

SAVITRIBAI PHULE PUNE UNIVERSITY

(Formerly University of Pune)



EXAMINATION CIRCULAR NO.232 OF. 2023

BACHELOR OF ENGINEERING (2015 COURSE)

Examination of MAY/JUNE-2023

(Under Faculty of SCIENCE AND TECHNOLOGY : B)ENGINEERING)

INSTRUCTIONS FOR CANDIDATES

- Candidates are required to be present at the examination centre, THIRTY MINUTES before the stipulated time.
- Candidates are forbidden from taking any material into the examination hall that can be treated as a malpractice.
- Candidates are requested to see the Notice Board at their center of examination regularly for changes if any that may be notified later in the program.
- No request shall be granted for change in time or date for the University Examination on any ground.
- Candidates are requested to note the Day, Date and Time of Paper.
- Candidates are permitted to use stencils at the time of examination.
- The exchanges of side-rules, drawing instruments of other materials used in the examination hall is not permitted at the time of examination. Candidates must bring their own instruments and will not be allowed to borrow from each other under any circumstances.
- Use of non-programmable battery operated electronic pocket size Calculator is allowed. The exchange of Calculators is not allowed. Electronics Devices including mobile are not allowed at the time of examination.
- The written examination will be conducted in the following order.

AUTOMOBILE**SEM-II**

| Day & Date | 2015 Course Time-03.00 PM To 5.30 PM |
|-----------------------|--|
| Friday 16/06/2023 | AUTOMOTIVE SYSTEMS AND TESTING (416495) |
| Monday 19/06/2023 | AUTOMOTIVE SYSTEM DESIGN (416496) |
| Friday 23/06/2023 | ELECTIVE-III HYBRID ELECTRIC AND FUEL CELL VEHICLE (416497B) |
| | ELECTIVE-III AUTOMOTIVE HYDRAULICS AND PNEUMATICS (416497C) |
| Monday 26/06/2023 | ELECTIVE-IV TRANSPORT MANAGEMENT AND MOTOR INDUSTRIES (416498B) |

CHEMICAL**SEM-II**

| Day & Date | 2015 Course Time-03.00 PM To 5.30 PM |
|-----------------------|---|
| Friday 16/06/2023 | PROCESS MODELING AND SIMULATION (409349) |

CIVIL

SEM-I

| Day & Date | 2015 Course Time-11.00 AM To 1.30 PM |
|-------------------------|--|
| Friday 16/06/2023 | ENVIRONMENTAL ENGINEERING - II (401001) |
| Monday 19/06/2023 | TRANSPORTATION ENGINEERING (401002) |
| Wednesday 21/06/2023 | * STRUCTURAL DESIGN & DRAWING-III (401003) 11.00 AM To 2.00 PM |
| Friday 23/06/2023 | ELECTIVE-I ADVANCED CONCRETE TECHNOLOGY (401004C) |
| | ELECTIVE-I ARCHITECTURE AND TOWN PLANNING (401004D) |
| Monday 26/06/2023 | ELECTIVE-II INTEGRATED WATER RESOURCES PLANNING & MANAGMENT (401005B) |
| | ELECTIVE-II TQM & MIS IN CIVIL ENGINEERING (401005C) |
| | ELECTIVE-II EARTHQUAKE ENGINEERING (401005D) |

NOTE:-

*Note: *Please note the Timing*

CIVIL

SEM-II

| Day & Date | 2015 Course Time-03.00 PM To 5.30 PM |
|-----------------------|--|
| Friday 16/06/2023 | DAMS AND HYDRAULIC STRUCTURES (401007) |
| Monday 19/06/2023 | QUANTITY SURVEYING, CONTRACTS AND TENDERS (401008) |
| Friday 23/06/2023 | ELECTIVE-III HYDROPOWER ENGINEERING (401009C) |
| | ELECTIVE-III AIR POLLUTION AND CONTROL (401009D) |
| | ELECTIVE-III AIRPORT AND BRIDGE ENGINEERING (401009F) |
| Monday 26/06/2023 | ELECTIVE-IV CONSTRUCTION MANAGEMENT (401010A) |
| | ELECTIVE-IV ADVANCED TRANSPORTATION ENGINEERING (401010B) |

COMPUTER

SEM-I

| Day & Date | 2015 Course Time-11.00 AM To 1.30 PM |
|-------------------------|---|
| Friday 16/06/2023 | HIGH PERFORMANCE COMPUTING (410241) |
| Monday 19/06/2023 | ARTIFICIAL INTELLIGENCE & ROBOTICS (410242) |
| Wednesday 21/06/2023 | DATA ANALYSIS (410243) |
| Friday 23/06/2023 | ELECTIVE-I DATA MINING & WAREHOUSING (410244D) |
| Monday 26/06/2023 | ELECTIVE-II SOFTWARE TESTING & QUALITY ASSURANCE (410245B) |

SEM-II

| Day & Date | 2015 Course Time-03.00 PM To 5.30 PM |
|----------------------|--|
| Friday 16/06/2023 | MACHINE LEARNING (410250) |
| Monday 19/06/2023 | INFORMATION AND CYBER SECURITY (410251) |
| Friday 23/06/2023 | ELECTIVE-III COMPILERS (410252B) |
| | ELECTIVE-III EMBEDDED AND REAL TIME OPERATING SYSTEMS (410252C) |
| | ELECTIVE-III SOFT COMPUTING AND OPTIMIZATION ALGORITHMS (410252D) |
| Monday 26/06/2023 | ELECTIVE-IV HUMAN COMPUTER INTERFACE (410253B) |
| | ELECTIVE-IV CLOUD COMPUTING (410253C) |

ELECTRICAL

SEM-I

| Day & Date | 2015 Course Time-11.00 AM To 1.30 PM |
|-------------------------|--|
| Friday 16/06/2023 | POWER SYSTEM OPERATION & CONTROL (403141) |
| Monday 19/06/2023 | PLC & SCADA APPLICATIONS (403142) |
| Wednesday 21/06/2023 | CONTROL SYSTEM-II (403145) |
| Friday 23/06/2023 | ELECTIVE-I POWER QUALITY (403143B) |
| Monday 26/06/2023 | ELECTIVE-II RESTRUCTURING & DE REGULATION (403144A) |

SEM-II

| Day & Date | 2015 Course Time-03.00 PM To 5.30 PM |
|-----------------------|--|
| Friday 16/06/2023 | SWITCHGEAR AND PROTECTION (403147) |
| Monday 19/06/2023 | POWER ELECTRONIC CONTROLLED DRIVES (403148) |
| Friday 23/06/2023 | ELECTIVE-III HIGH VOLTAGE ENGINEERING (403149A) |
| | ELECTIVE-III HVDC AND FACTS (403149B) |
| Monday 26/06/2023 | ELECTIVE-IV SMART GRID (403150A) |
| | ELECTIVE-IV ILLUMINATION ENGINEERING (403150C) |

ELECTRONICS**SEM-I**

| Day & Date | 2015 Course Time-11.00 AM To 1.30 PM |
|-------------------------|---|
| Friday 16/06/2023 | VLSI DESIGN (404201) |
| Monday 19/06/2023 | ADVANCED POWER ELECTRONICS (404202) |
| Wednesday 21/06/2023 | ELECTRONICS SYSTEM DESIGN (404203) |

ELECTRONICS**SEM-II**

| Day & Date | 2015 Course Time-03.00 PM To 5.30 PM |
|-----------------------|--|
| Friday 16/06/2023 | COMPUTER NETWORKS & SECURITY (404209) |
| Monday 19/06/2023 | PROCESS INSTRUMENTATION (404210) |
| Friday 23/06/2023 | ELECTIVE-III ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING (404211B) |
| | ELECTIVE-III OPTICAL AND MICROWAVE COMMUNICATION (404211C) |
| Monday 26/06/2023 | ELECTIVE-IV WIRELESS SENSOR NETWORKS (404212B) |
| | ELECTIVE-IV RENEWABLE ENERGY SYSTEMS & DSM (404212C) |

ELECTRONICS & TELECOMMUNICATION

SEM-I

| Day & Date | 2015 Course Time-11.00 AM To 1.30 PM |
|-------------------------|---|
| Friday 16/06/2023 | VLSI DESIGN & TECHNOLOGY (404181) |
| Monday 19/06/2023 | COMPUTER NETWORKS & SECURITY (404182) |
| Wednesday 21/06/2023 | RADIATION & MICROWAVE TECHNIQUES (404183) |
| Friday 23/06/2023 | ELECTIVE-I EMBEDDED SYSTEM & RTOS (404184C) |
| Monday 26/06/2023 | ELECTIVE-II ELECTRONICS PRODUCT DESIGN (412185B) |

ELECTRONICS & TELECOMMUNICATION

SEM-II

| Day & Date | 2015 Course Time-03.00 PM To 5.30 PM |
|----------------------|---|
| Friday 16/06/2023 | MOBILE COMMUNICATION (404189) |
| Monday 19/06/2023 | BROADBAND COMMUNICATION SYSTEMS (404190) |
| Friday 23/06/2023 | ELECTIVE-III MACHINE LEARNING (404191A) |
| | ELECTIVE-III PLC S AND AUTOMATION (404191B) |
| | ELECTIVE-III AUDIO AND SPEECH PROCESSING (404191C) |
| | ELECTIVE-III AUDIO VIDEO ENGINEERING (404191E) |
| Monday 26/06/2023 | ELECTIVE-IV ROBOTICS (404192A) |
| | ELECTIVE-IV WIRELESS SENSOR NETWORKS (404192C) |
| | ELECTIVE-IV RENEWABLE ENERGY SYSTEMS (404192D) |
| | OPEN ELECTIVE DATA SCIENCE & ANALYTICS (404192DD) |

INFORMATION TECHNOLOGY

SEM-I

| Day & Date | 2015 Course Time-11.00 AM To 1.30 PM |
|----------------------|---|
| Friday 16/06/2023 | INFORMATION & CYBER SECURITY (414453) |
| Monday 26/06/2023 | ELECTIVE-II SOFTWARE TESTING & QUALITY ASSURANCE (414457C) |

SEM-II

| Day & Date | 2015 Course Time-03.00 PM To 5.30 PM |
|----------------------|---|
| Friday 16/06/2023 | DISTRIBUTED COMPUTING SYSTEM (414462) |
| Monday 19/06/2023 | UBIQUITOUS COMPUTING (414463) |
| Friday 23/06/2023 | ELECTIVE-III INTERNET OF THINGS (IOT) (414464A) |
| | ELECTIVE-III INFORMATION STORAGE AND RETRIEVAL (414464B) |
| | ELECTIVE-III INTERNET AND WEB PROGRAMMING (414464D) |
| Monday 26/06/2023 | ELECTIVE-IV SOCIAL MEDIA ANALYTICS (414465D) |

INSTRUMENTATION & CONTROL

SEM-II

| Day & Date | 2015 Course Time-03.00 PM To 5.30 PM |
|----------------------|---|
| Friday 16/06/2023 | PROCESS INSTRUMENTATION (406268) |
| Monday 19/06/2023 | INDUSTRIAL AUTOMATION (406269) |
| Friday 23/06/2023 | ELECTIVE-III BUILDING AUTOMATION (406270A) |
| Monday 26/06/2023 | ELECTIVE-IV RENEWABLE ENERGY SYSTEMS (406271B) |
| | ELECTIVE-IV INSTRUMENTATION IN AGRICULTURE AND FOOD INDUSTRIES (406271C) |

MECHANICAL

SEM-I

| Day & Date | 2015 Course Time-11.00 AM To 1.30 PM |
|-------------------------|--|
| Friday 16/06/2023 | @ REFRIGERATION AND AIR CONDITIONING (302049) |
| | HYDRAULICS & PNEUMATICS (402041) |
| Monday 19/06/2023 | CAD/CAM AUTOMATION (402042) |
| Wednesday 21/06/2023 | DYNAMICS OF MACHINERY (402043) |
| Friday 23/06/2023 | ELECTIVE-I FINITE ELEMENT ANALYSIS (402044A) |
| | ELECTIVE-I HEATING VENTILATION & AIR CONDITIONING (402044C) |
| Monday 26/06/2023 | ELECTIVE-II AUTOMOBILE ENGINEERING (402045A) |
| | ELECTIVE-II ENERGY AUDIT & MANAGEMENT (402045C) |

SEM-II

| Day & Date | 2015 Course Time-03.00 PM To 5.30 PM |
|----------------------|---|
| Friday 16/06/2023 | ENERGY ENGINEERING (402047) |
| Monday 19/06/2023 | * MECHANICAL SYSTEM DESIGN (402048) 3.00 PM To 6.00 PM |
| Friday 23/06/2023 | ELECTIVE-III TRIBOLOGY (402049A) |
| | ELECTIVE-III INDUSTRIAL ENGINEERING (402049B) |
| | ELECTIVE-III ROBOTICS (402049C) |
| Monday 26/06/2023 | ELECTIVE-IV ADVANCED MANUFACTURING PROCESSES (402050A) |
| | ELECTIVE-IV SOLAR & WIND ENERGY (402050B) |
| | ELECTIVE-IV PRODUCT DESIGN AND DEVELOPMENT (402050C) |

NOTE:-

Note:- * Please Note the Timing.(SEM-II)

@ The Students who have not studied the subject Refrigeration & Air Conditioning in T.E. 2012 pattern and who got admitted in B.E. 2015 pattern.

MECHANICAL-SANDWICH**SEM-II**

| Day & Date | 2015 Course Time-03.00 PM To 5.30 PM |
|-------------------------|---|
| Friday 16/06/2023 | ** ENERGY ENGINEERING (402047) |
| Monday 19/06/2023 | ** MECHANICAL SYSTEM DESIGN (402048) 3.00 PM To 6.00 PM |
| Wednesday 21/06/2023 | MECHANICAL VIBRATIONS (402066) |
| Friday 23/06/2023 | ELECTIVE-I FINITE ELEMENT ANALYSIS (402068C) |
| | ELECTIVE-I HYDRAULICS AND PNEUMATICS (402068D) |
| Monday 26/06/2023 | ELECTIVE-II ENERGY AUDIT AND MANAGEMENT (402069A) |

NOTE:-

**** Common to Mechanical Engineering. (SEM-II)****HONORS/MINORS****SEM-II**

| Day & Date | 2015 Course Time-03.00 PM To 5.30 PM |
|------------------------|---|
| Thursday 29/06/2023 | Soft Computing and Deep Learning (410303) |
| | Information Systems Management (410403) |
| | Artificial Intelligence for Big Data Analytics (410503) |
| | Internet of Things Security (410603) |

Note: The Backlog Students of B.E. 2012 Pattern will have to appear for equivalence subjects of B.E. 2015 Pattern.

Ganeshkhind, Pune - 411 007

Ref.No/XCT/715

Date:06/06/2023

Director

Board of Examinations And Evaluation