

## राष्ट्रीय प्रौद्योगिकी संस्थान राउरकेला NATIONAL INSTITUTE OF TECHNOLOGY, ROURKELA-769008 (ODISHA)

Ref. No. NITR/AC/EXAM./12/M/1162

Date:27-03-2012

## Revised Programme for B. Tech, Dual Degree B. Tech & M. Tech, Integrated M.Sc, M.Sc and MA End-Semester (Spring) Examination, 2011-12.

	FIRST SESSION (7.00 AM -10.00 AM)			SECOND SESSION (10.30 AM -1.30 PM)			
Date/Day	SI.	Course	Course Name	SI.	Course	Course Name	
23.04.2012	1	PH-102	Physics-II	1	BM-254	i	
(Monday)	2	CY-512	Structure & Functions of Biomolecules	2	CY-214	Basic Organic Chemistry-I (CY/MA/PH)	
	3	MA-402	Measure Theory	3		Fuels and Combustion	
	4		Numerical Technique in Physics	4	CE-202	Surveying	
	5		Immunology	5	EE-240	Meas. & Electronic Instrumentation.	
	6		Biomedical Instrumentation (BM)	6		Design of Machine Elements (ME/ID)	
	7		Industrial Microbiology (BT)	7		Casting & Solidification of Materials	
	8	CH-330	Pertoleum Refinery Engg. & Petrochemicals	8	MN-202	Mine Surveying	
	9	CE-312	Design of Steel Structures	9	CS-222	Database Management System	
	10	EE-322	Control System-I	10	EC-204	Semiconductor Devices (EI&EC)	
	11	ME-330	Metal Cutting & Tool Design	11	CR-230	Science of Ceramic Materials	
	12	MM-314	Heat Treatment of Metallic Materials	12	BM-326	Surface Engineering of biomaterials (BM)	
	13	MN-322	Geomechanics	13	CH-422	Simulation Mod. & Opt. of Chem. Process	
	14	CS-312	System Analysis Design	14		Prestressed Concrete	
	15		Electronic Instrumentation (EI/EC)	15	EE-406	High Voltage DC Transmission	
	16		Refractory Technology	16	ME-414	Mechatronics	
	17		Research Methodolopgy	17		Fracture Mechanics & Failure Analysis	
	18		Statistical Method (CY/MA/PH)	18		Mine Planning	
				19	CS-412		
				20	EC-430	Industrial Electronics & Instrumentation(EI)	
				21	EC-442	A.T.D.S.P. (EC)	
				22	CR-424		
				23		Super Fluidity & Super Conductivity	
				24	CY-514		
				25		Functional Analysis	
				26		Immunology (BT)	
				27		Enzymology & Metabolism	
				28	ПО-044	Environment and Development	
24.04.2012	1		Engineering Mechanics	1	BM-232	,	
(Tuesday)	2	CE-130	Env. & Safety Engg.	2	CH-212	1 , , ,	
	3	CY-522	Chemistry of Transition & Non-transition	3	CE-212	Structural Analysis	
	4	PH-408	Quantum Mechanics-II	4	EE-204		
	5		Functions of Complex Variable	5	ME-230	•	
	6		Molecular Biology & Biotechnologyy	6	MM-220		
	7		Poverty, Inequality & Human Dev.	7	MN-204	· ·	
	8		Brongs Dynamics & Control (CH)	8	CS-242	, ,	
	9 10		Process Dynamics & Control (CH) Process Dynamics & Control (BT)	9	EC-202 CR-212	` '	
	11		Geo-Technical Engineering	11	CY-234	•	
	12		Switch Gear & Protective Devices	12	MA-224		
	13		Heat Transfer	13	PH-204	I	
	14		Steel Making	14	ID-222	Geometric and Solid Modelling	
	15		Underground Mining Technology	15		Structural Biology (BM/BT)	
	16		Digital Signal Processing	16		Project Engineering	
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Date/Day		FIRST	Γ SESSION (7.00 AM -10.00 AM)		SECON	ID SESSION (10.30 AM -1.30 PM)
Date/Day	SI.	Course	Course Name	SI.	Course	Course Name
	17	EC-334	Instrumentation Devices (EI)	17	CE-452	Water Resources Engineering
	18	EC-314	Digital Communication (EC)	18	EE-404	Renewable Energy System
	19	CR-322	Glass Technology	19	ME-434	Computer Graphics for CAD /CAM
	20	CY-313	Natural Products	20	MM-446	Composite Materials
	21	MA-324	Number Theory	21	MN-435	Eco-friendly Mining
	22	PH-204	Introduction to Mechanics	22	CS-435	Artificial Intelegence
				23	EC-424	Embedded Computing System (EI/EC)
				24	CR-426	Tribology of Materials
				25	CY-526	Bioinorganic Chemistry
				26	PH-554	Physics of Thin Film Technology
				27	MA-554	Graph Theory
				28	LS-581	Cancer Biology
				29	LS-530	Aquatic Biology & Marine Biotechnology
				30	LS-531	Epigenetics
				31	LS-532	Molecular Medicine
				32	LS-582	Molecular Biophysics
				33	HS-534	Natural Resource Management and Sustainable
						Development
25.04.2012	1	MA-102	Mathematics-II	1	MA-202	Mathematics-IV (All Branches)
(Wednesday)	2	CY-532	Chemical Kinetics & Photochemistry	2	BM-658	Computational Fluid Dynamics in Bio Engg.
			·			(BM) Special Topics in Biotechnology and Medical
	3	PH-406	Condensed Matter Physics	3	BM-391	Engineering-I(BT)
	4	MA-524	Statistical Methods	4	CH-428	Disaster Management in Chemical Industries
	5		Biostatistics	5	CE-421	Ground Improvement Techniques
	6		Planning & Policy Issues in India	6	EE-454	Digital Communication
	7	BM-322	Biomechanics (BM)	7	ME-440	Industrial Management
	8	CH-336	Chemical Engineering Mathematics	8	MM-468	Joining of Materials
	9	CE-342	Transportation Engg.	9	MN-442	Mine Fires & Spontaneous Heating
	10	MM-352	Material Characterization Technique	10	CS-434	Image Processing
	11	MN-332	Remote Sensing & its Applications.	11	EC-436	Biomedical Instrumentation (EI)
	12	CS-332	Algorithms Analysis and Design	12	EC-412	Antenna Analysis & System
	13		Electromagnetic Theory (EI/EC)	13	CY-558	Organometallic Chemistry
	14		Nano Ceramics	14		Atomic & Molecular Physics
	15		Basic Inorganic Chemistry-II	15	MA-556	Number Theory
	16		Basic Inorganic Chemistry-I(MA/PH)	16	CR-446	Thin Film and Coating
			T	1 10		-
26.04.2012 (Thursday)	1	EE-101	Basic Electrical Technology	1	BM-202	Basic Clinical Science (BM)
(maroudy)	2	EC-100	Basic Electronics	2	CH-220	Chemical Engg. Thermodynamics. (BT/CH)
	3	MA-522	Operation Research (MA & CR)	3	CE-252	Fluid Mechanics
	4	PH-404	Electrodynamics	4	EE-242	Digital Electronics & Microprocessor
	5	CY-535	Electro Chemistry	5	EE-202	Electrical Engineering (ME/EI/EC)
	6	LS-423	Advanced Techniques	6	MM-227	Fuel Technology
	7	HS-533	Social, Anthropological Political Perspective in Development	7	MN-205	Mineral Exploration
	8	BM-368	Bio Informatics (BT)	8	CS-335	Computer Graphics & Multimedia
	9	CH-312	Transport Phenomena	9	ID-232	Engg Materials & Heat Treatment Process
	10	CE314	Structural Dynamics	10	CR-244	Introduction to Engg. Materials
	11	CE-318	Finite Element Method	11	CR-248	Fuels, Furnance and Stoichiometry
	12	EE-336	Advanced Instrumentation	12	PH-202	·
	13		Digital Signal Processing	13	EC-443	
	14		Refrigeration & Air Conditioning	14	CR-641	Nanomaterials
	15		Engg. Polymers & its Applications	15	CH-426	Coal Processing Technology
	16		Mine Ventilation	16	CY-519	Methods in Organic Synthesis
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Date & Day		FIRS	Γ SESSION (7.00 AM -10.00 AM)		SECON	ID SESSION (10.30 AM -1.30 PM)
Date & Day	SI.	Course	Course Name	SI.	Course	Course Name
	17	CS-336	Systems Software	17	EE-408	Electromagnetic Field Theory
	18	EC-322	Embedded System (EI/EC)	18	BM-632	Artificial organ and Rehabilitative Engineering (BM)
	19	CR-336	Cement Technology			
	20	PH-302	Properties of Matter (MA/CY/PH)			
27.04.2012	1	CE-302	Disaster Management	1	EC-440	Soft Computing Techniques
(Friday)	2	CH-228	Treatment of Industrial Effluents	2	EE-308	Utilization of Electrical Energy
	3	CH-338	Industrial Instrumentation and Process Control	3	EE-428	Electrical Drives
	4	CR-249	Material Science & Engineering	4	HS-311	Communicative English
	5	CS-343	Digital Logic Design	5	HS-321	Organisational Behaviour
	6	CY-232	Chemical Kinetic	6	HS-327	Cognitive Science
	7	MA-424	Operations Research	7	HS-418	Language and Writing
	8	MM-318	Principles and Practice of Heat Treatment	8	ID-230	Production Management
	9	MM-358	Experimental Techniques in Materials Engineering	9	MA-312	Real Analysis
	10	PH-462	Vaccum Science & Applications	10	ME-300	Finite Element Analysis
				11	ME-430	Industrial Management
				12	ME-436	Entrepreneurship
				13	CH-418	Recent Separation Technologies
				14	CR-339	Ceramics in Electronic Applications
				15	CY-431	Chemistry of Nanomaterials
				16	MM-448	Advanced Engineering Materials
				17	PH-312	Physics of Quantum World
				18	SM-502	Human Resource Management
				19	SM-602	Busines Ethics and Corporate Governance
30.04.2012	1	MN-304	Computer Application in Mining	1	CS-102	Data Structure & Algorithm
(Monday)	2		Soft Computing (EC)	2	BM351	Genetic Engineering (BM)
	3		Science of Sintering	3	CS-333	Operating Systems
	4	CS-334	Operating System & Design	4	CS-326	Data Communication and Computer Networks
	5	MN-421	Rock Slope Technology	5	CH332	Process Equipment Design
	6	EC-439	Advanced Process Control (EI)	6	MN336	Solid Fuels and Clean Coal Technology
	7	EE-324	Power Electronics			
	8	ME-352	Fluid Dynamics & Hydraulics Machines			
	9	HS-523	Educational Psychology			
	10	HS-538	Urban Govranance and Development			
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Sd/-

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 16.04.2012. 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.
- 7 Security Officer.
- 8 In-charge Technical Service.