

RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY ****

M.TECH, M.E., M.DES, M.ARCH. FIRST SEMESTER (C.B.C.S.) EXAMINATION OF WINTER 2023

(624 TO 647)

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

Sr.	Name of	Day	Tuesday	Thursday	Saturday	Tuesday	Thursday	Saturday
No.	Branch	Date	19-12-2023	21-12-2023	23-12-2023	26-12-2023	28-12-2023	30-12-2023
1	Structure Engineering	,	Theory of Elasticity & Elastics Stability	Matrix Analysis Of Structural	Structural Dynamics	Elective-I	Elective-II (Open)	
3	Computer Se 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	Environmer 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 Te (Petro. Tech		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 Te (Paint 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)	
14	Integrated F 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			Advanced Power Electronics	Power System Modeling	Advanced Control Theory	Elective-I	Elective-II	
20	Power Syste Electronics	em –	Advanced Digital Signal	High Speed Semiconductor	Advanced Embedded System	Elective-I	(Open) Elective-II	
20	Engineering	ī	Processing	Devices & Circuits.	Design.	Elective-1	(Open)	
21	Industrial D		Advanced Power Electronics	DC Drives	Advanced Control Theory	Elective-I	Elective-II (Open)	
22	Artificial Intelligence Science.	& Data	Data Science Using Python	Artificial Intelligence.	Research Methodology & IPR.	Elective-I	Elective-II	
23	Defence Tec	hnology	Systems and Warfare Platforms.	Warfare Simulations & Strategies.	Advanced Engineering Mathematics.	Elective-I	Elective-II	
24	Computer A Structure Engineering		Finite Element Analysis.	Advanced Concrete structures.	Structural dynamics.	Elective-I	Elective-II	
25	M.Des[Indus Design]	strial	History of Design	Material & Processes	Craft, Creativity & Postmodernism	****	Elective-II (Open)	
26	M. Arch. (In Education)	Arch.	Introduction to Learning Methods -I	Basics of Architecture Education	Society & Architecture	****	Elective-II (Open)	
27	M. Arch. (Env Architecture		Society & Environmental Economics.	Traditional Knowledge Systems	Sustainable Building Technology & Management.	****	Elective-II (Open)	
28	M. Arch. (Lar	ndscape)	Landscape Construction Services I	Theory Of Landscape -I	Plants and Design	****	Elective- II(Open)	
29	M. Arch. (Url Design)	ban	History of Urbanity	Urban Design Methods & Techniques	Site & Urban planning	****	****	
30	M.Tech. (Infrastructu & Technolog		Infrastructure Planning & Finance	Urban Infrastructure Planning & Management	Digital Surveying	Earthquake Resistant infrastructures	Program Elective –I	Program Elective –II

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: 20-11-2023

(Dr. Prafulla M. Sable)
Director
Board of Examination & Evaluation
Rashtrasant Tukadoji Maharaj University, Nagpur

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

Sr. No	Name of Branch	Elective-I	Elective-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	 Design Of Hydraulic & Pneumatic Systems. Designs For Manufacturing & Assembly. Computer Aided Machinining. Rapid Prototyping & Tooling's. 	O2. Linear Algebra O3. Numerical Analysis O4. Theory of Vectors
4	Computer Science & Engineering CAD/CAM	 Ai & Expert System Design. Software Architecture. Mechanical Behavior Of Engineering Materials. Designs For Manufacturing & Assembly. Designs Of Hydraulic & Pneumatic Systems. 	 05. Nano Science and Nanotechnology 06. Advanced Materials and its Applications 07. Laser, Fiber Optics and Applications
5	Environmental Engineering	 Water Resources Management. Environment Management. Hazardous Waste Management. 	08. Polymer Science and Technology 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.)	Technological Advancement In Oleo chemicals. Process Economics, Utilities & Byproducts Of Oil Industry.	Storage Area Networks and Management Chemical Engineering Mathematics
9	Chemical Technology (Paint Tech.)	 Automotive & Coil Coatings. Technology Of Cosmetics & Polishes. Boi-Polymers In Coatings. 	17. Modern Chemical Instrumentation 18. Chemical Engineering Mathematics
10	VLSI	 Mixed Signal Processing. Low Power VLSI Design. Embedded Systems. 	Modern Chemical Instrumentation 20. 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.	25. Soft Computing Techniques
		 Application Of Microcontroller In Electrical System. Micro & Smart Grid. 	
15	Heat Power Engineering	Nucro & Smart Grid. Advanced Energy Technologies.	26. Digital Forensics
15	neat Fower Engineering	2. Power Plant Practice & Control.	27. Nano Electronics
		3. Computer Aided Design & its Application In Thermal Systems.	28. CMOS VLSI Design
16	Chemical Engineering.	1. Process Design, Integration & Intensification.	~
		2. Advanced Optimization Techniques.	29. Soft Computing
		3. Fluidization Engineering.	30. Entrepreneurship Development
47	La destrial Francisco de sino	4. Computational Fluid Dynamics.	31. Computer Aided Facilities Planning
17	Industrial Engineering	 Marketing Management. Flexible Manufacturing System & Robotics. 	
		3. Inventory & Supply Chain Management.	32. Total Quality System & Engineering
		4. Statics & Quality Control.	33. Reliability Engineering
18	M.E. Wireless Comm. &	1.Object Oriented System	34. Artificial Intelligence (Mechanical)
	Comp.	2. Multimedia Communication	35. Control System Engineering
19	Power Electronics & Power	1. Power System Dynamics & Control.	
	System	 Application Of Microcontroller In Electrical System. Micro & Smart Grid. 	36. Micro Electro Mechanical System
20	Electronics Engineering	1. Pattern Recognition.	37. Energy Conservation and Management
20	Licetromes Engineering	2. Analog IC Design.	38. Automobile Engineering
		3. Advanced Digital Communication.	
21	Industrial Drives & Control	1. Analysis Of Electrical Machines.	39. Advanced Operation Research
		2. Application Of Microcontroller In Electrical System.	40. Robotics
22	NA Declindustrial Decimal	3. Micro & Smart Grid.	41. Mechanization in Food Processing
22	M.Des[Industrial Design]		42. Engineering Materials and Metallurgy
23	M. Arch. (In Arch. Education)		43. Real Time System & Software
24	M. Arch.		44. Operation Research
	(Environment Architecture)		45. Mobile Computing
25	M. Arch. (Landscape		46. Biometric Technologies and Applications
	Architecture)		47. Global Warming & Climate Change.
			48. Road Safety Engineering.
			49. Life Skill / Soft Skill
			I

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	1.0ptimization 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