

**PRIYADARSHINI COLLEGE OF ENGINEERING, NAGPUR**

**NOTICE**

**Date: 26/02/2024**

All the faculty members are hereby requested to take a note of following points regarding Class Assessment Test - 1 (CAT - 1) of Even semesters 2023-24 (**4<sup>th</sup>, 6<sup>th</sup> & 8<sup>th</sup> Semester**) scheduled from 5<sup>th</sup> March, 2024.

1. Question paper pattern will be Descriptive questions based on 2.5/2 units.
2. Exam Time will be of 1hr and 30 Min (3.30 P.M to 05.00 P.M.)
3. Max. marks shall be 35/20.
4. The pattern of Question Paper shall be as follows:
  - a) i) For 35 marks: Two questions of 14 marks each & one question of 7 marks.  
ii) For 20 marks: Two questions of 10 marks each (**Duration of exam: 1 Hr**)
  - b) Two questions from each unit with internal choice between them.
  - c) Distribution of 14 marks:** Each question should have 2 MCQ (1 mark each), 1 short answer (5 marks) & 1 long answer type questions (7 marks).
  - d) Distribution of 10 marks:** Each question should have 2 MCQ (1 mark each), 1 short answer (3 marks) & 1 long answer type questions (5 marks).
  - e) For 7 marks question:** 2 MCQ (1 mark each) & 1 short answer (5 marks).

**NOTE: Attendance of students is mandatory in all the lectures for appearing in CAT-I exam.**

**PRIYADARSHINI COLLEGE OF ENGINEERING, NAGPUR**

**Department:**

**Semester:**

**Section:**

**Class Assessment Test- I (2023-24)**

**Subject:**

**Subject Code:**

**Duration: 1.5 Hrs/1 Hrs**


**Max. Marks: 35/20**


**Note:**

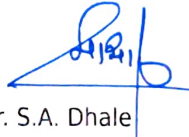
- 1) All questions are compulsory.
- 2) All questions carry marks as indicated.

| Q.No. | Questions      | Marks | CO | BL |
|-------|----------------|-------|----|----|
| 1 a.  | MCQ            |       |    |    |
| b.    | Short Question |       |    |    |
| c.    | Long Question  |       |    |    |
| 2 a.  | <u>OR</u>      |       |    |    |
| b.    |                |       |    |    |
| c.    |                |       |    |    |

**BL: Bloom's Taxonomy Levels**

  
Dr. (Mrs.) B. C. Burande  
Co-Dean Academics

  
Dr. (Mrs.) S. N. Rao  
Dean Academics

  
Dr. S.A. Dhale  
Principal

**Copy to:** - 1. Vice- Principal, All Hod(s): for information and n.a.

2. Registrar, Assistant Registrar (Academics) for information and n.a.

**Priyadarshini College of Engg  
Nagpur.**

**PRIYADARSHINI COLLEGE OF ENGINEERING, NAGPUR**  
**FOURTH SEMESTER B.Tech (CBCS) CAT- I EXAMINATION (2023-24)**  
**Time: 03:30 P.M to 05:00 P.M.**

| Sr. No. | Name of Branch                               | Day                    | Tuesday    | Wednesday  | Thursday                            | Monday  | Tuesday                                  | Wednesday   | Thursday   |
|---------|--|------------------------|------------|--|-------------------------------------|---|--|---|--|
|         |  | Date                   | 05/03/2024 | 06/03/2024   | 07/03/2024                          | 11/03/2024  | 12/03/2024                               | 13/03/2024  | 14/03/2024                                       |
| 1       | Civil Engineering                            | -----                  |            | Surveying & Geomatics                              | -----                               | Concrete Technology                                       | Structural Analysis                      | Environmental Engg.                                   | Transportation Engg.                             |
| 2       | Electrical Engineering & Electronics & Power | -----                  |            | Simulation & Programming Techniques                | Signal & System                     | Digital Electronics                                       | Electrical Machines-I                    | Power system  | Electromagnetic Fields                           |
| 3       | Aeronautical Engineering                     | -----                  |            | Professional Ethics ( 3:30pm- 4:30pm)              | Manufacturing Process -I            | Aircraft structure-I                                      | Aerodynamics II                          | Propulsion-I  | Aircraft flight Mechanics                        |
| 4       | Mechanical Engineering                       | -----                  |            | Professional Ethics                                | -----                               | Machining Process   | Hydraulic Machines                       | Mechanics of Materials                                | Engineering Thermodynamics                       |
| 5       | Elect. Telecomm.Engg. & Elect. Comm. Engg.   | Universal Human Values |            | Programming for problem solving ( 3:30pm- 4:30pm)) | Micro controllers & Applications    | Analog & digital Communications                           | Analog System Design                     | Data structure & Algorithm                            | Numerical mathematics & Probability using MATLAB |
| 6       | Computer Science Engg.                       | -----                  |            | System programming                                 | Discrete Mathematics & Graph Theory | Data Structure & Program Design                           | Database management Systems              | Computer Networks                                     | Theory of Computation                            |
| 7       | Computer Technology                          | -----                  |            | Operating System                                   | Discrete Mathematics & Graph Theory | Social Ethics in Information Technology ( 3:30pm- 4:30pm) | Object Oriented Programming using Java   | Data Structure & Program Design                       | Computer Network                                 |
| 8       | Information Technology                       | -----                  |            | Operating Systems                                  | Discrete Mathematics & Graph Theory | Data Structure & Program Design                           | Object Oriented Programming system       | Computer Architecture Organization                    | Introduction to Computer Network                 |
| 9       | Chemical Engineering                         | -----                  |            | Hass II Functional English ( 3:30pm- 4:30pm)       | Process Technology & Economics      | Mass Transfer-I   | Fluid Mechanics                          | Numerical Methods in chemical Engg. ( 3:30pm- 4:30pm) | Inorganic Process Technology                     |
| 10      | Biotechnology                                | -----                  |            | Engineering Economics ( 3:30pm- 4:30pm)            | -----                               | Cell and molecular biology                                | Green Biotechnology & Pollution Abetment | Biochemistry Metabolism                               | Bioinformatics and Computational Biology         |
| 11      | Artificial Intelligence & Data Science       | -----                  |            | Microcontroller & Embedded Systems                 | Introduction to AI                  | Theory of Computation                                     | Mathematical Foundations of Data Science | Object oriented programming with JAVA                 | Database Management Systems                      |
| 12      | Industrial IOT                               |                        |            | Analog & Digital Communication                     | Embedded System for IOT             | Introduction to Artificial Intelligence                   | Computer Networks                        | Object oriented Programming                           | Database management systems                      |
| 13      | Robotics & Artificial Intelligence           |                        |            | Intelligent Embedded System                        | Introduction to AI                  | Computer Networks   | Robotics Sensor Technology               | Object Oriented Programming                           | Robot Kinematics                                 |

*Burande*  
26/3/24  
Dr (Mrs).B.C.Burande  
Co-Dean Academics

*S.N.Rao*  
Dr (Mrs)S.N.Rao  
Dean Academics


*S.A.Dhale*  
Dr.S.A.Dhale  
Principal


**PRIYADARSHINI COLLEGE OF ENGINEERING, NAGPUR**


**SIXTH SEMESTER B.Tech. (CREDIT BASED CHOICE SYSTEMS) CAT-1 EXAMINATION (2023-24)**

**Time: 3:30 P.M. To 5:00 P.M.**

| Sr. No. | Name of Branch                                  | Day   | Thursday   | Thursday  | Monday   | Tuesday                                  | Wednesday                       | Thursday         |
|---------|---|---|------------|---|--|--|---------------------------------|------------------|
|         |   | Date  | 06/03/2024 | 07/03/2024                                      | 11/03/2024   | 12/03/2024                               | 13/03/2024                      | 14/03/2024       |
| 1       | Civil Engineering                               | -----   |            | Estimating & Costing                            | Construction Engg. & Management                          | Water resources engg.                    | Elective -III                   | Open Elective-I  |
| 2       | Electrical Engg./ Electronics & Power           | -----   |            | Engg. Economics & Management<br>Aircraft Design | Computer application in Power System<br>Space Technology | Switch Gear & Protection<br>Elective -II | Professional Elective -II       | Open Elective-I  |
| 3       | Aeronautical Engineering                        | Effective technical Comm. (3:30 To 4:30 P.M)  |            |   |  |  | -----                           | Open Elective-I  |
| 4       | Mechanical Engineering                          | Elective -II                                  |            | Automation in Production                        | Energy conversion II                                     | Dynamics of Machine                      | Elective -I                     | Open Elective-I  |
| 5       | Elect. Telecomm. Engg./ Electronics Comm. Engg. | Effective technical Comm. (3:30 To 4:30 P.M.) |            | Computer Communication Network                  | Internet of Things                                       | Wireless sensor network                  | PEC-II                          | Open Elective-I  |
| 6       | Computer Science Engg.                          | Economics of IT Industry (3:30 To 4:30 P.M)   |            | Compiler Design                                 | Elective -II   | Elective -III                            | -----                           | Open Elective-I  |
| 7       | Computer Technology                             | Economics of IT Industry (3:30 To 4:30 P.M)   |            | Compiler Design                                 | Data warehousing & mining                                | Elective -II                             | Elective -III                   | Open Elective-I  |
| 8       | Information Technology                          | Economics of IT Industry (3:30 To 4:30 P.M)   |            | Database management system                      | Artificial Intelligence & machine learning               | Elective -II                             | Elective -III                   | Open Elective-I  |
| 9       | Chemical Engg.                                  | HASS-IV (IO&ED) (3:30 To 4:30 P.M)            |            | Chemical Reaction Engineering-II                | Process Equipment Design                                 | Processes Dynamics & Control             | Core Elective -II               | Open Elective-II |
| 10      | Biotechnology                                   | Professional Elective -II                     |            | Bioseparation Engg.                             | Mass Transfer in Biotechnology                           | Bioprocess Engineering                   | Plant Tissue culture technology | Open Elective-I  |
| 11      | Artificial Intelligence & Data Science          | -----   |            | Deep learning                                   | Computer communication Network                           | Digital System Design using verilog      | Elective -II                    | Open Elective-I  |
| 12      | Industrial IOT                                  | -----   |            | Mobile & web application                        | Digital modeling & system design                         | Big data Analytics                       | Elective -II                    | Open Elective-I  |
| 13      | Robotics & Artificial Intelligence              | -----   |            | Deep learning                                   | Automation system Design                                 | Internet of things & its Application     | Elective -II                    | Open Elective-I  |

  
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# Priyadarshini College of Engineering, Nagpur

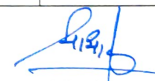
EIGHTH SEMESTER B.Tech. (CREDIT BASED CHOICE SYSTEMS) CAT- 1 EXAMINATION (2023-24)

Time: 3.30 P.M. to 5.00 P.M

| Sr. No. | Name of Branch  | Day  | Monday                                      | Tuesday                          | Wednesday                  | Thursday     |
|---------|---|------|---|----------------------------------|----------------------------|--------------|
|         |   | Date | 11/03/2024                                  | 12/03/2024                       | 13/03/2024                 | 14/03/2024   |
| 1       | Civil Engineering   |      | Construction Methods & Equipment management | Digital Land Surveying & mapping | Disaster management        | -----        |
| 2       | Electrical Engineering (Electronics & Power)                                |      | Electrical Safety & Standards               | Professional Elective –VI        | Professional Elective –VII | -----        |
| 3       | Aeronautical Engineering  |      | Hypersonic Aerodynamics                     | Elective –V                      | Elective –VI               | -----        |
| 4       | Mechanical Engineering  |      | Industrial Engineering                      | Elective –IV                     | Elective –V                | Elective –VI |
| 5       | Electronics & Telecommunication Engg. and Electronics & Communication Engg. |      | Program Elective –VI                        | Program Elective –VII            | -----                      | -----        |
| 6       | Computer Science & Engineering  |      | Program Elective –VI                        | Program Elective –VII            | -----                      | -----        |
| 7       | Computer Technology   |      | Elective –VI                                | Elective –VII                    | -----                      | -----        |
| 8       | Information Technology  |      | Program Elective –VI                        | Program Elective –VII            | -----                      | -----        |
| 9       | Biotechnology   |      | Professional Elective –V                    | Open Elective –IV                | -----                      | -----        |
| 10      | Artificial Intelligence & Data Science                                      |      | Elective –IV                                | Elective –V                      | -----                      | -----        |

  
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