

SAVITRIBAI PHULE PUNE UNIVERSITY

(Formerly University of Pune)



EXAMINATION CIRCULAR NO.231 OF. 2022

BACHELOR OF ENGINEERING (2015 COURSE)

Examination of OCT/NOV/DEC-2022

(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-02.00 PM To 4.30 PM
Tuesday 27/12/2022	AUTOMOTIVE SYSTEMS AND TESTING (416495)
Wednesday 28/12/2022	AUTOMOTIVE SYSTEM DESIGN (416496)
Friday 30/12/2022	ELECTIVE-III AUTOMOTIVE NVH (416497A)
	ELECTIVE-III HYBRID ELECTRIC AND FUEL CELL VEHICLE (416497B)
	ELECTIVE-III AUTOMOTIVE HYDRAULICS AND PNEUMATICS (416497C)
Saturday 31/12/2022	ELECTIVE-IV OPERATION RESEARCH (416498A)
	ELECTIVE-IV TRANSPORT MANAGEMENT AND MOTOR INDUSTRIES (416498B)
	ELECTIVE-IV ENGINEERING ECONOMICS AND FINANCIAL MANAGEMENT (416498C)

SEM-I

Day & Date	2015 Course Time-02.00 PM To 4.30 PM
Monday 02/01/2023	AUTOMOTIVE REFRIGERATION & AIR-CONDITIONING (416488)
Tuesday 03/01/2023	ALTERNATIVE FUELS & EMISSION CONTROL (416489)
Wednesday 04/01/2023	MACHINE & VEHICLE DYNAMICS (416490)
Thursday 05/01/2023	ELECTIVE-I FUNDAMENTALS OF COMPUTATIONAL FLUID DYNAMICS (416491A)
	ELECTIVE-I FUNDAMENTALS OF FINITE ELEMENT ANALYSIS (416491B)
	ELECTIVE-I CAE & AUTOMATION (416491C)
Friday 06/01/2023	ELECTIVE-II SPECIAL PURPOSE VEHICLE (416492A)
	ELECTIVE-II VEHICLE MAINTENANCE (416492B)
	ELECTIVE-II PRODUCT DESIGN & DEVELOPMENT (416492C)

CHEMICAL

SEM-II

Day & Date	2015 Course Time-2.00 PM To 4.30 PM
Tuesday 27/12/2022	PROCESS MODELING AND SIMULATION (409349)
Wednesday 28/12/2022	PROCESS ENGINEERING COSTING & PLANT DESIGN (409350)
Friday 30/12/2022	ELECTIVE-III ENERGY CONSERVATION IN CHEMICAL PROCESS INDUSTRIES (409351A)
	ELECTIVE-III CHEMICAL PROCESS SAFETY (409351B)
	ELECTIVE-III FOOD TECHNOLOGY (409351C)
	ELECTIVE-III ADVANCED MATERIALS (409351D)
Saturday 31/12/2022	ELECTIVE-IV CATALYSIS (409352A)
	ELECTIVE-IV NANOTECHNOLOGY (409352B)
	ELECTIVE-IV FUEL CELL TECHNOLOGY (409352C)
	ELECTIVE-IV PETROCHEMICAL ENGINEERING (409352D)

SEM-I

Day & Date	2015 Course Time-2.00 PM To 4.30 PM
Monday 02/01/2023	PROCESS DYNAMICS & CONTROL (409341)
Tuesday 03/01/2023	CHEMICAL REACTION ENGINEERING - II (409342)
Wednesday 04/01/2023	CHEMICAL ENGINEERING DESIGN- II (409343)
Thursday 05/01/2023	ELECTIVE-I ENVIRONMENTAL ENGINEERING (409344A)
	ELECTIVE-I MEMBRANE TECHNOLOGY (409344B)
	ELECTIVE-I CORROSION ENGINEERING (409344C)
	ELECTIVE-I PETROLEUM REFINING (409344D)
Friday 06/01/2023	ELECTIVE-II CHEMICAL PROCESS SYNTHESIS (409345A)
	ELECTIVE-II INDUSTRIAL MANAGEMENT & ENTREPRENEURSHIP (409345B)
	ELECTIVE-II PIPING DESIGN & ENGINEERING (409345C)
	ELECTIVE-II ADVANCED SEPERATION PROCESSES (409345D)

CIVIL

SEM-II

Day & Date	2015 Course Time-2.00 PM To 4.30 PM
Tuesday 27/12/2022	DAMS AND HYDRAULIC STRUCTURES (401007)
Wednesday 28/12/2022	QUANTITY SURVEYING, CONTRACTS AND TENDERS (401008)
Friday 30/12/2022	ELECTIVE-III ADVANCED STRUCTURAL DESIGN (401009A)
	ELECTIVE-III STATISTICAL ANALYSIS AND COMPUTATIONAL METHODS IN CIVIL ENGINEERING (401009B)
	ELECTIVE-III HYDROPOWER ENGINEERING (401009C)
	ELECTIVE-III AIR POLLUTION AND CONTROL (401009D)
	ELECTIVE-III FINITE ELEMENT METHOD IN CIVIL ENGINEERING (401009E)
	ELECTIVE-III AIRPORT AND BRIDGE ENGINEERING (401009F)
Saturday 31/12/2022	ELECTIVE-IV CONSTRUCTION MANAGEMENT (401010A)
	ELECTIVE-IV ADVANCED TRANSPORTATION ENGINEERING (401010B)
	ELECTIVE-IV ADVANCED FOUNDATION ENGINEERING. (401010C)
	ELECTIVE-IV COASTAL ENGINEERING (401010D)
	OPEN ELECTIVE PLUMBING ENGINEERING (401010EA)
	OPEN ELECTIVE GREEN BUILDING TECHNOLOGY (401010EB)
	OPEN ELECTIVE FERROCEMENT TECHNOLOGY (401010EC)
	OPEN ELECTIVE SUB SEA ENGINEERING (401010ED)
	OPEN ELECTIVE GEOINFORMATICS (401010EE)
OPEN ELECTIVE REPAIRS AND REHABILITATION OF CONCRETE STRUCTURES (401010EF)	

CIVIL

SEM-I

Day & Date	2015 Course Time-2.00 PM To 4.30 PM
Monday 02/01/2023	ENVIRONMENTAL ENGINEERING - II (401001)
Tuesday 03/01/2023	TRANSPORTATION ENGINEERING (401002)
Wednesday 04/01/2023	* STRUCTURAL DESIGN & DRAWING-III (401003) 2.00 PM To 5.00 PM
Thursday 05/01/2023	ELECTIVE-I STRUCTURAL DESIGN OF BRIDGES (401004A)
	ELECTIVE-I SYSTEMS APPROACH IN CIVIL ENGINEERING (401004B)
	ELECTIVE-I ADVANCED CONCRETE TECHNOLOGY (401004C)
	ELECTIVE-I ARCHITECTURE AND TOWN PLANNING (401004D)
	ELECTIVE-I ADVANCED ENGINEERING GEOLOGY WITH ROCK MECHANICS (401004E)
Friday 06/01/2023	ELECTIVE-II MATRIX METHODS OF STRUCTURAL ANALYSIS (401005A)
	ELECTIVE-II INTEGRATED WATER RESOURCES PLANNING & MANAGMENT (401005B)
	ELECTIVE-II TQM & MIS IN CIVIL ENGINEERING (401005C)
	ELECTIVE-II EARTHQUAKE ENGINEERING (401005D)
	ELECTIVE-II ADVANCED GEOTECHNICAL ENGINEERING (401005E)

NOTE:-

*Note: *Please note the Timing*

COMPUTER

SEM-II

Day & Date	2015 Course Time-2.00 PM To 4.30 PM
Tuesday 27/12/2022	MACHINE LEARNING (410250)
Wednesday 28/12/2022	INFORMATION AND CYBER SECURITY (410251)
Friday 30/12/2022	ELECTIVE-III ADVANCED DIGITAL SIGNAL PROCESSING (410252A)
	ELECTIVE-III COMPILERS (410252B)
	ELECTIVE-III EMBEDDED AND REAL TIME OPERATING SYSTEMS (410252C)
	ELECTIVE-III SOFT COMPUTING AND OPTIMIZATION ALGORITHMS (410252D)
Saturday 31/12/2022	ELECTIVE-IV SOFTWARE DEFINED NETWORKS (410253A)
	ELECTIVE-IV HUMAN COMPUTER INTERFACE (410253B)
	ELECTIVE-IV CLOUD COMPUTING (410253C)
	ELECTIVE-IV BUSINESS INTELLIGENCE (410253DA)
	ELECTIVE-IV ENTERPRISE RESOURCE PLANNING (410253DB)
	OPEN ELECTIVE BIG DATA & DATA ANALYTICS (410253DC)

SEM-I

Day & Date	2015 Course Time-2.00 PM To 4.30 PM
Monday 02/01/2023	HIGH PERFORMANCE COMPUTING (410241)
Tuesday 03/01/2023	ARTIFICIAL INTELLIGENCE & ROBOTICS (410242)
Wednesday 04/01/2023	DATA ANALYSIS (410243)
Thursday 05/01/2023	ELECTIVE-I DIGITAL SIGNAL PROCESSING (410244A)
	ELECTIVE-I SOFTWARE ARCHITECTURE & DESIGN (410244B)
	ELECTIVE-I PERVASIVE & UBIQUITOUS COMPUTING (410244C)
	ELECTIVE-I DATA MINING & WAREHOUSING (410244D)
Friday 06/01/2023	ELECTIVE-II DISTRIBUTED SYSTEMS (410245A)
	ELECTIVE-II SOFTWARE TESTING & QUALITY ASSURANCE (410245B)
	ELECTIVE-II OPERATION RESEARCH (410245C)
	ELECTIVE-II MOBILE COMMUNICATION (410245D)

ELECTRICAL

SEM-II

Day & Date	2015 Course Time-2.00 PM To 4.30 PM
Tuesday 27/12/2022	SWITCHGEAR AND PROTECTION (403147)
Wednesday 28/12/2022	POWER ELECTRONIC CONTROLLED DRIVES (403148)
Friday 30/12/2022	ELECTIVE-III HIGH VOLTAGE ENGINEERING (403149A)
	ELECTIVE-III HVDC AND FACTS (403149B)
	ELECTIVE-III DIGITAL CONTROL SYSTEM (403149C)
	ELECTIVE-III INTELLIGENT SYSTEMS AND APPLICATIONS IN ELECTRICAL ENGINEERING (403149D)
	ELECTIVE-III ANALOG ELECTRONICS AND SENSING TECHNOLOGY [OPEN ELECTIVE] (403149E)
Saturday 31/12/2022	ELECTIVE-IV SMART GRID (403150A)
	ELECTIVE-IV ROBOTICS AND AUTOMATION (403150B)
	ELECTIVE-IV ILLUMINATION ENGINEERING (403150C)
	ELECTIVE-IV VLSI DESIGN[OPEN ELECTIVE] (403150D)

SEM-I

Day & Date	2015 Course Time-2.00 PM To 4.30 PM
Monday 02/01/2023	POWER SYSTEM OPERATION & CONTROL (403141)
Tuesday 03/01/2023	PLC & SCADA APPLICATIONS (403142)
Wednesday 04/01/2023	CONTROL SYSTEM-II (403145)
Thursday 05/01/2023	ELECTIVE-I FUNDAMENTALS OF MICROCONTROLLER & ITS APPLICATIONS (403143A)
	ELECTIVE-I POWER QUALITY (403143B)
	ELECTIVE-I RENEWABLE ENERGY SYSTEM (403143C)
	ELECTIVE-I DIGITAL SIGNAL PROCESSING (403143D)
Friday 06/01/2023	ELECTIVE-II RESTRUCTURING & DE REGULATION (403144A)
	ELECTIVE-II ELECTROMAGNETIC FIELD (403144B)
	ELECTIVE-II EHV AC TRANSMISSION (403144C)
	ELECTIVE-II ELECTRIC & HYBRID VEHICLES (403144D)
	ELECTIVE-II SPECIAL PURPOSE MACHINES (403144E)

ELECTRONICS

SEM-II

Day & Date	2015 Course Time-2.00 PM To 4.30 PM
Tuesday 27/12/2022	COMPUTER NETWORKS & SECURITY (404209)
Wednesday 28/12/2022	PROCESS INSTRUMENTATION (404210)
Friday 30/12/2022	ELECTIVE-III AUTOMOTIVE ELECTRONICS (404211A)
	ELECTIVE-III ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING (404211B)
	ELECTIVE-III OPTICAL AND MICROWAVE COMMUNICATION (404211C)
	ELECTIVE-III AUDIO VIDEO ENGINEERING (404211D)
	ELECTIVE-III TESTING AND VERIFICATION FOR SOC DESIGN (404211E)
Saturday 31/12/2022	ELECTIVE-IV ROBOTICS (404212A)
	ELECTIVE-IV WIRELESS SENSOR NETWORKS (404212B)
	ELECTIVE-IV RENEWABLE ENERGY SYSTEMS & DSM (404212C)
	ELECTIVE-IV TM4C123GH6PM MICROCONTROLLER (404212D)
	OPEN ELECTIVE * ADVANCED AUTOMOTIVE ELECTRONICS (404192DA)
	OPEN ELECTIVE * INDUSTRIAL INTERNET OF THINGS (404192DB)
	OPEN ELECTIVE * PROGRAMMABLE SYSTEM ON CHIP (404192DC)
	OPEN ELECTIVE * DATA SCIENCE & ANALYTICS (404192DD)

*Note:- * Common with E.&TC.*

ELECTRONICS

SEM-I

Day & Date	2015 Course Time-02.00 PM To 4.30 PM
Monday 02/01/2023	VLSI DESIGN (404201)
Tuesday 03/01/2023	ADVANCED POWER ELECTRONICS (404202)
Wednesday 04/01/2023	ELECTRONICS SYSTEM DESIGN (404203)
Thursday 05/01/2023	ELECTIVE-I DIGITAL IMAGE & VIDEO PROCESSING (404204A)
	ELECTIVE-I AUDIO & SPEECH PROCESSING (404204B)
	ELECTIVE-I EMBEDDED SYSTEMS & RTOS (404204C)
	ELECTIVE-I INTERNET OF THINGS (404204D)
	ELECTIVE-I SOFTWARE DEFINED RADIO (404204E)
Friday 06/01/2023	ELECTIVE-II MOBILE COMMUNICATION (404205A)
	ELECTIVE-II BIO-MEDICAL ELECTRONICS (404205B)
	ELECTIVE-II OPTIMIZATION TECHNIQUES (404205C)
	ELECTIVE-II COMPUTER MODELING & SIMULATION (404205D)
	ELECTIVE-II DIGITAL SIGNAL PROCESSOR TMS320C67X (404205E)

ELECTRONICS & TELECOMMUNICATION

SEM-II

Day & Date	2015 Course Time-2.00 PM To 4.30 PM
Tuesday 27/12/2022	MOBILE COMMUNICATION (404189)
Wednesday 28/12/2022	BROADBAND COMMUNICATION SYSTEMS (404190)
Friday 30/12/2022	ELECTIVE-III MACHINE LEARNING (404191A)
	ELECTIVE-III PLC S AND AUTOMATION (404191B)
	ELECTIVE-III AUDIO AND SPEECH PROCESSING (404191C)
	ELECTIVE-III SOFTWARE DEFINED RADIO (404191D)
	ELECTIVE-III AUDIO VIDEO ENGINEERING (404191E)
Saturday 31/12/2022	ELECTIVE-IV ROBOTICS (404192A)
	ELECTIVE-IV BIOMEDICAL ELECTRONICS (404192B)
	ELECTIVE-IV WIRELESS SENSOR NETWORKS (404192C)
	ELECTIVE-IV RENEWABLE ENERGY SYSTEMS (404192D)
	OPEN ELECTIVE ADVANCED AUTOMOTIVE ELECTRONICS (404192DA)
	OPEN ELECTIVE INDUSTRIAL INTERNET OF THINGS (404192DB)
	OPEN ELECTIVE PROGRAMMABLE SYSTEM ON CHIP (404192DC)
	OPEN ELECTIVE DATA SCIENCE & ANALYTICS (404192DD)

ELECTRONICS & TELECOMMUNICATION

SEM-I

Day & Date	2015 Course Time-2.00 PM To 4.30 PM
Monday 02/01/2023	VLSI DESIGN & TECHNOLOGY (404181)
Tuesday 03/01/2023	COMPUTER NETWORKS & SECURITY (404182)
Wednesday 04/01/2023	RADIATION & MICROWAVE TECHNIQUES (404183)
Thursday 05/01/2023	ELECTIVE-I DIGITAL IMAGE VIDEO PROCESSING (404184A)
	ELECTIVE-I INDUSTRIAL DRIVES & CONTROL (404184B)
	ELECTIVE-I EMBEDDED SYSTEM & RTOS (404184C)
	ELECTIVE-I INTERNET OF THINGS (404184D)
Friday 06/01/2023	ELECTIVE-II WAVELETS (412185A)
	ELECTIVE-II ELECTRONICS PRODUCT DESIGN (412185B)
	ELECTIVE-II OPTIMIZATION TECHNIQUES (412185C)
	ELECTIVE-II ARTIFICIAL INTELLIGENCE (412185D)
	ELECTIVE-II ELECTRONICS IN AGRICULTURE (412185E)

INFORMATION TECHNOLOGY

SEM-II

Day & Date	2015 Course Time-02.00 PM To 4.30 PM
Tuesday 27/12/2022	DISTRIBUTED COMPUTING SYSTEM (414462)
Wednesday 28/12/2022	UBIQUITOUS COMPUTING (414463)
Friday 30/12/2022	ELECTIVE-III INTERNET OF THINGS (IOT) (414464A)
	ELECTIVE-III INFORMATION STORAGE AND RETRIEVAL (414464B)
	ELECTIVE-III MULTIMEDIA TECHNIQUES (414464C)
	ELECTIVE-III INTERNET AND WEB PROGRAMMING (414464D)
	ELECTIVE-III COMPUTATIONAL OPTIMIZATION (414464E)
Saturday 31/12/2022	ELECTIVE-IV RURAL TECHNOLOGIES AND COMMUNITY DEVELOPMENT (414465A)
	ELECTIVE-IV PARALLEL COMPUTING (414465B)
	ELECTIVE-IV COMPUTER VISION (414465C)
	ELECTIVE-IV SOCIAL MEDIA ANALYTICS (414465D)

SEM-I

Day & Date	2015 Course Time-2.00 PM To 4.30 PM
Monday 02/01/2023	INFORMATION & CYBER SECURITY (414453)
Tuesday 03/01/2023	MACHINE LEARNING & APPLICATIONS (414454)
Wednesday 04/01/2023	SOFTWARE DESIGN & MODELING (414455)
Thursday 05/01/2023	ELECTIVE-I WIRELESS COMMUNICATIONS (414456A)
	ELECTIVE-I NATURAL LANGUAGE PROCESSING (414456B)
	ELECTIVE-I USABILITY ENGINEERING (414456C)
	ELECTIVE-I MULTICORE & CONCURRENT SYSTEMS (414456D)
	ELECTIVE-I BUSINESS ANALYTICS & INTELLIGENCE (414456E)
Friday 06/01/2023	ELECTIVE-II SOFTWARE DEFINED NETWORKS (414457A)
	ELECTIVE-II SOFT COMPUTING (414457B)
	ELECTIVE-II SOFTWARE TESTING & QUALITY ASSURANCE (414457C)
	ELECTIVE-II COMPILER CONSTRUCTION (414457D)
	ELECTIVE-II GAMIFICATION (414457E)

INSTRUMENTATION & CONTROL

SEM-II

Day & Date	2015 Course Time-2.00 PM To 4.30 PM
Tuesday 27/12/2022	PROCESS INSTRUMENTATION (406268)
Wednesday 28/12/2022	INDUSTRIAL AUTOMATION (406269)
Friday 30/12/2022	ELECTIVE-III BUILDING AUTOMATION (406270A)
	ELECTIVE-III ROBOTICS AND AUTOMATION (406270B)
	ELECTIVE-III ENVIRONMENTAL INSTRUMENTATION (406270C)
	ELECTIVE-III DIGITAL IMAGE PROCESSING (406270D)
	ELECTIVE-III PROCESS MODELLING AND OPTIMIZATION (406270E)
Saturday 31/12/2022	ELECTIVE-IV RELIABILITY ENGINEERING (406271A)
	ELECTIVE-IV RENEWABLE ENERGY SYSTEMS (406271B)
	ELECTIVE-IV INSTRUMENTATION IN AGRICULTURE AND FOOD INDUSTRIES (406271C)
	ELECTIVE-IV SMART MATERIAL AND SYSTEMS (406271D)

SEM-I

Day & Date	2015 Course Time-2.00 PM To 4.30 PM
Monday 02/01/2023	PROCESS DYNAMICS & CONTROL (406261)
Tuesday 03/01/2023	PROJECT ENGINEERING & MANAGEMENT (406262)
Wednesday 04/01/2023	COMPUTER TECHNIQUES & APPLICATIONS (406263)
Thursday 05/01/2023	ELECTIVE-I INDUSTRIAL INTERNET OF THINGS (406264A)
	ELECTIVE-I ELECTRICAL DRIVES (406264B)
	ELECTIVE-I ADVANCED DIGITAL SIGNAL PROCESSING (406264C)
	ELECTIVE-I ADVANCED BIO-MEDICAL INSTRUMENTATION (406264D)
	ELECTIVE-I DIGITAL CONTROL SYSTEMS (406264E)
Friday 06/01/2023	ELECTIVE-II SMART & WIRELESS INSTRUMENTATION (406265A)
	ELECTIVE-II INSTRUMENTATION & CONTROL FOR POWER PLANTS (406265B)
	ELECTIVE-II AUTOMOTIVE INSTRUMENTATION (406265C)
	ELECTIVE-II OPTO-ELECTRONICS INSTRUMENTATION (406265D)
	ELECTIVE-II SOFT COMPUTING (406265E)

MECHANICAL

SEM-II

Day & Date	2015 Course Time-2.00 PM To 4.30 PM
Tuesday 27/12/2022	ENERGY ENGINEERING (402047)
Wednesday 28/12/2022	* MECHANICAL SYSTEM DESIGN (402048) 2.00 PM To 5.00 PM
Friday 30/12/2022	ELECTIVE-III TRIBOLOGY (402049A)
	ELECTIVE-III INDUSTRIAL ENGINEERING (402049B)
	ELECTIVE-III ROBOTICS (402049C)
Saturday 31/12/2022	ELECTIVE-IV ADVANCED MANUFACTURING PROCESSES (402050A)
	ELECTIVE-IV SOLAR & WIND ENERGY (402050B)
	ELECTIVE-IV PRODUCT DESIGN AND DEVELOPMENT (402050C)

SEM-I

Day & Date	2015 Course Time-2.00 PM To 4.30 PM
Monday 02/01/2023	@ REFRIGERATION AND AIR CONDITIONING (302049)
	HYDRAULICS & PNEUMATICS (402041)
Tuesday 03/01/2023	CAD/CAM AUTOMATION (402042)
Wednesday 04/01/2023	DYNAMICS OF MACHINERY (402043)
Thursday 05/01/2023	ELECTIVE-I FINITE ELEMENT ANALYSIS (402044A)
	ELECTIVE-I COMPUTATIONAL FLUID DYNAMICS (402044B)
	ELECTIVE-I HEATING VENTILATION & AIR CONDITIONING (402044C)
Friday 06/01/2023	ELECTIVE-II AUTOMOBILE ENGINEERING (402045A)
	ELECTIVE-II OPERATION RESEARCH (402045B)
	ELECTIVE-II ENERGY AUDIT & MANAGEMENT (402045C)

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-2.00 PM To 4.30 PM
Tuesday 27/12/2022	** ENERGY ENGINEERING (402047)
Wednesday 28/12/2022	** MECHANICAL SYSTEM DESIGN (402048) 2.00 PM To 5.00 PM
Thursday 29/12/2022	MECHANICAL VIBRATIONS (402066)
Friday 30/12/2022	ELECTIVE-I COMPUTATIONAL FLUID DYNAMICS (402068A)
	ELECTIVE-I CAD/ CAM AUTOMATION (402068B)
	ELECTIVE-I FINITE ELEMENT ANALYSIS (402068C)
	ELECTIVE-I HYDRAULICS AND PNEUMATICS (402068D)
Saturday 31/12/2022	ELECTIVE-II ENERGY AUDIT AND MANAGEMENT (402069A)
	ELECTIVE-II OPERATIONS RESEARCH (402069B)

SEM-I

Day & Date	2015 Course Time-2.00 PM To 5.00 PM
Thursday 05/01/2023	AUTOMOBILE ENGINEERING (SELF-STUDY-III) (402064)
Friday 06/01/2023	PLANT ENGINEERING AND MAINTENANCE (SELF-STUDY-III) (402065)

NOTE:-

**** Common to Mechanical Engineering. (SEM-II)**

HONORS/MINORS

SEM-II

Day & Date	2015 Course Time-02.00 PM To 4.30 PM
Saturday 07/01/2023	Soft Computing and Deep Learning (410303)
	Information Systems Management (410403)
	Artificial Intelligence for Big Data Analytics (410503)
	Internet of Things Security (410603)
	Application Development using Augmented Reality and Virtual Reality (410703)

SEM-I

Day & Date	2015 Course Time-2.00 PM To 4.30 PM
Monday 09/01/2023	Machine Learning (410301)
	Internet of Things and Embedded Security (410401)
	Machine Learning and Data Science (410501)
	Machine Learning for Internet of Things (410601)
	Virtual Reality in Game Development (410701)

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:09/12/2022

Director
Board of Examinations And Evaluation