

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

2016-2017

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



A Kandasamy, Ph.D

Areas of Research : CFD, Rheology, Tribology, Computational Techniques, Optimization Techniques, Genetic Algorithms, Bio-Informatics, Wireless Sensor Networks Email: kandy_aks@yahoo.com, kandy@nitk.ac.in Web Page: http://aks.nitk.ac.in/ or http://macs.nitk.ac.in/faculty/kandasamy

Keshava Prasad Halemane, Ph.D

Areas of Research: Optimization, Computational Systems Science and Engineering, Computations in Decision Making Email: k.prasad.h@gmail.com, kph@nitk.edu.in Web Page: http://macs.nitk.ac.in/faculty/keshava-prasad-halemane







Murulidhar N N, Ph.D

Areas of Research: Reliability Engineering, Stochastic Process Email: muruli@nitk.ac.in,murulidharnn@gmail.com Web Page: http://macs.nitk.ac.in/faculty/murulidhar-n-n

Santhosh George, Ph.D

Areas of Research: Functional Analysis, Operator Theory, Ill Posed Operator Equations, Nonlinear Analysis. Email: sgeorge@nitk.ac.in Web Page: http://macs.nitk.ac.in/faculty/santhosh-george





Suresh M Hegde, Ph.D

Areas of Research: Graph Theory and combinatorics Email: smhegde@nitk.ac.in Web Page: http://macs.nitk.ac.in/faculty/suresh-m-hegde

B R Shankar, Ph.D

Areas of Research: Cryptography, Finite Fields, Functional Analysis, Number Theory, Operator Algebras Email: brs@nitk.ac.in, shankarbr@gmail.com Web Page: http://macs.nitk.ac.in/faculty/b-r-shankar



Associate Professors

R. Madhusudhan, Ph.D

Areas of Research: Computer Network Security, Remote User Authentication, Mobile computing

Email: madhu@nitk.ac.in ,madhu_nitks@yahoo.com Web Page: http://macs.nitk.ac.in/faculty/r-madhusudhan

Shyam S. Kamath, Ph.D

Areas of Research: Graph Theory,Combinatorics Email: shyam@nitk.ac.in Web Page: http://macs.nitk.ac.in/faculty/shyam-s-kamath





Sujatha D. Achar

Areas of Research: Numerical analysis, Theory of functions of complex variables Email: sujatha_achar @nitk.ac.in Web Page: http://macs.nitk.ac.in/faculty/sujatha-d-achar



A Senthil Thilak, Ph.D

Areas of Research: Graph Theory (Pure & Applied), Algorithmic Graph Theory, Wireless networks. Email: thilak@nitk.ac.in, asthilak23@gmail.com

Web Page: http://macs.nitk.ac.in/faculty/senthil-thilak

Chandhini G, Ph.D

Areas of Research: Numerical methods – Radial basis function based schemes Email: chandhini@nitk.ac.in Web Page: http://macs.nitk.ac.in/faculty/chandhini-g





I. Jeyaraman, Ph.D

Areas of Research: Complementarity problems Email: jeyaraman.iitm@gmail.com Web Page: http://macs.nitk.ac.in/faculty/i-jeyaraman

Jidesh P, Ph.D

Areas of Research: Mathematical Imaging, Image Processing, Data compression, Graph image processing Email: jidesh@nitk.ac.in, ppjidesh@gmail.com Web Page: http://macs.nitk.ac.in/faculty/jidesh-p





Assistant Professors

Kedarnath Senapati, Ph.D

Areas of Research: Probability and Stochastic Processes, Blind Signal Deconvolution and Separation, Wavelets and Signal Processing, Complex Dynamics Email: kedar11@gmail.com Web Page: http://macs.nitk.ac.in/faculty/kedarnath-senapati

P Sam Johnson, Ph.D

Areas of Research: Functional Analysis, Operator Theory Email: sam@nitk.ac.in, nitksam@gmail.com Web Page: http://macs.nitk.ac.in/faculty/p-sam-johnson or http://sam.nitk.ac.in





Pushparaj Shetty D, Ph.D

Areas of Research: Algorithmic Graph Theory, Algorithms for Wireless Sensor Networks, Computational Molecular Biology Email: prajshetty@nitk.edu.in, prajshetty@gmail.com Web Page: http://macs.nitk.ac.in/faculty/pushparaj-shetty-d

Satyanarayana Engu, Ph.D

Areas of Research: Partial Differential Equations		
Email: satyawl @gmail.com		
Web Page: http://macs.nitk.ac.in/faculty/satyanarayana-engu		





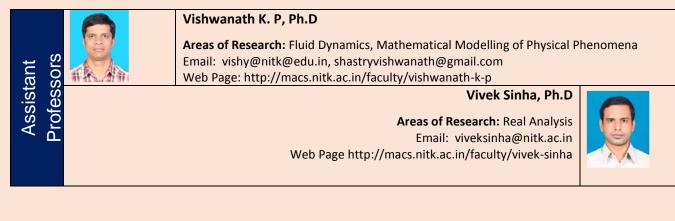
Srinivasa Rao Kola, Ph.D

Areas of Research: Coloring of Graphs Email: srinu.iitkgp@gmail.com ,srinukola@nitk.ac.in Web Page: http://macs.nitk.ac.in/faculty/srinivasa-rao-kola

V. Murugan, Ph.D

Areas of Research: Functional Equations, Fixed Point Theory, Dynamical Systems Email: mrgniitm@ gmail.com Web Page: http://macs.nitk.ac.in/faculty/v-murugan





on-Teaching Staff	Gangadhara B		
Z	Assistant Executive Engineer	l Ganesh	Jaya K
		Assistant (SG-II)	Attendant

Ongoing R&D Projects

_	SI. 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)

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		
Department of Mathematical and Computational Sciences	Telephone	+91-824-247 3048
National Institute of Technology Karnataka, Surathkal	Telefax Email	+91-824-247 4048 hodmacs@nitk.ac.in
Srinivasnagar, Managluru - 575 025, India		