



National Institute of Technology Durgapur, INDIA

**Technical Report
2008-2009**

Volume 2

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1. ACHIEVEMENTS IN 2008-09 – AT A GLANCE

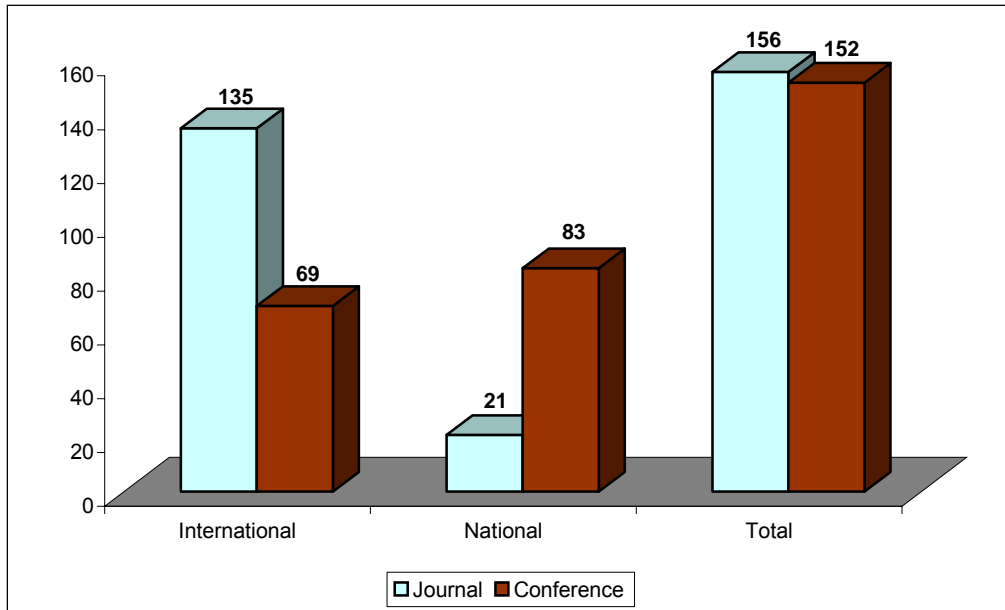


Fig. 1: Paper published/accepted in journals and published in conference proceedings (2008-2009)

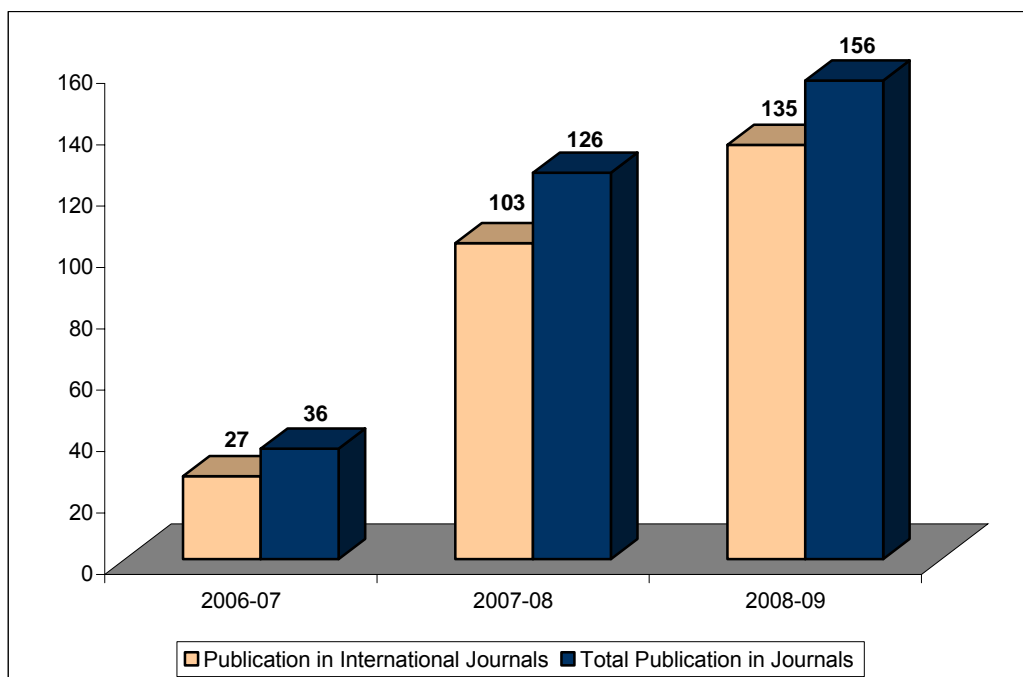


Fig. 2: Papers published/accepted in peer-reviewed journals in the last three years

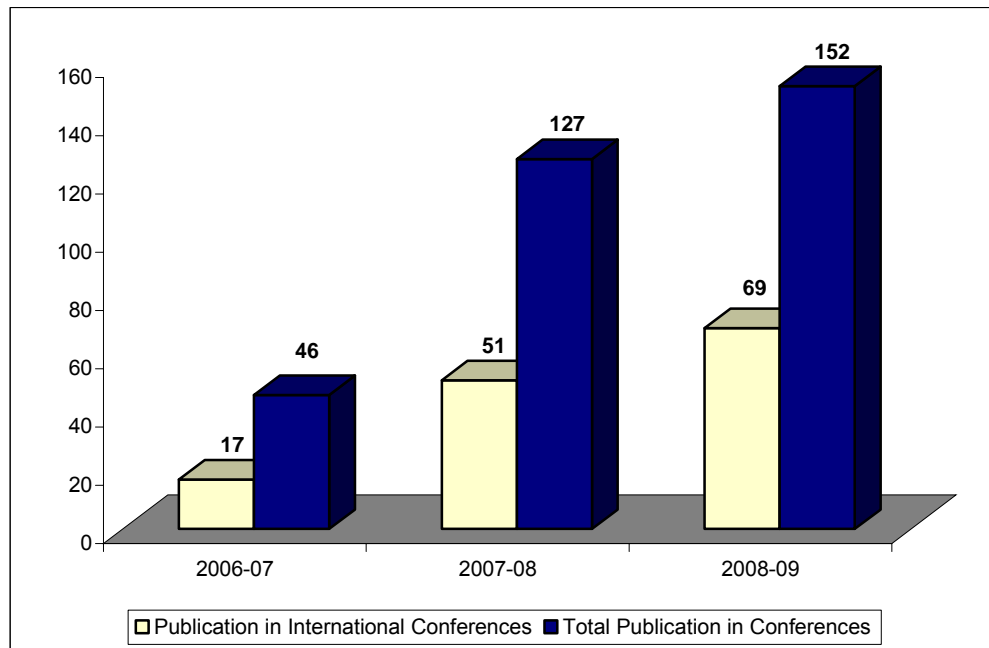


Fig. 3: Papers published in conference proceedings in the last three years

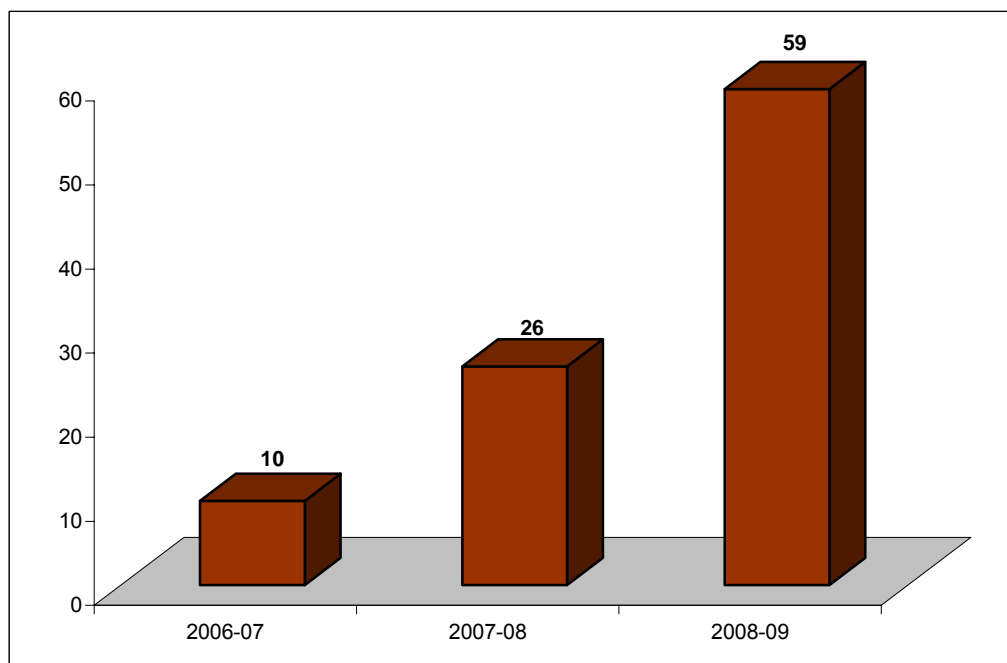


Fig. 4: Review of manuscripts in journals in the last three years

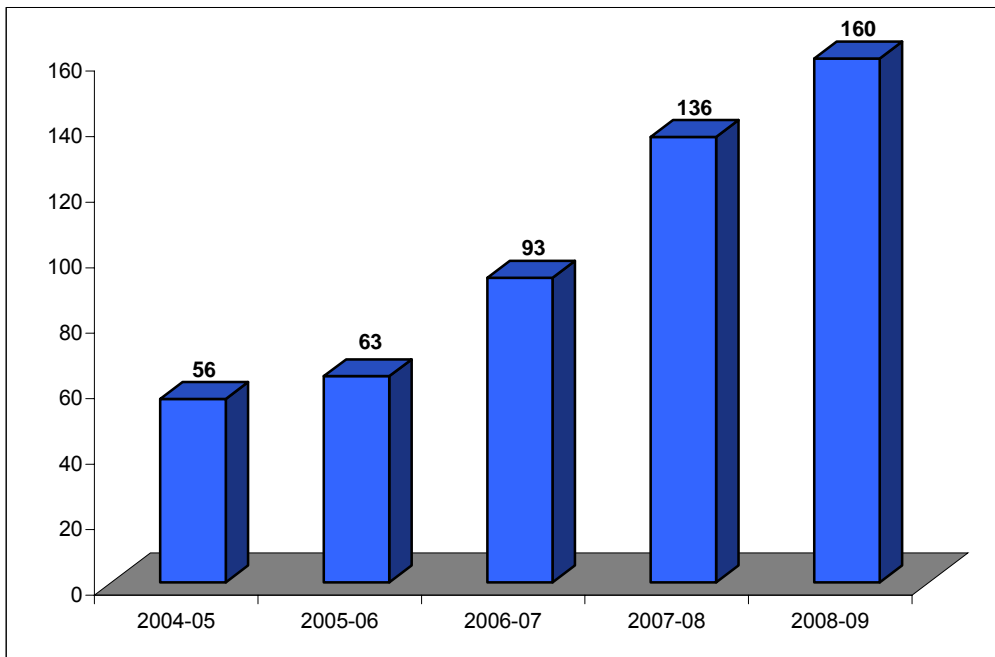


Fig. 5: Number of supervision of PhD scholars during the last five years

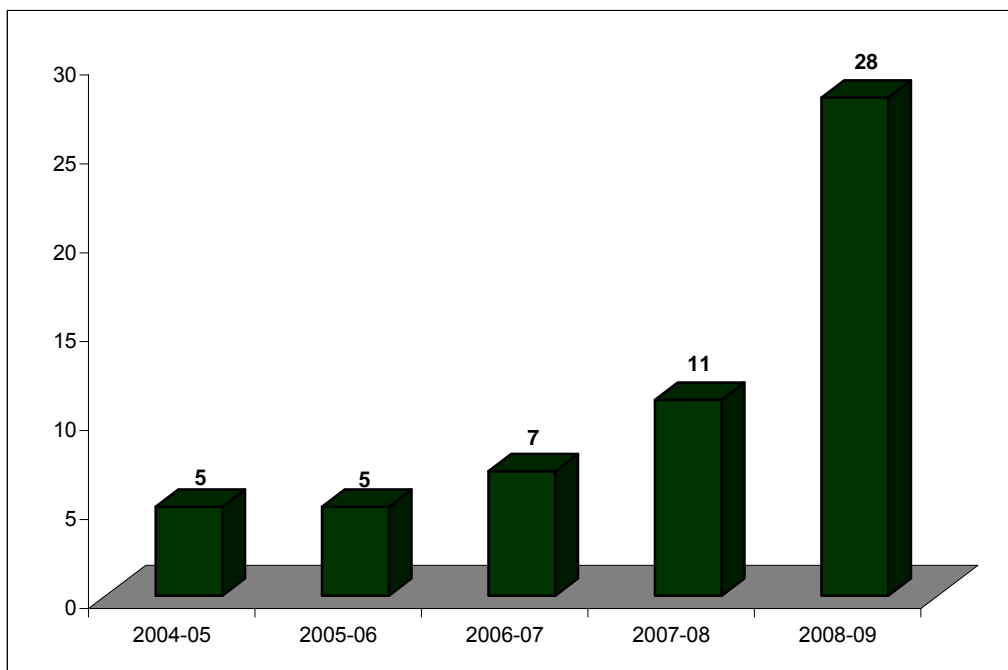


Fig. 6: Number of sponsored projects during the last five years

2. THE FACULTY OF DEPARTMENTS OFFERING ACADEMIC PROGRAMMES

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DEPARTMENT OF PHYSICS

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3. ONGOING SPONSORED PROJECTS

DEPARTMENT OF BIOTECHNOLOGY

Title of the Project	Investigator(s)	Sponsoring Organisation	Amount (in Rs)	Starting Year
Exploration and Exploitation of microbial catabolic potentials for the bioremediation of selected heavy metal and hydrocarbon contaminants	Kazy Sufia Khannam	DST - SERC Fast Track Project for Young Scientist	17 lakhs	2009
Assessment of microbial diversity and community structure and their role in arsenic transformation and mobilization in arsenic contaminated groundwater of West Bengal	Kazy Sufia Khannam, Sar Pinaki and Gupta A. K. (IIT, Khargapur).	DBT, Govt. of India	30 lakhs	2008
Cloning and characterization of <i>ehyI</i> , a regulatory gene of light signalling, from <i>Arabidopsis thaliana</i>	Chattopadhyay Sudip	DBT, Govt. of India	28 lakhs	2007
Investigation of genetic and molecular interrelations of ZBFs in light signalling pathways in <i>A. thaliana</i>	Chattopadhyay Sudip	Ramanna Fellowship Grant, DST, Govt. of India	33 lakhs	2006

DEPARTMENT OF CHEMICAL ENGINEERING

Title of the Project	Investigator(s)	Sponsoring Organisation	Amount (in Rs)	Starting Year
Production of Lactic acid in Membrane-integrated Hybrid Reactor System- A Green Technology Approach	Pal Parimal	DST, Govt. of India	18.78 lakhs	2009
Study on remedial measures of Environmental problems of refractory Manufacturing units, Asansol-Kulti Zone	Pal Parimal	Refractory Manufacturing Association, Asansol-Kulti	2.0 lakhs	2009
Coke-oven wastewater treatment, DSP	Pal Parimal, Mandal Tamal	DSP, SAIL	3.0 lakhs	2008
DST-FIST	All faculty of the department	DST, Govt. of India	145.60 lakhs	2008
Technology Development of Liquid Phase Adsorption of Mercury Using Low-cost Adsorbent for Better Management of Industrial Wastes	Dutta Susmita, De Parameswar (University of Calcutta), Basu Srabanti (Heritage Institute of Technology, Kolkata)	DST, Govt. of India	7.5 lakhs	2008
Development of Predictive Mathematical Model for Evolution of Alloy Layers & Process-structure-property Correlation in Hot Dip Galvanizing Process	Gupta Parthapratim, Sadhukhan Anup Kumar	R&D Centre for Iron & Steel (SAIL), Ranchi.	2.0 lakhs	2006

DEPARTMENT OF CHEMISTRY

Title of the Project	Investigator(s)	Sponsoring Organisation	Amount (in Rs)	Starting Year
Modification of sperm plasma membrane structure and function using exogenous lipid and its application in cryopreservation	Chakrabarty Jitamanu	DST - SERC Fast Track Project for Young Scientist	19.22 lakhs	2009
Rhodamine-based new fluorescence probe for biologically important metal ions	Panja Sujit Sankar	DST - SERC Fast Track Project for Young Scientist	18.96 lakhs	2009
Synthetic Modelling of Copper-Protein Active Sites	Patra Apurba Kumar	DST, Govt. of India	23.97 lakhs	2007
Application of Advanced Oxidation (Photo and Fenton's) and Biological (SBR) treatment on high strength toxic wastewaters	Saha Rajnarayan	DST - SERC Fast Track Project for Young Scientist	9.0 lakhs	2005

DEPARTMENT OF CIVIL ENGINEERING

Title of the Project	Investigator(s)	Sponsoring Organisation	Amount (in Rs)	Starting Year
Setting up mobile bed flume and installing related equipment	All faculty members	DST, Govt. of India	50 lakhs	2008

DEPARTMENT OF ELECTRICAL ENGINEERING

Title of the Project	Investigator(s)	Sponsoring Organisation	Amount (in Rs)	Starting Year
FIST PROGRAM on 1. Advanced Power Systems 2. Advanced Control Systems & Machine Drives	All faculty members of the department	DST, Govt of India, New Delhi	108 lakhs	2009
Optimal allocation of FACTS devices and their coordinated operation for power flow control and enhancement of voltage stability using soft computing techniques	Acharjee Parimal	DST - SERC Fast Track Project for Young Scientist	10.38 lakhs	2009
Control System Design using Periodic Feedback Compensation: A Practical Implementation	Dey Jayati	DST - SERC Fast Track Project for Young Scientist	13.60 lakhs	2009
Design, development, fabrication and testing of an electromagnetically levitated system	Banerjee Subrata	Institute of Engineers (India)	0.4 lakhs	2008

Title of the Project	Investigator(s)	Sponsoring Organisation	Amount (in Rs)	Starting Year
Development of a Portal and Kiosk of Gold smith's skill towards enhancement of entrepreneurship abilities among working professionals	Roy Nirmal Kumar	Department of Scientific and Industrial Research, Govt of India	12.62 lakhs	2006

DEPARTMENT OF ELECTRONICS AND COMMUNICATIONS ENGINEERING

Title of the Project	Investigator(s)	Sponsoring Organisation	Amount (in Rs)	Starting Year
Contoured beam synthesis for array antenna to obtain efficient footprint pattern with gain optimisation	Mahanti Gautam Kr., Chakraborty Ajay Kr. (IIT, Kharagpur)	ISRO	4.0 lakhs	2008
Special Man Power Development Project	Datta Sanjit Kr.	Ministry of Communication & Information Technology	60 lakhs	2005

DEPARTMENT OF INFORMATION TECHNOLOGY

Title of the Project	Investigator(s)	Sponsoring Organisation	Amount (in Rs)	Starting Year
FOSS Resource Centre under IOTA	Choudhury Subhrabrata	Institute of Open Technology and Application, Ministry of Information Technology, Govt. of West Bengal	26 lakhs	2008
Information Security Education and Awareness Project	Choudhury Subhrabrata	Ministry of Communication and Information Technology, Govt. of India	70 lakhs	2006

DEPARTMENT OF MATHEMATICS

Title of the Project	Investigator(s)	Sponsoring Organisation	Amount (in Rs)	Starting Year
Solution of some optimization problem using graph theoretic approach	Pal Anita	DST, Govt. of India	10.56 lakhs	2006

DEPARTMENT OF METALLURGICAL & MATERIALS ENGINEERING

Title of the Project	Investigator(s)	Sponsoring Organisation	Amount (in Rs)	Starting Year
DST-FIST Programme	Ghosh K. S. Mitra S. K. Mondal D. K. Pramanik S.	DST, Govt. of India	117 Lakhs	2009
Studies on Mechanical Properties and corrosion Behaviours of RTA treated HSLA Steels	Ghosh K. S. Mondal D. K.	Naval Research Board	18.66 Lakhs	2009

DEPARTMENT OF PHYSICS

Title of the Project	Investigator(s)	Sponsoring Organisation	Amount (in Rs)	Starting Year
Synthesis and Characterization of Physical Properties of Liquid Crystalline Polymers	Dr. S. K. Chatterjee Dr. A. K. Meikap	MHRD	11 lakh	2005

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DEPARTMENT OF BIOTECHNOLOGY

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12. Saha, P., Datta, S., Sanyal, S. K., 2008. Assessment of soil – admixture membrane used as liner for Waste landfill, *Indian Science Cruiser*, 22(5), 40 – 52.

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COMPUTER CENTRE

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

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DEPARTMENT OF HUMANITIES & SOCIAL SCIENCES

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DEPARTMENT OF INFORMATION TECHNOLOGY

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DEPARTMENT OF MANAGEMENT STUDIES

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2. Bandyopadhyay, G., 2009. Optimum return on investment: a dynamic programming approach, National seminar on managing in Global Economy Challenges & Strategies.
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DEPARTMENT OF MATHEMATICS

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DEPARTMENT OF MECHANICAL ENGINEERING

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DEPARTMENT OF METALLURGICAL & MATERIALS ENGINEERING

1. Mitra, S.K., Pramanik, S., Roy, R.N., 15 – 16 Nov 2008. Burden optimization at SAIL-DSP: A Journey towards Perfection, NMD-ATM 2008, Kolkata.

DEPARTMENT OF PHYSICS

1. Bhattacharya, K., Mitra, A. K., 2008. Determination of Young's Modulus and Failure Characteristics of SWCNT-some new findings, International Conference on Nanotechnology "NT 09" (June 29-July 3), Montpellier, France. S6-16.
2. Karmakar, S., Roy, N. K., Kumbhakar P., 13 – 17Dec 2008. Optical Method for Partial Discharges Detection in a Model Transformer, Photonics 2008, International Conference On Fiber Optics and Photonics, Delhi, 152.
3. Karmakar, S., Roy, N. K., Kumbhakar, P., 1 – 4Mar 2009. Optical Spectrophotometric Diagnostic Method for Determination of the Effect of Partial Discharges in Insulating Oil, International Conference on "Trends in Optics and Photonics" (ICONTOP), Kolkata, 368-373.
4. Kumbhakar, P., Chattopadhyay, M., Kobayashi, T., 7 – 10Jan 2008. Ultra-broadband sum-frequency mixing in some newly developed crystals for characterization of carrier-envelope phase locked near-infrared radiation, Eights DAE-BRNS National Laser Symposium (NLS-08), India, 6(003).
5. Paul, R., Kumbhakar, P., Mitra, A. K., 1 – 4Mar 2009, Luminescence Characteristics of ZnS-Encapsulated Single-Walled Carbon Nanotubes. International Conference on "Trends in Optics and Photonics", Kolkata, 89-96.
6. Rastogi, C. K., Tiwary, C. S., Kumbhakar, P., Mitra, A. K., 9 – 10Mar 2009. High Temperature Synthesis and Characterization of Mn²⁺ doped ZnS Nanoparticles, National Conference on "Advanced Materials and Radiation Physics", India, 25.
7. Sahoo, B., Sahoo, S., Pal, P. P., 14 – 15Feb 2009. Neutrinoless Double Beta Decay: A Hope for Massive and Majorana Neutrino, XXVI Convention of Orissa Physical Society and National Seminar on Role and Relevance of Physics in Engineering Education, Berhampur, 38.
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9. Sahoo, S., Goswami, M., 17 – 18Oct 2008. Are Quarks Fundamental Particles?, XXIII Annual Convention of IAPT, Indian Academy Degree College Bangalore, 340.
10. Sarkar, R., Kumbhakar, P., Mitra, A. K., 1 – 4Mar 2009. Effect of Temperature and Surfactant on the Synthesis and Optical Properties of Silver Nanowires, International Conference on "Trends in Optics and Photonics", Kolkata, 123-129.
11. Talukdar, K., Mitra, A. K., 3 - 7Nov 2008. Influence of Stone-Wales defect in the Mechanical Behaviour of an Armchair SWCNT, International Conference on Nanoscience "AsiaNano 2008", Singapore, A-PA-30.

6. (A) PhD AWARDED BETWEEN FOURTH AND FIFTH CONVOCATIONS (SUPERVISED BY THE INSTITUTE FACULTY)

Topic	Investigator	Supervisor(s)	Department
Design and dimensioning of an Edge Router for internet traffic using MMPP model	Bhattacharya P.	Sanyal G.	Computer Science & Engineering
Analysis and Testing of Object Oriented Systems	Kanjilal Ananya (Registered with Jadavpur University)	Bhattacharya S.	Computer Science & Engineering
Development of a Agro-Technology in Old Alluvial Soil Zone of Burdwan District, West Bengal for Sustainable Soil Health and Crop Yield of Mungbean (Vigna Radiata L. Wilczek)	Mondal Nabakumar (Registered with Burdwan University)	Datta J. K. (BU), Saha Rajnarayan	Chemistry
Application of Evolutionary Optimization Techniques for Some Selected Power System Problems	Mukherjee V.	Ghoshal S.P.	Electrical Engineering
On some inventory problem for defective/deteriorating item in fuzzy and fuzzy stochastic environment	Roy Arindam (Registered with Vidyasagar University)	Kar S.	Mathematics
Application of Evolutionary Computation in Economic Load Dispatch and Automatic Generation Control	Roy Ranjit	Ghoshal S.P.	Electrical Engineering
Functional Specifications of Object Oriented Systems: A Model Driven Framework"	Sengupta Sabnam (Registered with Jadavpur University)	Bhattacharya S.	Computer Science & Engineering
Mechanical behaviour of reinforcing fibres for high-strength fibre-composites	Singha Prasanta Kr.	Mitra A. K.	Physics
To Study and Analyse Speech Recognition Techniques and Speaker Recognition in an Indian Language	Sinha T. S.	Sanyal G.	Computer Science & Engineering

6. (B) ONGOING PhD SUPERVISION

DEPARTMENT OF BIOTECHNOLOGY

Topic	Investigator	Supervisor(s)
Studies on Recovery /Reuse of Hazardous Chromium from Tannery Waste Water using Integrated Membrane Process	Bajpai Shailendra	Dey A., Gupta S. K., Jha M. K.
Fermentative production of protease enzyme	Bhunja Biswanath	Chaudhuri S., Dutta D.
Optimal Production Strategies for Microbial Pigments	Goswami Gargi	Dutta Debjani, Chaudhuri Surabhi

Topic	Investigator	Supervisor(s)
Sequence Alignment and Phylogenetic Analysis of Human Herpes Virus using Molecular Evolution Genetic Analysis (MEGA)	Kumar Vipran	Dey A., Singh A.
Studies on the etiopathogenesis of gall bladder carcinoma in eastern India.	Pramanik Vishmadeb	Kazy Sufia Khannam Kar M., Sarkar B. N.
Production of bio-active compounds from marine bacteria	Prasad Shiv Shankar	Aikat Kaustav
Biofuel production using cellulosic and hemicellulosic biomass	Sarkar Nivedita	Aikat Kaustav

DEPARTMENT OF CHEMICAL ENGINEERING

Topic	Investigator	Supervisor(s)
Heat and mass transfer studies on vertical pneumatic conveying	Anandhakrishnan R.	Sarkar Jyoti Prakas
Understanding and modelling the dynamics of coke-oven wastewater	Bera Dilip	Pal Parimal
Technology Development of Liquid Phase Adsorption of Mercury Using Low-cost Adsorbent for Better Management of Industrial Wastes	Bhattacharyya Aparupa	Dutta Susmita, Basu Srabanti
Studies on the Removal of Pollutants from Treated Municipal Waste Water by Photocatalytic Oxidation Process and Conventional Method	Cheriyann Anna Jesil	Sarkar Jyoti Prakas, Dutta Susmita
Thermo Chemical Generation through Fluidized Bed Gasification of Biomass	Karmakar Malay	Haldar Subhamay, Dutta A. B.
Study On Slurry Flow Modeling In Pipeline	Kumar Lahiri Sandip	Ghanta Kartik Chandra
Biological and Physico-chemical Treatment of Coke-oven wastewater	Kumar Ramesh	Pal Parimal
Mathematical Modelling of Blast Furnace Hot Blast Stoves	Manjhi S. P.	Gupta Parthapratim
Removal of arsenic from drinking water by Solar-driven membrane distillation and nano-membrane filtration	Manna Ajay Kumar	Pal Parimal
Preliminary processing of municipal solid waste and modelling of landfills	Mukhopadhyay Debabrata	Sarkar Jyoti Prakas, Dutta Susmita.
Mass Transfer in convergent pneumatic Dryer	Prasad Sunil Kumar	Sarkar Jyoti Prakash, Paruya Swapan
Combustion and Gasification of Coal and Biomass	Sadhukhan Anup Kumar	Gupta Parthapratim
Groundwater contamination by arsenic in Bengal Delta Basin- Studies on effective treatment	Sen Mou	Pal Parimal

Topic	Investigator	Supervisor(s)
Production of lactic acid in membrane-integrated bioreactor	Sikder Jaya	Pal Parimal, Sarkar Jyoti Prakash

DEPARTMENT OF CHEMISTRY

Topic	Investigator	Supervisor(s)
Molecular Modeling of IMPDH (Inosine Monophosphate Dehydrogenase) and the Binding Studies of Some Modified IMPDH –Inhibitors	Bairagya Hridoy R.	Mukhopadhyay Bishnu Prasad
Studies on the growth Physiology and Yield of Mastered under the influence of Biofertilizer in Old Alluvial Soil Zone of West Bengal, India. (Submitted on July, 2009)	Banerjee Arnab (Registered with Burdwan Univerisy)	Datta J. K. (BU) Saha Rajnarayan
Structure & water molecular Dynamics of the transthyretin protein and their association with Vitamin A binding protein	Banerjee Avik	Mukhopadhyay Bishnu Prasad
A study on the water molecular dynamics in some homologues matrix metalloproteinase s(MMPs) and their inhibitor bonded complexes by modeling methods	Chakrabarti Bornali	Mukhopadhyay Bishnu Prasad
Evaluation of Arsenic Contamination in Ground Water, Soil, Vegetation through Food Chain and its impact on the Environment	Chanda Sukanya	Saha Rajnarayan, Pal Parimal (CHE)
Application of Fenton's, Lime and Biological Treatment and Their Comparative Assessment for the Treatment of Toxic Wastewater (Submitted on May, 2009)	Das Sri Babuji (Registered with Burdwan Univerisy)	Saha Rajnarayan
Synthesis of titania nanoparticles and rheological study for different applications	Mahato Shrabani	Mondal B.N. , Nandi Murari Mohan
Application of Photo-Fenton's Oxidation and Biological Oxidation for the Degradation of Some Selected Pollutants Present in Petro-Chemical and Coke-Oven Wastewater	Mallik Tirthankar (Registered with Burdwan University)	Saha Rajnarayan
A study on the invariant water molecular dynamics in plant cysteine protease and their complexes by modeling methods	Nandi Tapas K.	Mukhopadhyay Bishnu Prasad
Environmental Impact of Effluent Generating from Sponge-Iron Industries on Surrounding Water, Soil and Vegetation	Nayek Sumanta (Registered with Burdwan University)	Saha Rajnarayan, Gupta S.
Studies on sulphonamidoimidazolines and Hydroprimidines as corrosion inhibitors	Ranjana	Nandi Murari Mohan, Maji Milan
Synthetic Modelling of Copper-Protein Active Sites	Roy Suproakash	Patra Apurba Kumar
Development of a Suitable Treatment Scheme of Combined Effluent Generating from Iron & Steel, Ferro Alloy, Thermal Power and Chemical Industries Located in Durgapur Industrial Area, West Bengal, India	Satpati Satarupa (Registered with Burdwan University)	Saha Rajnarayan, Gupta S.

Topic	Investigator	Supervisor(s)
An Investigation on Composition of Sea Water and its Corrosion Effects on Metals	Shahjahan	Saha Rajnarayan, Das Sunil Baran Raut Nitin Bhaurao (CCE, Oman)

DEPARTMENT OF CIVIL ENGINEERING

Topic	Investigator	Supervisor(s)
An investigation of flow and performance characteristics within a sinuous duct	Biswas A.	Saha S. Mullick A. N.
Study of Curved Diffusers below 60 ^o angle of turn in an Open return sub-sonic wind tunnel	Das A.	Majumder B. (JU), Saha S., Mukherjee S.
Studies on flow and performance characteristics through serpentine diffuser	Das N. K.	Ray P., Halder B., Majumdar B. (JU)

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Topic	Investigator	Supervisor(s)
Study and implementation of stagenography model for secure Communication	Bhattacharya S.	Sanyal G.
Knowledge Management Applications in e-government Services	Chakraborty Baisakhi	Ghosh D.
Text Stagenography through Indian Languages	Changder S.	Ghosh D.
Robot Manipulation and its applications	Das S.	Sanyal G.
Computational Numerical Solutions on Boundary Layer Theory	Dey S. N.	Ghosh D.
Studies on Some Aspect of Routing and Quality of Service in Mobile Network	Guha Thakurta Parag Kumar (Registered at University of Calcutta)	Bandyopadhyay S. (CU), Bhattacharya Swapan
Analysis and Dimensioning of Multiservice Cellular Wireless networks for Achieving Higher performance	Samanta Rajkumar	Sanyal G.
Design of A New Object Oriented Conceptual Data Model for Analytical Processing on Data Warehouse	Sarkar Anirban	Bhattacharya Swapan, Choudhury Sankhayan, Chaki Nabendu

DEPARTMENT OF ELECTRICAL ENGINEERING

Topic	Investigator	Supervisor(s)
Some studies on dc attraction type levitation and associated control systems	Bhaduri Rupam	Banerjee S.
Optimization in AGC for hybrid power systems including FACTS devices	Bhat Praghresh	Ghoshal S. P., Roy Ranjit
Some design aspects for single and multi-magnet based electromagnetic levitation system	Biswas Pabitra	Banerjee S., Sarkar P. (External)
Synthesis and Characterization of Lanthanum Doped Barium Titanate Zirconate (submitted)	Dash M. S.	Ghosh S.
On-line Monitoring of Partial Discharge in Transformer Oil	Karmakar S.	Roy N. K., Kumbhakar P. (PH)
Investigation of Haematological disorders from blood cells using soft computing techniques	Karunaharan K. Aldrin	Ghoshal S. P.
Modelling of breakdown voltages using soft computing techniques	Mohanty S.	Ghosh S.
Electrical Power Systems State Estimation, detection and Identification of bad data	Rajan D.V.	Thakur S. S.
Assessment of Deregulation of Power with a view of reform in power sector	Rajan Indira	Thakur S. S.
ELD, OPF Studies alongwith FACTS	Roy Provas	Ghoshal S.P., Thakur S. S.

DEPARTMENT OF ELECTRONICS & COMMUNICATIONS ENGINEERING

Topic	Investigator	Supervisor(s)
Optical Communication	Adharieya Krishnendu	Bhattacharjee Anup Kr.
Synthesis of Array Antenna with mutual coupling	Basu Banani	Mahanti Gautam Kr.
Efficient radio resource management in wireless networks	Dhar Roy Sanjay	Kundu Sumit
Array Antenna	Ghosal S. K.	Bhattacharjee Anup Kr.
Interconnect modelling	Kar Rajib	Bhattacharjee Anup Kr.
Array Antenna	Mandal Durbadal	Bhattacharjee Anup Kr.
Wireless Sensor networks	Nandi Arnab	Kundu Sumit
Synthesis of thinned array antenna using soft computing tools	Pathak N.	Mahanti Gautam Kr.
Cryptography (submitted)	Paul Pranam	Bhattacharjee Anup Kr., Dutta Saurabh
Embedded System	Raychaudhuri Jaydeb	Bhattacharjee Anup Kr.

DEPARTMENT OF GEOLOGY

Topic	Investigator	Supervisor(s)
Impact Assessment of Road Transport Noise on the Urban People of Asansol, an Industrial Town of Eastern India by Monitoring, Modelling and Mapping	Banerjee Dibyendu	Gangopadhyay A., Bhattacharyya S., Chakraborty S. K.
Assessment of Groundwater condition and quality in areas north of Durgapur in the district of Burdwan, West Bengal, India	Chakraborty Barnali	Gangopadhyay A. Adhikari Kalyan
Studies on the environmental vis-à-vis socio-economic impact of vermicomposting in organic waste management	Karmakar Sruti	Gangopadhyay A., Brahmachari K.
Geo-environmental impact of coal mining in some parts of Raniganj-Asansol coalfields, West Bengal, India	Sadhu Koushik	Adhikari Kalyan, Gangopadhyay A.
The Tectonics of the Eastern Segment of Delhi Fold Belt, Southeast of Beawar, Rajasthan	Saha Pinaki	Gangopadhyay A., Mukhopadhyay D.

DEPARTMENT OF HUMANITIES & SOCIAL SCIENCES

Topic	Investigator	Supervisor(s)
Optimisation of capacity utilization in Steel industry	Basak Nitai	Sengupta P. P.
Indian fertilizer industry	Bhattacharya Amit K.	Sengupta P. P., Sikdar S. C.
Micro- pension plans: Indian Perspective	Bhattacharya Prakash	Chakraborty B. N.
Role of inventory management	Bhattacharya Shyamal K.	Sengupta P. P.
Problems and prospects of microfinance	Biswas Tiyas	Sengupta P. P.
Sashi Deshpandey's Novels: A Feminist with a difference	Chakraborty Taniya	Banerjee J.
Crisis of cultural identity in the novels of Amitav Ghosh	Chatterjee Rajarshi	Banerjee J.
The Poetry of Kamala Das: A Feminist or otherwise	Das Soma	Banerjee J.
A new perspective on financial ratio analysis as a tool of financial forecasting as well as present and future problem diagnosing, business problem solving and decision making	De Anupam	Chakraborty B. N.
Rural Entrepreneurship	De Debasis	Sengupta P. P.
Efficiency and Productivity Evaluation of Indian Life Insurance Industry in Post Reforms Era	Dutta Anirban	Sengupta P. P.
Optimization of human resource in Power Industry of West Bengal, with special reference to DVC, DPL & CESC	Ghosh Sukanya	Sengupta P. P.
Competency Mapping	Joardar Moumita	Sengupta P. P.
Risk management in financial institution	Kumar Bayya Pramod	Sengupta P. P.

Topic	Investigator	Supervisor(s)
Cost optimising in integrated steel plant	Mitra Parama	Sengupta P. P.
An exploratory study into the effect of level and function on managerial communication behaviour in a public sector-integrated steel plant	Mouli C. Chandra	Sengupta P. P.
Optimizing produce-mix in Indian Steel Industry	Nayek Sanjit K.	Sengupta P. P.
Capital adequacy norms: its effects	Pal Subrata Mohan	Sengupta P. P.
Retail Management	Ray Rajib	Sengupta P. P.
Neo-colonial undertones in Arundhati Roy and Jhumpa Lahiri	Roy Sandip Guha	Banerjee J.
Problems and prospects of Indian steel export	Samajdar Chinmoy	Sengupta P. P.
Employee Involvement & Innovation: The fundamentals of cost effective-quality based healthcare Strategy in Indian perspective	Sarkar Nilay	Sengupta P. P.
Strategic changes and turn-around in SAIL	Sengupta Subhendu	Chakraborty B. N.
Some water management issues in West Bengal	Show Pradhan	Chakraborty B. N., Roy M.
War Economics	Subhaschandra Shah Rupali	Sengupta P. P.

DEPARTMENT OF MATHEMATICS

Topic	Investigator	Supervisor(s)
Reliability modelling and Analysis of an Industrial system	Narayanan Padmavathi	Pal Anita, Rizwan S. M.
Conditional covering problems on Intersection Graphs	Rana Akul	Pal Anita, Pal M.
On some inventory problems for defective/ deteriorating items in fuzzy and fuzzy-stochastic environments	Roy Arindam	Kar Samarjit

DEPARTMENT OF MECHANICAL ENGINEERING

Topic	Investigator	Supervisor(s)
Probabilistic approach for autonomous Navigation of mobile robot in unstructured environment	Banerji Debajyoti	Basak I., Bose J. (CMERI)
Study on Fabrication, analysis and design of adhesive bonded composite joints	Barman Swapan	Mitra A. K., Sen R. (CMERI)
Improvement in performance of coal fired steam generation Technology for thermal power generation	Bhattacharya Chittatosh	Banerjee N., Sarkar H. (WBPCB)

Topic	Investigator	Supervisor(s)
An Investigation of Flow and Performance Characteristics within a Sinuous Duct	Biswas A. K.	Saha A. K., Mullick A. N., Majumder B. (JU)
Effect of surface finish, elastic deformation on oil lubricated bearings	Chakraborty Shyama Charan	Majumder M. C.
Haptics based Instrumentation for Medical Rehabilitation	Chatterjee Avik	Basak I., Majumder S. (CMERI)
Dynamics of rotor under subcritical & supercritical speed	Chattoraj Chandan	Majumder M. C., Sengupta S. N.
Dynamic maintenance strategies to achieve zero break down in Industry	Das Kajal	Majumder M. C., Suresh T. S. (DSP)
Studies on flow and performance characteristics through serpentine diffuser	Das N. K.	Halder B., Ray P., Majumder B. (JU)
Modelling and Analysis of Machine Tool Dynamics for Prediction of Stability against Chatter using Bond Graph Technique	De Jagannath	Banerjee N., Saha A. K.
Ocean wave energy, exploration of un-conventional energy from water waves	Debroy Pradip	Ghosh S.
Optimization of squeeze casting process	Gangopadhyay Susanta	De N. R., Mukherjee N. P. (CMERI)
Simulation and optimization of Railway wheel forming process using finite element method and soft computing	Gangopadhyay Tapas	Basak I., Pratihari D. K. (IIT, Khargapur)
Motion planning of deep sea remotely operated unmanned submersible through soft computing	Ghosh Sandip Kumar	Basak I.
Study on machinability aspects hard to machine materials with advance cutting tools	Gopalsamy Bala Murugan	Ghosh S., Mondal B. N. (CMERI)
Motion Dynamics of serpentine mobile robot	Maity Atanu	Ghosh S., Majumder S. (CMERI)
Study of the effects of deformation for a herringbone bearing	Majumder Sabyasachi	Majumder M. C.
Total productive maintenance, using TPR as a tool	Mathew A. G.	Majumder M. C., Ramachandran K.P. (CCE, Oman)
Study of a Software servo controlled robotic manipulator with flexible joint	Mukhopadhyay Sumit	Sengupta S. N.
Integrated approach into design, operation & empirical aspects of virtual cellular manufacturing systems	Murali R. V.	Puri A. B., Prabakaran G. (CCE, Oman)
Development of an ECDM set up and performing parametric analysis for better machining performances	Nandi Debasish	Basak I., Puri A. B.
A Comprehensive Study of the Adverse Effect on Global Circulation and Climate Due to Utilization of Solar and Wind Energy	Panja Partha Sarathi	Kundu Balaram, Pramanick Achintya Kumar

Topic	Investigator	Supervisor(s)
Theoretical studies of externally pressurised porous gas bearings	Pathak Manas Kumar	Majumder M. C.
Autonomous terrain exploration for mobile robots using behaviour based learning method	Ray Dip Narayan	Majumder S. (CMERI), Mukhopadhyay S.
Performance characteristics of Solar Air Heater having Artificial Roughness	Roy Pranab Kanti	Layek Apurba
Development and performance of wear resistant engineering material of Alumina based ceramic composites	Sampath Kumar B.	Ghosh S., Mondal B. N. (CMERI)
Development of the algorithm and the application programme for feature recognition in a 3-D CAD model	Sarkar Hemendra Nath	Majumder M. C., Mukherjee N. P. (CMERI)
Towards design of a reliable autonomous underwater vehicle (AUV)	Shome Shankar Nath	Ghosh S., Basu Jhankar (CMERI)
Non destructive testing of pipes using infrared thermography method	Vijayaraghvan G. K.	Majumder M. C., Ramachandran K. P. (CCE, Oman)
Optimization of machining fixture layout using finite element method	Vishnupriyan S.	Ramachandran K.P. (CCE, Oman) Majumder M. C.

DEPARTMENT OF METALLURGICAL & MATERIALS ENGINEERING

Topic	Investigator	Supervisor(s)
Application of Operation Research in Management Science	Bandyopadhyay Goutam	Mitra S. K., Choudhuri K.S. (J.U.)
Studies on Status, constraints and Solution of coal based sponge iron Industries in India	Chakraborty Rajib	Mitra S. K.
Study the austempering variables on the microstructure and mechanical properties of ADI alloyed with Mn and Cu	Dasgupta Ranjan	Mondal D. K.
Application of Operation Research Techniques Using Quantitative Measurement in Management For Decision Making	Dutta Abhijan	Mitra S. K., Choudhuri K.S. (J.U.)
High Temperature Corrosion Behaviour of Cr-Mo steel in SO ₂ + O ₂ atmosphere	Ghosh Debashis	Mitra S. K.
Development of Cu-Mn white cast iron	Mondal Sidhartha	Mondal D. K.
Studies on high temperature degradation of stainless steel weldments in Coke-oven gas atmosphere	Pramanik Susanta	Mitra S. K.

DEPARTMENT OF PHYSICS

Topic	Investigator	Supervisor(s)
Investigation on the mechanical properties of carbon-nano-tube based composites	Agarwalla Rajesh K.	Mitra A. K.
Study on the mechanical properties of carbon materials including carbon nanotubes	Bhattacharya Koushik	Mitra A. K.
A Study on the Transport Properties of Thin Films and Alloys	Chakraborty Goutam	Meikap A. K.
Investigation on Nonlinear Optical Materials for Frequency Conversion Applications	Chattopadhyay Manajit	Kumbhakar P.
Z' -Boson, B-Mesons and New Physics	Das Chandan Kumar (Registered in Utkal University)	Maharana L., Sahoo S.
Synthesis and Characterization of nano materials using Nd: YAG laser	Desarkar Himadri S	Mitra A. K., Kumbhakar P.
Characterisation and Electrical Transport Properties of Nanocomposite Materials	Ghatak Somenath	Meikap A. K.
The effect of the Dopant of the Electron Transport Properties in Conducting Polymers at Ambient and Cryogenic Temperatures	Ghosh Pankaj	Meikap A. K.
Optical, Magnetic and Electrical properties of conducting polymers	Gupta K.	Meikap A. K. , Jana P. C.
Synthesis and characterization of Rare earth ortho ferrite nanocomposites	Hossain Mazaffar	Basu S., Pal M. (B.U.)
Online monitoring of High-voltage equipment using optoelectronic method	Karmakar S.	Roy N. K. (EE), Kumbhakar P.
Study on the properties of functionalized carbon nanotubes	Paul Rima	Mitra A. K.
Synthesis and characterization of some nanostructured materials	Sarkar Rajat	Kumbhakar P., Mitra A. K.
Theoretical investigation on the mechanical properties of carbon nano tubes	Talukdar Keka	Mitra A. K.
Development of Dye Sensitized Nanocrystalline Solar Cells	Usha K.	Kumbhakar P., Mandal B. N.

7. BOOKS AUTHORED DURING 2008-09

Author	Title of the book	Publisher
Bhattacharya Swapan, Kanjilal Ananya and Sengupta Sabnam (CSE)	“Tools and Techniques for Model Based Testing” in “Handbook of Research on Software Engineering and Productivity Technologies: Implications of Globalisation”	Information Science Reference (Imprint of IGI Global)
Chandra Aniruddha (ECE)	Analog Electronic Circuits	Matrix Educare
Chatterjee Sanat Kumar (Physics)	Crystallography and World of Symmetry ISBN 978-3-540-69898-2	Springer-Verlag (Heidelberg, Germany)
Dutta, A., Bandyopadhyay. G., Mukherjee A., Sengupta S. and Chaudhuri K. S. (DMS)	Classification and prediction of stock performance using logistic regression: an empirical examination from Indian stock market. 2008, p. 46-62.	Advanced Research series Macmillan India Ltd,
Kanjilal Ananya, Sengupta Sabnam, Bhattacharya Swapan (CSE)	“Graph Based Analysis of Object-Oriented Systems” in “Object-Oriented Analysis and Design” (In Press)	NOVA Science Publishers
Kumbhakar Pathik (Physics)	“Padarthabidyar Shikshak” (In Bengali)	Somila Press and Publications, Kolkata, India
Mandal K. (DMS)	Trends in Indian Pharmaceutical Industry vis-à-vis the IPR regime: An analysis in Edited Volume “Accounting and Finance trends and practices 21 C” U Dutta and B Bhadra edited, p. 175-189	Dishari prakashani, Kolkata
Narayan C.M. (ChE)	Biotechnology and Bioprocess Engineering (In Press)	Galgotia Publishers, New Delhi
Roy, D., Mandal, K. (DMS), Halder, A. K., M.Gupta and Saha G.	In search of gaps in employment generation: A study in the context of new economic policy and entrepreneurial activities, Entrepreneurial Perspectives and Paradigm, 2008, p. 47-64	Advanced Research series Macmillan India Ltd,
Roy Chaudhuri Himadri (DMS)	“Rising Consumption and Its Impact”; a chapter in “If You have it, Flaunt it’: Theoretical Priorities and Practical Issues of Conspicuous Consumption in the Indian Context”	ICFAI University Press
Saha Anup Kumar (ME) Karmakar R., Bhattacharyya R.	Springer Proceedings in Physics 126 Vibration Problems, ICOVP 2007 for the portion “Lateral Dynamics of a Railway Truck on Flexible Tangent Track” Page: 339 - 345	Springer, Netherlands
Samal N.R. (CE), Jöhnk K.D., Peeters F., Bäuerle, E., Mazumdar, A.	Mixing and internal waves in a small stratified Indian Lake: Subhas Sarobar. In: Mohanty, P.K. (ed.) Monitoring and Modelling Lakes and Coastal Environments, 2008	Springer, Berlin

8. (A) REVIEW OF BOOKS DURING 2008-09**DEPARTMENT OF CHEMICAL ENGINEERING**

Reviewer	Name and author of the book	Publisher
Dutta Susmita	Introduction to Biochemical Engineering by D. G. Rao	Tata McGraw Hill
Gupta Parthapratim	Introduction to Chemical Engineering Thermodynamics by J. M. Smith, H. C. Van Ness and M. M. Abbott	Tata McGraw Hill
Narayanan C. M.	Introduction to Biochemical Engineering	Tata McGraw Hill

DEPARTMENT OF CIVIL ENGINEERING

Reviewer	Name and author of the book	Publisher
Das A.	Concrete Technology by M. L. Gambhir	Tata McGraw-Hill New Delhi
Datta A. K.	Strength of Materials	Tata McGraw Hill

DEPARTMENT OF ELECTRICAL ENGINEERING

Reviewer	Name and author of the book	Publisher
Ghosh S.	Electrical Power Distribution Systems	Tata McGraw Hill

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Reviewer	Name and author of the book	Publisher
Bhattacharjee Anup Kumar	Microwave Engineering	McGraw Hill Education India Private Ltd.
Mahanti G. K.	Microwave Engineering	Tata McGraw-Hill

DEPARTMENT OF INFORMATION TECHNOLOGY

Reviewer	Name and author of the book	Publisher
Chakraborty Baisakhi	Digital Electronics Principles and Applications	Tata McGraw Hill
Howlader Jaydeep	Introduction to Embedded Systems	McGraw Hill
Mukhopadhyay S.	Introduction to the Design and Analysis of Algorithms – A strategic approach by Lee, Tseng, Chang, Tsai	McGraw Hill

DEPARTMENT OF MANAGEMENT STUDIES

Reviewer	Name and author of the book	Publisher
Mandal Kaushik	Marketing Management:A south asian Perspective (13 th edition) by Philip Kotler, Kevin Lene Keller, Abraham Koshi & Mithileswar Jha	Dorling Kindersley india Pvt. Ltd a division of Pearson Education South Asia
Sarkar Subhadip	Supply Chain Management by B.S. Sahay	Dorling Kindersley india Pvt. Ltd a division of Pearson Education South Asia

DEPARTMENT OF MECHANICAL ENGINEERING

Reviewer	Name and author of the book	Publisher
Banerjee Nilotpal	“Measurement Systems: Application and Design”, by Doebelin, Revised 5/e.	McGraw Hill Co.
Basak Indrajit	Kinematics and Dynamics of Machinery by Norton RL, Revised 3/e	McGraw Hill Co.
Mullick Amar Nath	Strength of Material	Pearson Education, New Delhi

DEPARTMENT OF PHYSICS

Reviewer	Name and author of the book	Publisher
Meikap A. K.	Engineering Physics	McGraw-Hill Education (India) Ltd.
Meikap A. K.	Engineering Physics	McGraw-Hill Education (India) Ltd.

8. (B) REVIEWS OF MANUSCRIPTS IN JOURNALS DURING 2008-09**DEPARTMENT OF BIOTECHNOLOGY**

Reviewer	Name of the journal	Publisher
Chattopadhyay Sudip	Journal of Biological Chemistry	American Society of Chemistry
Chattopadhyay Sudip	Plant Journal	Blackwell Publishers

Reviewer	Name of the journal	Publisher
Chattopadhyay Sudip	Plant Cell	American Society of Plant Biology
Chaudhuri Surabhi	Food & Bioprocess Technology	Taylor & Francis
Chaudhuri Surabhi	Food & Bioprocess Technology	Taylor & Francis
Chaudhuri Surabhi	Food & Bioprocess Technology	Taylor & Francis
Saha Papita	Asia-Pacific Journal of Chemical Engineering	Wiley Publication
Saha Papita	Chemical Engineering Journal	Elsevier

DEPARTMENT OF CHEMICAL ENGINEERING

Reviewer	Name of the journal	Publisher
Ghanta Kartik Chandra	Chemical Product and Process Modeling	The Berkeley Electronic Press, USA
Gupta Parthapratim	International Journal of Chemical Reactor Engineering	The Berkeley Electronic Press, USA
Gupta Parthapratim	Journal of Hazardous Materials	Elsevier Science
Gupta Parthapratim	Bioresource Technology	Elsevier Science
Gupta Parthapratim	CLEAN AIR – International Journal on Energy for a Clean Environment	Begell House Inc., USA
Gupta Parthapratim	Scientia Iranica, Transactions on Chemistry and Chemical Engineering, International Journal of Science & Technology	Scientia Iranica, Sharif University of Technology , Tehran, I.R. Iran .
Mandal Tamal	Hazardous Materials	Elsevier Science
Narayan C. M.	International Journal of Chemical Technology and Biotechnology	
Narayan C. M.	Chemical Engineering Communications, USA	
Narayan C. M.	International Journal of Ecology and Natural Environment	
Sadhukhan Anup Kr.	Chemical Engineering and Processing: Process Intensification	Elsevier Science

DEPARTMENT OF CIVIL ENGINEERING

Reviewer	Name of the journal	Publisher
Das A.	Journal of Hydraulic Engineering	ASCE
Das A.	Journal of Water Resources Management	Springer

Reviewer	Name of the journal	Publisher
Das A.	Journal of Hydraulic Research	IAHR
Das A.	Journal of Hydraulic Research	IAHR
Datta A. K.	Journal of Structural Engineering	ASCE
Dwivedi Vijay Kumar	Journal of Environmental Protection Science	U.S. Environmental Protection Agency Cincinnati, Ohio, U.S.A.
Samal Nihar Ranjan	Journal of Irrigation and Drainage Engineering	ASCE

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Reviewer	Name of the journal	Publisher
Sarker Goutam	The Institution of Engineers India Computer Divn.	The Institute of Engineers (India)
Sarker Goutam	International Journal of Computers and Applications. CANADA	ACTA Press, CANADA

DEPARTMENT OF ELECTRICAL ENGINEERING

Reviewer	Name of the journal	Publisher
Banerjee Subrata	IEEE Trans. On Industrial Electronics	IEEE

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Reviewer	Name of the journal	Publisher
Chandra Aniruddha	Computers and Electrical Engineering (2 manuscripts)	Elsevier
Dhar Roy Sanjay	IET Communications (3 manuscripts)	IET, UK
Dhar Roy Sanjay	Progress in Electromagnetic Research (PIER), MIT, USA (2 manuscripts)	EMW
Kundu Sumit	IEEE Communication Letters	IEEE, USA
Mahanti Gautam Kumar	Progress in Electromagnetics Research, USA (2 manuscripts)	EMW, USA
Mandal Durbadal	Journal of Progress in Electromagnetic Research (PIER), MIT, USA (4 manuscripts)	EMW

DEPARTMENT OF GEOLOGY

Reviewer	Name of the journal	Publisher
Adhikari Kalyan	Water Environment Research	Water Environment Federation, Ingenta Connect

DEPARTMENT OF INFORMATION TECHNOLOGY

Reviewer	Name of the journal	Publisher
Choudhury Subhbrata	Communication Letters	IEEE Press

DEPARTMENT OF MATHEMATICS

Reviewer	Name of the journal	Publisher
Kar Samarjit	Mathematical and Computer Modelling	Elsevier

DEPARTMENT OF MECHANICAL ENGINEERING

Reviewer	Name of the journal	Publisher
Hui Nirmal Baran	Journal of Intelligent and Robotics Systems	Springer
Layek Apurba	International Journal of Thermal Sciences	Elsevier
Majumder Manik Chandra	Journal of Institution of Engineer (I)	Institute of Engineers (India)

DEPARTMENT OF METALLURGICAL & MATERIALS ENGINEERING

Reviewer	Name of the journal	Publisher
Ghosh Karuna Sindhu	Journal of engineering research	College of Engineering Muscat 123, Oman
Maity Joydeep	Journal of Materials Engineering and Performance	ASM International, USA

DEPARTMENT OF PHYSICS

Reviewer	Name of the journal	Publisher
Kumbhakar Pathik	Journal of Nano Research	Trans. Tech. Publications

Reviewer	Name of the journal	Publisher
Kumbhakar Pathik	Journal of Materials Science	Springer
Kumbhakar Pathik	Journal of Optics	Optical Society of India (OSI) & Springer-Verlag
Kumbhakar Pathik	Colloids and Surfaces B: Biointerfaces	Elsevier
Meikap A. K.	Journal of Applied Polymer Science	John Wiley & Sons, Inc
Meikap A. K.	Polymer Engineering and Science	John Wiley & Sons, Inc
Sahoo Sukadev	Indian Journal of Physics	IACS in Collaboration with Indian Physical Society
Sahoo Sukadev	IAPT Bulletin	Indian Association of Physics Teachers

9. COLLABORATION

CERN, Geneva:

Collaboration activities are in progress and MOU will be signed shortly. The following will be the key features of the collaboration activities:

- Greater focus on research and development
- Reforms in academic practices
- Need-based courses and curricula
- Project-based learning
- More interaction with industries
- Collaboration with leading international organizations

Two faculty members visited CERN, Geneva in September 2008. Dr Archana Sharma of CERN visited NIT, Durgapur in December 2008. During her visit the following disciplines were identified for collaborative activities; Electrical, Electronics, Instrumentation, Software & Computation, Information Technology, Accelerators, Mathematics. Four students were sponsored to take up project-based research at CERN, Geneva, during the summer of 2009.

Caledonian College Of Engineering, Muscat, Oman:

An MOU was signed on 1st April, 2008 between CCEO (Caledonian College of Engineering, Muscat, Oman) and NIT Durgapur and the areas of cooperation are: corporate training, short courses and consultancy services, seminars, workshops and conferences, staff exchange programmes, exchange of students and research and development.

Seven faculty members of NIT Durgapur visited CCEO for delivering lectures in different departments, while four faculty members from CCCEO visited NITD. Nine faculty members of CCEO registered for PhD Programme at NIT Durgapur.

NUS, Singapore:

Three pre-final year students went to NUS, Singapore for summer internship. They were financially supported by NITD and NUS.

A high-level delegation from NUS visited NITD, while a team of experts from NITD visited NUS to explore larger scopes for collaboration on research, projects, PhD supervision and faculty and students' exchange.

Durgapur Steel Plant:

An MOU was signed with DSP for collaborative projects and other joint activities. Four projects have been taken up as a part of this collaboration.

Other Collaborations:

Collaborating Institute / Organization	Areas of collaboration	Collaboration Activities
Anthropological Survey of India, Kolkata	Research on cancer biology	Joint research
Bharat Petroleum, Rajbandh, Durgapur	Petroleum sludge bioremediation	Research
Calabria University, Italy (Pal P., CHE)	Membrane Separation	Collaborative research, Paper published in Elsevier Sc.2009
Caledonian College of Engineering, Muscut, Oman (Roy N. K., EE)	High Voltage Engineering	Faculty exchange Joint research
Central Mechanical Engineering Research Institute (CMERI), Durgapur (Roy N. K., EE)	Dissolved Gas Analysis	Joint Research

Collaborating Institute / Organization	Areas of collaboration	Collaboration Activities
CMERI, Durgapur	Research work	Joint research
CMERI, Durgapur, Mahindra and Mahindra R & D centre, Nasik and BIET Suri	Compacted Graphite cast iron	Development of compacted graphite iron automotive components using foundry facility in CMERI, Durgapur, technical support from Mahindra & Mahindra Ltd. and facilities on machinability studies in BIET Suri.
Geological Survey of India, Kolkata	Research projects on subsurface sediment/groundwater microbiology	Joint research
Gothenburg University, Sweden	Light signal transduction	Joint Research
IIT Delhi, CED	Ground water pollution	Students' internship & Joint research
Indian Association for the Cultivation of Science, Kolkata.	Experiment on Nanomaterials	Joint Research
Indian Institute of Technology, Kharagpur	Combustion & pyrolysis of coal & Biomass, Sponsored projects on subsurface sediment/groundwater microbiology	Joint research
Indian Institute of Science, NRC-M, India (Kumbhakar P., Physics & Ramamurthy P.C., IISc)	Semiconductor nanomaterials-polymer nanocomposite	Joint Research
IWRM, IIT Roorkee	Water distribution pipe network research	Students' internship & Joint research
Jadavpur University, Kolkata, Dept. of Mathematics	Fixed Point Theory, I-convergence of Sequences, Cone Metric Spaces	Joint Research and exchanging views and thoughts.
Jadavpur University, SWRE	Water Resources and Water Quality Engineering	Students' internship & Joint research
Leibniz-Institute of Freshwater Ecology and Inland Fisheries, Germany	Limnological modelling	Students' internship & Joint research
National Institute of Plant Genome Research, New Delhi, India	Light and MPK signalling	Joint Research
North Dakota, State University, USA, Civil Engineering Department	Synthesis of advanced Nano-materials and its Environmental Applications	Collaborative Research
NUS & NTU, Singapore	Control of Renewable Energy, Power Electronics & Electrical Drives	Students' internship, Joint research
Regional Institute of Education (NCERT), Bhubaneswar, Orissa	Teaching & Research methodology	Joint Research, Students' internship & faculty Training Programme
The Royal Institute of Technology, Stockholm, Sweden, (Pal P., CHE)	Solar-driven Membrane Distillation	Joint research and publication, Article in Press, Elsevier Sc., 2009.

Collaborating Institute / Organization	Areas of collaboration	Collaboration Activities
Tsinghua University, Beijing, China, Uncertainty Theory Lab, Department of Mathematical Sciences	Uncertain Programming and Optimization	Collaborative Research Program with Prof. Baoding Liu and his group
TU-Hamburg-Harburg Institut für Wasserbau Denickestraße 22 21073 Hamburg (Germany)	Urban flooding & Sustainability Management	Students' internship & Joint research
Université de Bordeaux 2, France	Fruit ripening	Joint Research
University of Burdwan, Department of Environmental Science,	Research work	Collaborative Research
University of Calabria, Italy, Department of Mathematics,	Graph Theory	Knowledge exchange, Joint research
University of Calcutta and Heritage Institute of Technology, Kolkata	Enzymatic removal of heavy metals from waste water	Joint research
University of Parma, Italy, Dept. of Information Engg,	Wireless Sensor Networks	Collaborative research
University of South Australia, Australia (Roy N. K., EE)	High Voltage Engineering	Faculty exchange, Students' internship, Joint research
Utkal University, Orissa	Theoretical Calculations & Analysis	Joint Research