

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

**School of Physical and Chemical Sciences**

**Department of Physics**

S. No.	Name of the Supervisor and Designation	Email Id	Supervisor Recogn No.	Area of Expertise	Vacancy (as of 30.09.23)	Faculty Home Page for more information
1.	Dr. I. Raja Mohamed Professor	<a href="mailto:rajamohamed@crescent.education">rajamohamed@crescent.education</a>	PH/09/03	<ul style="list-style-type: none"> <li>Nonlinear Dynamics : Theory and Experiment</li> <li>Stochastic Resonance, Chaos Circuit design and applications</li> <li>Computing with Chaos and noise-assisted computation</li> <li>Design of Memristor-based circuits</li> <li>Signal processing: Image encryption, decryption, Cryptography</li> </ul>	6	<a href="https://crescent.education/university/schools/school-of-physical-and-chemical-science/department-of-physics/faculty-info/faculty-members/dr-i-raja-mohamed/">https://crescent.education/university/schools/school-of-physical-and-chemical-science/department-of-physics/faculty-info/faculty-members/dr-i-raja-mohamed/</a>
2.	Dr. G.V. Vijayaraghavan Professor	<a href="mailto:vijayaraghavan@crescent.education">vijayaraghavan@crescent.education</a>	PH/16/11	<ul style="list-style-type: none"> <li>Nonlinear Optics</li> <li>Crystal Growth</li> <li>Materials Science</li> <li>Thin Film Science and Technology</li> </ul>	1	<a href="https://crescent.education/university/schools/school-of-physical-and-chemical-science/department-of-physics/faculty-info/faculty-members/dr-g-v-vijayaraghavan/">https://crescent.education/university/schools/school-of-physical-and-chemical-science/department-of-physics/faculty-info/faculty-members/dr-g-v-vijayaraghavan/</a>
3.	Dr. S. Sathik Basha Professor	<a href="mailto:sathik.basha@crescent.education">sathik.basha@crescent.education</a>	PH/16/12	<ul style="list-style-type: none"> <li>Surface Coating Technology</li> <li>Solar cell</li> <li>nano science and technology</li> <li>Energy Applications</li> <li>Thin Film Technology</li> </ul>	4	<a href="https://crescent.education/university/schools/school-of-physical-and-chemical-science/department-of-physics/faculty-info/faculty-members/dr-s-sathik-basha/">https://crescent.education/university/schools/school-of-physical-and-chemical-science/department-of-physics/faculty-info/faculty-members/dr-s-sathik-basha/</a>

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4.	Dr. M. Md. Sheik Sirajuddeen Associate Professor	<a href="mailto:msheiksiraj@crescent.education">msheiksiraj@crescent.education</a>	PH/17/12	<ul style="list-style-type: none"> <li>Condensed Matter Physics</li> <li>Computational materials science</li> <li>Thin film Semiconductor (Simulation and synthesis)</li> <li>Solid State Physics</li> <li>Theoretical and Experimental Materials science</li> </ul>	1	<a href="https://crescent.education/university/schools/school-of-physical-and-chemical-science/department-of-physics/faculty-info/faculty-members/dr-m-mohamed-sheik-sirajuddeen/">https://crescent.education/university/schools/school-of-physical-and-chemical-science/department-of-physics/faculty-info/faculty-members/dr-m-mohamed-sheik-sirajuddeen/</a>
5.	Dr. R. Indirajith Asst. Prof. (Sel. Gr.)	<a href="mailto:indirajith@crescent.education">indirajith@crescent.education</a>	PH/12/09	<ul style="list-style-type: none"> <li>Thin film</li> <li>Crystal Growth</li> <li>Nano Material preparation</li> </ul>	No Vacancy	<a href="https://crescent.education/university/schools/school-of-physical-and-chemical-science/department-of-physics/faculty-info/faculty-members/dr-r-indirajith/">https://crescent.education/university/schools/school-of-physical-and-chemical-science/department-of-physics/faculty-info/faculty-members/dr-r-indirajith/</a>
6.	Dr. R. Amiruddin Asst. Prof. (Sr. Gr.)	<a href="mailto:amir@crescent.education">amir@crescent.education</a>	PH/17/15	<ul style="list-style-type: none"> <li>Fabrication and characterization of optoelectronic devices such as (i) Ultraviolet (UV) Photodiodes and (ii) Light Emitting Diodes (LEDs)/Solar cells</li> <li>Fabrication and characterization of Resistive random access memory (ReRAM, Memristor) and Ferroelectrics-based memory devices</li> <li>Semiconductor Nanowires - Growth, Characterization and study on its luminescent centers</li> </ul>	3	<a href="https://crescent.education/university/schools/school-of-physical-and-chemical-science/department-of-physics/faculty-info/faculty-members/dr-r-amiruddin/">https://crescent.education/university/schools/school-of-physical-and-chemical-science/department-of-physics/faculty-info/faculty-members/dr-r-amiruddin/</a>

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7.	Dr. M. Vijayajayanthi Asst. Prof. (Sr. Gr.)	<a href="mailto:vijaya@crescent.education">vijaya@crescent.education</a>	PH/21/18	<ul style="list-style-type: none"> <li>Nonlinear dynamical systems</li> <li>Optical solitons and their collisions in birefringent fibres</li> <li>Study of solitons, rogue waves, breathers in integrable systems</li> <li>Harnessing optical solitons to implement optical computing and quantum computing</li> <li>Electrical solitons in nonlinear transmission lines</li> </ul>	2	<a href="https://crescent.education/university/schools/school-of-physical-and-chemical-science/department-of-physics/faculty-info/faculty-members/dr-m-vijayajayanthi/">https://crescent.education/university/schools/school-of-physical-and-chemical-science/department-of-physics/faculty-info/faculty-members/dr-m-vijayajayanthi/</a>
8.	Dr. E. A. K. Nivethaa Asst. Prof.	<a href="mailto:nivethaa@crescent.education">nivethaa@crescent.education</a>	PH/23/19	<ul style="list-style-type: none"> <li>Nanomaterials</li> <li>Biopolymer based nanocomposites for the prolonged, sustained and targeted delivery of anticancer drugs and for colorimetric sensor applications</li> </ul>	3	<a href="https://crescent.education/university/schools/school-of-physical-and-chemical-science/department-of-physics/faculty-info/faculty-members/dr-e-a-k-nivethaa/">https://crescent.education/university/schools/school-of-physical-and-chemical-science/department-of-physics/faculty-info/faculty-members/dr-e-a-k-nivethaa/</a>

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9.	Dr. Lakshmipriya.M Asst. Prof.	<a href="mailto:lakshmipriya@crescent.education">lakshmipriya@crescent.education</a>	PH/23/20	<ul style="list-style-type: none"> <li>• Crystal Growth</li> <li>• Nanomaterials</li> <li>• Material Science</li> </ul>	3	<a href="https://crescent.education/university/schools/school-of-physical-and-chemical-science/department-of-physics/faculty-info/faculty-members/dr-m-lakshmipriya/">https://crescent.education/university/schools/school-of-physical-and-chemical-science/department-of-physics/faculty-info/faculty-members/dr-m-lakshmipriya/</a>

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**Department of Chemistry**

S. No.	Name of the Supervisor and Designation	Email Id	Supervisor Recogn No.	Area of Expertise	Vacancy (as of 30.09.23)	Faculty Home Page for more information
1.	Dr. N. Hajarabeevi Professor	<a href="mailto:hajarabeevi@crescent.education">hajarabeevi@crescent.education</a>	CH/09/04	<ul style="list-style-type: none"> <li>Environment Chemistry</li> <li>Corrosion Studies</li> </ul>	5	<a href="https://crescent.education/university/schools/school-of-physical-and-chemical-science/department-of-chemistry/faculty-info/faculty-members/dr-n-hajara-beevi/">https://crescent.education/university/schools/school-of-physical-and-chemical-science/department-of-chemistry/faculty-info/faculty-members/dr-n-hajara-beevi/</a>
2.	Dr. S. Kutti Rani Professor	<a href="mailto:skrani@crescent.education">skrani@crescent.education</a>	CH/09/02	<ul style="list-style-type: none"> <li>Kinetics and Catalysis</li> <li>Nanomaterials synthesis and applications</li> <li>Schiffs Base and its Applications</li> </ul>	5	<a href="https://crescent.education/university/schools/school-of-physical-and-chemical-science/department-of-chemistry/faculty-info/faculty-members/dr-s-kutti-rani/">https://crescent.education/university/schools/school-of-physical-and-chemical-science/department-of-chemistry/faculty-info/faculty-members/dr-s-kutti-rani/</a>
3.	Dr. S. Bhagavathy Professor	<a href="mailto:bhagavathy@crescent.education">bhagavathy@crescent.education</a>	CH/10/08	<ul style="list-style-type: none"> <li>Synthetic Organic Chemistry</li> <li>Synthesis of heterocyclic compounds</li> <li>Synthesis of chiral intermediates using carbohydrates</li> </ul>	5	<a href="https://crescent.education/university/schools/school-of-physical-and-chemical-science/department-of-chemistry/faculty-info/faculty-members/dr-s-bhagavathy/">https://crescent.education/university/schools/school-of-physical-and-chemical-science/department-of-chemistry/faculty-info/faculty-members/dr-s-bhagavathy/</a>

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4.	Dr. Revathi Purushothaman Professor	<a href="mailto:revathip@crescent.education">revathip@crescent.education</a>	CH/13/19	<ul style="list-style-type: none"> <li>Materials for solar still, microelectronic applications, biomedical and packaging applications</li> <li>Biopolymers</li> <li>High temperature and high performance polymers</li> <li>Nanocomposites and polymer nanocomposites</li> <li>Mesoporous and nano materials</li> </ul>	7	<a href="https://crescent.education/university/schools/school-of-physical-and-chemical-science/department-of-chemistry/faculty-info/faculty-members/dr-revathi-purushothaman/">https://crescent.education/university/schools/school-of-physical-and-chemical-science/department-of-chemistry/faculty-info/faculty-members/dr-revathi-purushothaman/</a>
5.	Dr. A. Shajahan Associate Professor	<a href="mailto:ashajahan@crescent.education">ashajahan@crescent.education</a>	CH/15/20	<ul style="list-style-type: none"> <li>Chemical Kinetics</li> <li>Catalytic chemistry</li> <li>Synthetic chemistry and in vitro studies</li> <li>Environmental chemistry.</li> </ul>	4	<a href="https://crescent.education/university/schools/school-of-physical-and-chemical-science/department-of-chemistry/faculty-info/faculty-members/dr-a-shajahan/">https://crescent.education/university/schools/school-of-physical-and-chemical-science/department-of-chemistry/faculty-info/faculty-members/dr-a-shajahan/</a>

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6.	Dr. Swapan Kumar Das Associate Professor	<a href="mailto:swapandas@crescent.education">swapandas@crescent.education</a>	CH/21/25	<ul style="list-style-type: none"> <li>Sol-gel synthesis: porous and nanomaterials catalytic functionalization (metal NPs, metal oxide, metal ion c</li> <li>Design and fabrication of porous membranes for gas separation and purification, nanofiltration, waste water treatment, and water purification</li> <li>Micro- and mesoporous adsorbents for gas adsorption and storage, separation and purification, and waste water treatment</li> <li>Design and synthesis of fluorophore-decorated periodic mesoporous (FPMO) organosilica for drug delivery, sensor, separation, and catalysis</li> <li>Heterogeneous catalysis includes C-C coupling, alkane and methane oxidation, carboxylation of saturated hydrocarbons with CO, aromatic alkylation, photocatalysis, and biodiesel production.</li> </ul>	5	<a href="https://crescent.education/university/schools/school-of-physical-and-chemical-science/department-of-chemistry/faculty-info/faculty-members/dr-swapan-kumar-das/">https://crescent.education/university/schools/school-of-physical-and-chemical-science/department-of-chemistry/faculty-info/faculty-members/dr-swapan-kumar-das/</a>
7.	Dr. J. Herbert Mabel Associate Professor	<a href="mailto:herbertjmabel@crescent.education">herbertjmabel@crescent.education</a>	CH/09/06	<ul style="list-style-type: none"> <li>Material Science</li> <li>Heterogeneous Catalysis</li> <li>Coordination Complexes</li> <li>Gas Adsorption</li> <li>Metal Coating</li> </ul>	2	<a href="https://crescent.education/university/schools/school-of-physical-and-chemical-science/department-of-chemistry/faculty-info/faculty-members/dr-j-herbert-mabel/">https://crescent.education/university/schools/school-of-physical-and-chemical-science/department-of-chemistry/faculty-info/faculty-members/dr-j-herbert-mabel/</a>

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8.	Dr. M. Asha Jhonsi Associate Professor	<a href="mailto:asha@crescent.education">asha@crescent.education</a>	CH/11/11	<ul style="list-style-type: none"> <li>Photoinduced interaction studies</li> <li>Carbonaceous nanomaterials and quantum dots</li> <li>Solar energy conversion- DSSC, QDSSC, Perovskite solar cells fabrication</li> <li>Luminescent nanomaterials for Energy, environment and biological applications</li> <li>Waste to value added products</li> </ul>	5	<a href="https://crescent.education/university/schools/school-of-physical-and-chemical-science/department-of-chemistry/faculty-info/faculty-members/dr-m-asha-jhonsi/">https://crescent.education/university/schools/school-of-physical-and-chemical-science/department-of-chemistry/faculty-info/faculty-members/dr-m-asha-jhonsi/</a>
9.	Dr.N.Vasimalai Asst. Prof. (Sel. Gr.)	<a href="mailto:vasimalai@crescent.education">vasimalai@crescent.education</a>	CH/18/21	<ul style="list-style-type: none"> <li>Nanotechnology</li> <li>Biosensor</li> <li>Environmental Applications</li> <li>Materials Science</li> <li>Electronic and Energy applications</li> </ul>	1	<a href="https://crescent.education/university/schools/school-of-physical-and-chemical-science/department-of-chemistry/faculty-info/faculty-members/dr-n-vasimalai/">https://crescent.education/university/schools/school-of-physical-and-chemical-science/department-of-chemistry/faculty-info/faculty-members/dr-n-vasimalai/</a>
10.	Dr. M. Vajjiravel Asst. Prof. (Sel. Gr.)	<a href="mailto:vajjiravel_m@crescent.education">vajjiravel_m@crescent.education</a>	CH/13/15	<ul style="list-style-type: none"> <li>Organic Electronic Devices (OPV, OLED and OFET)</li> <li>Kinetics of polymerization, various polymerization techniques, phase transfer catalyzed reactions</li> <li>Sustainable polymer chemistry and materials</li> <li>Design and synthesis of novel molecules and materials for versatile applications.</li> <li>Heterocyclic compounds</li> </ul>	3	<a href="https://crescent.education/university/schools/school-of-physical-and-chemical-science/department-of-chemistry/faculty-info/faculty-members/dr-m-vajjiravel/">https://crescent.education/university/schools/school-of-physical-and-chemical-science/department-of-chemistry/faculty-info/faculty-members/dr-m-vajjiravel/</a>



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11.	Dr. Noor Aman Ahrar Mundari Asst. Prof. (Sel. Gr.)	<a href="mailto:nooraman_am@crescent.education">nooraman_am@crescent.education</a>	CH/13/16	<ul style="list-style-type: none"> <li>Catalysis</li> <li>Nanomaterials</li> <li>Materials for Energy and Environment</li> <li>Photocatalysis</li> <li>Specialty Chemicals</li> </ul>	1	<a href="https://crescent.education/university/schools/school-of-physical-and-chemical-science/department-of-chemistry/faculty-info/faculty-members/dr-noor-aman-ahrar-mundari/">https://crescent.education/university/schools/school-of-physical-and-chemical-science/department-of-chemistry/faculty-info/faculty-members/dr-noor-aman-ahrar-mundari/</a>
12.	Dr. K. Karthikeyan Asst. Prof. (Sel. Gr.)	<a href="mailto:karthikeyan_ksav@crescent.education">karthikeyan_ksav@crescent.education</a>	CH/13/18	<ul style="list-style-type: none"> <li>Organic Synthesis</li> <li>Catalysis</li> <li>Nano materials synthesis</li> </ul>	2	<a href="https://crescent.education/university/schools/school-of-physical-and-chemical-science/department-of-chemistry/faculty-info/faculty-members/dr-k-karthikeyan/">https://crescent.education/university/schools/school-of-physical-and-chemical-science/department-of-chemistry/faculty-info/faculty-members/dr-k-karthikeyan/</a>
13.	Dr. Rafik Rajjak Shaikh Assistant Professor	<a href="mailto:rafik.shaikh@crescent.education">rafik.shaikh@crescent.education</a>	CH/19/23	<ul style="list-style-type: none"> <li>Green Chemistry</li> <li>Synthetic Organic Chemistry</li> <li>General Chemistry</li> <li>Environmental Studies</li> </ul>	3	<a href="https://crescent.education/university/schools/school-of-physical-and-chemical-science/department-of-chemistry/faculty-info/faculty-members/dr-rafik-rajjak-shaikh/">https://crescent.education/university/schools/school-of-physical-and-chemical-science/department-of-chemistry/faculty-info/faculty-members/dr-rafik-rajjak-shaikh/</a>