

**OFFICE OF DEAN (Academic 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 31.08.2025)	Faculty Home Page
1.	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>	3	<a href="https://crescent.education/dr-s-sathik-basha-physics/">https://crescent.education/dr-s-sathik-basha-physics/</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/dr-g-v-vijayaraghavan-physics/">https://crescent.education/dr-g-v-vijayaraghavan-physics/</a>
3.	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/dr-m-mohamed-sheik-sirajuddeen-physics/">https://crescent.education/dr-m-mohamed-sheik-sirajuddeen-physics/</a>
4.	Dr. R. Indirajith Associate Professor	<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>	3	<a href="https://crescent.education/dr-r-indirajith-physics/">https://crescent.education/dr-r-indirajith-physics/</a>

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5.	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>	2	<a href="https://crescent.education/dr-r-amiruddin-physics/">https://crescent.education/dr-r-amiruddin-physics/</a>
6.	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>	No Vacancy	<a href="https://crescent.education/dr-m-vijayajayanthi-physics/">https://crescent.education/dr-m-vijayajayanthi-physics/</a>

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7.	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>	2	<a href="https://crescent.education/dr-e-a-k-nivethaa/">https://crescent.education/dr-e-a-k-nivethaa/</a>
8.	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/dr-m-lakshmipriya/">https://crescent.education/dr-m-lakshmipriya/</a>
9.	Dr.J.Sivasankari Asst. Prof.	<a href="mailto:sivasankari@crescent.education">sivasankari@crescent.education</a>	PH /23/21	<ul style="list-style-type: none"> <li>Nanotechnology</li> <li>Core shell quantum dot</li> <li>Spintronics</li> <li>Nano materials Device fabrication</li> <li>Solid State physics</li> </ul>	3	<a href="https://crescent.education/dr-j-sivasankari/">https://crescent.education/dr-j-sivasankari/</a>
10.	Dr. T.Kamalesh Asst. Prof.	<a href="mailto:kamalesh@crescent.education">kamalesh@crescent.education</a>	PH/23/22	<ul style="list-style-type: none"> <li>Crystal Growth by solution and melt techniques</li> <li>Shock waves</li> </ul>	2	<a href="https://crescent.education/dr-t-kamalesh/">https://crescent.education/dr-t-kamalesh/</a>

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11.	Dr. K.Vinisha Rani Asst. Prof.	<a href="mailto:vinisharani@crescent.education">vinisharani@crescent.education</a>	PH/24/24	<ul style="list-style-type: none"> <li>• Surface Modification Of Textile Materials Using Glow Discharge Plasma</li> <li>• Atmospheric Pressure Plasma Technology (DBD)</li> <li>• Plasma Enhanced Chemical Vapor Deposition (PECVD)</li> <li>• Plasma Sputtering</li> <li>• Thin Films</li> </ul>	3	<a href="https://crescent.education/dr-k-vinisha-rani/">https://crescent.education/dr-k-vinisha-rani/</a>
12.	Dr. R.Rizwana Asst. Prof.	<a href="mailto:rizwana@crescent.education">rizwana@crescent.education</a>	PH/24/23	<ul style="list-style-type: none"> <li>• Nonlinear Dynamics</li> <li>• Nonlinear circuit elements and its Applications</li> </ul>	3	<a href="https://crescent.education/dr-r-rizwana/">https://crescent.education/dr-r-rizwana/</a>
13.	Dr. T. Anusuya Asst. Prof.	<a href="mailto:anusuya@crescent.education">anusuya@crescent.education</a>	PH/24/25	<ul style="list-style-type: none"> <li>• Nanostructured Materials for energy Storage</li> <li>• Nanostructured Materials for Environmental applications</li> </ul>	3	<a href="https://crescent.education/dr-t-anusuya-2/">https://crescent.education/dr-t-anusuya-2/</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 31.08.2025)	Faculty Home Page
1.	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>	4	<a href="https://crescent.education/dr-s-bhagavathy-chemistry/">https://crescent.education/dr-s-bhagavathy-chemistry/</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>	4	<a href="https://crescent.education/dr-s-kutti-rani-chemistry/">https://crescent.education/dr-s-kutti-rani-chemistry/</a>

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3.	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>	3	<a href="https://crescent.education/dr-n-hajara-beevi-chemistry/">https://crescent.education/dr-n-hajara-beevi-chemistry/</a>
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>	4	<a href="https://crescent.education/dr-revathi-purushothaman-chemistry/">https://crescent.education/dr-revathi-purushothaman-chemistry/</a>

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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/dr-a-shajahan-chemistry/">https://crescent.education/dr-a-shajahan-chemistry/</a>
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> </ul>	4	<a href="https://crescent.education/dr-swapan-kumar-das-chemistry/">https://crescent.education/dr-swapan-kumar-das-chemistry/</a>

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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>	3	<a href="https://crescent.education/dr-j-herbert-mabel-chemistry/">https://crescent.education/dr-j-herbert-mabel-chemistry/</a>
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/dr-m-asha-jhonsi-chemistry/">https://crescent.education/dr-m-asha-jhonsi-chemistry/</a>



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9.	Dr. M. Vajiravel Associate Professor	<a href="mailto:vajiravel_m@crescent.education">vajiravel_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>	4	<a href="https://crescent.education/dr-m-vajiravel-chemistry/">https://crescent.education/dr-m-vajiravel-chemistry/</a>
10.	Dr. Noor Aman Ahrar Mundari Associate Professor	<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>	5	<a href="https://crescent.education/dr-noor-aman-ahrar-mundari-chemistry/">https://crescent.education/dr-noor-aman-ahrar-mundari-chemistry/</a>

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11.	Dr. K. Karthikeyan Associate Professor	<a href="mailto:karthikeyan_kesav@crescent.education">karthikeyan_kesav@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/dr-k-karthikeyan-chemistry/">https://crescent.education/dr-k-karthikeyan-chemistry/</a>
12.	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/dr-n-vasimalai-chemistry/">https://crescent.education/dr-n-vasimalai-chemistry/</a>

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13.	Dr. Jasmine Annajothi Jacob Asst. Prof.	<a href="mailto:jasmine@crescent.education">jasmine@crescent.education</a>	CH/24/26	<ul style="list-style-type: none"> <li>Synthesis, Stabilization and Surface modification of metal nanoparticles by various methods</li> <li>Synthesis of Semiconductor nanoparticles</li> <li>Nano toxicity studies, Antioxidant studies, etc</li> <li>Mechanistic study of formation of metal/semiconductor nanoparticles</li> </ul>	4	<a href="https://crescent.education/dr-jasmine-annajothi-jacob/">https://crescent.education/dr-jasmine-annajothi-jacob/</a>
14.	Dr. Tuhin Subhra Dash Asst. Prof.	<a href="mailto:tuhin@crescent.education">tuhin@crescent.education</a>	CH/24/28	<ul style="list-style-type: none"> <li>Magnetic Materials</li> <li>Inorganic Chemistry</li> </ul>	4	<a href="https://crescent.education/dr-tuhin-subhra-dash/">https://crescent.education/dr-tuhin-subhra-dash/</a>

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15.	Dr. S.Aravindhan Asst. Prof.	<a href="mailto:aravindhan@crescent.education">aravindhan@crescent.education</a>	CH/24/29	<ul style="list-style-type: none"> <li>• Peptide chemistry</li> <li>• Bioorganic chemistry</li> <li>• Bioinorganic chemistry</li> </ul>	2	<a href="https://crescent.education/dr-s-aravindhan/">https://crescent.education/dr-s-aravindhan/</a>
16.	Dr. Sivasankaran. D Asst. Prof.	<a href="mailto:sivasankaran@crescent.education">sivasankaran@crescent.education</a>	CH/24/27	<ul style="list-style-type: none"> <li>• Synthetic Organic Chemistry</li> <li>• Asymmetric Synthesis</li> <li>• Natural Product synthesis</li> </ul>	4	<a href="https://crescent.education/dr-d-sivasankaran/">https://crescent.education/dr-d-sivasankaran/</a>