

RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY ****

M.TECH, M.E., M.DES, M.ARCH. FIRST SEMESTER (C.B.C.S.) EXAMINATION OF WINTER 2024

(663 TO 685)

PROGRAMME: WRITTEN # Time: 09.30 A.M. To 12.30 P.M.

Sr.	Name of	Day	Wednesday	Friday	Monday	Thursday	Saturday	Tuesday
No.	Branch	Date	18-12-2024	20-12-2024	23-12-2024	26-12-2024	28-12-2024	31-12-2024
1	Structure Engineering	•	Theory of Elasticity & Elastics Stability	Matrix Analysis Of Structural	Structural Dynamics	Elective-I	Elective-II (Open)	
3	Computer S Engineering		Data Science	Advanced in Operating System Design	High Performance Computer Architecture	Elective-I	Elective-II (Open)	
4	CAD/CAM		Computer Integrated Manufacturing	Computer Graphics For CAD/CAM	CNC & Robotics	Elective-I	Elective-II (Open)	
5	Environmen Engineering		Environmental Chemistry & Microbiology.	Municipal & Industrial Water Treatment.	Municipal Waste Water Treatment & Disposal.	Elective-I	Elective-II (Open)	
6	Chemical Te (Food Tech.		Chemistry & Biochemistry Of Food Components.	Food Product Development & Packaging.	Bioprocess Engineering.	Elective-I	Elective-II (Open)	
7	Chemical Tech (Petro. Tech	ı.)	Catalyst Science & Technology.	Petroleum Refinery Engineering.	Petrochemical Process Design.	Elective-I	Elective-II (Open)	
8	Chemical Te (Oil. Tech.)	ech.	Advanced Oil Chemistry & Oleo chemicals.	Advanced Quality Control Techniques.	Technology Of Expression, Extraction & Refining Of Oil Bearing Materials.	Elective-I	Elective-II (Open)	
9	Chemical Tech		Chemistry Of Film Forming Materials & Polymerization Tech.	Technology Of Pigment Extenders & Additives.	Principle & Formulations Of Surface Coatings.	Elective-I	Elective-II (Open)	
10	VLSI		VLSI Sub-system Design	Advanced Digital Signal Processing	VLSI Circuits	Elective-I	Elective-II (Open)	
11	Mech. Engg. Design		Advanced Mechanisms	Dynamics of Machinery	Mechanical Vibrations	Elective-I	Elective-II (Open)	
12	Electronics Communica		Advanced Optical Communication	Coding Theory & Techniques	Advanced Digital Communication	Elective-I	Elective-II (Open)	
13	Software Sy	stem	Advanced Data Structures & Algorithm	Advanced System Software Design	Software Architecture	Elective- I	Elective-II (Open)	
14	Integrated I System	Power	Advanced Power Electronics	Power System Modeling	Power System Deregulation & Automation	Elective- I	Elective-II (Open)	
15	Heat Power Engineering		Advanced Heat & Mass Transfer	Advanced Thermodynamics & Combustion Technology	Internal Combustion Engines	Elective- I	Elective-II (Open)	
16	Chemical Engineering	3	Modeling& Simulation In Chemical Engineering.	Advanced Transport Phenomena.	Advanced Reactor Design.	Elective-I	Elective-II (Open)	

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19	Power Elect.	. &	Advanced Power Electronics	Power System Modeling	Advanced Control Theory	Elective-I	Elective-II	
	Power Syste	m		•			(Open)	
20	Electronics		Advanced Digital Signal	High Speed Semiconductor	Advanced Embedded System	Elective-I	Elective-II	
	Engineering		Processing	Devices & Circuits.	Design.		(Open)	
21	Industrial D	rives &	Advanced Power Electronics	DC Drives	Advanced Control Theory	Elective-I	Elective-II	
	Control						(Open)	
22	Artificial		Data Science Using Python	Artificial Intelligence.	Research Methodology &	Elective-I	Elective-II	
	Intelligence	& Data			IPR.			
	Science.							
23	Defence Tec	hnology	Systems and Warfare Platforms.	Warfare Simulations & Strategies.	Advanced Engineering	Elective-I	Elective-II	
					Mathematics.			
24	Computer A	ided	Finite Element Analysis.	Advanced Concrete structures.	Structural dynamics.	Elective-I	Elective-II	
	Structure							
	Engineering							
25	M.Des[Indus	strial	History of Design	Material & Processes	Craft, Creativity &	****	Elective-II	
	Design]				Postmodernism		(Open)	
26	M. Arch. (In	Arch.	Introduction to Learning	Basics of Architecture Education	Society & Architecture	****	Elective-II	
	Education)		Methods -I				(Open)	
27	M. Arch. (Env		Society & Environmental	Traditional Knowledge Systems	Sustainable Building	****	Elective-II	
	Architecture)				Technology & Management.		(Open)	
28	M. Arch. (Landscape)		Landscape Construction Services I	Theory Of Landscape -I	Plants and Design	****	Elective-	
							II(Open)	
29	M. Arch. (Urb	oan	History of Urbanity	Urban Design Methods &	Site & Urban planning	****	****	
	Design)			Techniques				
30	(Infrastructure Enng.		Infrastructure Planning & Finance	Urban Infrastructure Planning &	Digital Surveying	Earthquake Resistant	Program	Program
				Management		infrastructures	Elective –I	Elective –II
	& Technolog	y)				iiii asti actai es	LICCUVC 1	

GENERAL INSTRUCTION S FOR SEATING ARRANGEMENT

The name of the College Centre is already Printed on the Admission Card of each Candidate. However, it is notified for general information of the Candidates that: -

The seating arrangement for the Centre will be notified separately seven days prior to the Commencement of the written examination at the respective College / Centre, The Candidates concerned will also be able to get the necessary information from that chart of seating arrangement sent to the concerned College by University

Nagpur

Date: 28-10-2024

Director
Board of Examination & Evaluation
Rashtrasant Tukadoji Maharaj University, Nagpur

List of Electives. M.TECH. & M.E. I Sem.(C.B.C.S)

Sr.	Name of Branch	Elective-I	Elective-II (Open)
No		Liective-i	Liective-ii (Open)
1	Structure Engineering	1 Advanced Steel Design.2 Designs Of Earthquake Resistant Structures.3 Designs Of Environmental Structures	01. Differential Equations
2	Computer Aided Design Manufacture & Automation Computer Science & Engineering	 Design Of Hydraulic & Pneumatic Systems. Designs For Manufacturing & Assembly. Computer Aided Machinining. Rapid Prototyping & Tooling's. Ai & Expert System Design. Software Architecture. 	02. Linear Algebra 03. Numerical Analysis 04. Theory of Vectors 05. Nano Science and Nanotechnology 06. Advanced Materials and its Applications
4	CAD/CAM	1 Mechanical Behavior Of Engineering Materials.2 Designs For Manufacturing & Assembly.3 Designs Of Hydraulic & Pneumatic Systems.	07. Laser, Fiber Optics and Applications 08. Polymer Science and Technology
5	Environmental Engineering	 Water Resources Management. Environment Management. Hazardous Waste Management. 	09. Instrumental Methods of Chemical Analysis 10. Waste Management
6	Chemical Technology (Food Tech.)	 Advances In Food Engineering. Molecular Biology. Advances In Nutrition. 	11. Green Buildings 12. Product Design & Development Process
7	Chemical Technology (Petro. Tech.)	 Oil & Natural Gas Processing. Modeling & Simulation In Chemical Engineering. Advanced Transport Phenomena. Advanced Thermodynamics. 	13. Disaster Management & Migration 14. Internet of Things (IoT)
8	Chemical Technology (Oil. Tech.) Chemical Technology	 Technological Advancement In Oleo chemicals. Process Economics, Utilities & Byproducts Of Oil Industry. Automotive & Coil Coatings. 	Storage Area Networks and Management Chemical Engineering Mathematics
	(Paint Tech.)	 Technology Of Cosmetics & Polishes. Boi-Polymers In Coatings. 	Modern Chemical Instrumentation Strain Chemical Engineering Mathematics
10	VLSI	 Mixed Signal Processing. Low Power VLSI Design. Embedded Systems. 	19. Modern Chemical Instrumentation20. Advance Data Mining and Big Data Analytics
11	Mech. Engg. & Design	 Computer Aided Mechanical Design. Reliability Maintainability & Wear. 	21. Cyber Forensic and Computer Crimes
12	Electronics Engineering Communication	 Advanced Antenna. Information Theory & Stochastic Process. Advanced Image Processing. 	22. Artificial Intelligence(Electrical)

13	Software System	1) AI & Expert System Design.	23.	Utilization of Electrical Energy
		2) Network System Design.	24.	Biomedical System Engineering
14	Integrated Power System	1. Power System Dynamics & Control.		
		2. Application Of Microcontroller In Electrical System.	25.	Soft Computing Techniques
		3. Micro & Smart Grid.	26.	Digital Forensics
15	Heat Power Engineering	Advanced Energy Technologies.	27	Nano Electronics
		2. Power Plant Practice & Control.	27.	Natio Electronics
1.5		3. Computer Aided Design & its Application In Thermal Systems.	28.	CMOS VLSI Design
16	Chemical Engineering.	 Process Design, Integration & Intensification. Advanced Optimization Techniques. 	29.	Soft Computing
		3. Fluidization Engineering.		
		4. Computational Fluid Dynamics.	30.	Entrepreneurship Development
17	Industrial Engineering	Marketing Management.	31.	Computer Aided Facilities Planning
		2. Flexible Manufacturing System & Robotics.	32.	Total Quality System & Engineering
		3. Inventory & Supply Chain Management.		
		4. Statics & Quality Control.	33.	Reliability Engineering
18	M.E. Wireless Comm. &	1.Object Oriented System	34.	Artificial Intelligence (Mechanical)
	Comp.	2.Multimedia Communication	25	Control System Engineering
	Power Electronics & Power	1. Power System Dynamics & Control.		
	System	2. Application Of Microcontroller In Electrical System.	36.	Micro Electro Mechanical System
		3. Micro & Smart Grid.	37.	Energy Conservation and Management
20	Electronics Engineering	1. Pattern Recognition.		
		2. Analog IC Design.3. Advanced Digital Communication.	38.	Automobile Engineering
21	Industrial Drives & Control	Analysis Of Electrical Machines.	39.	Advanced Operation Research
	muustriai Brives & Control	2. Application Of Microcontroller In Electrical System.	40.	Robotics
		3. Micro & Smart Grid.		
22	M.Des[Industrial Design]		41.	Mechanization in Food Processing
			42.	Engineering Materials and Metallurgy
23	M. Arch. (In Arch. Education)		/13	Real Time System & Software
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24	M. Arch.		44.	Operation Research
	(Environment		45.	Mobile Computing
	Architecture)			
	M. Arch. (Landscape		46.	Biometric Technologies and Applications
	Architecture)		47.	Global Warming & Climate Change.
			48.	Road Safety Engineering.
			49.	Life Skill / Soft Skill

Artificial Intelligence & Data	Elective-I	Elective-II
Science.	1.Soft Computing	1.Business Analytics.
	2. Cloud Computing.	2.Optimization Techniques.
	3.Data Analytics.	3.Big Data Analytics.
Defence Technology	Elective-I	Elective-II
	1.Advance Thermal	1.Optimization Theory &
	Engineering.	Application.
	2.Communication Technology.	2.Military Electronics System
	3.Advance Mechanical	Engineering.
	Engineering.	3.System Engineering & Analysis.
Computer Aided Structure	Elective-I	Elective-II
Engineering	1.Computer Aided Numerical	1.Global Warming & Climate Change.
	Methods. 2.Earthquake Resistant Design of Steel Buildings.3.Theory of	2.Road Safety Engineering.
	Elasticity & Elastics Stability.	
M.Tech. (Infrastructure	Program Elective-I	Program Elective-II
Enng. & Technology)	1.Forensic Infrastructure Engineering	1.Retrofitting & Rehabilitation of Structures
	2.Machineries & Equipment in Infrastructure Engineering	2.Contract and Arbitration
	3.Airport Engg. & Pavement Design	3.Dock Harbor and Tunnels
	4.Environmental Impact Assessment	4.Green Building