DEPARTMENT OF MATHEMATICAL AND COMPUTATIONAL SCIENCES
NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL
MANGALURU - 575025, KARNATAKA, INDIA

2O16-2017

About the Department

The Department of Mathematics was (today called, the Department of Mathematical and Computational Sciences) started along with the Institute (1960). The department initially catered to the needs of Engineering Mathematics for all UG and PG programmes and subsequently, in 1988-89, introduced two PG programmes namely, the Master of Computer Applications (MCA) and Master of Technology (M.Tech.) in Systems Analysis and Computer Applications (SACA). In 2003, the department started the regular doctoral programmes in "Mathematics" and "Computer Applications". The Department has started the M.Tech in Computational Mathematics (CMA) in 2014 in place of the earlier M.Tech (SACA).

Department Vision

The vision is to develop and maintain overall academic excellence in the educational and research activities carried out.

Department Mission

- To impart the best quality education in Mathematical fundamentals to all the Engineering students of the Institute.
- To produce high quality professionals to meet the needs of software industry through the PG programmes.
- To engage in R&D work in the frontier areas of Mathematical and Computational Sciences.

Programs Offered

Program Name	Annual Intake
M.C.A. (Master of Computer Applications)	92
M.Tech (Computational Mathematics)	27
Doctoral (Ph.D)	15

Placement

Students of Mathematical and Computational Sciences are recruited by the companies like MERCEDES-BENZ, ORACLE, IBM, DELL. EMC,L&T, IDrive, SAP, VIRTUSA, VERIZON, SAPIENT, AMDOCS etc.

BRIEF FACULTY PROFILES

Professors

A Kandasamy, Ph.D

Areas of Research : CFD, Rheology, Tribology, Computational Techniques, Optimization Techniques, Genetic Algorithms, Bio-Informatics, Wireless Sensor Networks
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Keshava Prasad Halemane, Ph.D

Areas of Research: Optimization, Computational Systems Science and Engineering, Computations in Decision Making
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Murulidhar N N, Ph.D

Areas of Research: Reliability Engineering, Stochastic Process
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Santhosh George, Ph.D

Areas of Research: Functional Analysis, Operator Theory, Ill Posed Operator Equations, Non-linear Analysis.
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Suresh M Hegde, Ph.D

Areas of Research: Graph Theory and combinatorics
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Associate Professors

B R Shankar, Ph.D

Areas of Research: Cryptography, Finite Fields, Functional Analysis, Number Theory, Operator Algebras
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R. Madhusudhan, Ph.D

Areas of Research: Computer Network Security, Remote User Authentication, Mobile computing
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Shyam S. Kamath, Ph.D

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Sujatha D. Achar

Areas of Research: Numerical analysis, Theory of functions of complex variables
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A Senthil Thilak, Ph.D

Areas of Research: Graph Theory (Pure & Applied), Algorithmic Graph Theory, Wireless networks.
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Chandhini G, Ph.D

Areas of Research: Numerical methods – Radial basis function based schemes
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I. Jeyaraman, Ph.D

Areas of Research: Complementarity problems
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Jidesh P, Ph.D

Areas of Research: Mathematical Imaging, Image Processing, Data compression, Graph image processing
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Kedarnath Senapati, Ph.D

Areas of Research: Probability and Stochastic Processes, Blind Signal Deconvolution and Separation, Wavelets and Signal Processing, Complex Dynamics
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P Sam Johnson, Ph.D

Areas of Research: Functional Analysis, Operator Theory
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Pushparaj Shetty D, Ph.D

Areas of Research: Algorithmic Graph Theory, Algorithms for Wireless Sensor Networks, Computational Molecular Biology
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Satyanarayana Engu, Ph.D

Areas of Research: Partial Differential Equations
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Srinivasa Rao Kola , Ph.D

Areas of Research: Coloring of Graphs
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V. Murugan, Ph.D

Areas of Research: Functional Equations, Fixed Point Theory, Dynamical Systems
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		Vishwanath K. P, Ph.D **Areas of Research:** Fluid Dynamics, Mathematical Modelling of Physical Phenomena Email: vishy@nitk@edu.in, shastryvishwanath@gmail.com Web Page: http://macs.nitk.ac.in/faculty/vishwanath-k-p	
Assistant Professors		**Vivek Sinha, Ph.D** **Areas of Research:** Real Analysis Email: viveksinha@nitk.ac.in Web Page http://macs.nitk.ac.in/faculty/vivek-sinha	

Non-Teaching Staff	Gangadhara B Assistant Executive Engineer	I Ganesh Assistant (SG-II)	Jaya K Attendant

Ongoing R&D Projects

Sl. No	Title of the project	Funding Agency	Amount (Rs in Lakhs)	Principal Investigator
1.	Topological Structures of Semi Closed Operators In Hilbert Spaces	SERC, DST	3.20	P. Sam Johnson
2.	A Study on Moore-Penrose Inverse in Krein Spaces	NBHM, DAE	1.85	P. Sam Johnson
3.	On the Solutions of Convection-Diffusion Equations	NBHM, DAE	8.50	Satyanarayana Engu

Publications: (Last Five years)

International Journals -162	National Journals - 08	International Conference Proceedings- 15

Facilities in the Department

- High End Desktop with i7 processor and 8 GM RAM with dual Boot Operating System Windows 8 and Ubuntu 14.x LTS - 200 Nos.

- Dell Work Station with 8 GB RAM with Dual Operation System - 06 Nos.

- Microprocessor and Interface Kit for Logic Design Lab - 25 Nos.

CONTACT INFORMATION

Head of the Department	
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