

SAVITRIBAI PHULE PUNE UNIVERSITY

(Formerly University of Pune)



EXAMINATION CIRCULAR NO. 211 OF. 2022

THIRD YEAR ENGINEERING (2019 PATTERN)

Examination of INSEM SEPT./OCT-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-I

Day & Date	2019 Course TIME 11.00 a.m. To 12.00 noon
Monday, 03/10/2022	Numerical & Optimization Methods (316481)
Tuesday, 04/10/2022	Heat Transfer (316482)
Thursday, 06/10/2022	Design of Machine Components (316483)
Friday, 07/10/2022	Automobile Electrical and Electronics (316484)
Monday, 10/10/2022	ELECTIVE-I Advanced Forming & Joining Processes (302045-A)**
	ELECTIVE-I Machining Science and Technology (302045-B) **

Note :- ** Common with Mechanical Engineering

CHEMICAL

SEM-I

Day & Date	2019 Course TIME 11.00 a.m. To 12.00 noon
Monday, 03/10/2022	Mass Transfer-I (309341)
Tuesday, 04/10/2022	Chemical Technology -II (309342)
Thursday, 06/10/2022	Chemical Engineering Mathematics (309343)
Friday, 07/10/2022	Chemical Engineering Thermodynamics (309344)
Monday, 10/10/2022	ELECTIVE-I Chemical Industry Management (409345A)
	ELECTIVE-I Food Technology (309345 B)
	ELECTIVE-I Polymer Engineering (309345 C)
	ELECTIVE-I Downstream Processing (309345 D)

CIVIL

SEM-I

Day & Date	2019 Course TIME 11.00 a.m. To 12.00 noon
Monday, 03/10/2022	Hydrology and Water Resources Engineering (301001)
Tuesday, 04/10/2022	Water Supply Engineering (301002)
Thursday, 06/10/2022	Design of Steel Structures (301003)
Friday, 07/10/2022	Engineering Economics and Financial Management (301004)
Monday, 10/10/2022	ELECTIVE-I Advanced Fluid Mechanics and Hydraulic Machines (301005 a)
	ELECTIVE-I Research Methodology and IPR (301005 b)
	ELECTIVE-I Construction Management. (301005 c)
	ELECTIVE-I Advanced Concrete Technology (301005 d)
	ELECTIVE-I Matrix Methods of Structural Analysis (301005 e)
	ELECTIVE-I Advanced Mechanics of Structures (301005 f)

COMPUTER

SEM-I

Day & Date	2019 Course TIME 11.00 a.m. To 12.00 noon
Monday, 03/10/2022	Database Management Systems (310241) *
Tuesday, 04/10/2022	Theory of Computation (310242)
Thursday, 06/10/2022	Systems Programming and Operating System (310243)
Friday, 07/10/2022	Computer Networks and Security (310244)
Monday, 10/10/2022	ELECTIVE-I Internet of Things and Embedded Systems (310245 A)
	ELECTIVE-I Human Computer Interface (310245 B)
	ELECTIVE-I Distributed Systems (310245 C)
	ELECTIVE-I Software Project Management (310245 D)

Note :- * Common with Artificial Intelligence and Data Science Engineering

ELECTRICAL

SEM-I

Day & Date	2019 Course TIME 11.00 a.m. To 12.00 noon
Monday, 03/10/2022	Industrial and Technology Management (303141)
Tuesday, 04/10/2022	Power Electronics (303142)
Thursday, 06/10/2022	Electrical Machines-II (303143)
Friday, 07/10/2022	Electrical Installation Design and Condition Based Maintenance (303144)
Monday, 10/10/2022	ELECTIVE-I Advanced Microcontroller and Embedded System (303145 A)
	ELECTIVE-I Digital Signal Processing (303145 B)
	ELECTIVE-I Open Elective (303145 C)

ELECTRONICS

SEM-I

Day & Date	2019 Course TIME 11.00 a.m. To 12.00 noon
Monday, 03/10/2022	Power and Industrial Electronics (304201)
Tuesday, 04/10/2022	Electromagnetic Waves and Propagation Theory (404202)
Thursday, 06/10/2022	Database Management (304183) *
Friday, 07/10/2022	Microcontrollers and Applications (304204)
Monday, 10/10/2022	ELECTIVE-I Instrumentation systems (304205)
	ELECTIVE-I Machine Learning (304205)
	ELECTIVE-I Fundamentals of JAVA Programming (304185) *
	ELECTIVE-I Data Communication (304205)
	ELECTIVE-I Computer Networks (304205)
Note :- * Common with E&TC Engineering	

ELECTRONICS & TELECOMMUNICATION

SEM-I

Day & Date	2019 Course TIME 11.00 a.m. To 12.00 noon
Monday, 03/10/2022	Digital Communication (304181)
Tuesday, 04/10/2022	Electromagnetic Field Theory (304182)
Thursday, 06/10/2022	Database Management (304183) *
Friday, 07/10/2022	Microcontrollers (304184)
Monday, 10/10/2022	ELECTIVE-I Digital Signal Processing (304185)
	ELECTIVE-I Electronic Measurements (304185)
	ELECTIVE-I Fundamentals of JAVA Programming (304185) *
	ELECTIVE-I Computer Networks (304185)
Note :- * Common with Electronics Engineering	

INFORMATION TECHNOLOGY

SEM-I

Day & Date	2019 Course TIME 11.00 a.m. To 12.00 noon
Monday, 03/10/2022	Theory of Computation (314441)
Tuesday, 04/10/2022	Operating Systems (314442)
Thursday, 06/10/2022	Machine Learning (314443)
Friday, 07/10/2022	Human Computer Interaction (314444)
Monday, 10/10/2022	ELECTIVE-I Design and Analysis of Algorithm (314445 A)
	ELECTIVE-I Advanced Database and Management System (314445 B)
	ELECTIVE-I Design Thinking (314445 C)
	ELECTIVE-I Internet of Things (314445 D)

INSTRUMENTATION & CONTROL

SEM-I

Day & Date	2019 Course TIME 11.00 a.m. To 12.00 noon
Monday, 03/10/2022	Embedded Systems (306261)
Tuesday, 04/10/2022	Industrial Automation-I (306262)
Thursday, 06/10/2022	Modern Control Theory (306263)
Friday, 07/10/2022	Operating System (306264)
Monday, 10/10/2022	ELECTIVE-I Mechatronics & Robotics (306265 A)
	ELECTIVE-I Data Science (306265 B)
	ELECTIVE-I Power Electronics (306265 C)
	ELECTIVE-I Bio-Medical Instrumentation (306265 D)

MECHANICAL

SEM-I

Day & Date	2019 Course TIME 11.00 a.m. To 12.00 noon
Monday, 03/10/2022	Numerical & Statistical Methods (302041) *
Tuesday, 04/10/2022	Heat & Mass Transfer (302042) *
Thursday, 06/10/2022	Design of Machine Elements (302043) *
Friday, 07/10/2022	Mechatronics (302044) *
Monday, 10/10/2022	ELECTIVE-I Advanced Forming & Joining Processes (302045-A) **
	ELECTIVE-I Machining Science & Technology (302045-B) **

NOTE:- * **Common With Mechanical Sandwich Engineering**
** **Common with Automobile Engineering**

MECHANICAL-SANDWICH

SEM-I

Day & Date	2019 Course TIME 11.00 a.m. To 12.00 noon
Monday, 03/10/2022	Numerical & Statistical Methods (302041) *
Tuesday, 04/10/2022	Heat & Mass Transfer (302042) *
Thursday, 06/10/2022	Design of Machine Elements (302043) *
Friday, 07/10/2022	Mechatronics (302044) *
Monday, 10/10/2022	Fundamentals of Computer Aided Engineering (302061)

NOTE:- * **Common With Mechanical Engineering**

B. Tech. Biotechnology

SEM-I

Day & Date	2019 Course TIME 11.00 a.m. To 12.00 noon
Monday, 03/10/2022	Analytical Techniques (315461)
Tuesday, 04/10/2022	Material Balances and Stoichiometry (315462)
Thursday, 06/10/2022	Genetic Engineering (315463)
Friday, 07/10/2022	Introduction to Immunology (315464)
Monday, 10/10/2022	ELECTIVE-I Enzyme Technology (315465 A)
	ELECTIVE-I Good Laboratory Practices and Good Manufacturing Practices (315465 B)
	ELECTIVE-I Agricultural Biotechnology (315465 C)

Printing

SEM-I

Day & Date	2019 Course TIME 11.00 a.m. To 12.00 noon
Monday, 03/10/2022	Print Statistics (308281)
Tuesday, 04/10/2022	Offset Printing Techniques (308282)
Thursday, 06/10/2022	Color Science and Measurement (308283)
Friday, 07/10/2022	Ink Technology (308284)
Monday, 10/10/2022	ELECTIVE-I Cyber Security (308286 A)
	ELECTIVE-I Wood, Glass and Metal Based Packaging (308286 B)
	ELECTIVE-I Engineering Ethics (308286 C)

Production

SEM-I

Day & Date	2019 Course TIME 11.00 a.m. To 12.00 noon
Monday, 03/10/2022	Engineering Metrology and Instrumentation (311081 (A))
Tuesday, 04/10/2022	Material Forming Technology (311082 (A))
Thursday, 06/10/2022	Machining Science and Technology (311083 (A))
Friday, 07/10/2022	Kinematics and Design of Machines (311084 (A))
Monday, 10/10/2022	ELECTIVE-I Finite Element Analysis (311085 (A)-I)
	ELECTIVE-I Advances in Manufacturing Processes (311085 (A)-II)
	ELECTIVE-I Mechatronics (311085 (A)-III)
	ELECTIVE-I Supply Chain Management (311085 (A)-IV)

Production Sandwich

SEM-I

Day & Date	2019 Course TIME 11.00 a.m. To 12.00 noon
Monday, 03/10/2022	Manufacturing Technology (Self Study) [311122] (A)

Electronics and Computer Engineering

SEM-I

Day & Date	2019 Course TIME 11.00 a.m. To 12.00 noon
Monday, 03/10/2022	Database Management Systems [310341]
Tuesday, 04/10/2022	Advanced Java Programming [310342]
Thursday, 06/10/2022	Data Communication [310343]
Friday, 07/10/2022	Microcontroller and Applications [310344]
Monday, 10/10/2022	ELECTIVE-I Distributed Systems [310345 A]
	ELECTIVE-I Block Chain Technology [310345 B]
	ELECTIVE-I Digital Signal Processing [310345 C]
	ELECTIVE-I Sensors and Applications [310345 D]

Mechatronics Engineering

SEM-I

Day & Date	2019 Course TIME 11.00 a.m. To 12.00 noon
Monday, 03/10/2022	Machine Design [317541]
Tuesday, 04/10/2022	Manufacturing Processes [317542]
Thursday, 06/10/2022	Control System [317543]
Friday, 07/10/2022	Digital Signal Processing [317544]
Monday, 10/10/2022	Microcontrollers [317545]

Robotics and Automation Engineering

SEM-I

Day & Date	2019 Course TIME 11.00 a.m. To 12.00 noon
Monday, 03/10/2022	Embedded systems in Robotics [311501] (A)
Tuesday, 04/10/2022	Hydraulics and Pneumatics [311502] (A)
Thursday, 06/10/2022	Robot Kinematics and Dynamics [311503] (A)
Friday, 07/10/2022	Sensors Technology [311504] (A)
Monday, 10/10/2022	ELECTIVE-I Statistics and Numerical Methods [311505] (A)-I
	ELECTIVE-I Finite Element Analysis [311505] (A)-II
	ELECTIVE-I Industrial Robotics and Material handling Systems [311505] (A)-III
	ELECTIVE-I Intelligent Manufacturing System [311505] (A)-IV

Artificial Intelligence and Data Science

SEM-I

Day & Date	2019 Course TIME 11.00 a.m. To 12.00 noon
Monday, 03/10/2022	Data Base Management System [310241] *
Tuesday, 04/10/2022	Computer Networks [317521]
Thursday, 06/10/2022	Web Technology [310252]
Friday, 07/10/2022	Artificial Intelligence [310253]
Monday, 10/10/2022	ELECTIVE-I Embedded Systems & Security [317522] (A)
	ELECTIVE-I Design Thinking [314445] (C)
	ELECTIVE-I Pattern Recognition [317522] (B)
	ELECTIVE-I Human Computer Interface [310245] (B)

Note :- * Common with Computer Engineering

Artificial Intelligence and Machine Learning

SEM-I

Day & Date	2019 Course TIME 11.00 a.m. To 12.00 noon
Monday, 03/10/2022	Design and analysis of Algorithm [318541]
Tuesday, 04/10/2022	IoT with Artificial Intelligence [318542]
Thursday, 06/10/2022	Web Technology [318543]
Friday, 07/10/2022	Management & Entrepreneurship for IT Industry [318544]
Monday, 10/10/2022	ELECTIVE-I Robotics [318545] (A)
	ELECTIVE-I Pattern Recognition [318545] (B)
	ELECTIVE-I Information Security [318545] (C)
	ELECTIVE-I Business Intelligence [318545] (D)

HONORS / MINORS**SEM-I**

Day & Date	Honors / Minors	TIME 11.00 a.m. To 12.00 noon
Tuesday, 11/10/2022	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)

Ganeshkhind, Pune - 411 007

Ref.No/ XCT / 609

Date: 17 / 09 / 2022

Director

Board of Examinations and Evaluation