

# **SAVITRIBAI PHULE PUNE UNIVERSITY**

**(Formerly University of Pune)**



**EXAMINATION CIRCULAR NO. 192 OF. 2023**

**THIRD YEAR ENGINEERING (2019 PATTERN)**

**End Sem Examination of April/May - 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.

## COMPUTER

### SEM-II

Day & Date	2019 Course Time : 11:00 AM To 01:30 PM
Wednesday 21-06-2023	Data Science and Big Data Analytics (310251)
Friday 23-06-2023	Web Technology (310252)
Monday 26-06-2023	Artificial Intelligence (310253)
Friday 30/06/2023	<b>ELECTIVE-II</b> Information Security (310254 A)
	<b>ELECTIVE-II</b> Augmented and Virtual Reality (310254 B)
	<b>ELECTIVE-II</b> Cloud Computing (310254 C) *
	<b>ELECTIVE-II</b> Software Modeling and Architectures (310254 D) *

### SEM-I

Day & Date	2019 Course Time : 11:00 AM To 01:30 PM
Tuesday 06-06-2023	Database Management Systems (310241) *
Thursday 08-06-2023	Theory of Computation (310242)
Saturday 10-06-2023	Systems Programming and Operating System (310243)
Tuesday 13-06-2023	Computer Networks and Security (310244)
Thursday 15-06-2023	<b>ELECTIVE-I</b> Internet of Things and Embedded Systems (310245 A)
	<b>ELECTIVE-I</b> Human Computer Interface (310245 B)
	<b>ELECTIVE-I</b> Distributed Systems (310245 C)
	<b>ELECTIVE-I</b> Software Project Management (310245 D)

**Note :-** \* Common with A.I.D.S.

## ELECTRONICS & TELECOMMUNICATION

### SEM-II

Day & Date	2019 Course Time : 11:00 AM To 01:30 PM
Wednesday 21-06-2023	Cellular Networks (304192)
Friday 23-06-2023	Project Management (304193)
Monday 26-06-2023	Power Devices & Circuits (304194)
Friday 30/06/2023	<b>ELECTIVE-II</b> Digital Image Processing (304195)
	<b>ELECTIVE-II</b> Sensors in Automation (304195 )
	<b>ELECTIVE-II</b> Advanced JAVA Programming (304195) *
	<b>ELECTIVE-II</b> Embedded Processors (304195 )
	<b>ELECTIVE-II</b> Network Security (304195)
<b>Note :-</b> * Common with Electronics	

### SEM-I

Day & Date	2019 Course Time : 11:00 AM To 01:30 PM
Tuesday 06-06-2023	Digital Communication (304181)
Thursday 08-06-2023	Electromagnetic Field Theory (304182)
Saturday 10-06-2023	Database Management (304183) *
Tuesday 13-06-2023	Microcontrollers (304184)
Thursday 15-06-2023	<b>ELECTIVE-I</b> Digital Signal Processing (304185 )
	<b>ELECTIVE-I</b> Electronic Measurements (304185 )
	<b>ELECTIVE-I</b> Fundamentals of JAVA Programming (304185 ) *
	<b>ELECTIVE-I</b> Computer Networks (304185 )
<b>Note :-</b> * Common with Electronics	

## INFORMATION TECHNOLOGY

### SEM-II

Day & Date	2019 Course Time : 11:00 AM To 01:30 PM
Wednesday 21-06-2023	Computer Networks & Security (314451)
Friday 23-06-2023	Data Science and Big Data Analytics (314452)
Monday 26-06-2023	Web Application Development (414464A)
Friday 30/06/2023	<b>ELECTIVE-II</b> Artificial Intelligence (314454 A)
	<b>ELECTIVE-II</b> Cyber Security (314454 B)
	<b>ELECTIVE-II</b> Cloud Computing (314454 C)
	<b>ELECTIVE-II</b> Software Modeling and Design (314454 D)

### SEM-I

Day & Date	2019 Course Time : 11:00 AM To 01:30 PM
Tuesday 06-06-2023	Theory of Computation (314441)
Thursday 08-06-2023	Operating Systems (314442)
Saturday 10-06-2023	Machine Learning (314443)
Tuesday 13-06-2023	Human Computer Interaction (314444)
Thursday 15-06-2023	<b>ELECTIVE-I</b> Design and Analysis of Algorithm (314445 A)
	<b>ELECTIVE-I</b> Advanced Database and Management System (314445 B)
	<b>ELECTIVE-I</b> Design Thinking (314445 C)
	<b>ELECTIVE-I</b> Internet of Things (314445 D)

## MECHANICAL

### SEM-II

Day & Date	2019 Course Time : 11:00 AM To 01:30 PM
Wednesday 21-06-2023	Artificial Intelligence & Machine Learning (302049)
Friday 23-06-2023	Computer Aided Engineering (302050)
Monday 26-06-2023	Design of Transmission Systems (302051)
Friday 30/06/2023	<b>ELECTIVE-II</b> Composite Materials (302052-A)
	<b>ELECTIVE-II</b> Surface Engineering (302052-B)

### SEM-I

Day & Date	2019 Course Time : 11:00 AM To 01:30 PM
Tuesday 06-06-2023	Numerical & Statistical Methods (302041) *
Thursday 08-06-2023	Heat & Mass Transfer (302042) *
Saturday 10-06-2023	Design of Machine Elements (302043) *
Tuesday 13-06-2023	Mechatronics (302044) *
Thursday 15-06-2023	<b>ELECTIVE-I</b> Advanced Forming & Joining Processes (302045-A)
	<b>ELECTIVE-I</b> Machining Science & Technology (302045-B)

NOTE:- \* **Common to Mechanical Sandwich Engineering**

## HONORS / MINORS

### SEM-I

<b>Day &amp; Date</b>	<b>Honors / Minors</b>	<b>2019 Course Time : 11:00 AM To 01:30 PM</b>
Saturday 17-06-2023	Artificial Intelligence And Machine	Computational Statistics (310301)
	Cyber Security	Information and Cyber Security (310401)
	Data Science	Data Science and Visualization (310501)
	Internet of Things	Embedded Systems and Internet of Things (310601)
	Virtual Reality And Augmented Reality	Virtual Reality (310701)
	Systems Engineering	Foundations of systems & systems engineering (302041MJ)
	Energy Management in Utility Systems	Energy Management (302021MJ)
	Electric Vehicles	e-Vehicle Technology (302031MJ)
	3D Printing	Additive Manufacturing Technology (302011MJ)
	Robotics	Principles of Robotics (304181 HR)
	Block Chain Technology	Introduction to Block chain (304181 HBCT)
	Metro Construction	Surveying in Metro construction (301301)
	Architecture and Town Planning	Urban Housing and Infrastructure Planning (301401)
	Advanced Packaging Technology	Internet of Things (308211)

## HONORS / MINORS

SEM-II

Day & Date	Honors / Minors	2019 Course Time : 11:00 AM To 01:30 PM
Tuesday 04/07/2023	Artificial Intelligence And Machine	Artificial Intelligence (310303)
	Cyber Security	Enterprise Architecture and Components (310403)
	Data Science	Statistics and Machine Learning (310503)
	Internet of Things	Internet of Things Architectures, Protocols and Systems Programming (310603)
	Virtual Reality And Augmented Reality	Augmented Reality (310703)
	Systems Engineering	Model Based Systems Engineering (302043MJ)
	Energy Management in Utility Systems	Energy Efficiency of Thermal Utilities (302023MJ)
	Electric Vehicles	e-Vehicle System Design (302033MJ)
	3D Printing	Design for Additive Manufacturing (302013MJ)
	Robotics	Robot Programming & Simulation (304183 HR)
	Block Chain Technology	Decentralize & Blockchain Technologies (304183 HBCT)
	Metro Construction	Planning and Quantity estimation for metro construction (301303)
	Architecture and Town Planning	Sustainable Architecture and Landscape Design (301403)
	Advanced Packaging Technology	Smart Packaging (308213)

Ganeshkhind, Pune - 411 007

Ref.No/ XCT/399

Date: 10 / 05 / 2023

Director

Board of Examinations and Evaluation