



FIFTH Semester B.TECH.(C.B.C.S.) WINTER 2023 ( 541 TO 559)

**RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY**

FIFTH SEMESTER B. TECH. ALL BRANCH (CHOICE BASED CREDIT SYSTEMS) EXAMINATION OF WINTER 2023

# PROGRAMME( WRITTEN ) #

Time : 2.00 P.M. To 05.00 P.M.

Sr. No.	Name of Branch	Day	Wednesday	Friday	Tuesday	Thursday	Saturday	Tuesday
		Date	22/11/2023	24/11/2023	28/11/2023	30/11/2023	02/12/2023	05/12/2023
1	Civil Engineering	Hydraulic Engineering	Reinforced Cement Concrete ( RCC ) designs <b>Time: 02.00 P.M. To 06.00 P.M.</b>	Civil Engineering Materials, Testing & Evaluation	Professional Practice, Law & Ethics	<u>Elective-I</u> *1. Advanced Structural Analysis <b>*Time: 02.00 P.M. To 06.00 P.M.</b> 2. Geo synthetics Engineering 3. Geo environmental Enqq. 4. Advanced Building Materials 5. Groundwater Hydrology 6. Advanced Surveying	<u>Elective-II</u> 1. Advanced Concrete Structures ***** 2. Earth Retaining Structures 3. Climate change and its mitigation 4. Advanced Concrete Technology 5. Flood Control and Crainage 6. Railway Engineering	
2	Electrical Engineering	Microprocessor & Microcontroller	Control systems	Power electronics	Advanced Electrical Power System	<u>Professional elective-I</u> 1. Electrical Machine I II 2. Power Station Practice 3. Electrical Power Utilization	----	
3	Electronics Telecommunication Engg/ Electronics Communication Engg/ Electronics Engineering	Embedded System Design	Electromagnetic Waves	Digital Signal Processing	HSC: IEED(Economics)	PEC-I (Program Elective-I) Operating Systems 2. Information Theory and Error Correcting Codes 3. Electronic Design Techniques With HDL 4. Sensors and Systems	----	
4	Computer Science & Engg.	Artificial Intelligence	Design & Analysis of Algorithms	Software Engineering & Project Management	Elective-I 1. TCP/IP 2. Design Patterns 3. Data Warehousing & Mining	Effective Technical Communication	-----	
5	Computer Technology	Design and Analysis of Algorithms	Database Management System	Software Engineering and Project Management	Artificial Intelligence	Effective Technical Communication	Elective-I 1. TCP/IP 2. Computer Graphics 3. System Software & Device Driver	
6	Computer Engineering	Database Management System	Computer Graphics	Java Programming	<u>Elective-I</u> 1. Microcontrollers & Applications, 2. Artificial Intelligence, 3. Software Enqq.	**Humanities-II Effective Technical Communication	-----	

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07	Mechanical Engineering (NEW)	Heat Transfer	Energy Conversion I	Design of Machine Elements	Industrial Economics and Management	---		Mechanical Measurement & Metrology
08	Mechanical Engineering (OLD)	Heat Transfer	Energy Conversion I	Design of Machine Elements	Industrial Economics and Management	<u>Open Elective I I</u> 1. Organizational Entrepreneurship Behaviour & Development 2. Automobile Engineering 3. Project Evaluation & Management		----
09	Information Technology	Software Engineering & Project Management	Design and Analysis of Algorithms	Java Programming	Elective- I 1. Graming Architecture & Programming 2. High Performance Computer Architecture 3. Human Computer Interface	Effective Technical Communication		Theory of Computation
10	Aeronautical Engineering (NEW)	Propulsion- II	Aircraft System & Instrumentation	Aircraft Structure- II	<u>Elective-I</u> 1. Heat and Mass Transfer 2. Smart materials and Introduction to composites 3. Airworthiness and Certification 4. Introduction to Helicopter Dynamics	--		Industrial Economics and Management
11	Aeronautical Engineering (OLD)	Propulsion- II	Aircraft System & Instrumentation	Aircraft Structure- II	<u>Elective-I</u> 1. Heat and Mass Transfer 2. Smart materials and Introduction to composites 3. Airworthiness and Certification 4. Introduction to Helicopter Dynamics	<u>Open Elective-I</u> 1. Intellectual property rights 2. Gender Sensitization 3. Organizational Behavior & Entrepreneurship Devel. 4. Industrial Economics and Management		--
12	FIRE ENGINEERING	Fire Dynamics	Automobile Engineering	Instrumentation and Control	Fire Protection	Fundamentals of Management		Fire Laws
13	Artificial Intelligence & Data Science	Data Mining	Design and Analysis of Algorithms	Machine Learning Techniques	Internet of Things and its Application	Elective- I 1. NoSQL 2. Information Security 3. Wireless Communication Technologies 4. ARM Processor & its Essentials		Effective Technical Communication
14	Artificial Intelligence	Computer Communication Network	Design and Analysis of Algorithms	Machine Learning Techniques	Internet of Things and Robotics	Elective- I 1. NoSQL 2. Information Security 3. Wireless Communication Technologies 4. ARM Processor & its Essentials		

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17	<b>Computer Science &amp; Engg. (Data Science)</b>	Software Enq. Project Management	Artificial Intelligence	Language Processor	--	Elective-I 1. Soft Computing 2. Digital image Processing 3. Health Informatics		
18	<b>Industrial IOT</b>	IOT Architecture & Protocols	Machine Learning	Cloud & FOG Computing	Advanced Signal processing	Elective-I 1. Computer Graphics for Virtual Reality 2. Data Visualisation 3. Wireless Communication Tech. 4. Industrial & Medical IOT		
15	<b>Robotics and Artificial Intelligence</b>	Robot Dynamics	Machine learning Algorithms	Robotic Drive System	Internet of Thing & its Application	Elective I I 1. Field Service Robotics Robotics 2. Information Security 3. Wireless Communication Tech. 4. ARM Processor & its Essentials 5. Drone & Automation System		
16	<b>Artificial Intelligence &amp; Machine Learning</b>	Computer Communication network	Data Analytics & Machine Learning	Design & Analysis of Algorithms	Internet of things & Cloud Computing	Elective-I 1. ARM Processors & its Essentials 2. Distributed Computing 3. Robotics Web & Social Media Analytics		

**GENERAL INSTRUCTIONS 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: 26-10-2023**

**(Dr. Prafulla M. Sable)**

**Director**

**Board of Examination & Evaluation**

**Rashtrasant Tukadoji Maharaj University, Nagpur**