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 26.02.2025)	Faculty Home Page
1.	Dr. G.V. Vijayaraghavan Professor	vijayaraghavan@crescent.education	PH/16/11	• Nonlinear Optics • Crystal Growth • Materials Science • Thin Film Science and Technology	2	https://crescent.education/dr-g-v-vijayaraghavan-physics/
2.	Dr. I. Raja Mohamed Professor	rajamohamed@crescent.education	PH/09/03	• Nonlinear Dynamics : Theory and Experiment • Stochastic Resonance, Chaos Circuit design and applications • Computing with Chaos and noise-assisted computation • Design of Memristor-based circuits • Signal processing: Image encryption, decryption, Cryptography	7	https://crescent.education/dr-i-raja-mohamed-physics/
3.	Dr. S. Sathik Basha Professor	sathik.basha@crescent.education	PH/16/12	• Surface Coating Technology • Solar cell • nano science and technology • Energy Applications • Thin Film Technology	3	https://crescent.education/dr-s-sathik-basha-physics/

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4.	Dr. M. Md. Sheik Sirajuddeen Associate Professor	msheiksiraj@crescent.education	PH/17/12	• Condensed Matter Physics • Computational materials science • Thin film Semiconductor (Simulation and synthesis) • Solid State Physics • Theoretical and Experimental Materials science	1	https://crescent.education/dr-m-mohamed-sheik-sirajuddeen-physics/
5.	Dr. R. Indirajith Associate Professor	indirajith@crescent.education	PH/12/09	• Thin film • Crystal Growth • Nano Material preparation	3	https://crescent.education/dr-r-indirajith-physics/
6.	Dr. R. Amiruddin Asst. Prof. (Sr. Gr.)	amir@crescent.education	PH/17/15	• Fabrication and characterization of optoelectronic devices such as (i) Ultraviolet (UV) Photodiodes and (ii) Light Emitting Diodes (LEDs)/Solar cells • Fabrication and characterization of Resistive random access memory (ReRAM, Memristor) and Ferroelectrics-based memory devices • Semiconductor Nanowires - Growth, Characterization and study on its luminescent centers	2	https://crescent.education/dr-r-amiruddin-physics/

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7.	Dr. M. Vijayajayanthi Asst. Prof. (Sr. Gr.)	vijaya@crescent.education	PH/21/18	• Nonlinear dynamical systems • Optical solitons and their collisions in birefringent fibres • Study of solitons, rogue waves, breathers in integrable systems • Harnessing optical solitons to implement optical computing and quantum computing • Electrical solitons in nonlinear transmission lines	No Vacancy	https://crescent.education/dr-m-vijayajayanthi-physics/
8.	Dr. E. A. K. Nivethaa Asst. Prof.	nivethaa@crescent.education	PH/23/19	• Nanomaterials • Biopolymer based nanocomposites for the prolonged, sustained and targeted delivery of anticancer drugs and for colorimetric sensor applications	3	https://crescent.education/dr-e-a-k-nivethaa/
9.	Dr. Lakshmipriya.M Asst. Prof.	lakshmipriya@crescent.education	PH/23/20	• Crystal Growth • Nanomaterials • Material Science	3	https://crescent.education/dr-m-lakshmipriya/

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10.	Dr.J.Sivasankari Asst. Prof.	sivasankari@crescent.education	PH /23/21	• Nanotechnology • Core shell quantum dot • Spintronics • Nano materials Device fabrication • Solid State physics	3	https://crescent.education/dr-j-sivasankari/
11.	Dr. T.Kamalesh Asst. Prof.	kamalesh@crescent.education	PH/23/22	• Crystal Growth by solution and melt techniques • Shock waves	4	https://crescent.education/dr-t-kamalesh/
12.	Dr. K.Vinisha Rani Asst. Prof.	vinisharani@crescent.education	PH/24/24	• urface Modification Of Textile Materials Using Glow Discharge Plasma • Atmospheric Pressure Plasma Technology (DBD) • Plasma Enhanced Chemical Vapor Deposition (PECVD) • Plasma Sputtering • Thin Films	4	https://crescent.education/dr-k-vinisha-rani/

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13.	Dr. R.Rizwana Asst. Prof.	rizwana@crescent.education	PH/24/23	• Nonlinear Dynamics • Nonlinear circuit elements and its Applications	4	https://crescent.education/dr-r-rizwana/
14.	Dr. T. Anusuya Asst. Prof.	anusuya@crescent.education	PH/24/25	• Nanostructured Materials for energy Storage • Nanostructured Materials for Environmental applications	4	https://crescent.education/dr-t-anusuya-2/

Department of Chemistry

S. No.	Name of the Supervisor and Designation	Email Id	Supervisor Recogn No.	Area of Expertise	Vacancy (as of 26.02.2025)	Faculty Home Page
1.	Dr. N. Hajarabeevi Professor	hajarabeevi@crescent.education	CH/09/04	• Environment Chemistry • Corrosion Studies	4	https://crescent.education/dr-n-hajara-beevi-chemistry/
2.	Dr. S. Kutti Rani Professor	skrani@crescent.education	CH/09/02	• Kinetics and Catalysis • Nanomaterials synthesis and applications • Schiffs Base and its Applications	5	https://crescent.education/dr-s-kutti-rani-chemistry/
3.	Dr. S. Bhagavathy Professor	bhagavathy@crescent.education	CH/10/08	• Synthetic Organic Chemistry • Synthesis of heterocyclic compounds • Synthesis of chiral intermediates using carbohydrates	5	https://crescent.education/dr-s-bhagavathy-chemistry/

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4.	Dr. Revathi Purushothaman Professor	revathip@crescent.education	CH/13/19	• Materials for solar still, microelectronic applications, biomedical and packaging applications • Biopolymers • High temperature and high performance polymers • Nanocomposites and polymer nanocomposites • Mesoporous and nano materials	5	https://crescent.education/dr-revathi-purushothaman-chemistry/
5.	Dr. A. Shajahan Associate Professor	ashajahan@crescent.education	CH/15/20	• Chemical Kinetics • Catalytic chemistry • Synthetic chemistry and in vitro studies • Environmental chemistry.	3	https://crescent.education/dr-a-shajahan-chemistry/

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6.	Dr. Swapan Kumar Das Associate Professor	swapandas@crescent.education	CH/21/25	• Sol-gel synthesis: porous and nanomaterials catalytic functionalization (metal NPs, metal oxide, metal ion c • Design and fabrication of porous membranes for gas separation and purification, nanofiltration, waste water treatment, and water purification • Micro- and mesoporous adsorbents for gas adsorption and storage, separation and purification, and waste water treatment • Design and synthesis of fluorophore-decorated periodic mesoporous (FPMO) organosilica for drug delivery, sensor, separation, and catalysis • Heterogeneous catalysis includes C-C coupling, alkane and methane oxidation, carboxylation of saturated hydrocarbons with CO, aromatic alkylation, photocatalysis, and biodiesel production.	5	https://crescent.education/dr-swapan-kumar-das-chemistry/
7.	Dr. J. Herbert Mabel Associate Professor	herbertjmabel@crescent.education	CH/09/06	• Material Science • Heterogeneous Catalysis • Coordination Complexes • Gas Adsorption • Metal Coating	3	https://crescent.education/dr-j-herbert-mabel-chemistry/

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8.	Dr. M. Asha Jhonsi Associate Professor	asha@crescent.education	CH/11/11	• Photoinduced interaction studies • Carbonaceous nanomaterials and quantum dots • Solar energy conversion- DSSC, QDSSC, Perovskite solar cells fabrication • Luminescent nanomaterials for Energy, environment and biological applications • Waste to value added products	5	https://crescent.education/dr-m-asha-jhonsi-chemistry/
9.	Dr. M. Vajjiravel Associate Professor	vajjiravel_m@crescent.education	CH/13/15	• Organic Electronic Devices (OPV, OLED and OFET) • Kinetics of polymerization, various polymerization techniques, phase transfer catalyzed reactions • Sustainable polymer chemistry and materials • Design and synthesis of novel molecules and materials for versatile applications. • Heterocyclic compounds	4	https://crescent.education/dr-m-vajjiravel-chemistry/
10.	Dr. Noor Aman Ahrar Mundari Associate Professor	nooraman_am@crescent.education	CH/13/16	• Catalysis • Nanomaterials • Materials for Energy and Environment • Photocatalysis • Specialty Chemicals	4	https://crescent.education/dr-noor-aman-ahrar-mundari-chemistry/

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11.	Dr. K. Karthikeyan Associate Professor	karthikeyan_kesav@crescent.education	CH/13/18	• Organic Synthesis • Catalysis • Nano materials synthesis	3	https://crescent.education/dr-k-karthikeyan-chemistry/
12.	Dr.N.Vasimalai Asst. Prof. (Sel. Gr.)	vasimalai@crescent.education	CH/18/21	• Nanotechnology • Biosensor • Environmental Applications • Materials Science • Electronic and Energy applications	2	https://crescent.education/dr-n-vasimalai-chemistry/
13.	Dr. Jasmine Annajothi Jacob Asst. Prof.	jasmine@crescent.education	CH/24/26	• Synthesis, Stabilization and Surface modification of metal nanoparticles by various methods • Synthesis of Semiconductor nanoparticles • Nano toxicity studies, Antioxidant studies, etc • Mechanistic study of formation of metal/semiconductor nanoparticles	4	https://crescent.education/dr-jasmine-annajothi-jacob/
14.	Dr. Tuhin Subhra Dash Asst. Prof.	tuhin@crescent.education	CH/24/28	• Magnetic Materials • Inorganic Chemistry	4	https://crescent.education/dr-tuhin-subhra-dash/

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15.	Dr. S.Aravindhan Asst. Prof.	aravindhan@crescent.education	CH/24/29	• Peptide chemistry • Bioorganic chemistry • Bioinorganic chemistry	3	https://crescent.education/dr-s-aravindhan/
16.	Dr. Sivasankaran. D Asst. Prof.	sivasankaran@crescent.education	CH/24/27	• Synthetic Organic Chemistry • Asymmetric Synthesis • Natural Product synthesis	4	https://crescent.education/dr-d-sivasankaran/