

NATIONAL INSTITUTE OF TECHNOLOGY ROURKELA

Programme for B.Tech./ B.Arch./ M.Tech. Dual/ I.Msc./ M.Sc./ MA/ MBA/ M.Tech./ M.Tech(R)/ Ph.D.

END SEMESTER EXAMINATION (2013-2014)

09-NOV-2013

Day 1 : Date / Day of Examination : 22-NOV-2013 (Friday)

		T SESSION (8.30 AM - 11.30 AM)		SECOND SESSION (1.30 PM - 4.30 PM)			
SI.No	Subject Code	Subject Name		Subject Code	Subject Name		
1	BM403	Biomedical Engineering	1	BM317	Fundamentals of Tissue Engineering		
2	BM601	Quantitative Physiology	2	BM443	Introduction to Biotechnology		
3	BM624	Surface Engineering of Medical Implants	3	CE303	Remote Sensing and Geographical Information System		
4	BM642	Biophysics & Structural Biology	4	CE611	Advanced Structural Analysis		
5	BM643	Advanced Protien Engineering	5	CE621	Advanced Soil Mechanics		
6	BM652	Advanced Biochemical Engineering	6	CE651	Hydrologic Element and Analysis		
7	CE100	Engineering Mechanics	7	CE663	Mass Transit Systems		
8	CE130	Environment and Safety Engineering					
9	CE403	Optimization Methods in Engineering	8	CH229	Basic Chemical Engineering		
10	CE604	Finite Element Method	9	CH329	Process Plant Safety		
11	CE612	Stability of Structures	10	0	Introduction to Ceramics		
12	CE620	Ground Improvement Techniques	11	CS212	Object Oriented Programming and Web Application Using C#		
13	CE640	Analysis and Structural Design of Pavements	12	CY413	Spectroscopic Methods of Analysis		
14	CE652	Open Channel Flow	13	CY431	Chemistry of Nanomaterials		
15	CH330	Petroleum Refinery Engineering and Petrochemicals	14	CY621	Advanced Inorganic Chemistry		
16	CH439	Non-Traditional Optimization Techniques	15	CY623	Catalysis - Principles and Applications		
17	CH611	Advanced Fluid Dynamics	16	CY636	Special Topics in Physical Chemistry		
18	CH638	Advanced Reaction Engineering & Reactor	17	EC633	P. C. Based Instrumentation		
10	011000	Design Engineering a reactor	18	EC655	Transform Domain Signal Processing		
19	CR419	Biomaterials for Artificial Implants	19	EE621	Power Electronic Converters and Machine Drives		
20	CR615	Non-Oxide Ceramics	20	EE629	Digital Control		
21	CR622	Glass and Glass Ceramic for Technical Application	21		Digital Communication		
22	CR653	Manufacturing Technology of Electroceramics	22	HS317	Introduction to the Structure of Mordern English		
23	CS343	Digital Logic Design	23	HS328	Sports Psychology		
24	CS448	Artificial Intelligence & Neural Network	24	HS420	Human Resource Management.		
25	CS630	Artificial Intelligence	25	ID611	Advanced Product Design and Development		
26	CS631	Information Theory and Coding	26	LS406	Fundamentals of cell biology		
27	CS635	Biometric Security	27	LS701	Research methodology		
28	CS652	Software Architecture	28	MA311	Linear Algebra		
29	EC200	Fundamentals of Communication Systems	29	MA424	Operations Research		
30	EC340	Fundamentals of Digital Signal Processing	30	ME231	Total Quality Management		
31	EC440	Soft Computing Techniques	31	ME417	Control System Engineering		
32	EC450	Fundamentals of Digital Image Processing	32	ME610	Analysis and Synthesis of Mechanism		
33	EC616	Microwave Engineering	33	ME634	Metal Cutting and Tool Design		
34	EC623	HDL and High Level VLSI Design	34	ME651	Advanced Fluid Mechanics		

35	EE209	Network Analysis
36	EE309	Power Generation Systems
37	HS311	Communicative English.
38	HS341	Managerial Economics
39	HS428	Psychometrics
40	HS538	Urban Governance and Development
41	ID220	Fundamentals of Computer Graphics and Solid Modelig
42	MA427	Elementary Number Theory
43	MA619	Functional Analysis
44	MA627	Optimization Techniques with Applications
45	ME311	Composite Material
46	ME430	Industrial Management
47	MM652	Experimental Techniques in Materials Engineering
48	MN206	Introductory Mining Technology
49	PH321	Physics of Semiconducting Materials
50	PH351	Science of Nanomaterials
51	PH407	Quantum Mechanics - I

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	35	MM317	Materials Technology
	36	MM325	Iron Making and Steel Making
	37	MM665	Powder Technology
	38	MN338	Mineral Beneficiation
	39	MN601	Rock Excavation Engineering
	40	MN641	Mine Legilation and Safety Engineering
	41	PH311	Fundamentals of Thermal & Statistical Physics
	42	PH331	World of LASERS
	43	PH612	Advance Statistical Mechanics
	44	SM501	Organizational Behaviour and Structure
	45	SM601	Strategic Management

	FIRS	T SESSION (8.30 AM - 11.30 AM)	SECOND SESSION (1.30 PM - 4.30 PM)			
SI.No	Subject Code	Subject Name	SI.No	Subject Code	Subject Name	
1	BM331	Bioheat and Mass Transfer	1	BM201	Anatomy and Physiology	
2	BM621	Advanced Biomaterials	2	CE209	Concrete Technology	
3	BM629	Regenerative medicine and stem cell	3	CE451	Irrigation Engineering	
4	CE301	Advanced Surveying	4	CH225	Chemical Process Calculations	
5	CE313	Advanced structural analysis	5	CH415	Fluidization Engineering	
6	CE619	Composite Structures	6	CR231	Properties of Ceramic Raw Materials	
7	CE643	Highway and Airport Pavement Materials	7	CR421	Glasses for Advanced Technical Applicati	
8	CE659	Water Resources Management	8	CS243	Digital Electronics	
9	CH321	Fundamentals of Biochemical Engg.	9	CS425	Data Warehousing and Mining	
10	CH629	Interfacial Science and Engineering	10	CS623	Ad-hoc and Wireless Networks	
11	CR333	Heat Transfer and Fluid Flow	11	CY221	Chemistry of Industrial Materials	
12	CR335	Instrumental Characterization	12	CY539	Biophysical Chemistry	
13	CR663	Testing and Ceramic Characterization	13	CY615	Advanced Environmental Chemistry	
14	CS338	Systems Software	14	CY616	Nuclear Magnetic Resonance Spectrosco	
15	CY322	Basic Inorganic Chemistry-I	15	EC203	Networks	
16	CY515	Spectroscopic Methods of Analysis	16	EC421	Digital VLSI Design	
17	CY537	Advanced Solid State Chemistry	17	EE241	Network Theory	
18	EC100	Basic Electronics Engineering	18	EE611	Machine Analysis	
19	EC331	Control System Engineering	19	EE625	Systems and Control Theory	
20	EC653	Image Processing & Computer Vision	20	EE643	Microwave and Antenna Systems	
21	EE100	Basic Electrical Engineering	21	HS536	Trends and issues in Tribal Studies	
22	EE345	Communication Systems Principles	22	HS610	Research Methodology	
23	HS541	Economics of Development	23	ID221	Mechanisms and Machines	
24	ID332	Interaction Design and Usability Engineering	24	LS513	Enzymology and Metabolism	
25	LS405	Cell Biology	25	LS707	Structural basis of cell signaling	
26	MA317	Linear Algebra	26	LS720	Microbial Diversity and Extremophiles	
27	MA623	Advanced Number Theory	27	LS730	Food and Bioprocess Technology	
28	MA625	Stochastic Processes	28	MA401	Real Analysis	
29	ME353	Internal Combustion Engines	29	MA413	Analysis - II	
30	ME601	Optimization Method in Engineering Design	30	ME251	Engineering Thermodynamics	
31	ME602	Robotics	31	ME451	Power Plant Engineering	
32	ME611	Vibration Analysis and Diagnostics	32	ME600	Applied Finite Element Analysis	
33	ME621	Analytical Methods in Rotor Dynamics	33	ME615	Computer Aided Design of Machines	
34	ME632	Machine Tool Technology	34	ME640	Laser Application in Manufacturing	
35	ME637	Production System and Computer Integrated	35	MM215	Physics of Materials	
	145050	Manufacturing	36	MM442	Advanced Materials	
36	ME652	Heat Transfer-II:Convection Heat Transfer	37	MM626	Alternative Routes of Iron Making	
37	ME662	Thermal Processes in Surface Engineering	38	MN207	Mining Geology	
38	MM336	Mechanical Working of Metallic Materials	39	MN610	Mining of Deep Seated Deposits	
39	MM352	Material Characterization Techniques	40	MN643	Advanced Mineral Processing Technology	
40	MM615	Structure and Properties of Materials	41	PH601	Problems in classical Physics	
41	MM638	Mechanical Working of Materials	42	PH632	Physics of Macromolecules	
42	MN331	Solid Fuel Technology	43	PH667	Low Temperature Properties of Matter	

43	PH303	Optics
44	PH409	Introduction to Spectroscopy
45	SM509	Research Methodology
46	SM631	Employee Relations and Labour Legislations

44	SM617	Sales and Distribution Management
45	SM621	Financial Institutions, Instruments and Markets

Day 3: Date / Day of Examination: 26-NOV-2013 (Tuesday)

	FIRST SESSION (8.30 AM - 11.30 AM)				
SI.No	Subject Code	Subject Name			
1		Bioinformatics			
2		Advanced Tissue Engineering			
3		Structural Design			
4	İ	Applied Elasticity and Plasticity			
5		Earth Retaining Structures			
6	İ	Planning and Design of Airports			
7	CE657	Water Quality Modeling and Management			
8	CH311	Heat Transfer Operations			
9	CR331	Whiteware Technology			
10	CR631	Industrial Ceramic Processing			
11	CS321	Data Communication			
12	CS625	Data Mining and Data Warehousing			
13	CY101	Chemistry			
14	CY511	Stereochemistry and Reaction Mechanism			
15	EC300	Microprocessor			
16	EC615	Mobile Communication			
17	EE301	Electrical Machines II			
18	HS511	Technical and Business Communication			
19	ID311	Product Design - I			
20	LS401	Microbiology			
21	LS721	Bioethics and Intellectual Property Right			
22	MA403	Linear Algebra			
23	MA612	Linear Algebra			
24	ME351	Fluid Mechanics			
25	ME633	Modern Manufacturing Processes			
26	ME648	Quality Engineering and Reliability			
27	ME657	Computational Methods in Thermal Engineering			
28	ME675	Vibration and Machine Dynamics Laboratory			
29	ME711	Fundamentals of Tribology			
30	MM311	Phase Transformation			
31	MN311	Surface Mining Technology			
32	PH301	Waves and Oscillation			
33	PH401	Mathematical Methods in Physics			
34	SM503	Managerial Economics			

	SECOND SESSION (1.30 PM - 4.30 PM)					
SI.No	Subject Code	Subject Name				
1	BM421	Tissue engineering				
2	CE401	Estimation and Construction Management				
3	CH421	Reaction Kinetics and Catalysis				
4	CH623	·				
5	CR411	Advanced Ceramics				
6	CS412	Software Engineering				
7	CY533	Quantum Chemistry				
8	CY632	Chemistry of Nanomaterials				
9	EC433	Process Control & Instrumentation				
10	EC622	Analog & Mixed Mode VLSI				
11	EC624	Embedded Computing Systems				
12	EC654	Statistical Signal Processing				
13	EE405	Utilization of Electrical Energy and Drives				
14	EE604	Flexible AC Transmission Systems				
15	EE607	Extra High Voltage Transmission				
16	EE622	Advanced Power Electronic Converters				
17	EE633	Optimal Control				
18	EE653	Digital Image Processing				
19	HS535	Gender and Development				
20	HS612	Environment and Society				
21	ID431	Ergonomics in Design				
22	ID617	Design for Quality and Reliability				
23	LS420	Applied Bioinformatics				
24	LS704	Cancer biology				
25	LS705	Advanced microbiology				
26	LS715	Developmental biology				
27	LS726	Molecular Biophysics				
28	MA201	Mathematics - III				
29	MA207	Introduction to Numerical Analysis				
30	MA501	Abstract Algebra				
31	MA503	Theory of Rings and Fields				
32	ME411	Vibration and Noise Engineering				
33	ME608	Control system Engineering				
34	ME618	Rotor Dynamics				
35	ME647	Production Management				
36	ME654	Advanced Thermodynamics				
37	MM431	Mechanical Behaviour of Materials				
38	MM637	Mechanical Behaviour of Materials				
39	MM642	Advances in Material Science and Engineering				
40	MM659	Vacuum Technology in Materials Engineering				
41	MN431	Mine Environmental Engineering				
42	MN613	Underground Mining Systems				
43	MN642	Hydrogeology				
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44	PH507	Nuclear and Particle Physics
45	PH651	Crystal Symmetry and Crystal Physics
46	SM613	Consumer Behaviour and Marketing Research

	FIRS	T SESSION (8.30 AM - 11.30 AM)
SI.No	Subject Code	Subject Name
1	BM311	Medical Signal and Signal Processing
2	BM358	Bioreactor Analysis andDesign
3	BM625	Nanobiotechnology
4	CE331	Environment Engineering
5	CE613	Analysis and Design of Plates and Shells
6	CE614	Advanced Reinforced Concrete Design
7	CE625	Soil Exploration and Analysis of Foundations
8	CE654	Hydraulic Stuctures and Hydropower Engineering
9	CE655	Computational Fluid Dynamics
10	CH337	Equipment Design (Mech. Aspects)
11	CH626	Nano Science and Technology
12	CH631	Process Plant Simulation
13	CR327	Interface Science and Sol- Gel Processing
14	CR415	Bio-ceramics
15	CR435	Functional Materials and Devices
16	CR647	Advanced Composites
17	CS341	Microprocessors and Microcontrollers
18	CS613	Combinatorial Optimization
19	CS619	Software Engineering Requirement & Modeling
20	CY231	Basic Physical Chemistry I (5th Sem) (MA5,PH5)
21	CY312	Basic Organic Chemistry-II
22	CY531	Thermodynamics and Chemical Equilibria
23	EC311	Analog Communication Systems
24	EC312	Electromagnetic Theory
25	EC621	Digital VLSI Design
26	EE341	Embedded Systems
27	HS531	Social Institutions and Development
28	ID351	Industrial Mechatronics
29	LS440	Physical Sciences and Instrumentation
30	LS727	Advance Techniques
31	MA407	Topology
32	MA620	Analytic Number Theory
33	ME331	Metal Machining and Automation
34	MM331	Deformation Theory of Metals
35	MM611	Phase Transformation of Materials
36	MN303	Material Handling Systems
37	MN332	Remote Sensing and Its Application
38	PH101	Physics I
39	SM507	Marketing Management
40	SM635	Training and Development

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		DND SESSION (1.30 PM - 4.30 PM)			
SI.No	Subject Code	Subject Name			
1	BM441	Protein Engineering			
2	CE203	Mechanics of Solids			
3	CE423	Advanced Foundation Engineering			
4	CH223	Chemical Process Technology			
5	CH427	Colloid and Interfacial Engineering			
6	CR211	Unit Operations in Ceramic Processing			
7	CR417	Unshaped Refractories			
8	CR443	Application of Phase Diagrams			
9	CR445	Application of Phase Diagrams			
10	CR661	Technical Ceramics			
11	CS241	Analog Electronics			
12	CS421	Computer Networks			
13	CY231	Basic Physical Chemistry I (3rd Sem) (CY5)			
14	CY542	Pericyclic reactions and Photochemistry			
15	CY622	Organometallic Compounds and their Application			
16	CY634	Advanced Surface and Interface Analysis			
17	EC201	Analog Electronics			
<mark>18</mark>	EC419	Computer Communication Network			
19	EC434	Analytical Instrumentation			
20	EC630	Industrial Electronics and Instrumentation			
21	EC762	Advanced Wireless Communication			
22	EE203	Electrical Machines I			
23	EE425	Control System - II			
24	EE427	Soft Computing			
25	EE606	Transient in Power Systems			
26	EE615	Power System Dynamics			
27	EE631	Industrial Electronics			
28	EE636	System Identification and Adaptive Control			
29	EE668	Instrumentation and Sensors			
30	HS539	Theory of Money, Output and Employment			
31	HS602	English Language Teaching			
32	ID451	Industrial Automation			
33	ID655	CNC Systems and Programming			
34	LS201	Biochemistry			
35	LS512	Developmental Biology			
36	LS706	Advanced molecular biology			
37	LS725	Biophysics			
38	LS729	Biofuels			
39	MA203	Real Analysis I			
40	MA205	Calculus			
41	MA531	Boundary Layer Theory			
42	ME213	Mechanics of Solids			

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43	ME603	Applied Elasticity and Plasticity	
44	MM211	Science and Technology of Materials	
45	MM449	Nanostructured Materials	
46	MM620	Principles of Iron Making	
47	MN415	Advanced Metaliferrous Mining	
48	MN681	Special Topics in Mining Engineering - I	
49	PH551	Crystal Symmetry and Crystal Physics	
50	PH605	Experimental Techiniques	
51	SM627	Security Analysis and Portfolio Management	

	FIRST SESSION (8.30 AM - 11.30 AM)			
SI.No	Subject Code	Subject Name	SI.No	
1	BM321	Biomaterials	1	
2	BM341	Genetic Engineering	2	
3	BM611	Biomedical Signal Processing And Analysis		
4	BM627	Cryo-Tissue Engineering	3	
5	CE321	Mechanics of Soil	4	
6	CE601	Material Technology	5	
7	CE610	Structural Dynamics and Earthquake Engineering	7	
8	CE622	Stability Analysis of Slopes, Dams and Embankments	8	
9	CE623	Soil-Structure Interaction	10	
10	CE641	Transportation Systems Planning	10	
11	CE642	Traffic Engineering and Traffic Flow Theory	12	
12	CE653	Advanced Fluid Mechanics	13	
13	CH426	Coal Processing Technology	14	
14	CH615	Advanced Heat Transfer	15	
15	CH643	Environmental Management System	16	
16	CR341	Physical Ceramics	17	
17	CR620	Industrial Glass Making	18	
18	CS331	Theory of Computation	19	
19	CS614	Software Project, Process and Quality Management	20	
20	CS638	Pattern Recognition	21	
21	CY521	Principles of Inorganic Chemistry	22	
22	EC341	Digital Signal Processing	23	
23	EC611	Digital Communication	24	
24	EC620	MCS VLSI	25	
25	EE311	Transmission and Distribution of Electric Power	26	
26	HS522	Social Psychology and its Applications	27	
27	HS608	Social Change	28	
28	ID341	Manufacturing Processes	29	
29	LS402	Biochemistry	30	
30	LS581	Cancer biology	31	
31	LS711	Bioinformatics	32	
32	MA101	Mathematics - I	33	
33	MA315	Abstract Algebra	34	
34	MA405	Partial Differential Equations	35	
35	MA610	Real Analysis	36	
36	MA611	Algebra (Problem Solving Course)	37	
37	MA613	Tpopology (Problem Solving Course)		
38	ME333	Process Control and Assurance Science	39	
39	ME646	Reliability analysis and Maintenance Management	40 41	
40	ME710	Advanced Composites	42	
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		OND SESSION (1.30 PM - 4.30 PM)
SI.No	Subject Code	Subject Name
1	CE201	Civil Engineering Materials and Construction
2	CE413	Advanced Design of Reinforced Concrete Structures
3	CH211	Processing and Handling of Materials
4	CH419	Computational Fluid Dynamics
5	CR223	Materials Thermodynamics
6	CR441	Electrical and Magnetic Ceramics
7	CS211	Discrete Mathematics
8	CS434	Image Processing
9	CS636	Image Processing
10	CY525	Advanced Co-ordination Chemistry
11	CY624	Special Topics in Inorganic Chemistry
12	EC416	Microwave Engineering
13	EC431	PC based Instrumentation
14	EC631	Analytical Instrumentation
15	EE243	Analog Electronics
16	EE401	Power System Operation and Control
17	EE642	Wireless Communication
18	EE645	Adaptive Signal Processing
19	HS500	Research Methodology
20	HS524	Cognitive Development and Assessment
21	HS609	Ethics and Values
22	ID441	Computer -Aided Manufacturing
23	ID613	Elements of Design
24	LS203	Microbiology
25	LS504	Environmental Sciences and Biostatistics
26	LS702	Environmental Sciences
27	LS703	Epigenetics
28	LS710	Molecular medicine
29	LS728	Food Microbiology
30	MA515	Homotopy Theory
31	ME211	Kinematics and Dynamics of Machinery
32	ME250	Thermal Engineering
33	ME431	Decision Modeling
34	ME614	Experimental Stress Analysis
35	ME620	Nonlinear Oscillation
36	ME631	Production Technology
37	ME659	Cryogenic Process Engineering
38	ME701	Composite Materials
39	ME765	Advanced IC Engine Technology
40	MM201	Metallurgical Thermodynamics and Kinetics
41	MM427	Sponge Iron Technology
42	MM601	Metallurgical Thermodynamics and Kinetics

41	MM636	Advanced Processing of Materials	
42	MM642	Advances in Material Science and Engineering	
43	MN321	Rock Mechanics	
44	PH405	Statistical Mechanics	
45	SM505	Financial and Cost Accounting	
46	SM637	Employee Compensation and Benefits Management	

43	MM603	Metallurgical Thermodynamics and Kinetics	
44	MN201	Mine Development	
45	MN441	Mine Legislation and Safety Engineering	
46	MN623	Advance Environmental Engineering	
47	PH201	Heat and Thermodynamics	
48	PH512	Advanced Statistical Mechanics	
49	PH602	Problems in Quantum Physics	
50	PH604	H604 Fundamentals of Quantum Mechanics and Electro Dynamics	
51	SM615	Product and Brand Management	

Day 6: Date / Day of Examination: 29-NOV-2013 (Friday)

FIRST SESSION (8.30 AM - 11.30 AM)			
SI.No	Subject Code	Subject Name	
1	BM641	Immunotechnology	
2	CH315	Mass Transfer Operations	
3	CH613	Advanced Mass Transfer	
4	CR654	Sintering and Microstructure	
5	CS427	Network Security	
6	CS621	Cryptographic Foundations	
7	EC415	Mobile Communication	
8	EC651	Digital Filter Design	
9	EE417	High Voltage Engineering	
10	HS543	Global Issues in Development	
11	HS613	Developmental Cognitive Neuroscience	
12	MA630	Advanced Fluid Dynamics	
13	MM314	Heat Treatment of Metallic Materials	
14	MM321	Iron Making	
15	MM435	Fracture Mechanics and Failure Analysis	
16	MM446	Composite Materials	
17	MM646	Composite Materials	
18	MN305	Mineral Processing Technology	
19	SM511	Management Information System	

	SECOND SESSION (1.30 PM - 4.30 PM)			
SI.No	Subject Code	Subject Name		
1	CE316	Advanced Mechanics of Solids		
2	CR418	Nanomaterials		
3	CR610	Advanced Refractories		
4	CR635	Whiteware Production and Practices		
5	CR652	Applications of Phase Diagrams in Ceramic Industries		
6	CS616	Algorithm Design		
7	CY211	Name Reaction And Rearrangements		
8	CY611	Advanced Analytical Chemistry		
9	CY617	Special Topics in Organic Synthesis		
10	EC646	Adaptive Signal Processing		
11	EE637	Soft computing Techniques		
12	HS604	Advanced Developmental and Cultural Psychology		
13	HS614	Critical Approaches		
14	LS708	Advanced immunology		
15	LS731	RNA Interference		
16	ME650	Heat Transfer – I: Conduction and Radiation Heat Transfer		
17	MM606	X - Ray and Electron Microscopy		
18	MN635	Advanced Mine Ventilation		
19	PH403	Classical Mechanics		
20	PH603	Classical & Statistical Physics		
21	PH644	Polymer Physics		
22	PH664	Magnetisim Principles and Application		
23	SM623	Commercial Banking		

Asst. Registrar(Academic)

Copy to:

- 1. All Notice Boards (Institute/Halls of Residence).
- 2. All Deans/ Chief Warden.
- 3. Registrar.
- 4. Professor In-charge Examinations
- 5. All Wardens of Halls.
- 6. All HODs are requested to send the question papers in sealed packets (packets supplied by Academic Office) containing required number of question papers Hall wise (actual student strength in the hall + 05 extra) as per the Hall arrangement list latest by **18.11.2013**. On the packet containing questions the HODs/ concerned faculty members are requested to clearly state the list of requisite tables, codes, charts etc, to be supplied to the student by the academic office during the examination.

[A sample copy of the relevant material may be attached on the question packet or may be sent to the undersigned separately for official record and timely supply]

- official record and timely supply] ** All faculties are requested to mention their mobile number on the question packets for any emergency queries during the
- examination.7. Security Officer.
- 8. In-charge (Technical Service).