



PROGRAMME OF THE B.E. (SEM.-VII) (OLD) (ALL BRANCHES) EXAMINATIONS

Candidates for the above examinations are requested to be present at the place of examination mentioned on their hall ticket; the candidates shall be present fifteen minutes before the commencement of the examinations and will not be allowed after the half an hour of the commencement of the examinations. The candidates are required to carry the hall ticket and their college/institute/department Identity Card

THEY ARE FORBIDDEN TO CARRY MOBILE PHONE, ANY BOOKS, NOTES OR PAPER ETC. IN THE EXAMINATION HALL.

Seat numbers and places of examination will be announced on the college notice boards four days prior to the date of commencement of the examination. **Smoking is strictly prohibited in the examination hall.**

The branch wise written examinations of **B.E. (SEM.- VII) (OLD) (All Branches)** will be conducted as per the following schedule: -

TIME: 11.00 AM to 2:00 PM						
DAY DATE	WEDNESDAY 16 TH MAY, 2012	MONDAY 21 ST MAY, 2012	FRIDAY 25 TH MAY, 2012	WEDNESDAY 30 TH MAY, 2012	MONDAY 4 TH JUNE, 2012	WEDNESDAY 6 TH JUNE, 2012
CIVIL	ENVIRONMENTAL ENGINEERING - II	IRRIGATION ENGINEERING	THEORY OF REINFORCED & PRESTRESSED CONCRETE	CONSTRUCTION ENGINEERING	ELECTIVE : I : ADVANCED STRUCTURAL ANALYSIS : TRAFFIC PLANNING & DESIGN : AIR POLLUTION : APPLIED HYDROLOGY AND FLOOD CONTROL : VALUE ENGINEERING : SOLID WASTE MANAGEMENT : ADVANCED FOUNDATION ENGINEERING : ADVANCED STRUCTURAL MECHANICS : ADVANCED ENGINEERING GEOLOGY : ADVANCED SURVEYING : ADVANCED CONSTRUCTION ENGINEERING : MANAGEMENT DECISION MAKING : STRUCTURAL DYNAMICS : GROUND WATER HYDROLOGY : PRESTRESS CONCRETE	
MECHANICAL	CAD / CAM & FINITE ELEMENT ANALYSIS (11:00 am to 3:00 pm)	E-COMMERCE AND INDUSTRIAL FINANCING	MANUFACTURING PLANNING & CONTROL	ELECTIVE-I : GROUP - I : INDUSTRIAL ROBOTICS : GROUP - II : CONCURRENT DESIGN OF PRODUCTS & PROCESSES : GROUP - III : AUTOMOBILE ENGINEERING-I : GROUP - IV : CRYOGENIC ENGINEERING : GROUP - V : BUSINESS PROCESS & REENGINEERING : GROUP - VI : COMPUTER INTEGRATED MANUFACTURING : GROUP - VII : ADVANCED FEA : GROUP - VIII : NON DESTRUCTIVE TESTING : GROUP - IX : ENTERPRISE NETWORKING AND INTERNET	DESIGN OF MACHINE ELEMENTS - II (11:00 am to 3:00 pm)	
ELECTRICAL	PROTECTION & SWITCHGEAR ENGINEERING	COMPUTER AIDED POWER SYSTEMS ANALYSIS	CONTROL SYSTEMS - II	COMMUNICATION ENGINEERING - II	ELECTIVE - I : HIGH VOLTAGE ENGINEERING : HVDC TRANSMISSION : ELECTRICAL TRACTION : ANALYSIS & DESIGN OF SWITCHED MODE CONVERTERS : OBJECT ORIENTED ANALYSIS & DESIGN	
ELECTRONICS	FILTER THEORY AND APPLICATIONS	INSTRUMENTATION SYSTEMS	BASICS OF VLSI	DIGITAL COMMUNICATION	ELECTIVE - I : IMAGE PROCESSING : PROCESS CONTROL & INSTRUMENTATION : MICROCOMPUTER SYSTEM DESIGN : DSP ARCHITECTURES AND SYSTEMS : WIRELESS COMMUNICATION	
COMPUTER	DIGITAL SIGNAL PROCESSING	SOFTWARE ENGINEERING	INTELLIGENT SYSTEMS	ADVANCED MICROPROCESSORS	ELECTIVE - I : MOBILE COMPUTING : COMPUTER SIMULATION AND MODELING : IMAGE PROCESSING : PATTERN RECOGNITION	

					: EMBEDDED SYSTEMS	
					: ADVANCED COMPUTER NETWORKS	
INSTRUMENTATION	DIGITAL SIGNAL PROCESSING	PROJECT PLANNING & ENGINEERING	ADVANCE CONTROL SYSTEMS	INDUSTRIAL PROCESS CONTROL	ELECTIVE - I : ADVANCED INSTRUMENTATION	
					: OPTIMIZATION TECHNIQUES	
					: POWER ELECTRONICS & DRIVES	
					: OPTIMAL CONTROL SYSTEM	
CONSTRUCTION	CONSTRUCTION PROJECT MANAGEMENT - I	IRRIGATION ENGINEERING	THEORY OF CONCRETE STRUCTURES	ADMINISTRATION OF CONSTRUCTION CONTRACTS	ELECTIVE - I : ADVANCED ENGINEERING GEOLOGY	
					: ADVANCED SURVEYING	
					: MANAGEMENT DECISION MAKING	
					: VALUE ENGINEERING	
AUTOMOBILE	CAD/CAM & FEA (11:00 am to 3:00 pm)	E-COMMERCE AND INDUSTRIAL FINANCING	ADVANCE DESIGN OF MACHINE ELEMENTS (11:00 am to 3:00 pm)	ELECTIVE - I : INDUSTRIAL ROBOTICS		
				: AUTOMOBILE POLLUTION		
				: BUSINESS PROCESS REENGINEERING		
				: CONCURRENT DESIGN OF PRODUCTS & PROCESSES		
				ADVANCED FINITE ELEMENT ANALYSIS		
				COMPUTER INTEGRATED MANUFACTURING		
ELECTRONICS & TELECOMMUNICATION	DISCRETE TIME SIGNAL PROCESSING	MOBILE COMMUNICATION SYSTEM	MICROWAVE DEVICES & CIRCUITS	DIGITAL COMMUNICATION	ELECTIVE - I : IMAGE PROCESSING	
					: DATA COMPRESSION AND ENCRYPTION	
					: RADAR ENGINEERING	
					: MICROWAVE INTEGRATED CIRCUITS	
					: SIMULATION OF COMMUNICATION SYSTEMS.	
CHEMICAL	CHEMICAL PROCESS - II	PROCESS ENGINEERING	INSTRUMENTATION & PROCESS CONTROL	CHEMICAL REACTION ENGINEERING	ELECTIVE - I : BIOCHEMICAL ENGINEERING	ENTERPRENEURSHIP & MANAGEMENT (11:00 am to 1:00 pm)
					: FOOD PROCESS ENGINEERING	
					: POLYMER ENGINEERING	
					: PETROCHEMICAL & REFINING TECHNOLOGY	
INFORMATION TECHNOLOGY	MANAGEMENT INFORMATION SYSTEMS	MOBILE COMPUTING	COMPUTER SIMULATION AND MODELLING	ELECTIVE - I : PROGRAMMING WITH COMPONENTS	IMAGE PROCESSING	
				: SPEECH RECOGNITION		
				: ADVANCED DATABASE SYSTEMS		
				: PATTERN RECOGNITION		
				: EMBEDDED SYSTEMS		
				: ADVANCED COMPUTER NETWORKS		
MARINE	MECHANICS OF FLUIDS - II	MARINE I.C. ENGINE - II	NAVAL ARCHITECTURE AND SHIP CONSTRUCTION - II	MARINE FIRE PREVENTION & CONTROL	MANAGEMENT SCIENCE & SHIPBOARD OPERATION	MARINE STEAM ENGG.
BIOTECHNOLOGY	IPR BIOETHICS AND BIOSAFETY	ENVIRONMENTAL BIOTECHNOLOGY-I	BIOSEPARATION AND DOWNSTREAM TECHNOLOGY	PROCESS DYNAMICS AND CONTROL	ELECTIVE - I : BIOMEDICAL ENGINEERING	
					: NON-CONVENTIONAL SOURCES OF ENERGY	
					: PROTEIN ENGINEERING	
PRINTING & PACKAGING TECHNOLOGY	PRODUCT PACKAGING-II	PRINTING TECHNOLOGIES-II	ENVIRONMENTAL SCIENCES & WASTE MANAGEMENT	PACKAGING & PRINTING MACHINERY & SYSTEMS	ELECTIVE-I : SELF ADHESIVE & NARROW WEB TECHNOLOGY-I	
					: FOOD PACKAGING SCIENCE & TECHNOLOGY-I	
					: INDUSTRIAL PRODUCTS PACKAGING-I	

Candidates are permitted to use the scientific but not programmable calculator at the examination.

Candidates for the examination are expected to provide themselves with slide-rules, charts and drawing instruments if required.

The exchange or loan of slide rules, charts, drawing instruments or any other materials used in the examination is not permitted while the examination is in progress.

Candidates must bring their own instruments and will not be allowed to borrow from each other under any circumstances.

Mumbai – 400 098.

DATE: 9TH APRIL., 2012

Dr. S.M. SURYAWANSHI
I/C CONTROLLER OF EXAMINATIONS

University of Mumbai



(502 to 515)
FIRST HALF - 2012

PROGRAMME OF THE B.E. (SEM.-VII) (ALL BRANCHES) EXAMINATIONS

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TIME: 11:00 AM to 2:00 PM					
DAY DATE	WEDNESDAY 16 TH MAY, 2012	MONDAY 21 ST MAY, 2012	FRIDAY 25 TH MAY, 2012	WEDNESDAY 30 TH MAY, 2012	MONDAY 4 TH JUNE, 2012
CIVIL	ENVIRONMENTAL ENGINEERING - II	IRRIGATION ENGINEERING	LIMIT STATE METHOD FOR REINFORCED CONCRETE STRUCTURES	QUANTITY SURVEY ESTIMATION AND VALUATION (11:00 am to 3:00 pm)	ELECTIVE -I ADVANCED SURVEYING ADVANCED ENGINEERING GEOLOGY APPLIED HYDROLOGY AND FLOOD CONTROL SOLID WASTE MANAGEMENT SYSTEMS APPROACH IN CIVIL ENGINEERING RISK AND VALUE MANAGEMENT ADVANCED STRUCTURAL ANALYSIS STRUCTURAL DYNAMICS ADVANCED STRUCTURAL MECHANICS ADVANCED FOUNDATION ENGINEERING GROUND WATER HYDROLOGY PAVEMENT SUBGRADE & MATERIALS AIR POLLUTION PRESTRESSED CONCRETE TRAFFIC ENGINEERING AND CONTROL REINFORCED CONCRETE REPAIRS AND MAINTENANCE ADVANCED COMPUTATIONAL TECHNIQUES
MECHANICAL	CAD / CAM / CIM (11:00 AM TO 3:00 PM)	REFRIGERATION AND AIR CONDITIONING	MANUFACTURING PLANNING & CONTROL	ELECTIVE - I SUPPLY CHAIN MANAGEMENT CRYOGENIC ENGINEERING NUCLEAR TECHNOLOGY -I MICRO ELECTRO MECHANICAL SYSTEMS(MEMS) POWER PLANT ENGINEERING OPERATIONS RESEARCH INFORMATION TECHNOLOGY FOR MANAGEMENT OF ENTERPRISES VIRTUAL REALITY COMPUTATIONAL FLUID DYNAMICS INDUSTRIAL ROBOTICS PIPING ENGINEERING DYNAMIC SYSTEM MODELLING & ANALYSIS	MACHINE DESIGN - II (11:00 AM TO 3:00 PM)

ELECTRICAL	ELECTRICAL MACHINE DESIGN	POWER SYSTEM OPERATION AND CONTROL	CONTROL SYSTEMS - II	HIGH VOLTAGE DC TRANSMISSION	ELECTIVE - I
					HIGH VOLTAGE ENGINEERING
					ANALYSIS AND DESIGN OF SWITCHED MODE CONVERTERS
					POWER SYSTEM DYNAMICS AND STABILITY
ELECTRONICS	FILTER DESIGN	POWER ELECTRONIC AND DRIVES	VLSI DESIGN	COMMUNICATION NETWORKS	ILLUMINATION ENGINEERING
					ELECTIVE - II
					WIRELESS COMMUNICATION
					ADVANCE IN BIOMEDICAL INSTRUMENTATION
COMPUTER	DIGITAL SIGNAL & IMAGE PROCESSING	ROBOTICS AND AI	MOBILE COMPUTING	SYSTEM SECURITY	MICRO COMPUTER SYSTEM DESIGN
					DIGITAL IMAGE PROCESSING DESIGN
					ELECTIVE -I
					COMPUTER SIMULATION AND MODELING
INSTRUMENTATION	BIOMEDICAL INSTRUMENTATION	PROCESS AUTOMATION	ADVANCE CONTROL SYSTEMS	INDUSTRIAL PROCESS CONTROL	E-COMMERCE
					PROJECT MANAGEMENT
					SOFT COMPUTING
					ELECTIVE-I
CONSTRUCTION	CONSTRUCTION MANAGEMENT - I	IRRIGATION ENGINEERING	LIMIT STATE METHOD FOR REINFORCED CONCRETE STRUCTURES	QUANTITY SURVEY ESTIMATION VALUATION (11:00 AM TO 3:00 PM)	ADVANCED EMBEDDED SYSTEMS
					FIBER OPTIC INSTRUMENTATION
					PROCESS MODELING AND OPTIMIZATION
					IMAGE PROCESSING
AUTOMOBILE	CAD / CAM / CIM (11:00 AM TO 3:00 PM)	AUTOTRONICS	ADVANCE DESIGN OF MACHINE ELEMENTS (11:00 AM TO 3:00 PM)	ELECTIVE-I	EXPERT SYSTEMS
					ADVANCED SURVEYING
					SYSTEM APPROACH IN CIVIL ENGINEERING
					RISK AND VALUE MANAGEMENT
AUTOMOBILE	CAD / CAM / CIM (11:00 AM TO 3:00 PM)	AUTOTRONICS	ADVANCE DESIGN OF MACHINE ELEMENTS (11:00 AM TO 3:00 PM)	ELECTIVE-I	ADVANCED ENGINEERING GEOLOGY
					LEGAL ASPECTS IN CONSTRUCTION
					SAFETY MANAGEMENT IN CONSTRUCTION
					REINFORCED CONCRETE REPAIRS AND MAINTENANCE
					PRODUCTIVITY IN CONSTRUCTION
					TRANSPORT MANAGEMENT & MOTOR INDUSTRY
					NOISE VIBRATION AND HARSHNESS
					SUPPLY CHAIN MANAGEMENT
					POWER PLANT ENGINEERING
					MICRO ELECTRO MECHANICAL SYSTEMS(MEMS)
					OPERATIONS RESEARCH
					INFORMATION TECHNOLOGY FOR MANAGEMENT OF ENTERPRISES
VIRTUAL REALITY					
COMPUTATIONAL FLUID DYNAMICS					
INDUSTRIAL ROBOTICS					
PIPING ENGINEERING					
DYNAMIC SYSTEM MODELLING & ANALYSIS					

ELECTRONICS & TELECOMMUNICATION	DISCRETE TIME SIGNAL PROCESSING	MOBILE COMMUNICATION SYSTEMS	FUNDAMENTALS OF MICROWAVE ENGINEERING	COMPUTER COMMUNICATION NETWORK	ELECTIVE-I	
					DATA COMPRESSION AND ENCRYPTION	
					INTRODUCTION TO VLSI DESIGN	
					SPEECH PROCESSING	
CHEMICAL	CHEMICAL PROCESS - II	PROCESS ENGINEERING	INSTRUMENTATION & PROCESS CONTROL	REACTION KINETICS	ELECTIVE-II	
					BIO-TECHNOLOGY	
					POLYMER ENGINEERING	
					FOOD PROCESS ENGINEERING	
					PETROCHEMICAL & REFINING TECHNOLOGY	
					NUCLEAR ENGINEERING	
INFORMATION TECHNOLOGY	DATA WAREHOUSING MINING & BUSINESS INTELLIGENCE	SOFTWARE TESTING & QUALITY ASSURANCE	SIMULATION AND MODELLING	ELECTIVE - I	DIGITAL SIGNAL & IMAGE PROCESSING	
						WIRELESS NETWORK
						MULTIMEDIA SYSTEMS
						EVOLUTIONARY ALGORITHMS
						IT IN CONSTRUCTION
						NANOTECHNOLOGY
						GEOGRAPHICAL INFORMATION SYSTEMS
ARTIFICIAL INTELLIGENCE						
BIOMEDICAL	MEDICAL IMAGE-II	BIOMEDICAL INSTRUMENTATION-III	PRINCIPLES OF IMAGING PROCESSING	NETWORKING AND INFORMATION SYSTEM IN MEDICINE	-----	
BIOTECHNOLOGY	IPR BIOETHICS AND BIOSAFETY	ENVIRONMENTAL BIOTECHNOLOGY-I	BIOSEPARATION AND DOWNSTREAM TECHNOLOGY	PROCESS DYNAMICS AND CONTROL	ELECTIVE - I : BIOMEDICAL ENGINEERING	
					: NON-CONVENTIONAL SOURCES OF ENERGY	
					: PROTEIN ENGINEERING	
PRINTING & PACKAGING TECHNOLOGY	PRODUCT PACKAGING-II	PRINTING TECHNOLOGIES-II	ENVIRONMENTAL SCIENCES & WASTE MANAGEMENT	PACKAGING & PRINTING MACHINERY & SYSTEMS	ELECTIVE-I : SELF ADHESIVE & NARROW WEB TECHNOLOGY-I	
					: FOOD PACKAGING SCIENCE & TECHNOLOGY-I	
					: INDUSTRIAL PRODUCTS PACKAGING-I	

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Mumbai – 400 098.

Date: 29TH FEBRUARY, 2012.

DR. S.M. SURYAWANSHI
I/C. CONTROLLER OF EXAMINATIONS



PROGRAMME OF THE B.E. (SEM.-VIII) (REV.) (ALL BRANCHES) EXAMINATIONS

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The branch wise written examinations of **B.E. (SEM.- VIII) (REV) (All Branches)** will be conducted as per the following schedule: -

TIME 11:00 AM TO 2:00 PM						
DAY DATE	TUESDAY 15 TH MAY, 2012	SATURDAY 19 TH MAY, 2012	THURSDAY 24 TH MAY, 2012	TUESDAY 29 TH MAY, 2012	SATURDAY 2 ND JUNE, 2012	THURSDAY 7 TH JUNE, 2012
CIVIL	CONSTRUCTION MANAGEMENT	CONSTRUCTION ENGINEERING	ELECTIVE: DESIGN OF HYDRAULIC STRUCTURES.	DESIGN AND DRAWING OF REINFORCED CONCRETE STRUCTURES. (11.00 AM to 3.00 PM)	-----	-----
			: GEOGRAPHICAL INFORMATION SYSTEMS.			
			: SOIL DYNAMICS.			
			: BRIDGE DESIGN & ENGINEERING.			
			: ROCK MECHANICS.			
			: ENVIRONMENTAL IMPACT ASSESSMENT AND AUDIT.			
			: INDUSTRIAL WASTE TREATMENT.			
			: APPRAISAL AND IMPLEMENTATION OF INFRASTRUCTURE PROJECTS.			
			: DISASTER MANAGEMENT.			
			: ADVANCED DESIGN OF STEEL STRUCTURES			
			: WATER RESOURCE ENGINEERING & MANAGEMENT.			
			: EARTHQUAKE ENGINEERING.			
			: BUILDING SERVICES.			
			: PAVEMENT DESIGN AND CONSTRUCTION.			
: ADVANCED CONSTRUCTION ENGINEERING						
: ADVANCED REPAIRS & REHABILITATION OF STRUCTURE						
: TRANSPORTATION PLANNING & ECONOMICS						
MECHANICAL	FINITE ELEMENT ANALYSIS (11.00 AM to 3.00 PM)	ELECTIVE: II : ARTIFICIAL AND MACHINE INTELLIGENCE.	AUTOMOBILE ENGINEERING (11.00 AM to 3.00 PM)	INDUSTRIAL ENGINEERING & ENTERPRISE RESOURCE PLANNING.		-----
		: BUSINESS PROCESS RE-ENGINEERING				
		: ADVANCED REFRIGERATION AND AIR CONDITIONING				
		: NON CONVENTIONAL ENERGY SOURCES.				
		: NUCLEAR TECHNOLOGY-II				
		: INTRODUCTION TO NANO TECHNOLOGY				
		: PROJECT MANAGEMENT				
		: PRODUCT LIFE CYCLE MANAGEMENT				
		: ADVANCED TURBO MACHINERY				
		: PROCESS EQUIPMENT DESIGN				
		: MECHANICAL SYSTEM DESIGN				

ELECTRICAL	DESIGN MANAGEMENT & AUDITING OF ELECTRICAL SYSTEMS.	DRIVES & CONTROL	ELECTIVE: II. : POWER QUALITY	POWER, SYSTEM, PLANNING & RELIABILITY.	-----	-----
			: ELECTRIC TRACTION			
			: FLEXIBLE AC TRANSMISSION SYSTEM			
			: DIGITAL SIGNAL PROCESSOR APPLICATION IN POWER SYSTEM			
PRODUCTION	TOTAL QUALITY STRATEGY	AUTOMATION AND CONTROL ENGINEERING. (11.00 AM to 3.00 PM)	INDUSTRIAL RELATIONS & HUMAN RESOURCE MANAGEMENT	COMPUTER AIDED MANUFACTURING	ENGINEERING ECONOMICS, FINANCE, ACCOUNTING AND COSTING.	ELECTIVE: II : INDUSTRIAL ROBOTICS
						: PLASTICS ENGINEERING.
						:MECHATRONICS
						: PRODUCTION DESIGN
						: SALES AND MARKETING MANAGEMENT.
	:SUPPLY CHANGE MANAGEMENT.					
ELECTRONICS	ADVANCE VLSI DESIGN	ROBOTICS & AUTOMATION	ELECTIVE: II. : ADVANCED NETWORKING TECHNOLOGIES	EMBEDDED SYSTEMS AND REAL TIME PROGRAMMING	-----	-----
			: DSP PROCESSORS AND ARCHITECTURES			
			: NEURAL NETWORKS & FUZZY SYSTEMS			
			: ELECTRONICS PRODUCT DESIGN			
COMPUTER	SOFTWARE ARCHITECTURE	MULTIMEDIA SYSTEM DESIGN.	ELECTIVE: II. : HUMAN COMPUTING INTERACTION.	DISTRIBUTED COMPUTING	-----	-----
			: COMPUTER VISION.			
			: ADVANCED INTERNET TECHNOLOGY			
			: EMBEDDED SYSTEM			
INSTRUMENTATION	INSTRUMENTATION PROJECT, DOCUMENTATION & EXECUTION	BATCH PROCESS AUTOMATION	ELECTIVE: II. : NUCLEAR INSTRUMENTATION.	INSTRUMENT & SYSTEM DESIGN.	-----	-----
			: POWERPLANT INSTRUMENTATION.			
			DIGITAL CONTROL SYSTEM			
			OPTIMAL & ROBUST CONTROL SYSTEMS			
			AUTOMATION IN ENERGY & INFRASTRUCTURE			
BIOMEDICAL	NUCLEAR MEDICINE	BASICS OF VLSI	BIO MEDICAL MICROSYSTEMS	ELECTIVE. : HOSPITAL MANAGEMENT	-----	-----
				DIGITAL IMAGING & COMMUNICATION IN MEDICINE		
				ROBOTICS IN MEDICINE		
CONSTRUCTION	CONSTRUCTION MANAGEMENT-II	ADMINISTRATION OF CONSTRUCTION CONTRACTS	ELECTIVE: II. : WATER RESOURCES ENGINEERING & MANAGEMENT	DESIGN AND DRAWING OF REINFORCED CONCRETE STRUCTURES. (11.00 AM to 3.00 PM)	-----	-----
			: ENVIRONMENT IMPACT ASSESSMENT & AUDIT.			
			: APPRISAL & IMPLEMENTATION OF INFRASTRUCTURE PROJECTS			
			: DISASTER MANAGEMENT			
			: BUILDING SERVICES			
			: ADVANCED CONSTRUCTION TECHNIQUES			
			: ADVANCED CONSTRUCTION ENGINEERING.			
			: ADVANCED REPAIRS & REHABILITATION OF RC STRUCTURES			
AUTOMOBILE	FINITE ELEMENT ANALYSIS (11.00 AM to 3.00 PM)	ELECTIVE: II. : ARTIFICIAL AND MACHINE INTELLIGENCE.	VEHICLE DESIGN. (11.00 AM to 3.00 PM)	-----	VEHICLE MAINTENANCE.	VEHICLE DYNAMICS.
		: PROCESS EQUIPMENT DESIGN				
		: BUSINESS PROCESS RE-ENGINEERING				

		: NON-CONVENTIONAL ENERGY SOURCES				
		: INTRODUCTION TO NANO TECHNOLOGY				
		: PRODUCT LIFE CYCLE MANAGEMENT				
		: AUTOMATIVE REFRIGENERATION & AIR CONDITIONING				
		: VEHICLE SAFETY				
		: PROJECT MANAGEMENT				
ELECTRONICS & TELECOMMUNICATION	ADVANCE MICROWAVE ENGINEERING	OPTICAL FIBER COMMUNICATION.	WIRELESS NETWORK.	ELECTIVE: II. : SATELLITE COMMUNICATION.	-----	-----
				:TELECOMMUNICATION NETWORK MANAGEMENT		
				: MICROWAVE INTEGRATED CIRCUITS		
				: IMAGE PROCESSING		
CHEMICAL	CHEMICAL REACTION ENGINEERING	ENVIRONMENTAL ENGINEERING.	-----	ELECTIVE: III. : MEMBRANE PROCESS DESIGN TECHNOLOGY	MODELING & SIMULATION IN CLINICAL ENGINEERING.	
				: INDUSTRIAL SAFETY		
				: ENERGY SYSTEM DESIGN		
				: PHARMACEUTICAL		
				: NANOTECHNOLOGY		
INFORMATION TECHNOLOGY	INFORMATION STORAGE MANAGEMENT & DISASTER RECOVERY.	GAMING, ARCHITECTURE & PROGRAMMING.	ELECTIVE: II. : CLOUD COMPUTING.	SOFTWARE PROJECT MANAGEMENT	-----	-----
			: I.T. FOR HEALTH CARE			
			: SERVICE ORIENTED ARCHITECTURE			
			: E-GOVERNMENT			
			: ERP & CRM			
			: MOBILE & E-COMMERCE			
			: ROBOTICS & MACHINE INTELLIGENCE			
MARINE	NAVAL ARCHITECTURE AND SHIP CONSTRUCTION III	MARINE ENGINEERING MEASUREMENT AND CONTROL ENGINEERING.	COMPETENCE OF WATCH-KEEPING & SHIPBOARD OPERATIONS	ELECTIVE: DOUBLE HULL TANK VESSELS.	HUMANITIES AND MARINE MANAGEMENT SCIENCE.	MARINE FIRE PREVENTION & CONTROL
				: ADVANCED MARINE HEAT ENGINES (CO-CYCLES)		
				: GAS TURBINES.		
				: ADVANCED FLUID MECHANICS.		
				: MARINE STEAM TURBINES		
				: NON-DESTRUCTIVE TESTING		
				: WELDING TECHNOLOGY IN SHIP-BUILDING		
BIO-TECHNOLOGY	TRANSPORT PHENOMENA IN BIOTECHNOLOGY	ENVIRONMENTAL BIOTECHNOLOGY-II.	PROJECT ENGINEERING.	PROCESS PLANT OPERAIONS AND SAFETY.	ELECTIVE-II : FOOD BIOTECHNOLOGY.	
					: METABOLIC ENGINEERING	
					: AGRICULTURE BIOTECHNOLOGY.	
PRINTING & PACKAGING TECHNOLOGY	PRODUCT PRESERVATION & SPECIALITY PACKAGING	PACKAGING & PRINTING MANAGEMENT	PACKAGING DISTRIBUTION & LOGISTICS	ELECTIVE-II : SELF ADHESIVE AND NARROW WEB TECHNOLOGY-II	-----	-----
				: FOOD PACKAGING SCIENCE & TECHNOLOGY-II		
				: INDUSTRIAL PRODUCT PACKAGING -II		

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			: GEOGRAPHICAL INFORMATION SYSTEMS.			
			: SOIL DYNAMICS.			
			: BRIDGE ENGINEERING.			
			: ROCK MECHANICS.			
			: ENVIRONMENTAL IMPACT ASSESSMENT AND AUDIT.			
			: INDUSTRIAL WASTE TREATMENT.			
			: APPRAISAL AND IMPLEMENTATION OF INFRASTRUCTURE PROJECTS.			
			: RISK AND DISASTER MANAGEMENT.			
			: ADVANCED DESIGN OF STEEL STRUCTURES			
			: WATER RESOURCE ENGINEERING & MANAGEMENT.			
			: EARTHQUAKE ENGINEERING.			
			: DESIGN AND DRAWING OF BUILDING SERVICES.			
: PAVEMENT DESIGN AND CONSTRUCTION.						
: ADVANCED COMPUTATIONAL TECHNIQUES.						
MECHANICAL	REFRIGERATION & AIR-CONDITIONING.	ELECTIVE: II : ARTIFICIAL AND MACHINE INTELLIGENCE.	DESIGN OF MECHANICAL SYSTEMS. (11.00 AM to 3.00 PM)	INDUSTRIAL ENGINEERING & ENTERPRISE RESOURCE PLANNING.		
			: SOFTWARE ENGINEERING.			
			: AUTOMOBILE ENGINEERING - II.			
			: NON CONVENTIONAL ENERGY SOURCES.			
			: SUPPLY CHAIN MANAGEMENT.			
			: OPTIMIZATION.			
			: DYNAMIC SYSTEM ANALYSIS.			
			: WELDING ENGINEERING.			
: JAVA TECHNOLOGIES.						
ELECTRICAL	DESIGN & ESTIMATION OF ELECTRICAL SYSTEMS.	DRIVE & CONTROLS	ELECTIVE: II. : FACTS (FLEXIBLE AC TRANSMISSION SYSTEM).	INDUSTRIAL CONTROLLERS.		
			: ILLUMINATION ENGINEERING.			
			: ROBOTICS.			
			: RELIABILITY ENGG.			
			: PROJECT MANAGEMENT.			

PRODUCTION	TOTAL QUALITY MANAGEMENT & PRODUCTIVITY TECHNIQUES (11.00 AM to 3.00 PM)	AUTOMATION AND CONTROL ENGINEERING. (11.00 AM to 3.00 PM)	INDUSTRIAL MANAGEMENT & HRD	CAD / CAM (11.00 AM to 3.00 PM)	ECONOMICS FINANCE ACCOUNTING AND COSTING.	ELECTIVE: ARTIFICIAL INTELLIGENCE.
						: INDUSTRIAL ROBOTICS.
						: PLASTIC ENGINEERING.
						: OPERATION MANAGEMENT
						:MECHATRONICS
						: PRODUCTION SOFTWARE
						: MATERIAL HANDLING SYSTEM & EQUIPMENT DESIGN.
						: SALES AND MARKETING MANAGEMENT.
: MATERIALS MANAGEMENT. (11.00 AM to 3.00 PM)						
ELECTRONICS	POWER ELECTRONICS.	DATA COMMUNICATION & NETWORKING.	ELECTIVE: II. : ADVANCED DIGITAL SIGNAL PROCESSING.	MECHATRONICS		
			: BIOMEDICAL INSTRUMENTATION.			
			: ROBOTICS.			
			: EMBEDDED SYSTEMS & REAL TIME PROGRAMMING.			
			: TELECOM NETWORK MANAGEMENT.			
: VLSI DESIGN.						
COMPUTER	SYSTEM SECURITY.	MULTIMEDIA SYSTEMS.	ELECTIVE: II. : DATA WAREHOUSING AND MINING.	DISTRIBUTED COMPUTING		
			: COMPUTER VISION.			
			: SOFTWARE TESTING.			
			: ROBOTICS.			
			: NEURAL NETWORKS AND FUZZY SYSTEMS.			
: PARALLEL PROCESSING.						
INSTRUMENTATION	BIOMEDICAL INSTRUMENTATION	DIGITAL CONTROL SYSTEM.	ELECTIVE: II. : NUCLEAR INSTRUMENTATION.	INSTRUMENTATION SYSTEM DESIGN.		
			ELECTIVE: II. : VIRTUAL INSTRUMENTATION.			
			ELECTIVE: II. : IMAGE PROCESSING.			
			ELECTIVE: II. : ROBOTICS.			
BIOMEDICAL	BIOLOGICAL MODELING AND SIMULATION.	PRINCIPLES OF IMAGE PROCESSING.	ADVANCED BIOMEDICAL INSTRUMENTATION.	ELECTIVE. A : NUCLEAR MEDICINE.		
				B : HOSPITAL MANAGEMENT & INFORMATION SYSTEMS.		
				C : ADVANCED MEDICAL IMAGING.		
				D : TELEMEDICINE.		
CONSTRUCTION	CONSTRUCTION PROJECT MANAGEMENT-II	QUANTITY & SURVEY ESTIMATION. (11.00 AM to 3.00 PM)	ELECTIVE: II. : QUALITY MANAGEMENT IN CONSTRUCTION.	DESIGN AND DETAILING OF REINFORCED CONCRETE STRUCTURES. (11.00 AM to 3.00 PM)		
			: ADVANCED CONSTRUCTION TECHNIQUES.			
			: ADVANCED ENVIRONMENTAL ENGINEERING.			
			: PRODUCTIVITY IN CONSTRUCTION.			
AUTOMOBILE	AUTOTRONICS.	ELECTIVE: II. : ARTIFICIAL AND MACHINE INTELLIGENCE.	VEHICLE DESIGN. (11.00 AM to 3.00 PM)	INDUSTRIAL ENGINEERING & ENTERPRISE RESOURCE PLANNING.	VEHICLE MAINTENANCE.	VEHICLE DYNAMICS.
		: SUPPLY CHAIN MANAGEMENT.				
		: DYNAMIC SYSTEM ANALYSIS.				
		: OPTIMIZATION.				
		: NOISE VIBRATION AND HARSHNESS.				
		: VEHICLE SAFETY.				

ELECTRONICS & TELECOMMUNICATION	COMPUTER COMMUNICATION & NETWORKS	OPTICAL FIBER COMMUNICATION.	SATELLITE COMMUNICATION.	ELECTIVE: II. : DIGITAL VOICE COMMUNICATION.			
				: WIRELESS NETWORK.			
				:TELECOMMUNICATION NETWORK MANAGEMENT			
				: MICROWAVE AMPLIFIER AND OSCILLATOR DESIGN.			
				: OPTICAL NETWORKS.			
: INTERNET COMMUNICATION ENGG.							
CHEMICAL	INDUSTRIAL SAFETY.	ENVIRONMENTAL ENGINEERING.	PROJECT ENGINEERING AND MANAGEMENT.	ELECTIVE: II. : MULTIPHASE REACTORS DESIGN.	PROCESS SIMULATION AND DESIGN.		
				: ENGERGY SYSTEM DESIGN.			
				: ADSORPTIVE PROCESS DESIGN.			
				: MEMBRANE PROCESS DESIGN.			
INFORMATION TECHNOLOGY	PROJECT MANAGEMENT.	MULTIMEDIA SYSTEMS.	ELECTIVE: II. : INFORMATION SECURITY.	DATA WAREHOUSING AND MINING.			
				: GEOGRAPHICAL INFORMATION SYSTEM.			
				: SOFTWARE TESTING.			
				: COMPUTER VISION.			
				: NEURAL NETWORKS AND FUZZY SYSTEMS.			
: ROBOTICS.							
MARINE	NAVAL ARCHITECTURE AND SHIP CONSTRUCTION III	MARINE ENGINEERING MEASUREMENT AND CONTROL ENGINEERING II	COMPETENCE FOR WATCH-KEEPING OF ENGINEER OFFICERS	ELECTIVE: DOUBLE HULL TANK VESSELS.			
				: ADVANCED MARINE HEAT ENGINES (CO-CYCLES).			
				: ADVANCED HYDRAULICS.			
				: RENEWABLE ENERGY SOURCES & APPLICATIONS.			
				: ADVANCED FLUID MECHANICS.			
				: FLUID CIRCUITS AND CONTROL			
				: ELECTROMAGNETIC INTERFERENCE (EMI) AND ELECTRO-MAGNETIC COMPATIBILITY (EMC).			
				: NON-DESTRUCTIVE TESTING			
: WELDING ENGINEERING							
BIO-TECHNOLOGY	TRANSPORT PHENOMENA IN BIOTECHNOLOGY	ENVIRONMENTAL BIOTECHNOLOGY-II.	PROJECT ENGINEERING.	PROCESS PLANT OPERAIONS AND SAFETY.	ELECTIVE-II : FOOD BIOTECHNOLOGY.		
							: METABOLIC ENGINEERING
							: AGRICULTURE BIOTECHNOLOGY.
PRINTING & PACKAGING TECHNOLOGY	PRODUCT PRESERVATION & SPECIALITY PACKAGING	PACKAGING & PRINTING MANAGEMENT	PACKAGING DISTRIBUTION & LOGISTICS	ELECTIVE-II : SELF ADHESIVE AND NARROW WEB TECHNOLOGY			
				: FOOD PACKAGING SCIENCE & TECHNOLOGY-II			
				: INDUSTRIAL PRODUCT PACKAGING -II			

Candidates are permitted to use the scientific but not programmable calculator at the examination.

Candidates for the examination are expected to provide themselves with slide-rules, charts and drawing instruments if required.

The exchange or loan of slide rules, charts, drawing instruments or any other materials used in the examination is not permitted while the examination is in progress.

Candidates must bring their own instruments and will not be allowed to borrow from each other under any circumstances.

Mumbai – 400 098.

DATE: 29TH FEBRUARY, 2012

**DR. S.M. SURYAWANSHI
CONTROLLER OF EXAMINATIONS**