

**Department of Science & Technology**  
**International Division**

**Provisonally selected Project Proposals for Exchange of Researchers within the  
frame of the Executive Programme of Scientific and Technological Cooperation  
between  
the Replubic of India and the Italian Republic for the years 2012 - 2014**

An Indo-Italian Joint call for proposals was advertised in July 2011. 75 common project proposals for exchange of researchers were received against the joint call. Based on scientific merit, national priority of both the countries and scientific strengths of the project coordinators, Department of Science & Technology and Ministry of Foreign Affairs, Italy have provisionally decided to support jointly following 12 proposals. The duration of the project would be for 3 years. Under the selected project **one long term** and **one short term visit** from each side each year would be supported. Project coordinators are being informed separately to complete administrative formalities for release of DST grant.

	<b>Area</b>	<b>Title</b>	<b>Indian Coordinator</b>	<b>Italian Coordinator</b>
1	DET	Development of innovative digital technologies for mass customized industrial building construction	KULKARNI Mrudula MAEER`S Maharashtra Institute of Technology Pune	PAOLETTI Ingrid Politecnico of Milano
2	EE	Development of Nano-catalysts and Photo-catalysts for hydrogen production and water purification	KOTHARI Dushyant C. University of Mumbai	MIOTELLO Antonio University of Trento
3	HBM	Pharmacogenomics of response to lithium treatment	JAIN Sanjeev National Institute of Mental Health and Neurosciences	DEL ZOMPO Maria University of Cagliari
4	HBM	Engineering cell selectivity in antimicrobial peptides for the development of novel antibiotic drugs	GHOSH Jimut CSIR Central Drug Research	STELLA Lorenzo Roma University "Tor Vergata"
5	ICT	New perspectives for computational social science	MUKHERJEE Animesh Indian Institute of Technology, Kharagpur	LORETO Vittorio ISI Foundation
6	ICT	Cerebellum inspired approach for pattern classification in robots	MUKUNDANUNNY Shyam Diwakar	NALDI Giovanni Milano University
7	NAM	Study of self-healing ability of advanced fiber reinforced cement based materials	GETTU Ravindra Indian Institute of Technology	FERRARA Liberato Politecnico of Milano
8	NAM	From Small Molecules to Advanced Molecular Materials: Transport and Transfer Properties	PATI Swapan Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR)	PAINELLI Anna Parma University
9	NAM	Development of body armour materials using silica nanoparticles	MAJUMDAR Abhijit Indian Institute of Technology Hauz Khas	ROVERO Giorgio Politecnico of Torino
10	NAM	Computer simulations and NMR investigations of responsive materials for photonics applications	SASTRY Vanka University of Hyderabad	ZANNONI Claudio Università di Bologna
11	SP	Probing General Relativity in the vicinity of Black Holes using ASTROSAT	BHATTACHARYA Dipankar IUCAA, Pune University Campus	BELLONI Tomaso INAF National Institute of Astrophysics
12	SP	Simulation, NTME Calculation and half life measurement for Double Beta Decay of Sn nuclei.	RAINA Prabhu Krishan Indian Institute of Technology Ropar	BERNABEI Rita University of Roma "Tor Vergata"

## **LEGENDA**

DET: Design Engineering and Technology

EE: Energy and Environment

HBM: Health, Biotechnology and Medicine

ICT: Electronics, Information Communication Technology

NAM: Nanotechnology and Advanced Materials

SP: Space and Physics