



CAMPUS NEWS

Indian Institute of Technology Madras

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No.16

NEW PROJECTS

The following new Sponsored Projects have been sanctioned:

Title	Name of the Coordinator/Dept.	Sponsor-ing Agency	Value (₹. in lakhs)	Duration
Design and synthesis of metallaborane clusters for catalytic cytotrimerization of alkynes	Dr. Sundargopal Ghosh, CH	BRNS	22.44	3 Years
Metal nanoclusters for fluorescence, catalysis, and heavy metal scavenging	Dr. T Pradeep, CH	DST (Indo-Finland)	42.81	3 Years
Diagnostic study on partial discharge activity in cryogenic insulation structure by multi sensor system	Dr. R Sarathi, EE Dr. K Sethupathi, PH	CPRI	46.00	2 Years
Hybrid organometallic coordination complex materials for nonlinear optics	Dr. C Vijayan, PH	DST (Indo – Australia)	4.66	3 Years
Development of a 'Plug-n-Play' microfluidic research platform and novel approaches to mixing, droplet, particle separation and pumping at micro-scale	Dr. Ashis Kumar Sen, ME	DST	27.60	3 Years
Development of a tele-surgical training robot and simulator model	Dr. T Asokan, ED	DST	50.54	2 Years 6 months
Chemistry and applications of group 4-5 metallaboranes	Dr. Sundargopal Ghosh, CH	DST	54.15	3 Years
Development of antifouling coating based on surface modification approach	Dr. Mukesh Doble, BT Dr. N V Ravi Kumar, MM	BRNS	53.90	3 Years

Title	Name of the Coordinator/Dept.	Sponsor-ing Agency	Value (₹. in lakhs)	Duration
M _w =8.0 kalka earthquake disaster scenario and national exercise	Dr. C V R Murty, CE	NDMA	25.20	1 Year
A Transcriptome-wide analysis of microRNA targets across different cell types	Dr. D Karunakaran, BT	DBT, Gol	65.01	3 Years
Enhancement and field trails free and open source GIS software	Dr. Koshy Varghese, CE Dr. C Lakshmana Rao, AM Dr. K P Sudheer, CE Dr. Balaji Narasimhan, CE Dr. Palaniappan Ramu, ED	Min. Rural dev.	56.47	3 Years
Surfacing of DMR 249 A steel with austenitic stainless by cold metal transfer process	Dr. M Kamaraj, MM Dr. G D Janakiram, MM	NRB	34.56	2 Years
Spectroscopy and magnetism of nanomaterials and inorganic systems	Dr. P T Manoharan, CH	INSA	9.95	3 Years 6 months
Human capital, innovations and firm performance in unorganized manufacturing industries	Dr. M Suresh Babu, HS	ICSSR*	5.94	18 Months
Development of a mode switching biogas-biodiesel/diesel HCCI engine with a high pressure common rail injection system	Dr. A Ramesh, ME Dr. J M Malikarjuna, ME	DST	88.39	2 Years
Modelling Accelerated Ageing and Degradation of Solid Oxide Fuel Cells (MAAD-SOFC)	Dr. Ranjit Bauri, MM Dr. Sreenivas Jayanti, CH	DST (Indo – UK)	63.27	3 Years
Electrospinning geometry optimization for preparation of core-sheath nanofibres and conversion of nanofibres into yarns	Dr. T S Natarajan, PH	DST	7.49	2 Years
Protease immobilized active food packaging system for cottage cheese	Dr. Mukesh Doble, BT	DBT, Gol	27.36	3 Years
Power efficient and high performance data prefetching techniques for multi-core processors	Dr. Madhu Mutyam, CS	UK IERI *	11.27	2 Years

*ICSSR: Indian Council of Social Science Research,

*IERI: Indian Education and Research Initiative

SEMINAR TALKS – PH.D

Shri Basanth S.Kalanoor, Research Scholar, Department of Physics (PH07D027) will give three seminar talks on *Optical Nonlinearity and Dynamics of Laser Dyes and Graphene Composites on Pico Second Time Scale* at 1100 hours on April 24,25 and 26, 2012 in the Seminar Hall.

Shri Mrityunjay Kumar Singh, Research Scholar, Department of Biotechnology (BT09D005) will give a seminar talk on *Biochemical and Structural Studies on a Thermostable Carbohydrate Esterase from Thermotoga Maritima* at 1430 hours on April 25, 2012 in the Seminar Hall.

Shri N.Yogesh, Research Scholar, Department of Physics (PH07D016) will give three seminar talks on *Microwave Propagation and Confinement in Photonic Band Gap Structures* at 1500 hours on April 25, 26 and 27, 2012 in the Seminar Hall.

Ms.Madhavi Kanuru, Research Scholar, Department of Biotechnology (BT10D010) will give a seminar talk on *Ion and DNA Binding Properties of Calnuc: Mechanistic and Functional Studies* at 1500 hours on April 25, 2012 in the Seminar Hall.

Shri S.Sujith, Research Scholar, Department of Aerospace Engineering (AE08D003) will give a seminar talk on *Gaseous Injection into Supersonic Flow using Struts* at 1500 hours on April 25, 2012 in Class Room 4.

Shri C.Paramanand, Research Scholar, Department of Electrical Engineering (EE07D004) will give a seminar talk on *Scene Structure from Motion and Optical Blur* at 1530 hours on April 25, 2012 in the Seminar Hall.

Ms.K.Sulochana, Research Scholar, Department of Engineering Design (ED09D007) will give a seminar talk on *Simultaneous Measurement of Multiple Gas Species using a Single Nd³⁺:YAG Laser for Combustion Applications* at 1500 hours on April 27, 2012 in Room no ED 103.

Shri N.R.Mukundan, Research Scholar, Department of Management Studies (MS09D002) will give a seminar talk on *Perceived Information Security in the Indian IT Services Industry- Importance Performance Analysis* at 1100 hours on April 30, 2012 in the Seminar Hall.

SEMINAR TALKS – M.S.

Shri Ajay Krishnan, Research Scholar, Department of Civil Engineering (CE09S004) will give a seminar talk on *Study of Cost Effectiveness of Cement based Repair Materials* at 1500 hours on April 26, 2012 in the BTCM Seminar Hall.

STAFF MATTERS

Dr.Dillip Kumar Satapathy has been appointed as Assistant Professor in the Department of Physics with effect from March 26, 2012.

VIDEO SHOWS

The following cassettes will be screened at 1600 hours in Media Resource Centre - Level IV of the Central Library:

Date	Topic (50 minutes)
April 23, 2012	Fluid Mechanics Lecture No.6 : VC 222 by Prof.Aswathanarayana
April 25, 2012	Networks and Systems – Lecture No.26 VC 343 by Prof.V.G.K.Murthy
April 27, 2012	Elements of Structural Mechanics - Lecture No.3 : VC 411 by Prof. K.A.Pandalai

FILM CLUB

Date	Movie
April 21, 2012	Tamil Movie - Dhoni
April 28, 2012	English Movie - This Means War