

**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 29.02.2024)	Faculty Home Page
1.	Dr. I. Raja Mohamed Professor	<a href="mailto:rajamohamed@crecent.education">rajamohamed@crecent.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://crecent.education/university/schools/school-of-physical-and-chemical-science/department-of-physics/faculty-info/faculty-members/dr-i-raja-mohamed/">https://crecent.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@crecent.education">vijayaraghavan@crecent.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>	3	<a href="https://crecent.education/university/schools/school-of-physical-and-chemical-science/department-of-physics/faculty-info/faculty-members/dr-g-v-vijayaraghavan/">https://crecent.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@crecent.education">sathik.basha@crecent.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>	5	<a href="https://crecent.education/university/schools/school-of-physical-and-chemical-science/department-of-physics/faculty-info/faculty-members/dr-s-sathik-basha/">https://crecent.education/university/schools/school-of-physical-and-chemical-science/department-of-physics/faculty-info/faculty-members/dr-s-sathik-basha/</a>

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

S. No.	Name of the Supervisor and Designation	Email Id	Supervisor Recogn No.	Area of Expertise	Vacancy (as of 29.02.2024)	Faculty Home Page
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>	1	<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>

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

S. No.	Name of the Supervisor and Designation	Email Id	Supervisor Recogn No.	Area of Expertise	Vacancy (as of 29.02.2024)	Faculty Home Page
7.	Dr. M. Vijayajyanthi Asst. Prof. (Sr. Gr.)	<a href="mailto:vijaya@crecident.education">vijaya@crecident.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://crecident.education/university/schools/school-of-physical-and-chemical-science/department-of-physics/faculty-info/faculty-members/dr-m-vijayajyanthi/">https://crecident.education/university/schools/school-of-physical-and-chemical-science/department-of-physics/faculty-info/faculty-members/dr-m-vijayajyanthi/</a>
8.	Dr. E. A. K. Nivethaa Asst. Prof.	<a href="mailto:nivethaa@crecident.education">nivethaa@crecident.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>	4	<a href="https://crecident.education/university/schools/school-of-physical-and-chemical-science/department-of-physics/faculty-info/faculty-members/dr-e-a-k-nivethaa/">https://crecident.education/university/schools/school-of-physical-and-chemical-science/department-of-physics/faculty-info/faculty-members/dr-e-a-k-nivethaa/</a>

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

S. No.	Name of the Supervisor and Designation	Email Id	Supervisor Recogn No.	Area of Expertise	Vacancy (as of 29.02.2024)	Faculty Home Page
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>
10.	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>	4	<a href="https://crescent.education/university/schools/school-of-physical-and-chemical-science/department-of-physics/faculty-info/faculty-members/dr-j-sivasankari/">https://crescent.education/university/schools/school-of-physical-and-chemical-science/department-of-physics/faculty-info/faculty-members/dr-j-sivasankari/</a>

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

**Department of Chemistry**

S. No.	Name of the Supervisor and Designation	Email Id	Supervisor Recogn No.	Area of Expertise	Vacancy (as of 29.02.2024)	Faculty Home Page
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>	6	<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>

## OFFICE OF DEAN (Research)

(Empowering CRESCENT through Exemplary Research)

S. No.	Name of the Supervisor and Designation	Email Id	Supervisor Recogn No.	Area of Expertise	Vacancy (as of 29.02.2024)	Faculty Home Page
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>	6	<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>

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

S. No.	Name of the Supervisor and Designation	Email Id	Supervisor Recogn No.	Area of Expertise	Vacancy (as of 29.02.2024)	Faculty Home Page
6.	Dr. Swapan Kumar Das Associate Professor	<a href="mailto:swapandas@crecident.edu">swapandas@crecident.edu</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://crecident.education/university/schools/school-of-physical-and-chemical-science/department-of-chemistry/faculty-info/faculty-members/dr-swapan-kumar-das/">https://crecident.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@crecident.education">herbertjmabel@crecident.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://crecident.education/university/schools/school-of-physical-and-chemical-science/department-of-chemistry/faculty-info/faculty-members/dr-j-herbert-mabel/">https://crecident.education/university/schools/school-of-physical-and-chemical-science/department-of-chemistry/faculty-info/faculty-members/dr-j-herbert-mabel/</a>

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

S. No.	Name of the Supervisor and Designation	Email Id	Supervisor Recogn No.	Area of Expertise	Vacancy (as of 29.02.2024)	Faculty Home Page
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. M. Vajjiravel Associate Professor	<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>	4	<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>
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>	4	<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>



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

S. No.	Name of the Supervisor and Designation	Email Id	Supervisor Recogn No.	Area of Expertise	Vacancy (as of 29.02.2024)	Faculty Home Page
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/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>
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/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>
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>