

# SAVITRIBAI PHULE PUNE UNIVERSITY

(Formerly University of Pune)



**EXAMINATION CIRCULAR NO. 277 OF. 2022**

**SECOND YEAR ENGINEERING (2019 PATTERN)**

**Examination of NOV/DEC-2022**

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

## INSTRUCTIONS FOR CANDIDATES

1. Candidates are required to be present at the examination centre, THIRTY MINUTES before the stipulated time.
2. Candidates are forbidden from taking any material into the examination hall that can be treated as a malpractice.
3. 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.
4. No request shall be granted for change in time or date for the University Examination on any ground.
5. Candidates are requested to note the Day, Date and Time of Paper.
6. Candidates are permitted to use stencils at the time of examination.
7. 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.
8. 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.
9. The written examination will be conducted in the following order.

**CIVIL**

SEMESTER - III

Time:-02.00 PM To 04.30 PM

Day & Date	Paper Code	Subject
Wednesday 25-01-2023	201001	Building Technology and Architectural Planning
Friday 27-01-2023	201002	Mechanics of structure
Saturday 28-01-2023	201003	Fluid Mechanics
Monday 30-01-2023	207001	Engineering Mathematics III
Tuesday 31-01-2023	207009	Engineering Geology

**CIVIL**

SEMESTER - IV

Time:-02.00 PM To 04.30 PM

Day & Date	Paper Code	Subject
Friday 06-01-2023	201008	Geotechnical Engineering
Saturday 07-01-2023	201009	Survey
Monday 09-01-2023	201010	Concrete Technology
Tuesday 10-01-2023	201011	Structural Analysis
Wednesday 11-01-2023	201012	Project management

## **ELECTRONICS / ELECTRONICS & TELECOMMUNICATIN**

SEMESTER - III

Time:-02.00 PM To 04.30 PM

<b>Day &amp; Date</b>	<b>Paper Code</b>	<b>Subject</b>
Wednesday 25-01-2023	207005	Engineering Mathematics III *
Friday 27-01-2023	204181	Electronic Circuits
Saturday 28-01-2023	204182	Digital Circuits*
Monday 30-01-2023	204183	Electrical Circuits
Tuesday 31-01-2023	204184	Data structures

## **ELECTRONICS / ELECTRONICS & TELECOMMUNICATIN**

SEMESTER - IV

Time:-02.00 PM To 04.30 PM

<b>Day &amp; Date</b>	<b>Paper Code</b>	<b>Subject</b>
Friday 06-01-2023	204191	Signals & Systems *
Saturday 07-01-2023	204192	Control Systems
Monday 09-01-2023	204193	Principles of Communication Systems *
Tuesday 10-01-2023	204194	Object Oriented Programming *

\* Common with Electronics & Computer

## ELECTRONICS & COMPUTER

SEMESTER - III

Time:-02.00 PM To 04.30 PM

Day & Date	Paper Code	Subject
Wednesday 25-01-2023	207005	Engineering Mathematics III *
Friday 27-01-2023	204202	Electronic Circuits
Saturday 28-01-2023	204182	Digital Circuits *
Monday 30-01-2023	204184	Data structures & Algorithms
Tuesday 31-01-2023	204203	Computer Organization

## ELECTRONICS & COMPUTER

SEMESTER - IV

Time:-02.00 PM To 04.30 PM

Day & Date	Paper Code	Subject
Friday 06-01-2023	204191	Signals & Systems *
Saturday 07-01-2023	204206	Principles of Programming Language
Monday 09-01-2023	204193	Principles of Communication System *
Tuesday 10-01-2023	204194	Object Oriented Programming *
Wednesday 11-01-2023	204207	System Programming & Operating Systems

\* Common with Electronics & ELECTRONICS & TELECOMMUNICATIN

**ELECTRICAL**

SEMESTER - III

Time:-02.00 PM To 04.30 PM

<b>Day &amp; Date</b>	<b>Paper Code</b>	<b>Subject</b>
Wednesday 25-01-2023	203141	Power Generation Technologies
Friday 27-01-2023	203142	Material Science
Saturday 28-01-2023	203143	Analog and Digital Electronics
Monday 30-01-2023	203144	Electrical Measurement & Instrumentation
Tuesday 31-01-2023	207006	Engineering Mathematics -III

**ELECTRICAL**

SEMESTER - IV

Time:-02.00 PM To 04.30 PM

<b>Day &amp; Date</b>	<b>Paper Code</b>	<b>Subject</b>
Friday 06-01-2023	203145	Power System - I
Saturday 07-01-2023	203146	Electrical Machines - I
Monday 09-01-2023	203147	Network Analysis
Tuesday 10-01-2023	203148	Numerical Methods & Computer Programming
Wednesday 11-01-2023	203149	Fundamental of Microcontroller and Applications

## INSTRUMENTATION

SEMESTER - III

Time:-02.00 PM To 04.30 PM

Day & Date	Paper Code	Subject
Wednesday 25-01-2023	206261	Sensors and Transducers
Friday 27-01-2023	206262	Linear Integrated Circuits
Saturday 28-01-2023	206263	Electrical Measurements & Instrumentation
Monday 30-01-2023	206264	Control System Components
Tuesday 31-01-2023	207008	Engineering Mathematics III

## INSTRUMENTATION

SEMESTER - IV

Time:-02.00 PM To 04.30 PM

Day & Date	Paper Code	Subject
Friday 06-01-2023	206268	Control Systems
Saturday 07-01-2023	206269	Digital Electronics
Monday 09-01-2023	206270	Process Loop Elements
Tuesday 10-01-2023	206271	Signals and Systems
Wednesday 11-01-2023	206272	Data Structures

**CHEMICAL**

SEMESTER - III

Time:-02.00 PM To 04.30 PM

Day & Date	Paper Code	Subject
Wednesday 25-01-2023	207004	Engineering Mathematics -III *
Friday 27-01-2023	209341	Industrial Chemistry I
Saturday 28-01-2023	209342	Fluid Mechanics
Monday 30-01-2023	209343	Engineering Materials
Tuesday 31-01-2023	209344	Process Calculations

**CHEMICAL**

SEMESTER - IV

Time:-02.00 PM To 04.30 PM

Day & Date	Paper Code	Subject
Friday 06-01-2023	209347	Industrial Chemistry II
Saturday 07-01-2023	209348	Heat Transfer
Monday 09-01-2023	209349	Principles of Design
Tuesday 10-01-2023	209350	Chemical Technology I
Wednesday 11-01-2023	209351	Mechanical Operations

\* Common with Printing &amp; Biotechnology

**COMPUTER**

SEMESTER - III

Time:-02.00 PM To 04.30 PM

Day & Date	Paper Code	Subject
Wednesday 25-01-2023	210241	Discrete Mathematics #
Friday 27-01-2023	210242	Fundamentals of Data Structures #
Saturday 28-01-2023	210243	Object Oriented Programming (OOP) #
Monday 30-01-2023	210244	Computer Graphics #
Tuesday 31-01-2023	210245	Digital Electronics and Logic Design

# Common with COMPUTER SCIENCE &amp; DESIGN ENGINEERING

**COMPUTER**

SEMESTER - IV

Time:-02.00 PM To 04.30 PM

Day & Date	Paper Code	Subject
Friday 06-01-2023	207003	Engineering Mathematics III *
Saturday 07-01-2023	210252	Data Structures and Algorithms #
Monday 09-01-2023	210253	Software Engineering #
Tuesday 10-01-2023	210254	Microprocessor
Wednesday 11-01-2023	210255	Principles of Programming Languages

\* Common with Information Technology

## INFORMATION TECHNOLOGY

SEMESTER - III

Time:-02.00 PM To 04.30 PM

Day & Date	Paper Code	Subject
Wednesday 25-01-2023	214441	Discrete Mathematics
Friday 27-01-2023	214442	Logic Design and Computer Organization
Saturday 28-01-2023	214443	Data Structures and Algorithms
Monday 30-01-2023	214444	Object Oriented Programming
Tuesday 31-01-2023	214445	Basic of Computer Network

## INFORMATION TECHNOLOGY

SEMESTER - IV

Time:-02.00 PM To 04.30 PM

Day & Date	Paper Code	Subject
Friday 06-01-2023	207003	Engineering Mathematics-III *
Saturday 07-01-2023	214451	Processor Architecture
Monday 09-01-2023	214452	Database Management System
Tuesday 10-01-2023	214453	Computer Graphics
Wednesday 11-01-2023	214454	Software Engineering

\* Common with Computer

## B.TECH. BIOTECHNOLOGY

SEMESTER - III

Time:-02.00 PM To 04.30 PM

Day & Date	Paper Code	Subject
Wednesday 25-01-2023	207004	Engineering Mathematics III *
Friday 27-01-2023	215461	Biochemistry I
Saturday 28-01-2023	215462	Fluid Flow & Unit Operations
Monday 30-01-2023	215463	Heat transfer
Tuesday 31-01-2023	215464	Microbiology

## B.TECH. BIOTECHNOLOGY

SEMESTER - IV

Time:-02.00 PM To 04.30 PM

Day & Date	Paper Code	Subject
Friday 06-01-2023	215470	Biochemistry II
Saturday 07-01-2023	215471	Cell Biology & Tissue Culture
Monday 09-01-2023	215472	Thermodynamics
Tuesday 10-01-2023	215473	Genetics & Molecular Biology

\* Common with Printing & Chemical

## PRODUCTION ENGINEERING AND INDUSTRIAL ENGINEERING

SEMESTER - III

Time:-02.00 PM To 04.30 PM

Day & Date	Paper Code	Subject
Wednesday 25-01-2023	207007	Engineering Mathematics -III *
Friday 27-01-2023	211081	Heat and Fluid Engineering *
Saturday 28-01-2023	211082	Strength of Materials *
Monday 30-01-2023	211083	Manufacturing Processes -I *
Tuesday 31-01-2023	211084	Materials Science and Metallurgy *

## PRODUCTION ENGINEERING AND INDUSTRIAL ENGINEERING

SEMESTER - IV

Time:-02.00 PM To 04.30 PM

Day & Date	Paper Code	Subject
Friday 06-01-2023	203050	Electrical and Electronics Engineering *
Saturday 07-01-2023	211091	Theory of Machines *
Monday 09-01-2023	211092	Design of Machine Elements *
Tuesday 10-01-2023	211093	Advanced Materials
Wednesday 11-01-2023	211094	Industrial Engineering and Management *

\* Common with Production Engineering (Sandwich)

## PRODUCTION ENGINEERING (SANDWICH)

SEMESTER - III

Time:-02.00 PM To 04.30 PM

Day & Date	Paper Code	Subject
Wednesday 25-01-2023	207007	Engineering Mathematics -III *
Friday 27-01-2023	211081	Heat and Fluid Engineering *
Saturday 28-01-2023	211082	Strength of Materials *
Monday 30-01-2023	211083	Manufacturing Processes -I *
Tuesday 31-01-2023	211084	Materials Science and Metallurgy *

## PRODUCTION ENGINEERING (SANDWICH)

SEMESTER - IV

Time:-02.00 PM To 04.30 PM

Day & Date	Paper Code	Subject
Friday 06-01-2023	203050	Electrical and Electronics Engineering *
Saturday 07-01-2023	211091	Theory of Machines *
Monday 09-01-2023	211092	Design of Machine Elements *
Tuesday 10-01-2023	211121	Manufacturing Process- II
Wednesday 11-01-2023	211094	Industrial Engineering and Management *

\* Common with Production Engineering

## PRINTING ENGINEERING

SEMESTER - III

Time:-02.00 PM To 04.30 PM

Day & Date	Paper Code	Subject
Wednesday 25-01-2023	207004	Engineering Mathematics III *
Friday 27-01-2023	202060	Theory of Printing Machine and M/c. Components
Saturday 28-01-2023	208281	Introduction to Printing Processes
Monday 30-01-2023	208282	Material Science in Printing and Packaging
Tuesday 31-01-2023	208283	Printing Digital Electronics

## PRINTING ENGINEERING

SEMESTER - IV

Time:-02.00 PM To 04.30 PM

Day & Date	Paper Code	Subject
Friday 06-01-2023	203155	Electrical Machines and Utilization
Saturday 07-01-2023	208286	Finishing Techniques
Monday 09-01-2023	208287	Introduction to Packaging Concepts
Tuesday 10-01-2023	208288	Microprocessor and Microcontroller Techniques in Printing
Wednesday 11-01-2023	208289	Print Production Techniques

\* Common with Printing & Chemical

## AUTOMATION & ROBOTICS

SEMESTER - III

Time:-02.00 PM To 04.30 PM

Day & Date	Paper Code	Subject
Wednesday 25-01-2023	202041	Solid Mechanics *
Friday 27-01-2023	202042	Solid Modeling and Drafting *
Saturday 28-01-2023	202521	Electrical Technology
Monday 30-01-2023	202044	Engineering Materials and Metallurgy *
Tuesday 31-01-2023	202522	Industrial Electronics

## AUTOMATION & ROBOTICS

SEMESTER - IV

Time:-02.00 PM To 04.30 PM

Day & Date	Paper Code	Subject
Friday 06-01-2023	202047	Kinematics of Machinery *
Saturday 07-01-2023	202524	Principles of Robotics
Monday 09-01-2023	202523	Fluid & Thermal Engineering
Tuesday 10-01-2023	202050	Manufacturing Processes *
Wednesday 11-01-2023	207002	Engineering Mathematics - III *

\* Common with Mechanical

## MECHATRONICS ENGINEERING

SEMESTER - III

Time:-02.00 PM To 04.30 PM

Day & Date	Paper Code	Subject
Wednesday 11-01-2023	207002	Engineering Mathematics -III *
Friday 27-01-2023	217542	Heat and Mass Transfer
Saturday 28-01-2023	217543	Digital Electronics
Monday 30-01-2023	217544	Analysis of Mechanical Structure
Tuesday 31-01-2023	217541	Engineering Material

## MECHATRONICS ENGINEERING

SEMESTER - IV

Time:-02.00 PM To 04.30 PM

Day & Date	Paper Code	Subject
Friday 06-01-2023	217547	Kinematics of Machinery
Saturday 07-01-2023	217548	Fluid Mechanics and Machinery
Monday 09-01-2023	217549	Electrical Machines and drive
Tuesday 10-01-2023	217550	Sensor and Actuator
Wednesday 25-01-2023	217551	Applications of Integrated Circuits

\* Common with Mechanical

## ARTIFICIAL INTELLIGENCE & DATA SCIENCE

SEMESTER - III

Time:-02.00 PM To 04.30 PM

Day & Date	Paper Code	Subject
Wednesday 25-01-2023	210241	Discrete Mathematics *
Friday 27-01-2023	210242	Fundamentals of Data Structures *
Saturday 28-01-2023	210243	Object Oriented Programming *
Monday 30-01-2023	210244	Computer Graphics *
Tuesday 31-01-2023	217521	Operating Systems

## ARTIFICIAL INTELLIGENCE & DATA SCIENCE

SEMESTER - IV

Time:-02.00 PM To 04.30 PM

Day & Date	Paper Code	Subject
Friday 06-01-2023	217528	Statistics
Saturday 07-01-2023	210252	Data Structures and Algorithms *
Monday 09-01-2023	210253	Software Engineering *
Tuesday 10-01-2023	217529	Internet of Things
Wednesday 11-01-2023	217530	Management Information System

\* Common with Computer

## ARTIFICIAL INTELLIGENCE & MACHINE LEARNING

SEMESTER - III

Time:-02.00 PM To 04.30 PM

Day & Date	Paper Code	Subject
Wednesday 25-01-2023	218541	Discrete Mathematics
Friday 27-01-2023	218542	Data Structures & Algorithms
Saturday 28-01-2023	218543	Computer Networks
Monday 30-01-2023	218544	Object Oriented Programming
Tuesday 31-01-2023	218545	Software Engineering

## ARTIFICIAL INTELLIGENCE & MACHINE LEARNING

SEMESTER - IV

Time:-02.00 PM To 04.30 PM

Day & Date	Paper Code	Subject
Friday 06-01-2023	207003	Engineering Mathematics-III *
Saturday 07-01-2023	218552	Operating Systems
Monday 09-01-2023	218553	Fundamentals of Artificial Intelligence and Machine Learning
Tuesday 10-01-2023	218554	Database Management System
Wednesday 11-01-2023	218555	Computer Graphics

\* Common with Computer

## ROBOTICS & AUTOMATION(RA)

SEMESTER - III

Time:-02.00 PM To 04.30 PM

Day & Date	Paper Code	Subject
Wednesday 25-01-2023	207007	Engineering Mathematics-III *
Friday 27-01-2023	211082	Strength of Materials
Saturday 28-01-2023	211501	Industrial Electronics and Electrical Technology
Monday 30-01-2023	211502	Manufacturing Technology
Tuesday 31-01-2023	211503	Materials Science and Engineering Metallurgy

## ROBOTICS & AUTOMATION(RA)

SEMESTER - IV

Time:-02.00 PM To 04.30 PM

Day & Date	Paper Code	Subject
Friday 06-01-2023	211508	Industrial Engineering and Management
Saturday 07-01-2023	211509	Control System Engineering
Monday 09-01-2023	211510	Design of Machine Elements
Tuesday 10-01-2023	211511	Metrology and Quality Assurance
Wednesday 11-01-2023	211512	Computer Graphics for Robotics

\* Common with Production Engineering

## AUTOMOBILE & MECHANICAL ENGINEERING

SEMESTER - III

Time:-02.00 PM To 04.30 PM

Day & Date	Paper Code	Subject
Wednesday 25-01-2023	202041	Solid Mechanics *
Friday 27-01-2023	202042	Solid Modeling and Drafting *
Saturday 28-01-2023	202043	Engineering Thermodynamics *
Monday 30-01-2023	202044	Engineering Materials and Metallurgy *
Tuesday 31-01-2023	203156	Electrical and Electronics Engineering *

## AUTOMOBILE & MECHANICAL ENGINEERING

SEMESTER - IV

Time:-02.00 PM To 04.30 PM

Day & Date	Paper Code	Subject
Friday 06-01-2023	202047	Kinematics of Machinery *
Saturday 07-01-2023	202048	Applied Thermodynamics
Monday 09-01-2023	202049	Fluid Mechanics
Tuesday 10-01-2023	202050	Manufacturing Processes
Wednesday 11-01-2023	207002	Engineering Mathematics - III *

\* Common with Mechanical Sandwich

## MECHANICAL SANDWICH

SEMESTER - III

Time:-02.00 PM To 04.30 PM

Day & Date	Paper Code	Subject
Wednesday 25-01-2023	202041	Solid Mechanics *
Friday 27-01-2023	202042	Solid Modeling and Drafting *
Saturday 28-01-2023	202043	Engineering Thermodynamics *
Monday 30-01-2023	202044	Engineering Materials and Metallurgy *
Tuesday 31-01-2023	203156	Electrical and Electronics Engineering *

## MECHANICAL SANDWICH

SEMESTER - IV

Time:-02.00 PM To 04.30 PM

Day & Date	Paper Code	Subject
Friday 06-01-2023	202047	Kinematics of Machinery *
Saturday 07-01-2023	202062	FLUID MECHANICS & MACHINERY
Monday 09-01-2023	202063	MANUFACTURING ENGINEERING
Tuesday 10-01-2023	202061	THERMAL ENGINEERING
Wednesday 11-01-2023	207002	Engineering Mathematics - III *

\* Common with Mechanical

# COMPUTER SCIENCE & DESIGN ENGINEERING

SEMESTER - III

Time:-02.00 PM To 04.30 PM

Day & Date	Paper Code	Subject
Wednesday 25-01-2023	210241	Discrete Mathematics *
Friday 27-01-2023	218242	Data Structure And Algorithms
Saturday 28-01-2023	210243	Object Oriented Programming (OOP) *
Monday 30-01-2023	210244	Computer Graphics *
Tuesday 31-01-2023	218245	Logic Design and Computer Architecture

\* Common with Computer Engineering

Ganeshkhind, Pune - 411 007

Ref.No/XCT :- 904

Date: 22 / 12 / 2022

Director,

Board of Examinations and Evaluation