

Department of Mathematics
Topics / Mentors list for Honors and Students Projects

No	Name	Broad area of research	Current area of research
1	Dr Kuncham Syam Prasad	Algebra, Discrete Mathematics	Module over rings, Lattice and Graphical aspects
2	Dr Nagaraj N. Katagi	Computational Methods	Fluid Mechanics, Wavelet Analysis
3	Dr Kedukodi Babushri Srinivas	Algebra, Discrete Mathematics	Algorithms and Computing, Rings, Ordered Algebraic Structures
4	Dr Srivatsa Kumar B. R.	Mathematics: Number Theory	Modular equations, Continued fractions, Eisenstein series, Hypergeometric functions, Theory of partitions,
5	Dr Manjunath Gudekote	Biomechanics, Mathematical Modelling,	Peristaltic transport of non- Newtonian biological fluids, Membrane Mechanism, Electroosmosis
6	Dr Harikrishnan P. K.	Functional Analysis, Algebra, Discrete Mathematics	Frame Theory, Algebraic Hyper structures, Lattice Theory
7	Dr Baiju T.	Fuzzy Mathematics	Fuzzy sets and its generalisations
8	Dr Indira K. P.	Computational Mathematics	Computational Fluid Dynamics, Quantum Computing
9	Dr Girish Sajjanshettar	General Topology	Weaker and stronger forms of open sets
10	Dr Vadiraja Bhatta	Algebra, Number Theory	Cryptography and Coding Theory
11	Dr Sumathi K.	Statistical Inference	Statistical Inference
12	Dr Rekha G. Pai	Fluid Mechanics	Nanofluids, Heat transfer
13	Dr Prathima J.	Special Functions	Hypergeometric Functions
14	Dr Devadas Nayak	Graph Theory	Graph Labelings, Graph colorings
15	Dr Sujatha H. S.	Graph Theory	Algebraic Graph Theory, Labellings
16	Dr Lavanya B.	Fluid Mechanics	Fluid Mechanics

17	Dr Sabitha D'Souza	Graph Theory	Spectral Graph Theory, Cryptography, Complementation of graphs
18	Dr Shobha M. E.	Functional Analysis	Inverse and Ill posed problems
19	Dr Sampath Kumar V. S.	Computational Methods	Fluid flow problems, Nanofluids and ionic effects over fluid flow.
20	Dr Arathi Bhat	Graph Theory and Linear Algebra	Graph Theory and Linear Algebra
21	Dr Sayinath Udupa	Graph Theory	Spectral Graph Theory
22	Dr Ashwini A. Shenoy	Mathematical modelling & solutions of fluid flow problems	Boundary layer theory, Magnetohydrodynamics, Micropolar fluids, Stretching sheet flow, Slip effects
23	Dr Rakshith B. R	Spectral Graph Theory	Spectral Graph Theory
24	Dr Balachandra Hadimani S	Fluid Dynamics	Mathematical modelling on Newtonian and non-Newtonian fluids
25	Dr Swathi Nayak	Graph theory	Graph theory
26	Dr Smitha G Bhat	Graph Theory	Graph Theory
27	Dr Divya Shenoy	Linear Algebra	Matrix Theory
28	Dr Kavitha Koppula	Algebra	Seminearrings
29	Dr Soumya K. V.	Graph Theory	Graph Theory
30	Mrs Anitha Raghunath	Number theory	Number theory
31	Dr Vidya H. C.	Number theory, Theta functions	Number Theory, Eisenstein series, h-functions
32	Mr Santhosh Kumar Chaudhary	Control & Optimization, Dynamical Systems, Orbital Mechanics, Modelling & Simulation, MATLAB Programming	Control & Optimization
33	Dr D. Anu Radha	Number Theory	Modular equations, Continued fractions and Partition functions
34	Dr Gowtham H. J	Graph Theory	Graph Theory

35	Dr Vinay adhusudanan	Algebra	Algebra
36	Mrs Amrithalakshmi	Graph Theory	Graph complements and energy
35	Dr Shahistha	Graph theory	Algebraic Graph theory, Matrix theory, Lattice theory
38	Dr Harinakshi Karkera	Wavelet Analysis	Partial differential equations, Boundary value problems and CFD
39	Dr Akansha	Deep Learning, Machine Learning, Approximation Theory	Graph Neural Networks (GNNs), Limitations of GNNs, Uncertainty quantification
40	Dr Argha Ghosh	Point-set Topology	Point-set Topology
41	Dr Aishwarya S	Algebra, Discrete Mathematics, Algorithms	Computational problems in rings and other algebraic structures
42	Dr Sandeep E M	Analytic Number Theory	Modular Forms and L functions
43	Dr Suita Sharma	Bayesian estimation	Reliability Theory, Bayesian estimation
44	Dr Aditya Subramaniam	Algebraic Geometry	Seshadri Constants and related positivity questions in algebraic geometry.
45	Dr Athira T. M	Generalized Set Theory	Soft set theory and decision-making problems
46	Dr Umashankara Kelathaya	Linear Algebra and Matrix Theory	Linear Algebra and Matrix Theory
47	Dr Shrinath Hadimani	Linear Algebra and Matrix Analysis	Linear Algebra and Matrix Analysis
48	Dr Sachin Manjunath Naik	Operator Theory	Complementable Operators
49	Dr Alam Ali	Statistics	Distribution Theory, Statistical Inferences
50	Dr Lakshmi Devi	Quantum Cryptography	Quantum Cryptography