

MS 2008

Sl. No.	Name	Technical Supervisor/ Technical Advisor	Guide	Monitoring Committee	Courses suggested
1.	D.G.Parulekar SO[D], FRD, PP, BARC[T]	S.K. Parulkar Comp. Divn	D.A. Roy, SO[G], RCnD	Electrical - I	<ol style="list-style-type: none"> 1. Computer Networks [CS – 641] – IITB 2. Network Security [CS – 649] - IITB 3. Embedded Systems [CS – 684] - IITB 4. One Credit Seminar
Project Title		Portable dose monitoring set-up with geographical information and dose history			
2.	Jayakumar K SO[F], LWRD	R.R.S. Yadav Head, LWRD	R.K. Singh Head, CSS, RSD	Chemical - I	<ol style="list-style-type: none"> 1. Computational Fluid Dynamics and Heat Transfer [E-21] – BARCTS 2. Computational methods in thermal and fluid engineering [ME 704] - IITB 3. Advance Heat Transfer [ME-663] - IITB 4. One Credit Seminar
Project Title		Determination of Smoke Layer Height in case of a Fire in Small Enclosures			
3.	Yogesh Kumar Upreti SO[D], FES, RED	V. Shivakumar RED	P. Majumdar RSD	Mechanical - I	<ol style="list-style-type: none"> 1. Advance Heat Transfer [ME-663] - IIT B 2. Mechanics of Solids - BARCTS 3.. Two Credit Seminars
Project Title		Study of integrity of fuel bundle under asymmetric thermal loading during stratified flow under LOCA			
4.	Sunil Ganesh Kulkarni SO[E], NPD PELLETRON, TIFR [Tel: 22782291-O]		Gopal Joshi ED	Electronics - I	<ol style="list-style-type: none"> 1. Digital Signal Processing and Applications [EE-603] – IITB 2. Electronic Systems Design [EE-616] - IITB 3. Modern Control Systems Design and Simulation [E-46] – BARCTS 4. One Credit Seminar
Project Title		Development of control algorithm for linearization of complex gain of the Radio Frequency [RF] power amplifier			

MS 2008 (contd...)

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5.	Sushil Kumar Bahuguna SO/E CnID		S. Mukhopadhyay CnID	Electrical – II	1. Wavelets [EE – 678] - IITB 2. Digital Signal Processing and Applications [EE – 603] – IITB 3. Embedded Systems Design [EE – 712] - IITB 4. One Credit Seminar
Project Title		Realization of real time DSP application blocks			
6.	Ritesh Krishnaji Bagul SO[D], RED		P.K. Vijayan Head, THS, RED	Chemical Metallurgy - I	1. Advance Heat Transfer [ME-663] - IIT B 2. Computational methods in thermal and fluid engineering [ME – 704] - IITB 3. Two Credit Seminars
Project Title		Studies on stability of natural circulation at low pressures in the Integral Test Facility simulating AHWR			
7.	Jyoti Jha	R.K. Gupta, WMD	Archana Sharma APPD	Electronics – I	1. Power Electronics I [EE – 653] - IITB 2. Power Electronics II [EE – 654] - IITB 3. Two Credit Seminars
Project Title		Coil Design and Power Supply for High Frequency Induction Heating System			

Ph.D – 2008 [D1]						
Sl. No.	Name	Technical Supervisor/ Technical Advisor	Guide	Co-guide	Doctoral Committee	Courses suggested
1.	Kaushal Jha SO[E], ED&DD, NFG	K.N. Mahule Head, ED	K. Bhanumurthy MSD	G.K. Dey Head, MSD	III	1. Materials Characterization [BARCTS] 2. Welding Science & Technology [MM-680] - IITB 3. Two Credit Seminars
	Project Title	Friction Stir Welding of copper and copper base alloys and related numerical simulation studies				
2.	Gaurav Bhutani SO[D], DRHR	D. Venkatesh DRHR	T.A.Dwarakanath DRHR	Aliasgar ACTREC	I	1. Robotics - [ME-604] IITB 2. Interactive Computer Graphics for CAD/CAM – [ME-735] - IITB 3. Two Credit Seminars
	Project Title	Modeling and Kinematic Design of Frameless stereotaxy in robot assisted neurosurgery				
3.	Samiran Sengupta SO[F], RRD&PD	K. Sasidharan, HEAD, RRD&PD, RG	P.K. Vijayan, Head, THS,RED	R.K. Singh RSD	II	1. Computational Fluid Dynamics and Heat Transfer [E-21] BARCTS 2. Two Credit Seminars
	Project Title	Turbulent mixing of upward flowing hot fluid and downward flowing cold fluid inside the chimney of a pool type research reactor				
4.	Kundan Kumar SO[F], RED	R.K. Sinha Director, RD&DG	J.K.Chakravartty Head, MMS, MG	B.K. Dutta RSD	II	1. Mechanical Metallurgy [E-37] - BARCTS 2. Materials Characterization - BARCTS 3. Finite Element Method [E-27] - BARCTS 4. One Credit Seminar
	Project Title	Evaluation of Mechanical Properties of Structural Materials Using Miniature Tensile, Miniature Disc Bend Test [MDBT] and Small Punch Test Specimens.				

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5.	Arnab Dastupta SO[D], RED		P.K. Vijayan, Head, THS,RED	Prof. J.C. Mandal IITB	VI	<ol style="list-style-type: none"> 1. Computational Fluid Dynamics and Heat Transfer [E-21] BARCTS 2. Advanced Heat Transfer [ME-663] - IITB 3. Nuclear Reactor Thermal Hydraulics and Safety – [EN-634] - IITB 4. One Credit Seminar
	Project Title	CFD modeling and simulation of two-phase flows within nuclear fuel bundles				
6.	D.K. Chandraker SO[F], RED		P.K. Vijayan, Head, THS,RED	Prof. R.P. Vedula, IITB	VI	<ol style="list-style-type: none"> 1. Computational Fluid Dynamics and Heat Transfer [E-21] BARCTS 2. Two Credit Seminars
	Project Title-	Investigation on Critical Heat Flux of BWR Fuel Cluster With Emphasis on CHF under Natural Circulation				

Ph.D – 2008 [D2]						
Sl. No.	Name	Technical Supervisor/ Technical Advisor	Guide	Co-guide	Doctoral Committee	Courses suggested
1.	Raj Bhushan Bhatt SO[G], AFFF, Tarapur	J.P. Panakkal Head, AFFF, Tarapur	D.Srivastava MSD	G.K. Dey, Head, MSD	II	1. Materials Characterization BARCTS 2. Two Credit Seminars
Project Title		Studies on zirconium based clad tube welds using laser & conventional welding techniques for advanced reactor applications				
2.	Santosh Kumar SO[E], MSD	I.S. Batra LMPS, MSD	K. Bhanumurthy MSD	G.K. Dey Head, MSD and R.K. Singh, RSD	II	1. Welding science and Technology [MM-680] - IITB 2. Materials Characterization BARCTS 3. Finite Element Method [E-27] BARCTS 4. One Credit Seminar
Project Title		Laser Welding of Ferritic Martensitic Steels [FMS] : Optimization and Process Modeling				
3.	Reena Awasthi SO[D], LMPS, MSD	I.S. Batra Head, LMPS, MSD	G.K. Dey Head, MSD	D. Srivastava MSD	II	1. Engineering Physics [E-05] – BARCTS 2. Materials Characterization BARCTS 3. Computational Fluid Dynamics and Heat Transfer [E21] BARCTS 4. One Credit Seminar
Project Title		Laser Surface cladding/alloying of nickel and iron based alloys				
4.	Gargi Choudhuri SO[D], QAD	B.K. Shah Head, QAD	G.K. Dey Head, MSD	D. Srivastava MSD	II	1. Thermodynamics and Kinetics of Corrosion Processes – [CR-601] - IITB 2. Thermo-mechanical processing of metallic materials [MM-666] - IITB 3. One Credit Seminar
Project Title		Development of zirconium base alloy for nuclear reactor core components				

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5.	Arbind Kumar SO[F], QAD	B.K. Shah, Head, QAD	B.P.C. Rao Head, EMIS, NDED, IGCAR		VI	Two Credit Seminars
Project Title		Development of Predictive Tool for Material Characterization by Eddy Current Technique				
6.	Anjan Chatterjee SO[F], LMPS, MSD	I.S. Batra Head, LMPS, MSD	U.D. Kulkarni SO[H], MSD	G.K. Dey Head, MSD	VI	1. Welding science and technology [MM-680] - IITB 2. Materials characterization BARCTS 3. Computational Fluid Dynamics and Heat Transfer [E-21] - BARCTS 4. One Credit Seminar
Project Title		Studies of Hybrid Joining technique and conventional joining techniques for dissimilar materials				
7.	Arun Kumar Singh SO[E], AFD		G.K.Dey, Head, MSD		VI	1. Materials characterization BARCTS 2. Plastic Deformation and Microstructure Evolution - [MM – 681] - IITB 3. Two Credit Seminars
Project Title		Correlation of microstructure with processing parameters of Nb₃Sn superconductors				
8.	T.V. Krishna Mohan SO[F], WSCD BARCF, Kalpakkam		P.M. Satya Sai NRGP[K], Kalpakkam		VI	1. One course on Biotechnology 2. One course on Bio-reactor design 3. One CFD course 4. One Credit Seminar
Project Title		Development of Granular Biofilm and Sequencing Batch Reactors for Wastewater Treatment				

Ph.D -2008 [D3]						
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1.	J. Aparna SO[F], RED	R.K. Sinha Director, RD&DG	Kallol Roy RRMD	P.K. Vijayan, Head, THS,RED	V	1. Signal conditioning recovery and EMI aspects - BARCTS 2. Modern Control Systems Design and Simulation [E-46] - BARCTS 3. Statistical Signal Analysis [EE- 601] - IITB 4. Two Credit Seminars
	Project Title	Signal analysis and characterization of coolant oscillations and noise in natural circulation flows				
2.	Santosh SO[D], RSD		A.K. Ghosh Head, RSD	B.G.Fernandes, IITB	VII	1. Concepts in Materials Science [MM-673] – IITB 2. Two Credit Seminars
	Project Title	Development of Remaining Life Prediction Models for Instrumentation and Control [I&C] Cables for use in Reliability Assessment of NPP Systems				
3.	Ajith K.J. SO[D], SRS, RCnD	S.D. Dhodapkar RCnD	Supratik Chakraborty IIT Bombay		VII	1. Algorithms and Complexity [CS – 601] - IITB 2. Formal Specification and Verification of Programs [CS – 615] - IITB 3. Embedded Systems [CS – 684] - IITB 4. Two Credit Seminars
	Project Title	Development of techniques for verifying large state space digital systems				
4.	Kuldeep Devidas Joshi SO[E], VP&ID		Kallol Roy RRMD		VII	1. Error Correcting Codes [EE – 605] - IITB 2. Markov Chains and Queuing Systems [EE – 621] - IITB 3. Applied Linear Algebra in Electrical Engineering [EE – 635] – IITB 4. One Credit Seminar
	Project Title	Fault tolerant design topologies for Asynchronous Systems				

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5.	Rajesh Kumar SO[F], NPD	P. Singh, NPD	Girish Kumar IIT Bombay	M.S. Bhatia L&PTD	V	1. Computational Electromagnetics [EE – 725] – IITB 2. Two Credit Seminars
Project Title		Development of High power RF Components and Systems				
6.	Gigi Joseph SO[F], CD	A.G. Apte Head, Comp D	A.K.Verma IIT Bombay	Ms. Gopika Vinod, RSD	VII	1. Performance Analysis of Computer Systems and Network [CS – 681] - IITB 2. Algorithms and Complexity [CS – 601] - IITB 3. Data Mining [CS – 636] - IITB 4. One Credit Seminar
Project Title		Performance based models for implementation of Network Security for Complex Systems				
7.	Vinod M SO[D], ED	P.K. Mukhopadhyay Head, ED	P.P. Vaidya, Head, NSS,ED	Kallol Roy RRMD	V	1. Embedded Systems Design [EE – 712] – IITB 2. Electronics Systems Design [EE – 616] – IITB 3. Estimation and Identification [EE – 638] -IITB 4. One Credit Seminar
Project Title		Radiation Simulator to Test & Calibrate Nuclear Systems				
8.	Varsha Shirwalkar, SO[F], DRHR	Manjit Singh Head, DRHR	T.A.Dwarkanath, DRHR		IV	1. Nonlinear Dynamical Systems [EE – 613] – IITB 2. Multivariable Control Systems [EE – 640] - IITB 3. Kinematics and Dynamics of Machinery [ME-603] – IITB 4. One Credit Seminar
Project Title		Adaptive force control of robots				