

Mr. R. Suresh Profile

SURESH R, B.E., M.Tech.,

Assistant Professor,

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Educational Qualifications:

| Qualification | Discipline | Year of Passing | Board/University | Percentage/ Class obtained |
|----------------------|--------------------------|------------------------|--|---------------------------------------|
| M.Tech | Aerospace Engineering | May 2013 | Defence Institute of Advanced Technology, Pune. | 79.64% First Class with Distinction |
| B.E. | Aeronautical Engineering | April 2011 | Park College of Engineering and Technology, Anna University, Coimbatore. | CGPA 8.56 First Class |
| HSC | Mathematics, Science | May 2007 | Don Bosco HSS, Varadarajan Pettai. | 83.4% |
| SSLC | Mathematics, Science | June 2005 | R.C. Fathima HS, Vadaveekam. | 92% |

GATE Score:

- ❖ Secured valid GATE Score twice (GATE2011 & GATE2012)

| Year of GATE Exam | Discipline | Marks Obtained out of 100 | GATE Score | Qualifying Mark | All India Rank | Percentile |
|-------------------|-----------------------|---------------------------|------------|-----------------|----------------|------------|
| 2011 | Aerospace Engineering | 41 | 433 | 27.72 | 189 | 94.5 % |
| 2012 | Aerospace Engineering | 44.6 | 423 | 31.94 | 143 | 95.5 % |

Computer Skills:

- ❖ Design Software : CATIA
- ❖ Analyze Software : ANSYS APDL, Fluent and ABAQUS

Teaching Experience: 7 Years

| Designation | Name of the University | Duration |
|---------------------|---|--------------------------|
| Assistant Professor | Periyar Maniammai Institute of Science and Technology, Vallam, Thanjavur, Tamilnadu | 19.06.2013 to 12.06.2018 |
| Consultant | Periyar Maniammai Institute of Science and Technology, Vallam, Thanjavur, Tamilnadu | 13.06.2018 to 01.01.2019 |
| Assistant Professor | Periyar Maniammai Institute of Science and Technology, Vallam, Thanjavur, Tamilnadu | 02.01.2019 to Till date |

Subjects Handled:

| | |
|---------------------------------------|------------------------------------|
| ❖ Computational Fluid Dynamics | ❖ Rockets and Missiles |
| ❖ Solid Mechanics and Fluid Mechanics | ❖ Elements of Satellite Technology |
| ❖ Finite Element Analysis | ❖ Elements of Aeronautics |
| ❖ Strength of Materials | ❖ Space Weapons and Warfare |
| ❖ Aircraft Structures | ❖ Aircraft Rules and Regulations |
| ❖ Engineering Mechanics | ❖ Entrepreneurship Development |

Publications: 7 Numbers

- ❖ **R. Suresh**, A. Ahamed Jasim, O.R. Amal Nagdev, B. Binny Sabin, V. Nagaraj, D. Jeyasimman (2020), “ Design and Analysis of Remotely Amphibious Drone” International Journal of Innovative Technology and Exploring Engineering (IJITEE), ISSN: 2278-3075, Volume-9, Issue-5, March 2020, 284-287.
- ❖ **Suresh R**, Praveen.M, Archana P, Sampooram S E, Nivashini P (2019) Analysis and Testing of Nanomaterial Coating on Turbine Blade of Gas Turbine Engine, INTERNATIONAL JOURNAL OF ENGINEERING RESEARCH & TECHNOLOGY (IJERT) CONFCALL – 2019 (Volume 7 – Issue 11).
- ❖ R.V. Dhinesh Kumar, **R. Suresh**, S. Nivetha, P. Praveen, M. Deepa (2020) “ Optimised Satellite Retrieval System” Studies in Indian Place Names (UGC Care Journal), ISSN: 2394-3114, Vol-40-Issue:76-March 2020.
- ❖ Arjun P T, **Suresh R** (2018) “Experimental and Numerical Analysis of Aircraft Mid-Rib with Various Cutouts” IJMTEs, ISSN No.: 2348-3121, Volume 05, Issue April 2018.
- ❖ Arifa Sulthana A, **Suresh R** (2018) “Experimental and Numerical Analysis of Fibre Metal laminate (FML) Composites for Aircraft Spar” IJMTEs, ISSN No.: 2438-3121, Volume 05, Issue April 2018.
- ❖ Mukhila S, **Suresh R** (2018) “Characterization of Reflective Coating Material to Enhance the Photon Propulsion in Solar Sail” iJRASET, ISSN No. : 2321-9653, Paper ID; IJRASET14619, Volume 6, Issue III, March 2018.
- ❖ Shantam Goel, Hema P, Manivannan A, **Suresh R** (2017) 'Automatic Firing Tank with Evading Target and Land Mines Detection & Diffusion Usage' IJRSET, ISSN:2319-8753, Volume 6, Issue 2, February 2017, Page No. 2607.

International Conference Proceedings – 3 Numbers

- ❖ **Suresh R**, “Design and Analysis of Wing Structure of Solar UAV” Proceedings of the international conference on Innovations in Design & Manufacturing (iDeM'14), Mar Athanasius College of Engineering, Kothamangalam, Kerala, India, Jan 2014.
- ❖ **Suresh R**, Shantam Goel, Vishnuraj S, Naresh Kumar R "Implementation and Performance Measures of Fly-by-wireless control system in UAV" in ICET 2016 international conference on 16, 17 Dec 2016.
- ❖ Nagaraj V, Muthuraman R K, **Suresh R** "A bird impact analysis of CFRB composite fan blades" in ICETER'16 international conference on 20, 21 Oct 2016.

National Conference Proceedings – 2 Numbers

- ❖ **Suresh R**, Vishnu Raja R "Advancement in titled "Use of Abrasive Materials" in AMS 2014 National conference on 26, 27 Sept 2014.
- ❖ **Suresh R**, Atul Shinde, "Design of Solar UAV" Proceedings of the conference on Frontiers in Aeronautical, Aerospace and Automotive Engineering (NCAAAE'13), Noorul Islam Centre for Higher Education, Kanyakumari, India, Mar 2013 .

Workshop Attended – 6 Numbers

- ❖ One day workshop on "Supersonic and Subsonic Combustion" organized by Department of Aeronautical Engineering, Park College of Engineering & Technology on 05.03.2010.
- ❖ Two-week ISTE workshop on "Engineering Mechanics" funded by MHRD, organized by IIT Bombay under the National Mission on Education through ICT, during 26.11.2013 to 05.12.2013.
- ❖ Two-week ISTE workshop on "Fluid Mechanics" funded by MHRD, organized by IIT Kharagpur under the National Mission on Education through ICT, during 20.05.2014 to 30.05.2014.
- ❖ One-day workshop on " Bhuvan Panchayat Portal for Asset Mapping and Planning" held on December 4, 2015 at ISRO Headquarters, Bengaluru.
- ❖ Two-week ISTE STTP workshop on "Introduction to Structural Engineering" funded by MHRD, organized by IIT Kharagpur under the National Mission on Education through ICT, from 30.11.2015 to 09.01.2016.
- ❖ Training on "Bhuvan Overview" conducted by NRSC/ISRO, Hyderabad during 22-23 March 2016.

Faculty Development Programme Attended – 7 Numbers

- ❖ 5 Days online FDP on " Student Induction Programme" organized by Department of Mathematics, Department of Physics & Internal Quality Assurance Cell of Periyar Maniammai Institute of Science and Technology, Thanjavur from 07.09.2020 to 11.09.2020.
- ❖ One week FDP titled " Industrial Automation and Robotics" organized by the Department of Mechanical Engineering, DIT University, Dehradun – 248001, Uttarakhand from 03-08-2020 to 07-08-2020.

- ❖ One week FDP titled “Manufacturing and Analysis of Advanced Materials and Engineering Structure” organized by Department of Aeronautical Engineering, MLR Institute of Technology from 26-05-2020 to 30-05-2020.
- ❖ One week FDP on Additive Manufacturing conducted by CIT, Coimbatore & PMIST Thanjavur from 11.07.2019 to 17.07.2019.
- ❖ FDP on “Teaching and Learning” from 2nd – 7th January 2017 held at Periyar Maniammai University, Thanjavur.
- ❖ Two week FDP on “FDP101x Foundation Program in ICT for Education” organized by IIT Bombay under the National Mission on Education through ICT, from 03.08.2017 to 10.09.2017.
- ❖ Two week FDP on “FDP201x Pedagogy for Online and Blended Teaching – Learning Process” organized by IIT Bombay under the National Mission on Education through ICT, from 12.09.2017 to 10.10.2017.

Professional Membership:

- ❖ Life member in “Aeronautical Society of India (AeSI)”, Bangalore.

Other Activities:

- ❖ Completed the course “Master’s Diploma in Aircrafts Design” includes ANSYS, CATIA V5, Gambit and Fluent Software in CAD Solutions, Coimbatore.

Project Description:

- ❖ BE Project : Design and Analysis of Bolted Flange for Satellite Launch Vehicle.
- ❖ M.Tech Project : Design of Solar Powered Unmanned Aerial Vehicle.
- ❖ Area of Interest : Computational Fluid Dynamics, Aircraft Design & Analysis & Aircraft Structures.

Other Roles and Responsibilities held:

- ❖ Department NAAC, ISO Coordinator
- ❖ Exam Representative
- ❖ Department Library In-charge
- ❖ Department Placement Coordinator

- ❖ Academic Coordinator
- ❖ Department BoS Member
- ❖ Workload and Time Table In-charge
- ❖ Class In-charge & Mentor
- ❖ Symposium Coordinator
- ❖ ISRO-Bhuvan Mapping – Project coordinator
- ❖ CAD lab in-charge
- ❖ Aircraft Structures lab in-charge
- ❖ Industrial Visit coordinator