



**Research Division**

<b>Faculty of Mathematical and Physical Sciences</b>					
<b>Sl. No.</b>	<b>Name</b>	<b>Department</b>	<b>Qualification</b>	<b>Experience in Years</b>	<b>Areas of Research Interest</b>
1	Dr. Vikas M. Shelar	Physics	B.Sc., M.Sc., Ph.D.	08	<ul style="list-style-type: none"><li>• Laser Based Flow Visualization in Fluid Dynamics</li><li>• Laser Spectroscopy</li><li>• Fluorescence Spectroscopy</li><li>• Nanotechnology</li></ul>
2	Dr. B.S. Ravikumar	Physics	B.Sc., M.Sc., Ph.D.	09	<ul style="list-style-type: none"><li>• Nanophosphors (Photo and Thermo-Luminescence)</li><li>• Gas Sensors</li><li>• Thin Films</li></ul>
3	Dr. Premakumar H.B.	Physics	M.Sc., M.Phil. Ph.D.	19	<ul style="list-style-type: none"><li>• Material Science</li><li>• Nano Materials</li><li>• Nano Phosphors</li><li>• 18 Display Phosphors, Dosimetry</li></ul>
4	Dr. Shivanand Madolappa	Physics	B.Sc., M.Sc., Ph.D.	10	<ul style="list-style-type: none"><li>• Electro Ceramics</li><li>• Multiferroics</li><li>• Nanomaterials</li></ul>
5	Dr. Murali Krishnan M.	Physics	B.Sc., M.Sc., Ph.D.	10	<ul style="list-style-type: none"><li>• Magnetic Thin Films and Multilayers</li><li>• Nano-Magnetism</li><li>• Spintronics in Multi-Layered Nanoscale Thin Films</li></ul>
6	Dr. Priyanka K.P.	Physics	B.Sc., M.Sc., Ph.D.	07	<ul style="list-style-type: none"><li>• Material Sciences</li><li>• Nanomaterials-Synthesis, Characterization and Applications</li><li>• Supercapacitor Applications</li><li>• Ecotoxicological Impact of Nanomaterials</li></ul>
7	Dr. Sheetal Batkurki	Chemistry	B.Sc., M.Sc., Ph.D.	09	<ul style="list-style-type: none"><li>• Heterocyclic Chemistry</li><li>• Natural Product</li></ul>



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8	Dr. T. Niranjana Prabhu	Chemistry	B.Sc., M.Tech., Ph.D.	16	<ul style="list-style-type: none"><li>• Polymer Composite Materials</li><li>• Nanomaterials</li><li>• Wastewater Treatment</li></ul>
9	Dr. Jyotsna Kumar	Chemistry	B.Sc., M.Sc., Ph.D.	11	<ul style="list-style-type: none"><li>• Catalyst</li><li>• Green Chemistry</li><li>• Environmental Chemistry</li><li>• Barium Chemicals</li></ul>
10	Dr. Vishnuvardhan T.K.	Chemistry	B.Sc., M.Sc., Ph.D.	22	<ul style="list-style-type: none"><li>• Nano Metal Oxide</li><li>• Synthesis Characterization</li><li>• DNA Binding</li><li>• Oscillating Chemical Reactions</li><li>• Polymer Composites</li></ul>
11	Dr. Manikanda Prabhu N.	Chemistry	B.Sc., M.Sc., Ph.D.	08	<ul style="list-style-type: none"><li>• Inorganic Chemistry</li><li>• Catalysis</li><li>• Functional Materials</li></ul>
12	Dr. P. N. Anantharamaiah	Chemistry	B.Sc., M.Sc., Ph.D.	03	<ul style="list-style-type: none"><li>• Magnetic Materials and their Applications</li><li>• Multiferroic Materials</li><li>• Electro-Ceramics</li><li>• Magnetostrictive Smart Materials</li><li>• Electro catalysis for Water Treatment</li><li>• Nano materials for Gas Sensors</li></ul>



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13	Dr. A.S. Deepak	Mathematics	B.E., M.Sc., Ph.D.	12	<ul style="list-style-type: none"><li>• Inverse Problems for Partial Differential Equations</li><li>• Harmonic Analysis</li><li>• Numerical Analysis</li><li>• Mathematics Physics</li><li>• Functional Analysis</li></ul>
14	Dr. Vishnuvardhan T.K.	Chemistry	B.Sc., M.Sc., Ph.D.	22	<ul style="list-style-type: none"><li>• Nano Metal Oxide</li><li>• Synthesis Characterization</li><li>• DNA Binding</li><li>• Oscillating Chemical Reactions</li><li>• Polymer Composites</li></ul>
15	Dr. S. Chandan Kumar	Mathematics	B.Sc., M.Sc., Ph.D.	07	<ul style="list-style-type: none"><li>• Number Theory</li><li>• Ramanujan's Theta Functions</li><li>• Modular Equations</li><li>• Continued Fractions</li></ul>
16	Dr. M. Shekar	Mathematics	B.Sc., M.Sc., Ph.D.	04	<ul style="list-style-type: none"><li>• Convective Flow in a Corrugated Channel</li><li>• Flow through Porous Medium</li><li>• Immiscible Fluid Flows</li><li>• Non-Newtonian Fluid Flow</li><li>• Heat and Mass Transfer</li></ul>
17	Dr. G. Somashekhara	Mathematics	B.Sc., M.Sc., Ph.D.	14	<ul style="list-style-type: none"><li>• Differential Geometry</li></ul>
18	Dr. B. Hemanthkumar	Mathematics	B.Sc., M.Sc., Ph.D.	09	<ul style="list-style-type: none"><li>• Partition Theory</li><li>• Number Theory</li><li>• Special Functions-Theta Functions</li></ul>



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19	Dr. Mahadev M. Chinnkote	Mathematics	B.Sc., M.Sc., M.Phil., Ph.D.	06	<ul style="list-style-type: none"><li>• Fluid Mechanics</li><li>• Convection</li><li>• Stability Analysis</li></ul>
20	Dr. Venu K.	Mathematics	B.Sc., M.Sc., Ph.D.	09	<ul style="list-style-type: none"><li>• Differential Geometry</li><li>• Riemannian Geometry</li><li>• Differential Equations</li></ul>
21	Dr. D.S. Gireesh	Mathematics	B.Sc., M.Sc., Ph.D.	03	<ul style="list-style-type: none"><li>• q-series</li><li>• Partition Theory</li><li>• Theta Functions</li></ul>
22	Dr. Sumanth Bharadwaj H.S.	Mathematics	B.Sc., M.Sc., Ph.D.	05	<ul style="list-style-type: none"><li>• q-series</li><li>• Partition Theory</li><li>• Theta Functions</li></ul>
23	Dr. Shivshankar C.	Mathematics	B.Sc., M.Sc., Ph.D.	06	<ul style="list-style-type: none"><li>• Number Theory</li><li>• Partition Theory</li></ul>
24	Dr. K.J. Mallikarjunaiah	Physics	B.Sc., M.Sc., Ph.D. and Post- Doc	19	<ul style="list-style-type: none"><li>• Structure and Molecular Dynamics Study using Nuclear Magnetic Resonance (NMR)</li><li>• Synthesis, Characterization and Study of Magnetic Nano materials</li><li>• NMR Instrumentation/ Molecular Dynamics Simulations</li><li>• Zero field NMR Study of Thin Films</li><li>• Study of Lipid Membranes (Biophysics)</li></ul>
25	Dr. Deepak Kumar	Chemistry	B.Sc., M.Sc., Ph.D. and Post-Doc	1 Year, 8 Months	<ul style="list-style-type: none"><li>• Computational Materials Chemistry</li><li>• Small Molecule Activation of using Supported Nano clusters</li><li>• Reaction-Mechanism Studies of Inorganic Reactions</li></ul>



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26	Dr. Subramanyam T.	Mathematics	B.Sc., M.Sc., M.Phil. and Ph.D.	12 Years 8 Months	<ul style="list-style-type: none"><li>• Optimization Techniques</li><li>• Applied Regression Analysis</li><li>• Time Series Analysis and Forecasting</li><li>• Predictive Analysis</li><li>• Statistical Modelling</li></ul>
27	Dr. Rashmi B.J.	Chemistry	B.Sc., M.Sc. and Ph.D.	6 Years 3 Months	<ul style="list-style-type: none"><li>• Synthetic Polymer Chemistry</li><li>• Polymer Processing and their Characterisation</li><li>• Smart Materials</li><li>• Polymers and Polymer Nano Composites</li><li>• Reactive Rotational Moulding</li></ul>
28	Dr. Abhinav Singhal	Mathematics	B.Sc., M.Sc. and Ph.D.	1 Year 7 Months	<ul style="list-style-type: none"><li>• Seismology</li><li>• Seismic Wave Propagation in Distinct Material</li><li>• Crack Propagation</li></ul>
29	Dr. Prabhu Tej J.	Physics	B.Sc., M.Sc. and Ph.D.	4 Years	<ul style="list-style-type: none"><li>• Quantum Information Theory</li><li>• Quantum Optics</li></ul>
30	Dr. T.N. Sakshath	Mathematics	B.Sc., M.Sc. and Ph.D.	5 Years	<ul style="list-style-type: none"><li>• Fluid Mechanics</li><li>• Hydro Dynamic Stability</li><li>• Mathematical Modelling</li></ul>
31	Dr. Darshan	Physics	B.Sc., M.Sc., Ph.D.	09 Years	<ul style="list-style-type: none"><li>• Powder X-Ray Diffraction</li><li>• UV-Visible Spectroscopy</li><li>• Diffuse Reflectance Spectroscopy</li><li>• Scanning Electron Microscopy</li><li>• Photoluminescence Spectroscopy</li></ul>



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32	Dr. Raju Kumar Biswas	Physics	B.Sc., M.Sc., Ph.D.	08 Years	<ul style="list-style-type: none"><li>• Hot carrier dynamics for optoelectronics applications in organic/inorganic/hybrid materials.</li><li>• Composition and surface topology dependent carrier transport behaviour in layered and bulk material.</li><li>• Designing of ultrahigh dielectric material for energy storage and electronic devices.</li><li>• Estimate figure of merit (zT) of thermoelectric materials and understand the mechanism through appropriate descriptors.</li><li>• Study thermodynamic and dynamical stability of a compound using proper parameters.</li><li>• Analyse the theoretical understanding of vibrational spectra for layered as well bulk materials.</li></ul>
33	Dr. Anupriya Jha	Mathematics and Statistics	B.Sc., O Level, M.Sc. and Ph. D.	11 Years	<ul style="list-style-type: none"><li>• Graph Theory</li><li>• Automation of CAD Tools</li></ul>
34	Dr. Babitha	Mathematics and Statistics	B.Sc., M.Sc., Ph.D.	10 Years	<ul style="list-style-type: none"><li>• Inventory Theory</li><li>• Operation Research</li><li>• Regression Analysis</li><li>• Statistical Inference</li></ul>

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1	Dr. Y.C. Sunil Kumar	Chemistry	B.Sc., M.Sc., Ph.D.	13	<ul style="list-style-type: none"><li>• Medicinal Chemistry</li><li>• Natural Product Synthesis</li></ul>