

OFFICE OF DEAN (Research)
 (Empowering CRESCENT through Exemplary Research)

School of Mechanical Sciences

Department of Aerospace Engineering

S. No.	Name of the Supervisor and Designation	Email Id	Supervisor Recogn No.	Area of Expertise	Vacancy (as of 30.08.2024)	Faculty Home Page
1.	Dr. P. N. Kadiresh Professor	kadiresh@crecident.education	AS/14/03	<ul style="list-style-type: none"> • Solid/Hybrid Propellants • High Speed Jet • Heat Transfer • Combustion • Alternative Fuels 	6	https://crecident.education/university/schools/school-of-mechanical-science/department-of-aerospace-engineering/faculty-info/faculty-members/dr-p-n-kadiresh/
2.	Dr. Sri Nithya Mahottamananda Asst. Prof. (Sel. Gr.)	mahoaero@crecident.education	AS/23/04	<ul style="list-style-type: none"> • Hybrid Rocket propulsion • Green and Sustainable propulsion systems • Rocket Propulsion and propellant Combustion • Solid fuel ramjet engine • Methane-Oxygen combustion 	3	https://crecident.education/university/schools/school-of-mechanical-science/department-of-aerospace-engineering/faculty-info/faculty-members/dr-sri-nithya-mahottamananda/
3.	Dr. S. Karthikeyan Asst. Prof.	karthikmeaero@crecident.education	AS/23/05	<ul style="list-style-type: none"> • Low Speed flow analysis • Materials and alloy Characteristics • Design optimisation of aerodynamic bodies • Metal Matrix Composite Characteristics • Emission control in automobile vehicles 	4	https://crecident.education/university/schools/school-of-mechanical-science/department-of-aerospace-engineering/faculty-info/faculty-members/dr-s-karthikeyan/

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4.	Dr. Magesh. M Asst. Prof. (Sr. Gr.)	magesh.m@crescent.education	AS/24/06	<ul style="list-style-type: none"> • Aircraft navigation and guidance • UAV and MAV design • Aircraft systems and Instrumentation 	3	https://crescent.education/university/schools/school-of-mechanical-science/department-of-aerospace-engineering/faculty-info/faculty-members/dr-magesh-mani/
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Department of Automobile Engineering

S. No.	Name of the Supervisor and Designation	Email Id	Supervisor Recogn No.	Area of Expertise	Vacancy (as of 30.08.2024)	Faculty Home Page
1.	Dr. P.D. Jeyakumar Associate Professor	pdjeyakumar@crescent.education	ME/16/19	<ul style="list-style-type: none"> Vehicle Dynamics Automotive Materials Finite Element Analysis 	4	https://crescent.education/university/schools/school-of-mechanical-science/department-of-automobile-engineering/faculty-info/faculty-members/dr-p-d-jeyakumar/
2.	Dr. T.R. Tamilarasan Associate Professor	tamilarasan.tr@crescent.education	ME/16/22	<ul style="list-style-type: none"> Surface Engineering Electroless nano Composite Coatings Composite Materials Tribology, Corrosion & Adhesion Characteristics of Engg. Materials & Coatings Material Characterization 	5	https://crescent.education/university/schools/school-of-mechanical-science/department-of-automobile-engineering/faculty-info/faculty-members/dr-t-r-tamilarasan/
3.	Dr. C. K. Arvinda Pandian Asst. Prof. (Sr. Gr.)	arvind4me87@crescent.education	AU/23/04	<ul style="list-style-type: none"> Electroless nano Composite Coatings Composite Materials Tribology, Corrosion & Adhesion Characteristics of Engg. Materials & Coatings Material Characterization 	4	https://crescent.education/university/schools/school-of-mechanical-science/department-of-automobile-engineering/faculty-info/faculty-members/dr-c-k-arvinda-pandian/
4.	Dr. C. Dinesh Kumar Asst. Prof. (Sr. Gr.)	dineshauto@crescent.education	AU/21/03	<ul style="list-style-type: none"> Electric Vehicle Technology Vehicle Dynamics Automotive Safety Vehicle Control Systems Automotive Engines & Technology 	3	https://crescent.education/university/schools/school-of-mechanical-science/department-of-automobile-engineering/faculty-info/faculty-members/dr-c-dineshkumar/

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Department of Mechanical Engineering

S. No.	Name of the Supervisor and Designation	Email Id	Supervisor Recogn. No.	Area of Expertise	Vacancy (as of 30.08.2024)	Faculty Home Page
1.	Dr. H. Siddhi Jailani Professor	jailani@crescent.education	ME/13/13	<ul style="list-style-type: none"> • Composite Materials • Powder Metallurgy • Machining • Tribology • Image Processing 	5	https://crescent.education/university/schools/school-of-mechanical-science/department-of-mechanical-engineering/faculty-info/faculty-members/dr-h-siddhi-jailani/
2.	Dr. A.S. Selvakumar Professor	selvakumar@crescent.education	ME/13/12	<ul style="list-style-type: none"> • Metal Forming Processes • Sheet and Tube Hydroforming processes • Advanced Welding processes 	8	https://crescent.education/university/schools/school-of-mechanical-science/department-of-mechanical-engineering/faculty-info/faculty-members/dr-a-s-selvakumar/
3.	Dr. S. Rasool Mohideen Professor	dean.sms@crescent.education	ME/09/08	<ul style="list-style-type: none"> • Welding Metallurgy • Wire Arc Additive Manufacturing • Cryogenic Treatment of Metals • Fracture analysis • Robot Kinematics 	7	https://crescent.education/university/schools/school-of-mechanical-science/department-of-mechanical-engineering/faculty-info/faculty-members/dr-s-rasool-mohideen/
4.	Dr. V. Muralidharan Associate Professor	muralidharan@crescent.education	ME/14/16	<ul style="list-style-type: none"> • Condition Based Maintenance & Monitoring • Fault diagnosis and Prognosis • Predictive Analytics • Signal Analysis • Wavelet Analysis 	4	https://crescent.education/university/schools/school-of-mechanical-science/department-of-mechanical-engineering/faculty-info/faculty-members/dr-v-muralidharan/

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5.	Dr. M. A. Sai Balaji Associate Professor	saibalaji@crescent.education	ME/15/17	<ul style="list-style-type: none"> Friction material (formulation and testing) Development of Ebonite products Optimization Techniques 	3	https://crescent.education/university/schools/school-of-mechanical-science/department-of-mechanical-engineering/faculty-info/faculty-members/dr-m-a-sai-balaji/
6.	Dr. R. Karunanithi Associate Professor	karunanithi@crescent.education	ME/16/20	<ul style="list-style-type: none"> Metal Matrix Composite Biomaterials Materials Characterization of Alloys Corrosion Engineering Microstructure-property correlation and wear behaviour of Al alloys 	4	https://crescent.education/university/schools/school-of-mechanical-science/department-of-mechanical-engineering/faculty-info/faculty-members/dr-r-karunanithi/
7.	Dr. M. Thirumurugan Associate Professor	thirumurugan@crescent.education	ME/16/21	<ul style="list-style-type: none"> Material Science and Manufacturing Biomaterials Polymers Metal forming Composites 	3	https://crescent.education/university/schools/school-of-mechanical-science/department-of-mechanical-engineering/faculty-info/faculty-members/dr-m-thirumurugan/

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8.	Dr. S. Mohamed Illyas Associate Professor	illyas@crescent.education	ME/21/30	<ul style="list-style-type: none"> Heat Transfer Computational Fluid Dynamics Renewable energy 	5	https://crescent.education/university/schools/school-of-mechanical-science/department-of-mechanical-engineering/faculty-info/faculty-members/dr-s-mohamed-illyas/
9.	Dr. A. Arockia Julias Associate Professor	ajulias@crescent.education	ME/17/23	<ul style="list-style-type: none"> Composite Materials Mechanical Characterization Biodegradable Materials 	3	https://crescent.education/university/schools/school-of-mechanical-science/department-of-mechanical-engineering/faculty-info/faculty-members/dr-a-arockia-julias/
10.	Dr. S. Jeavudeen Associate Professor	sjeavudeen@crescent.education	ME/21/31	<ul style="list-style-type: none"> Non Traditional Machining (EDM) Environmental friendly dielectric Advanced Optimization Techniques Ergonomics 	5	https://crescent.education/university/schools/school-of-mechanical-science/department-of-mechanical-engineering/faculty-info/faculty-members/dr-s-jeavudeen/

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11.	Dr. Mahashar Ali Associate Professor	mahashar@crescent.education	ME/21/34	<ul style="list-style-type: none"> • Metal Cutting Measurement • Image processing • Condition Monitoring • Computer Aided Design 	5	https://crescent.education/university/schools/school-of-mechanical-science/department-of-mechanical-engineering/faculty-info/faculty-members/dr-j-mahashar-ali/
12.	Dr. N. Ravikumar Asst. Prof. (Sr. Gr.)	ravikumar@crescent.education	ME /23/41	<ul style="list-style-type: none"> • Nonlinear analysis (Hydroforming and hyperelastic material simulation) • Modeling and simulation of dynamic mechanical systems. • Computation fluid dynamics. • Polymer flow simulation. • Machine Learning, Additive Manufacturing. 	4	https://crescent.education/university/schools/school-of-mechanical-science/department-of-mechanical-engineering/faculty-info/faculty-members/dr-n-ravikumar/
13.	Dr. D. Pradeep Kumar Asst. Prof. (Sr. Gr.)	pradeep@crescent.education	ME/24/43	<ul style="list-style-type: none"> • Vibration-based Tool Condition Monitoring • Tool Wear Assessment using Image Processing • Machinery Fault Diagnosis • Energy Estimation in Conventional Metal Cutting Processes 	4	https://crescent.education/university/schools/school-of-mechanical-science/department-of-mechanical-engineering/faculty-info/faculty-members/dr-d-pradeep-kumar/

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				<ul style="list-style-type: none"> Evaluation of Surface Surface Roughness using Vision system 		
14.	Dr. Varunkumar A Asst. Prof. (Sr. Gr.)	varunkumar@crescent.education	ME/24/42	<ul style="list-style-type: none"> Welding Processes Additive Manufacturing Vibration Machine Learning High Entropy Alloys & Heusler Alloys 	4	https://crescent.education/university/schools/school-of-mechanical-science/department-of-mechanical-engineering/faculty-info/faculty-members/dr-varunkumar-a/
15.	Dr. MD. Javeed Ahmed Asst. Prof. (Sr. Gr.)	javeedahmed@crescent.education	ME/23/36	<ul style="list-style-type: none"> Natural fibers Tribology Materials Brake pad Material Characterization 	3	https://crescent.education/university/schools/school-of-mechanical-science/department-of-mechanical-engineering/faculty-info/faculty-members/dr-md-javeed-ahmed/
16.	Dr. K. Asrar Ahmed Asst. Prof. (Sr. Gr.)	asrarahmed@crescent.education	ME/23/38	<ul style="list-style-type: none"> Brake Friction Composites Optimization Techniques 	3	https://crescent.education/university/schools/school-of-mechanical-science/department-of-mechanical-engineering/faculty-info/faculty-members/dr-k-asrar-ahmed/
17.	Dr. K. Sathickbasha Asst. Prof. (Sr. Gr.)	sathick.basha@crescent.education	ME/23/35	<ul style="list-style-type: none"> Tribology Composite Materials Solid Lubricants Machine Design 	3	https://crescent.education/university/schools/school-of-mechanical-science/department-of-mechanical-engineering/faculty-info/faculty-members/dr-k-sathickbasha/

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18.	Dr. N. Sirajudeen Asst. Prof. (Sr. Gr.)	sirajudeen@crescent.education	ME/23/39	<ul style="list-style-type: none"> • Metal matrix composite • Stir casting • Characterization of materials • Nano materials • Powder metallurgy 	3	https://crescent.education/university/schools/school-of-mechanical-science/department-of-mechanical-engineering/faculty-info/faculty-members/dr-n-sirajudeen/
19.	Dr. Syed Shaul Hameed Asst. Prof. (Sr. Gr.)	syedshaulhameed@crescent.education	ME/23/40	<ul style="list-style-type: none"> • Fault Diagnosis • Machine Learning • Wavelet Analysis • Condition Monitoring • Vibration Analysis 	4	https://crescent.education/university/schools/school-of-mechanical-science/department-of-mechanical-engineering/faculty-info/faculty-members/dr-syed-shaul-hameed/
20.	Dr. M. Pervaz Ahmed Asst. Prof. (Sr. Gr.)	pervaz@crescent.education	ME/20/28	<ul style="list-style-type: none"> • Material Sciences Cryogenic Treatment • EDM • WAAM • Tribology 	3	https://crescent.education/university/schools/school-of-mechanical-science/department-of-mechanical-engineering/faculty-info/faculty-members/dr-m-pervaz-ahmed/

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21.	Dr. M. Abdur Rahman Asst. Prof. (Sr. Gr.)	abdurrahman@crescent.edu	ME/23/37	<ul style="list-style-type: none"> • Composite materials • Heat treatment of Alloys • Corrosion • Tribology • Aluminum alloys 	3	https://crescent.education/university/schools/school-of-mechanical-science/department-of-mechanical-engineering/faculty-info/faculty-members/dr-m-abdur-rahman/
22.	Dr. Serajul Haque Asst. Prof. (Sr. Gr.)	serajulhaque@crescent.edu	ME/17/24	<ul style="list-style-type: none"> • Metal Matrix Composites Synthesis and Characterization • Ergonomics and Human Factor Engineering • Manufacturing System simulation • Product design, Process planning and control • Method design, work measurement and Workplace design 	2	https://crescent.education/university/schools/school-of-mechanical-science/department-of-mechanical-engineering/faculty-info/faculty-members/dr-serajul-haque/
23.	Dr. A. Muthu Manokar Asst. Prof. (Sr. Gr.)	muthumanokar@crescent.edu	ME/20/26	<ul style="list-style-type: none"> • Solar still desalination • Solar PV • Solar water heater • Heat transfer • Energy storage material 	1	https://crescent.education/university/schools/school-of-mechanical-science/department-of-mechanical-engineering/faculty-info/faculty-members/dr-a-muthu-manokar/

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24.	Dr. S. Ravikumar Asst. Prof. (Sr. Gr.)	ravikumars@crescent.education	ME/20/29	<ul style="list-style-type: none"> • Condition Monitoring and Fault Diagnosis • Machine Learning and Deep learning • Design engg • Industrial Engineering, Total Quality management, Lean six sigma projects 	3	https://crescent.education/university/schools/school-of-mechanical-science/department-of-mechanical-engineering/faculty-info/faculty-members/dr-s-ravi-kumar/
25.	Dr. K. Mohamed Bak Assistant Professor	mohamedbak@crescent.education	ME/20/27	<ul style="list-style-type: none"> • Composite Materials • Material Characterization Techniques • Design and Structures 	2	https://crescent.education/university/schools/school-of-mechanical-science/department-of-mechanical-engineering/faculty-info/faculty-members/dr-mohamed-bak-kamaludeen/

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Department of Polymer Engineering

S. No.	Name of the Supervisor and Designation	Email Id	Supervisor Recogn. No.	Area of Expertise	Vacancy (as of 30.08.2024)	Faculty Home Page
1.	Dr. S. Shamshath Begum Associate Professor	sshamshath@crescent.education	PT/16/04	<ul style="list-style-type: none"> Polymer - Natural, Synthetic, Sustainable Nanocomposites Polymer Recycling - Pyrolysis of Polymeric Waste (Crump Rubber and Plastic Waste) - Energy Recovery - Solid and Wastewater Treatment - Microalgae Applications Self-healing - Rubbers, Vibration Damping Flame Retardant Polymeric Materials – Flexible Foams Bioplastics – Biodegradable Composites - Flexible Packaging Materials – Single Use Plastic 	2	https://crescent.education/university/schools/school-of-mechanical-science/department-of-polymer-engineering/faculty-info/faculty-members/dr-s-shamshath-begum/
2.	Dr. J. Shahitha Parveen Asst. Prof. (Sr. Gr.)	shahithaji@crescent.education	PT/23/05	<ul style="list-style-type: none"> Plastic and Rubber Nanocomposites Polymer electrolytes and electrodes for energy storage devices Polymer Hydrogels for 3D Printing Biodegradable Plastics Polymer Membranes for Fuel Cell 	2	https://crescent.education/university/schools/school-of-mechanical-science/department-of-polymer-engineering/faculty-info/faculty-members/dr-j-shahitha-parveen/

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3.	Dr. J.Shahitha Parveen Asst. Prof. (Sel. Gr.)	shahithaji@crecident.education	PT/23/05	<ul style="list-style-type: none"> Hydrogels for Biomedical Applications 3D Printing of scaffolds Nanocomposites Polymer Electrolytes Polymer rheology (CFD) 	2	https://crecident.education/university/schools/school-of-mechanical-science/department-of-polymer-engineering/faculty-info/faculty-members/dr-j-shahitha-parveen/
4.	Dr. Basanta Kumar Behera Asst. Prof. (Sr. Gr.)	bkbehera@crecident.education	PT/24/06	<ul style="list-style-type: none"> Additive Manufacturing (3D printing) Preparation and Characterization of Plastic and Rubber Composites New biodegradable polymer product design and validation Polymer Processing - Optimization of processing parameters by Design of Experiment Solid Waste Management 	4	https://crecident.education/university/schools/school-of-mechanical-science/department-of-polymer-engineering/faculty-info/faculty-members/dr-basanta-kumar-behera/