 4<sup>th</sup> (2023)



World Ranking one among 14  
Indian Universities (2023)



# VIMANA



## Patrons

Dr.T.R. Paarivendhar, Founder Chancellor  
 Mr. Ravi Pachamoothoo, Pro-Chancellor (Admin)  
 Dr. P. Sathyarayanan, Pro-Chancellor (Academics)  
 Dr. R. Shivakumar, Pro-Chancellor  
**Steering Committee**  
 Dr. C. Muthamizhchelvan, Vice-Chancellor  
 Dr. S. Ponnusamy, Registrar  
 Dr. B. Neppolian, Dean (Research)  
 Dr.T.V.Gopal , Dean (CET)  
 Dr. D. Kingsley Jeba Singh, Chairperson, SME

## Convener

Dr.L.R.Ganapathy Subramanian, FIE  
 Professor & Head, Department of Aerospace Engineering

## Co-Convener

Dr. T.Selvakumar, FIE, Associate Professor  
 IEI KTR LC Committee member  
 Chief Coordinator & convener (ASSC)  
 Faculty Incharge, Association of Aerospace Engineering

## Co-ordinators

Dr. G.Saravanan, Assistant Professor (SG)  
 Dr.K.Ahlyvn, Assistant Professor  
 Dr.K.K.Bharadwaj, Assistant Professor  
 Mr.K.B.Ravichandra Kumar, Asst Professor  
 Dr.K.Saravanakumar, Assistant Professor  
 Department UHV coordinator

## Department Faculty members

Dr. S. Sivakumar, FIE Associate Professor  
 Dr. S. Senthil Kumar, Associate Professor  
 Dr. S. Aravindh Kumar, Assistant Professor  
 Dr. Kannan B.T., Assistant Professor  
 Dr. Malaikannan G., Assistant Professor  
 Mr. G. Mahendra Perumal, Asst Professor,  
 Mr. S. Rajkumar, Assistant Professor  
 Dr. R. Mohamed Arif, Assistant Professor  
 Mr. N. Bharath, Assistant Professor  
 Dr. M. Vignesh Kumar, Assistant Professor  
 Mr. K. Lynthezhuthon, Assistant Professor  
 Mr. Vinayak Malhotra, Assistant Professor  
 Dr. S. Gurusidaswar, Assistant Professor

## Speaker Details:



Dr. Vadivambal MD,  
 Assistant Professor,  
 Department of Psychiatry



Dr. Ramya Rachel,  
 Assistant Professor,  
 Department of Psychiatry



Dr. Vignesh MD,  
 Senior Resident  
 Department of Psychiatry



## One-day National Workshop

On

"VALUES BRING US TOGETHER"

APRIL 24, 2023, 9.30 am to 4.30 pm  
 UNIVERSAL HUMAN VALUES DAY

Organized by

Association of Aerospace Engineering  
 DEPARTMENT OF AEROSPACE ENGINEERING  
 in association with

Department of Psychiatry,

SRM Medical College Hospital And Research Centre

The Institution of Engineers (India)

"A Century of Service to the Nation"

Kattankulathur Local Centre – 603 203

&

Aeronautical Sector Skill Council (ASSC)

DEPARTMENT OF AEROSPACE ENGINEERING



College of Engineering and Technology  
 SRM Institute of Science and Technology  
 Kattankulathur, Chennai - 603203  
 Chengalpattu (DT), Tamilnadu.

## THE INSTITUTE

SRM Institute of Science and Technology (SRMIST) is one of the top ranked universities in India with over 50,000 students and 3,000 plus faculty members, offering a wide range of Undergraduate, Postgraduate and Doctoral Programs in Engineering, Medicine & Health Sciences, Management, Science & Humanities, Law, and Agricultural Sciences. Over the last three decades, it has set standards in experiential learning and knowledge creation across various fields. It has reached beyond borders to Universities and corporates across India and around the World. There are four sprawling campuses three in and around Chennai, and one near New Delhi spread across 250 acres with all facilities. It had conducted 98 Indian Science Congress in January, 2011 which was attended by 7,000 delegates from India and abroad, including six Nobel Laureates and several eminent scientists. SRM IST is the first private University in India to launch a nano-satellite, named SRMSAT, into space, on board the PSLV-C18 from Sriharikota on October 12, 2011. The institution has grown up through international alliances and collaborative initiatives to achieve global excellence. Over 200 students are sponsored for 35-foreign Universities like MIT, Carnegie Mellon, UC Davis, Warwick and Western Australia annually. SRM IST is accredited by NAAC with the highest Grade of 'A++'. QS, the world renowned international ranking agency, has rated SRMIST as 'Four Star, Institute and QS-IGAUGE has awarded Diamond Rating to SRMIST. SRMIST is classified as Category I University by UGC/MHRD and enjoys 12B status too under UGC Act.

## DEPARTMENT OF AEROSPACE ENGINEERING

The Department of Aerospace Engineering was established in 2007. It offers four years degree B.Tech Program. It has well equipped laboratories. Our Aerospace hangar houses Cessna, Eurocopter, Kiran aircraft, Airbus A300 simulator, different types of engines and landing gear components. Aerodynamics lab comprises of subsonic & supersonic wind-tunnel, sophisticated high-speed jet facility, smoke tunnel, boundary layer tunnel, etc; Aircraft Structures lab; Aero fluid mechanics lab; CFD lab & Advanced computation lab; Material Testing lab; Avionics lab and Dr. APJ Abdul Kalam Memorial Propulsion Laboratory, exclusively for solid propellant making and firing to determine thrust, burn rate and to study combustion characteristics with high speed camera. The department had received AR&DB grant funded project and few consultancy projects too.

## ABOUT THE WORKSHOP

### TOPICS:

- ✓ Harmony in relationships
- ✓ Health and harmony in body and mind
- ✓ Harmony in the human being



## Universal Human Values Day

Venue: Automobile Seminar Hall,  
 First floor, Automobile hangar,  
 Main Campus

## DEPARTMENT OF PSYCHIATRY

The Department of Psychiatry at SRM was started in the year 2005. The department is headed by Prof. Dr. R. Arul Saravanan MD, DPM, and comprises of Consultant Psychiatrists, Psychologists, Psychiatric Nurses and Social Workers along with other staff members. All the modern psychological techniques that are being used are available in our department. Rigorous teaching and training programs that balance theory and clinical demonstration, using both direct, on-line and hybrid modes is our hallmark. The outpatient department receives patients from all walks of life, with problems that range from minor mental disturbances to major disorders. Our Faculty members actively provide services for these, including child guidance as well as suicide prevention services and consultation. They also conduct lectures on stress management for the students, faculty and the industrial population. The department has very good in-patient facilities. Special care is taken for addiction cases and motivational interviewing. Our Special clinics include Neuropsychiatric, Geriatric & Memory Clinic, Psychosomatic & Chronic Pain clinic, Suicide Prevention Clinic, OCD Clinic, Sex & Marital Clinic, De-addiction Clinic, Children and Adolescent Clinic.

## IEI KTR LC 603 203 COMMITTEE MEMBERS

Dr.S.Dhanalakshmi, FIE, Chairman  
 Dr.K.Vijayakumar, FIE, Honorary Secretary  
 Dr.P.T.Ravichadran, FIE  
 Dr.K.Gunasekaran, FIE  
 Dr.V.Thirumurugan, FIE

## AERONAUTICAL SECTOR SKILL COUNCIL

Mr.Vivekananthan A,  
 Director (Academic Relations), ASSC

Ms. Krithiga RS,  
 Joint Director (Academic Relations), ASSC

Ms. Arul Jyothi D,  
 Admin. Director, Jet Aerospace Aviation Research Centre





# VIMANA



## Invocation song



Photo (from left): student- Nandita, Dr Saravananakumar, Dr Supraja, Dr Arul Saravanan, Dr L.R.Ganapathy Subramanian, Dr Selvakanaran T

## Lighting of lamp



Dr Arul Saravanan lights lamp



Dr Supraja lights lamp



Dr L.R.Ganapathy Subramanian lights lamp



Dr Selvakanaran T lights lamp



Dr Saravanan lights lamp



# VIMANA



## Welcome address by Dr LR Ganapathy Subramanian, FIE, Head, Aerospace



**Chief Guest**

**Dr. Arul Saravanan MD, DPM.**

**Professor & Head, Department of Psychiatry,  
SRM Medical College Hospital And Research Centre.**



**Guest of Honor**

**Dr. P. Supraja,**

**University coordinator – UHV,  
Department of NWC, SRMIST**

## Felicitation of Chief Guests



HoD facilitates chief guest



HoD facilitates guest of honor



Chief guest facilitates HoD

## Felicitation to Aerospace department faculties those who completed Universal Human Values Course(s) conducted by AICTE



Dr Supraja honors Dr G.Saravanan



Dr Supraja honors Dr K.Allwyn



Dr Arul Saravanan honors Mr K.B.Ravichandrakumar



Dr Arul Saravanan honors Dr KK Bharadwaj



Dr Supraja honors Dr K Saravananakumar



# VIMANA



## Chief Guest address – Dr Arul Saravanan



## Guest of Honour address – Dr P Supraja



## Vote of thanks – Dr K Saravanakumar



## Audience





# VIMANA



**Speaker 1** Dr. Vadivambal MD, Assistant Professor, Department of Psychiatry



Dr Selvakumaran T honors Dr. Vadivambal MD



# VIMANA



**Speaker 2** Dr. Ramya Rachel, Assistant Professor, Department of Psychiatry



One Day National Workshop on "VALUES BRING US TOGETHER", Tamil Nadu, India  
Automobile Seminar Hall, SRMIST, R2CQ+4PH, Potheri, Kattankulathur,  
Tamil Nadu 603203, India  
Lat 12.820286°  
Long 80.039394°  
24/04/23 12:02 PM GMT +05:30

Dr K Allwyn honors Dr. Ramya Rachel



# VIMANA



**Speaker 3** Dr. Vignesh MD, Senior Resident, Department of Psychiatry



Dr K Saravanakumar honors Dr Vignesh



# VIMANA



## CONVENER

Dr. L.R. Ganapathy Subramanian,  
Professor & Head  
Department of Aerospace Engineering

## CO-CONVENERS

Dr. G. Saravanan, Assistant Professor  
Dr. R. Mohamed Arif, Assistant Professor  
Dr. S. Gurusideswar, Assistant Professor

## TECHNICAL COMMITTEE

Dr. S. Sivakumar, Associate Professor  
Dr. S. Senthilkumar, Associate Professor  
Dr. T. Selvakumaran, Associate Professor

## COORDINATORS

Mr. S. Rajkumar, Assistant Professor  
Dr. K. Allwyn, Assistant Professor  
Dr. K. Saravanakumar, Assistant Professor

## ORGANISING COMMITTEE MEMBERS

Dr. S. M. Aravindh Kumar, Assistant Professor  
Dr. Kannan B T, Assistant Professor  
Dr. Malaikannan G, Assistant Professor  
Mr. G. Mahendra Perumal, Assistant Professor  
Mr. N. Bharath, Assistant Professor  
Dr. M. Vignesh Kumar, Assistant Professor  
Mr. Vinayak Malhotra, Assistant Professor  
Mr. K. Iynthezhuthon, Assistant Professor  
Mr. K. B. Ravichandra Kumar, Assistant Professor  
Dr. Kuchimanchi K. Bharadwaj, Assistant Professor



SRM Innovation Incubation and  
Entrepreneurship Centre

## Department of Aerospace Engineering

*in association with*

## SRM Innovation Incubation Entrepreneurship Centre

*presents*

## Poster Presentation Competition 2023

25th & 26th April 2023



## ABOUT SRMIST

SRM Institute of Science and Technology (SRMIST) is one of the top ranked universities in India with over 50,000 plus students and 3,000 plus faculty members, offering a wide range of Undergraduate, Postgraduate and Doctoral Programs in Engineering, Medicine & Health Sciences, Management, Science & Humanities, Law, and Agricultural Sciences. Over the last three decades, it has set standards in experiential learning and knowledge creation across various fields. It has reached beyond borders to universities and corporates across India and around the World. There are four sprawling campuses three in and around Chennai, and one near New Delhi spread across 250 acres with all facilities. It had conducted 98th Indian Science Congress in January, 2011 which was attended by 7,000 delegates from India and abroad, including six Nobel Laureates and several eminent scientists. SRM IST is the first private university in India to launch a nano-satellite, named SRMSAT, into space, on board the PSLV-C18 from Sriharikota on October 12, 2011. The institution has grown up through international alliances and collaborative initiatives to achieve global excellence. Over 200 students are sponsored for 35- foreign Universities like MIT, Carnegie Mellon, UC Davis, Warwick and Western Australia annually. SRM IST is accredited by NAAC with the highest Grade of 'A++'. QS, the world renowned international ranking agency, has rated SRMIST as 'Four Star, Institute and QS-IGAUGE has awarded Diamond Rating to SRMIST. SRMIST is classified as Category I University by UGC/MHRD and enjoys 12B status too under UGC Act.

## DEPARTMENT OF AEROSPACE ENGINEERING

The Department of Aerospace Engineering was established in 2007. It offers four years degree B.Tech Program. It has well equipped laboratories. Our Aerospace hangar houses Cessna, Eurocopter, Kiran aircraft, Airbus A300 simulator, different types of engines and landing gear components. Aerodynamics lab comprises of subsonic & supersonic wind-tunnel, sophisticated high-speed jet facility, smoke tunnel, boundary layer tunnel, etc; Aircraft Structures lab; Aero fluid mechanics lab; CFD lab & Advanced computation lab; Material Testing lab; Avionics lab and Dr. APJ Abdul Kalam Memorial Propulsion Laboratory, exclusively for solid propellant making and firing to determine thrust, burn rate and to study combustion characteristics with high speed camera. The department had received AR&DB grant funded project in structures domain & consultancy project from NARL, Tirupathi.

## OBJECTIVES

The main objective of this event is to encourage the students to showcase their skills in implementing real-time projects for societal needs and to bring out their creative expression and awareness of various trends in Aerospace Engineering.

- To provide an opportunity for the B.Tech. students to demonstrate their independence, originality and ethics through their projects
- To cultivate research interests among the students.
- To prepare the students to a real competitive environment.
- To recognize excellence in student research, and improve the visibility of student research efforts

## DESCRIPTION

Institution's Innovation Councils (IICs) established in Higher Educational Institutions (HEIs) plays an instrumental role in the whole process innovation repository creation at each institute level by identifying, scouting ideas, innovations and start-ups from students, alumni/recent graduates, faculty members, staff, entrepreneurs incubated at the institute. Moreover, IIC institutions will keep scouting innovations and startups throughout the year for building the repository, verification of received submissions on regular basis and taking needful actions to provide handholding supports such as mentoring, grant assistance, nominate for national innovation challenges, referral & linkage with incubation units, accelerators and connect with Angel/VC networks, facilitating technology transfer etc. towards sustainable generation and production of innovations and startups from HEIs.

## REGISTRATION LINK:

<https://forms.gle/JsQLWcJfWJWcBa9y9>

## IMPORTANT DATES:

- Date of submission for the final poster - **21.04.2023**
- Date of presentation - **25.04.2023 & 26.04.2023**  
(B.Tech Aerospace Students & Research Scholars)

## CONTACT DETAILS:

- Dr. G. Saravanan - 9094892193
- Dr. Mohamed Arif R - 8015610856
- Dr. Gurusideswar S - 9894472398



# VIMANA



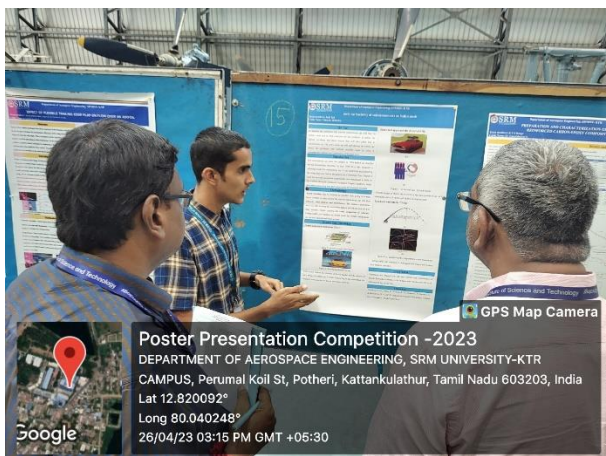
## Objective of the Event:

- To encourage the students to showcase their skills in implementing real-time projects for societal needs
- To provide an opportunity for the students to demonstrate their independence, originality and ethics through their projects
- To cultivate research interests among the students
- To prepare the students to a real competitive environment
- To recognize excellence in student research, and improve the visibility of student research effort

## Participant Details:

Total number of UG students' participation: 39

Total number of PhD scholars' participation: 3



Jury interaction with the students

## Prize distribution



HoD honors Jury



Audience



## Outcome of the Activity:

- A total number of 18 teams participated in the event and presented their research work on various domains of aerospace engineering
- Best posters are recommended for registration in the YUKTI portal

### Examiner Details

**Dr. P. Sudhakar**, Assistant Professor, SRMIST

Doctorate with 30 years of experience; Research interests are Solar collectors and dryers, Thermal energy Storage for solar drying Applications

**Dr. R. Senthil Kumar**, Research Assistant Professor, SRMIST

Doctorate with 20 years of experience; Research interests are Fluid Mechanics, Thermal Sciences, Computational Fluid Dynamics, Heat Transfer, Electronic Cooling, Heat Transfer Enhancement using Nano Materials and Energy Efficient Buildings.



# VIMANA



## Winner Details

### PhD Category:

#### Winner:

Name	Title of the Poster
Rajesh Kumar	Mean Flow Characteristics of Cruciform Orifice Jet of Aspect Ratio 4

### Final Year Category:

#### Winner:

Kruthick Deepan N P	Experimental of Pneumatic Actuator for Landing Gear, Extension and Retraction
Bertina Genius B	
Yajameel J	

### First Runner Up:

Sai Rama Priya Raavi	Aerodynamic and Stability Analysis of Different Missile Configurations using Numerical Simulations
Oruganti Y S	
Prudhviraj	
Ravi Teja Cheepuri	

### Second Runner Up:

Subham Deka	Wind Assisted Propulsion using Airfoils
Sudharm Nahata	
Agasthya Debnath	

### III-Year Category:

#### Winner:

Nandita Bhyravbhatla	Magnetic Docking System for Micro Satellites
Parth Goyal	
S. Kishore Bhaskar	



# VIMANA



The Institution of Engineers (India)  
Kattankulathur Local Centre – 603 203



**SRM**  
INSTITUTE OF SCIENCE & TECHNOLOGY  
(Deemed to be University u/s of UGC Act, 1956)



Organizes  
In association with  
**Spaceonova**  
and  
**Association of Aerospace Engineering**  
**DEPARTMENT OF AEROSPACE ENGINEERING**  
**SRM INSTITUTE OF SCIENCE AND TECHNOLOGY**



**SPACEONOVA**  
WHERE LIMIT TENDS TO INFINITY



Kattankulathur, Chennai  
Online Workshop on

## “How to fund your higher studies in Space Engineering?”

**SPEAKER**

IE(I) Students Chapter  
Aerospace Division

17<sup>th</sup> MAY 2023  
6.00 pm to 8.00 pm (IST)  
✓ E - certificate



Mr. Shivam Kumar Singh  
Founder & Director, Spaceonova  
PoSSUM Scientist - Astronaut Candidate at IIAS, USA



Dr.Selvakumaran T, FIE  
Convener & Organizer

**WORLD TELECOMMUNICATION DAY**

Registration link: [bit.ly/srm\\_webinar](http://bit.ly/srm_webinar)



Dr.L.R.Ganapathy Subramanian, FIE  
(Professor & Head / Aerospace)

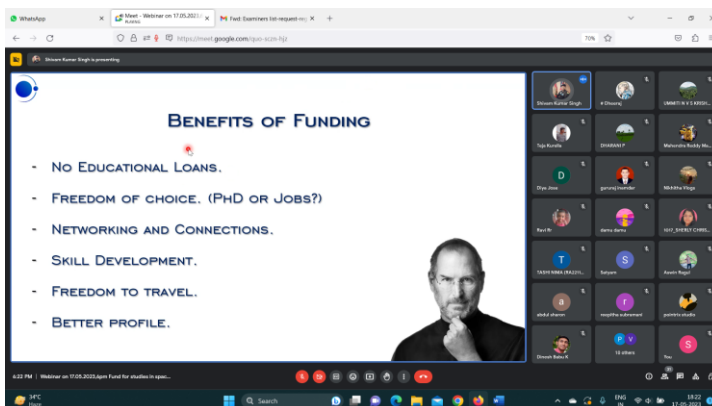
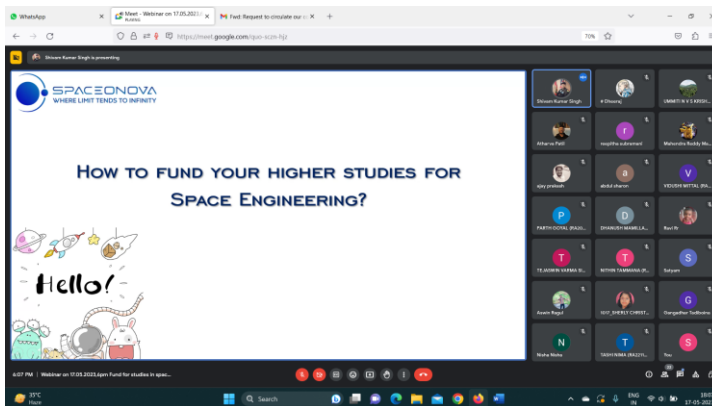


Dr. S. Dhanalakshmi, FIE  
(Chairman, Professor / ECE)

Dr.K.Vijayakumar, FIE  
(Honorary Secretary, Professor & Head / EEE)



IE(I), KTR LC - 603 203



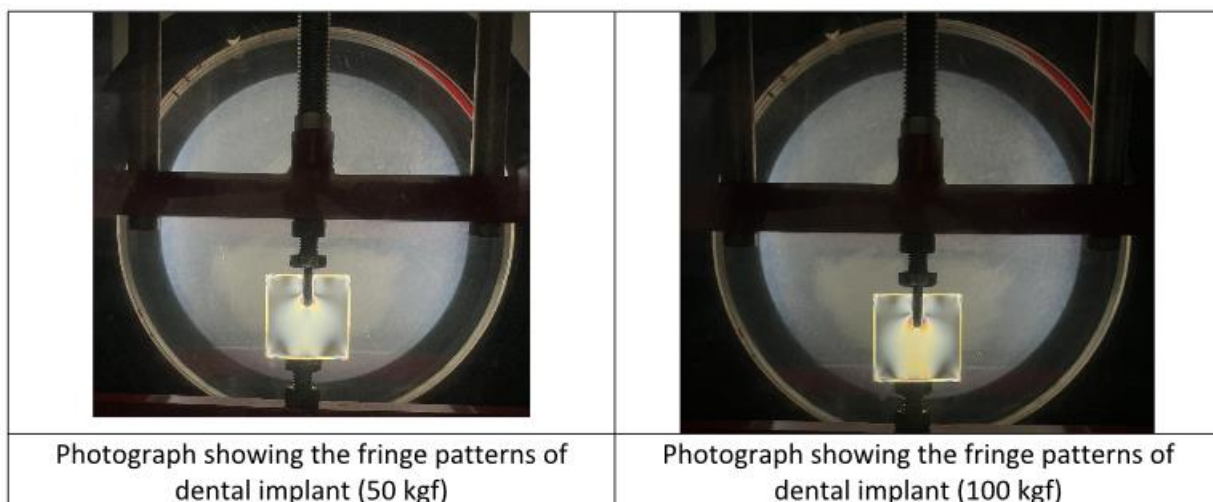


# VIMANA



## CONSULTANCY WORK

For Loyola-ICAM College of Engineering and Technology (LICET) to study the stress distribution on dental implant geometry dated 15 th May 2023



Done by: **Dr Gurusideswar S**

## ONLINE COURSE / ONLINE WORKSHOP / SEMINAR / WEBINAR / FDP ATTENDED

S.No	Title	Name of the Organization	Date	Faculty Name
1	FIVE-DAY Faculty Development Programme on "Artificial Intelligence" (Phase 2)	Department of Computational Intelligence, SRMIST	May 02 <sup>nd</sup> - May 08 <sup>th</sup> , 2023	Dr Allwyn
2				Dr S Saravanakumar

# STUDENTS PAGE





# VIMANA



## APPRECIATION FOR ACHIEVEMENTS

**SECURED GOLD MEDAL IN RESEARCH DAY 2023  
FOR PAPER PRESENTATION ON 24.02.2023**

Paper Title : Experimental investigation of system thermoacoustic instabilities: criteria, flames, characterization and modeling

Authors: Thirsa Sherry, Utkarsh Srivastav , Vinayak Malhotra



Thirsa Sherry



Utkarsh Srivastav

Student of 2019 – 2023 batch

**APPRECIATION 🙌**



# VIMANA



## PAPER PRESENTATION

Name: Pradosh Sivaramkumar (RA2111019010011)

Date: 06.04.2023

Event title: RRR Re-cycle, Re-engineering, Re-think

Paper title: Utilization of railroad tracks in waste management

Conducted by: SRMIST Hostels and Center for Social Entrepreneurship, CoM,  
SRMIST, KTR.



## PARTICIPATION IN FLUXUS 2023



**Name: Shaik Sameer Pasha (RA2211019010042)**

Participated in Aero Artistry Competition.



# VIMANA



## INTERNSHIP ATTENDED



**Name: Pranav Balaji (RA2111019010020)**

**Company / Industry name:** Aeronautical Development Establishment (ADE), Defence Research and Development Organization (DRDO), Bengaluru.

**Topic:** Machine Learning Implementation of Flight Control Systems for Unmanned Aircraft with Reinforced Model Predictive Control (RMPC)



**Name: Garima Singh (RA2111019010012)**

**Company / Industry name:** Aeronautical Development Establishment (ADE), Defence Research and Development Organization (DRDO), Bengaluru.

**Topic:** Literature Survey of Total Energy Control Systems (TECS) for UAVs

## ELITE SILVER CERTIFICATE IN NPTEL COURSE



**Name: Dev Kalyan mandale (RA2011019010028)**

**“LIGHTER THAN AIR SYSTEMS”**



## PARTICIPATION IN COGNIZANCE 2023



**Name: Tanush Nilesh Lad (RA2211019010045)**

Participated in Flightfury during Cognizance 2023 at IIT Roorkee, 24-26 March, 2023.



# VIMANA



## Internships during Even Semester 2021-22

S.No.	Registration No.	Name	Period	Mentor	DRDO Lab
1	RA1911019010028	Sajjath S	2 <sup>nd</sup> June 2022 – 3 <sup>rd</sup> July 2022	Dr Tejasvi K, Scientist 'F'	Advanced Systems Laboratory, DRDO, Hyderabad
2	RA1911019010046	Pavan Kumar B			
3	RA1911019010051	Saagarika Prasanna			
4	RA1911019010062	Aswini Kashyap			
5	RA1911019010068	Utkarsh Srivastav			
6	RA1911019010079	Akshameet Kumawat			
7	RA1911019010097	Raviteja Cheepuri			
8	RA1911019010017	Charan Kumar R	2 <sup>nd</sup> June 2022 – 3 <sup>rd</sup> July 2022	Dr Sakthivel A, Scientist 'G' & Mr Arul Kumaresan, Scientist 'F'	Regional Centre for Military Airworthiness , (RCMA), CEMILAC, DRDO, Bengaluru
9	RA1911019010025	Rahul Pravin Chandwadkar			
10	RA1911019010053	Apoorvanth V			
11	RA1911019010071	Oruganti Y S Prudhvi Raj			
12	RA1911019010076	Kummara Yaleti Devendra Babu			
13	RA1911019010002	Sajal Chauhan	20 <sup>th</sup> June 2022 – 21 <sup>st</sup> July 2022	Mr Jayarami Reddy C, Scientist 'E' & Mr Venkata Ramudu, Scientist 'E'	Defence Metallurgical Research Laboratory, DRDO, Hyderabad
14	RA1911019010029	Ankit Rout			
15	RA1911019010030	Vasudev Pathak			
16	RA1911019010042	Anandita Tomar			



# VIMANA



## Industry Projects during Even Semester '2022-23

S. No.	Registration No.	Name	Period	Mentor	DRDO Lab
1	RA1911019010026	Disha Agarwal	23 <sup>rd</sup> Dec 2022 – 18 <sup>th</sup> July 2023	Mr Jayarami Reddy C, Scientist 'E'	Defence Metallurgical Research Laboratory, DRDO, Hyderabad
2	RA1911019010029	Ankit Rout			
3	RA1911019010045	Hareeshram Muthuk umar			
4	RA1911019010028	Sajjath	2 <sup>nd</sup> Jan 2023 – 30 <sup>th</sup> Apr 2023	Dr Tejasvi K, Scientist 'F'	Advanced Systems Laboratory, DRDO, Hyderabad
5	RA1911019010105	K V S Ranga			
6	RA1911019010009	Kunal Virenda Patel	11 <sup>th</sup> Jan 2023 – 30 <sup>th</sup> Apr 2023	Mr Gore S R, Scientist 'F' & Mr Pankaj Verma	High Energy Materials Research Laboratory, DRDO, Pune
7	RA1911019010016	Aatishkumar			
8	RA1911019010038	Dhulika Mehta			

## Internships during Even Semester '2022-23

S. No.	Registration No.	Name	Period	Mentor	DRDO Lab
1	RA2011019010014	Nandita Bhyravbhatla	5 <sup>nd</sup> June 2023 – 5 <sup>th</sup> July 2023	Mr Karthik, Scientist 'E'	Centre for Airborne Systems, DRDO, Bengaluru
2	RA2011019010035	Khushi Agarwal			
3	RA2011019010036	Viraj Singh			
4	RA2011019010039	Rohit Madugula			
5	RA2011019010045	Ankita Daima			
6	RA2011019010009	Dhavalkumar Pravinbhai Bhut	5 <sup>nd</sup> June 2023 – 5 <sup>th</sup> July 2023	Mr Arul Kumaresan D, Scientist 'F', Mr Manjunath B V, Scientist 'E' and Mr Prakash Yadav, Scientist 'E'	Regional Centre for Military Airworthiness, (RCMA), CEMILAC, DRDO, Bengaluru
7	RA2011019010010	Akshat Agarwal			
8	RA2011019010012	Ayush Devak			
9	RA2011019010030	Avi Thumar			
10	RA2011019010034	Amritansh Singh			
11	RA2011019010018	Keshika K	5 <sup>nd</sup> June 2023 – 5 <sup>th</sup> July 2023	Dr Tejasvi K, Scientist 'F'	Advanced Systems Laboratory, DRDO, Hyderabad
12	RA2011019010028	Dev K Mandale			
13	RA2011019010037	Sabahat Hamid			



# VIMANA



## ONLINE COURSE ATTENDED (MOOC's)

Sl. No.	Registration Number	Name	MOOC
1	RA2011019010008	A Jagadeeswaran A	Aircraft Design
2	RA2011019010015	Rahul A.	Aircraft Design
3	RA2011019010039	Madugula Rohit	Aircraft Design
4	RA2011019010035	Khushi L Agarwal	Aircraft Design
5	RA2011019010041	Kiranpreet Kaur Lotey	Aircraft Design
6	RA2011019010037	Sabahat Hamid	Aircraft Design
7	RA2011019010001	Rupashree Dutta	CAM and Design Manufacturing for Mechanical Engineers with Autodesk Fusion 360
8	RA2011019010013	Sarah Manuel Dias	Dense Gases, Liquids and Solids
9	RA2011019010016	Devansh Shroff	Fundamentals of Fluid-Solid Interactions
10	RA2011019010032	Aashita Srivastava	Ideal Gases
11	RA2011019010013	Sarah Manuel Dias	Ideal Gases
12	RA2011019010017	Chanakya Kalyanaraman	Introduction to Data, Signal, and Image Analysis with MATLAB
13	RA2011019010010	Akshat Agarwal	Introduction to Experiments in Flight
14	RA2011019010021	Advaita Rajesh	Lighter than Air Systems
15	RA2011019010045	Ankita Daima	Lighter than Air Systems
16	RA2011019010028	Dev Kalyan Mandale	Lighter than Air Systems
17	RA2011019010009	Dhavalkumar Pravinbhai Bhut	Lighter than Air Systems
18	RA2011019010026	Mehalosh Nithin	Lighter than Air Systems
19	RA2011019010022	Vidushi Mittal	Lighter than Air Systems
20	RA2011019010036	Viraj Singh	Lighter than Air Systems
21	RA2011019010013	Sarah Manuel Dias	Non-Equilibrium Applications of Statistical Thermodynamics
22	RA2011019010024	Ravish Shamin Kudchadkar	Optical Methods for Solid and Fluid Mechanics
23	RA2011019010025	S Kishore Bhaskar	Optical Methods for Solid and Fluid Mechanics
24	RA2011019010032	Aashita Srivastava	Quantum Mechanics
25	RA2011019010013	Sarah Manuel Dias	Quantum Mechanics
26	RA2011019010004	Parth Goyal	Wind Energy

**Dr. Gurusideswar S, MOOC's Co-ordinator**

## ONLINE WORKSHOP / SEMINAR / WEBINAR ATTENDED

Sl. No.	Registration Number	Name	DETAILS
1	RA2211019010042	Shaik Sameer Pasha	Drone building workshop by Airdronex Research Labs at EEE department, SRMIST 12-14 April 2023



# VIMANA



## MECHAURA

A Collins Aerospace INITIATIVE



**KIRANPREET KAUR LOTEY (RA2011019010041)** was among the **top 15 winners**. As a prize, I got a Samsung tablet and also a 2-month(2023) and a 6-month(2024) internship opportunity at Collins Aerospace.



**Sheetal Shetty** • 2nd  
Head Of Recruitment - Collins Aerospace  
1mo • Edited •

+ Follow ...

**Collins Aerospace**, Engineering India hosted a Flagship event MechAura... We had 1000+ girls who registered for the event and finally we had 29 students who were selected for internship opportunity and won exciting prizes! The students were thrilled to be part of the event and loved to hear our Executive Director, Engineering - **Savyasachi Srinivas** sharing his journey and commitment towards Diversity, Equity and Inclusion. They had an opportunity to lunch and discuss with our Engineering Leadership team which evoked an affinity towards aerospace industry.





# VIMANA



## IEI AEROSPACE DIVISION STUDENTS' CHAPTER NEWLY JOINED MEMBERS



Zainalabidin Parkar



Jenil Rajesh Ved



Poorvika U



Divyabhanu Prasad



Solaraj Kumaresh



Tarsna C T



Abhinav Jella



Divyadharshini M



Swethesh K



Srihari S



Pranav Balaji



Garima Singh



VC Gladwin John



Rajeshwari.R



Jagan B



Manvi Maheshwari



Vishvinth Rajan.K.S



P.Gayathri



M.Anushree



Praneel Sharma



Tharun J S



Dharani Pavanan



Dhanush Mamillapally



Padasala Namya



Akash M



Siddharth Raghav



Tapamay De



Sai Nithin

**Dr SELVAKUMARAN T**  
Faculty Advisor





# VIMANA



## IEI AEROSPACE DIVISION STUDENTS' CHAPTER NEWLY JOINED MEMBERS



**Ratnesh Mishra**



**Amulya**



**Puli Srinish**



**Sarita Maity**



**Chimi Lhamo**



**Tashi Nima**



**Reezma Zakeer**



**Santa Kumar N**



**Yash Verma**



**Aditya Raj**



**Vendra Abhiram**



**Rahul H**



**Nikil Senthilkumar**



**Prutha Chaudhari**

**Dr SELVAKUMARAN T**  
Faculty Advisor





# VIMANA



## ASSC STUDENTS' CHAPTER NEWLY JOINED MEMBERS



**Puli Srinish Goud**



**Lalit Kishore.P**



**Shreyas V**



**Kotian Krisha  
Manish**



**Tejaswin varma sirigiri**



**Abhiram Vendra**



**Aswin Hariharan k**



**Jishnu S**



**Dharani Pavanan**



**Padasala Namya  
Chandershbhai**



**Rahul H**



**Bennin Xavier  
Devarajan**



**Prutha Chaudhari**



**Mohamed Navaz Fahir**



**Reezma Zakeer**



**Vijayaansh  
Shivgotra**



**Dhanush Mamillapally**



**Nidhan Santa Kumar N**

**Dr SELVAKUMARAN T**  
Chief Coordinator





# VIMANA



## INDUSTRY PROJECTS

Registration Number:	Student Name:	Project Title	Company Name
RA1911019010029	Ankit Rout	Experimental and numerical simulation of ballistic impact of fiber reinforced polymer composites	
RA1911019010079	Akshameet Kumawat	Micromechanics based modeling of 3D C/C composites	
RA1911019010026	Disha Agarwal	Experimental and Numerical analysis of shock response of E-glass/epoxy composites	
RA1911019010051	Saagarika Prasanna	Mechanical Characterization of Carbon/Epoxy bidirectional towpreg composites	
RA1911019010038	Dhulika Mehta	Testing and Analysis of Fuel Rich Propellant processed by extrusion method	
RA1911019010028	Sajjath	Propellant selection for hybrid rocket motors for missile propulsion	
RA1911019010022	Sakshi Pawar	Experimental studies on the supersonic jet impingement on a flame deflector related to launch vehicle lift off	
RA1911019010105	Mr. KVS Ranga	Evaluation of mechanical properties of carbon-epoxy composite using hollow glass microspheres	
RA1911019010018	Naman Mishra	Computational Analysis and Experimental Validation of Secondary Injection Thrust Vector Control (SITVC) of a Rectangular Convergent Nozzle.	
RA1911019010053	Apoorvanth Vijayaraghavan	Design and Analysis of Landing Gear Drop Test Rig	
RA1911019010069	Atharva Kulange	Investigation of Shape - Distortion effects in composite parts used in aerospace industries using design, analysis and experimental validation.	
RA1911019010016	Aatishkumar Nandasana	Study and design development of rocket motor propellant for pilot seat ejection	
RA1911019010045	Hareeshram M	Experimental and numerical simulation of shock response of Kevlar/epoxy composites	
RA1911019010009	Kunal Patel	Design and analysis of fuel rich propellant used in ramjet powered artillery shell for enhancing the range.	
RA1911019010066	Lena Bharanedharan K T	Study of Bonding Characterization of Scotch-Weld structural epoxy Adhesive	

**Dr. G.Saravanan**  
Semester Internship Co-Ordinator

### PLACEMENT 2019 - 2023 BATCH

S.no	Roll Number	Name of Student	Placed in Company	Job Profile Title
1	RA1911019010066	LENA BHARANEDHARAN K T	EDUSTATION	Business Development Trainee
2	RA1911019010086	LAKSHYA MEENA	Aakash BYJU'S	Assistant Lecturer
3	RA1911019010103	VYSHNAV SUNIL	Garuda Aerospace Pvt Ltd	Project Manager

**Dr. Gurusideswar S**  
Placement Co-Ordinator



# VIMANA



# ALUMNI TALK

CONNECTING SRMISTians



Dr K Saravanakumar introduces our alumni



Alumni's presentation



Alumni's interaction



**SRM** ALUMNI TALK

Directorate of Alumni Affairs & Department of Aerospace Engineering

Invite to the Alumni Talk on "Biocomposites in Aviation Industry"

On 15<sup>th</sup> February 2023, Wednesday at 09:00 AM

**Mr. Naresh Kumar K**  
Research Asst. at the chair of Helicopter Tech. Technical University of Munich, Germany  
SRM Aero 2016 – 2020 batch

**Organizing Committee:**

- Dr. A. Rathinam, Director, Alumni Affairs
- Dr. L. R. Ganapathy Subramanian, Professor & Head Department of Aerospace Engineering

**Alumni Coordinators:**

- Dr. M. Vignesh Kumar
- Mr. K. B. Ravichandrakumar
- Dr. K. Saravanakumar

*All are Welcome!*

Venue: Mechanical Conference Hall (Old Active Learning Lab, Mech Block B)

Dr Vignesh Kumar honors Naresh Kumar



Audience



**Dr. M. Vignesh Kumar,  
Mr. K. B. Ravichandrakumar,  
Dr. K. Saravanakumar**  
Alumni Co-Ordinators

**Dr. A. Rathinam**  
Director - Alumni Affairs



# VIMANA

## HIGHER STUDIES



**URVI N PALANG**  
(2018-2022)

**Masters in Aerospace  
Engineering**

**Georgia Tech**



**PARTH NITIN MOTAPHALE**  
(2018-2022)

**MS Aerospace Engineering**

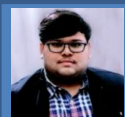
**Florida Institute  
of Technology**



**VISHVA MUTHUVEL N**  
(2018-2022)

**Masters in "Transfers-Fluids-Materials  
in Aeronautical and Space Applications"**

**University of Bordeaux**



**UTKARSH SRIVASTAV**  
(2019-2023)

**MEng Aerospace Engineering  
(Non-Thesis)**

**McGill University**



**PARTH PATEL**  
(2019-2023)

**Master's Program in Aeronautics and  
Space Major Turbulence**

**Ecole Centrale De Lille**



**NAMAN MISHRA**  
(2019-2023)

**Doctor of Philosophy (Ph.D)**

**Stanford University**



**SUHASHINI BASU ROY**  
(2019-2023)

**Master in Aerospace Engineering**

**ISAE-SUPAERO**



**ASHISH C JOSHY**  
(2019-2023)

**MS in Aviation and  
Aerospace Management**

**Purdue University**



**HAREESHRAM M**  
(2019-2023)

**Diploma in Aviation (commercial  
pilot license and instrument rating)**

**Australian National  
Airline College**



**AJAY HUDGE**  
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**Master's Program in Aeronautics and  
Space Major Turbulence**

**Ecole Centrale De Lille**



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## HIGHER STUDIES



**RAJ BRYNEL RAKESH**  
(2019-2023)

ISAE-SUPAERO/TUM Double Master  
Degree in Aerospace Engineering -  
Systems Engineering major

ISAE-SUPAERO



**SHAVY KASHYAP**  
(2019-2023)

MS in Aerospace Engineering

UNIVERSITY OF  
ILLINOIS URBANA-  
CHAMPAIGN



**SRIшти RAWAL**  
(2019-2023)

PhD in Industrial Engineering

POLYTECHNIQUE  
MONTREAL



**ORUGANTI Y S PRUDHVIRAJ**  
(2019-2023)

M.S. in Aerospace Engineering

ISAE-SUPAERO



**MOHSIN KHAN**  
(2019-2023)

Master in Aerospace Engineering

ISAE-SUPAERO



**ATHARVA SUHAS KULANGE**  
(2019-2023)

MS Astronautical Engineering

UNIVERSITY OF  
SOUTHERN  
CALIFORNIA



**KUNAL VIRENDRA PATEL**  
(2019-2023)

Master in Space Engineering

UNIVERSITY OF  
BREMEN



**AGASTHYA DEBNATH**  
(2019-2023)

MS. Mechanical Engineering:  
Fluid Dynamics

CORNELL  
UNIVERSITY



**SAI RAMA PRIYA RAAVI**  
(2019-2023)

Aerospace Engr MS (TH)

UNIVERSITY OF  
TEXAS ARLINGTON



**SOUMYA DAS**  
(2019-2023)

MSc Astronautics & Space  
Engineering












CRANFIELD UNIVERSITY



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## HIGHER STUDIES

	<b>RAVI TEJA CHEEPURI</b> (2019-2023)	Aerospace Engr MS (TH)	UNIVERSITY OF TEXAS ARLINGTON
	<b>BOINAPALLI PAVAN KUMAR</b> (2019-2023)	Master in Aerospace Engineering	UNIVERSITY OF FLORIDA
	<b>KUMMARA YALETI DEVENDRA BABU</b> (2019-2023)	Master in Aerospace Engineering	ISAE-SUPAERO
	<b>HARSHVARDHAN AJIT SURYAVANSHI</b> (2019-2023)	MBA	INTERNATIONAL SCHOOL OF MANAGEMENT STUDIES
	<b>CHITTLURI SATHWIKA</b> (2019-2023)	M.S Aerospace engineering	UNIVERSITY AT BUFFALO
	<b>SAMALA ROHIT</b> (2019-2023)	Master in Aerospace Engineering	UNIVERSITY OF FLORIDA
	<b>THIRSA SHERRY</b> (2019-2023)	MSc - Earth and Space Physics and Engineering	DTU COPENHAGEN
	<b>K V S RANGA</b> (2019-2023)	Master of Science in Engineering Aerospace Materials	THE UNIVERSITY OF SHEFFIELD
	<b>VINOTH KUMAR G</b> (2019-2023)	Pilot Training	PRINCIPAL AIR LTD
	<b>AKSHAMEET KUMAWAT</b> (2019-2023)	Master in Aerospace Engineering	ISAE-SUPAERO
	<b>SAAGARIKA PRASANNA</b> (2019-2023)	Master in Aerospace Engineering	ISAE-SUPAERO



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## RANK HOLDERS

UG Degree

2019 – 2023 BATCH



**Sai Rama Priya Raavi**

**RANK - 1**



**Jothika L**

**RANK - 2**



**Naman Mishra**

**RANK - 2**

*All the best!*



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## UPCOMING EVENTS

**August 2023**

**One Day Workshop on Finite Element Analysis of Aircraft Structural Components**

**21<sup>st</sup> August 2023**

**Session on Accelerators / Incubation - Opportunities for Students & Faculties - Early- Stage Entrepreneurs**

**24<sup>th</sup>- 25<sup>th</sup> August 2023**

**Workshop on Advanced Composites for Aerospace Applications**

**4<sup>th</sup> -10<sup>th</sup> October 2023**

**SRM World Space Week – 2023**

**13<sup>th</sup> -14<sup>th</sup> October 2023**

**Workshop on SAEISS Drone Development Challenge**

**15<sup>th</sup> – 20<sup>th</sup> October 2023**

**6 Days Online FDP on Recent Technological Trends in Aerospace Engineering**

**1<sup>st</sup> November 2023**

**One Day Seminar on Universal Human Values and Stress Management**



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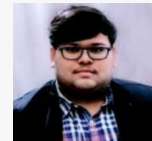
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