C-MMACS ACADEMIC PROGRAMME

In keeping with its objective of developing skill and expertise in Mathematical Modelling and Computer Simulation in the country, C-MMACS maintains an active academic programme. The activities span the entire spectrum from Ph D guidence to undergraguate/postgraduate student projects to specialized courses. Students and professionals from a wide spectrum of organizations including industries across the country have been benefiting from our various academic programmes over the years.

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- ❖ Ph D Programme
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8.1 Ph D Programmes

Goswami P

Gouda K C, Multi-scale Modelling and Forecasting of Monsoon Weather and Processes

Himesh S, Dynamics of Land Surface-Atmosphere Interactions: Coupled Dynamics and Scale Interaction

Jurishmita Baruh, Modelling and Simulation of Air Pollution: Process Identification, Impact Analysis and Evaluation of Forecast Potential

Mahapatra G N, Impact of Local Climate Variability and Anthropogenic Processes in Extreme Weather Events over India

Swapan Mallick, Development and Evaluation of an Algorithm for Objective Bias Correction of Dynamical Forecasts at Different Scales

Sudarshan TSB and Patra GK

Santhana Lakshmi S, Design of Cryptographic Protocols u sing Computational Intelligence Techniques Supriya M, Trust Building in Distributed Storage using Cryptography.

Prathap G and Pradhan S C (IIT KGP),

Senthilkumar V, Small scale effect on Structural Behaviour of Carbon nanotubes

Ramamohan TR and Shivakumara IS (Bangalore University).

Madhukar K, The Dynamics and Rheology of Periodically Forced Particles in a Newtonian Fluid at Low Reynolds Numbers

Sridevi Jade

Saigeetha AJ, Tectonic implications of GPS studies in Significant tectonic zones of India, Shrungeshwar TS, Modelling deformation in Indian subcontinent.

Ashok Kumar and Sridevi Jade

Prakash Burman (Tezpur University), Estimation of Precipitable Water Vapor and Crustal deformation in Northeast India

Malay Mukul and Sridevi Jade

Kutubuddin Ansari (IIT Mumbai), Modelling of Global Positioning System (GPS) based surface deformation using Dislocations.

Ashok Shaw (IIT Mumbai), Geological and contemporary deformation in the internal thrust sheets of the higher Darjeeling Sikim Himalayas

8.2 Thesis/Project by M. Tech/BE/MCA students

Anil Kumar V

Unsolicited Network Traffic Analysis for Denial of Service Attacks Inference, Vinod Kumar V (M.Tech Thesis), Vellore Institute of Technology, Vellore, March 2010.

Gouda K C

Text Extraction from an Image, Ramyashree G, Ranjitha K, Smitha S, Vaishali C S (B.E), Department of Computer Sc. & Engg., East west Institute of Technology (VTU), August 2010.

Meteorological Data Analysis, Vinodha and Vineetha (B.E), East Point College(VTU), Bangalore, May 2010.

Development of software for Conversion of NuSDAS to NetCDF, Sonal Mishra and Sanjay Kamti (B.E), HMS Institute of Technology (VTU), May 2010.

Software Development for Multi-Format Data Analysis, Shruti and Shobhanjana Kalita (B.Tech), Jorhat Engg. College, Assam, May 2010.

Extraction and Analysis of Satellite Derived HDF Data, Biswajit Bhuyan, Ranadeep Ghosh, Diganta Bhattacharjya, M. Ravi Kumar Singh and Tapash Paul (MCA), Tezpur University, Assam, May 2010.

Parvez I A

Deterministic Seismic Hazard Assessment of North-East India and Adjacent Regions, Animesh Barman(M. Tech), Tezpur University.

Attenuation of P and S Waves in North-West Himalayas, Nagaraj K (M. Tech), Tezpur University.

Microearthquake locations using arrival time and mathematical operators, Biswaranjan Das (M.Tech), Tezpur University.

Patra G K

Word Based Stream Cipher, Dhinakaran T, Vijayaraghavan I, Seetha Bopaiah, Kusuma P (B E), Amrita School of Engineering, Bangalore, April 2010.

Performance Boost using Neural Cryptography, Ashutosh Kalasi, Rafath Hajira, Farah Nishath, Arshiya Sultana (BE), Vemana Institute of Technology, Bangalore, May 2010

GMP Implementation Of Cryptographic Protocols, Akshay Razdan (Summer Training), Graphic Era University, Dehradun July 2010

8.3 Faculty Participations

Training School on Analysis of Meteorological Data, CSIR C-MMACS, Bangalore, 18-19 Jan 2011.

Gouda K C

Multi-Scale Forecasting of Monsoon Weather and Processes

Kantha Rao Bhimala

Dynamical Soil Moisture Model for Indian Region; validation with CSIR-COMON Data

Mahapatra G N

Atmospheric Processes and Mesoscale Model

Patra G K

Scope of Observation and Telemetry