

SAVITRIBAI PHULE PUNE UNIVERSITY

(Formerly University of Pune)



EXAMINATION CIRCULAR NO. 382 OF. 2023

THIRD YEAR ENGINEERING (2019 PATTERN)

Endsem Examination of Nov / Dec - 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.

CIVIL

SEM-I

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Wednesday 29/11/2023	Hydrology and Water Resources Engineering (301001)
Friday 01/12/2023	Water Supply Engineering (301002)
Monday 04/12/2023	Design of Steel Structures (301003) # (Time : 10:00 AM To 01:00 PM)
Wednesday 06/12/2023	Engineering Economics and Financial Management (301004)
Saturday 09/12/2023	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)

Note : - # Please Note the time

SEM-II

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Tuesday 12/12/2023	Waste Water Engineering (301012)
Wednesday 13/12/2023	Design of RC Structures (301013) # (Time : 10:00 AM To 01:00 PM)
Thursday 14/12/2023	Remote Sensing and GIS (301014)
Friday 15/12/2023	ELECTIVE-II Advanced Engineering Geology with Rock Mechanics (301015 a)
	ELECTIVE-II Soft Computing Techniques (301015 b)
	ELECTIVE-II Advanced Surveying. (301015 c)
	ELECTIVE-II Advanced Geotechnical Engineering (301015 d)
	ELECTIVE-II Architecture and Town Planning (301015 e)
	ELECTIVE-II Solid Waste Management (301015 f)

Note : - # Please Note the time

CHEMICAL

SEM-I

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Wednesday 29/11/2023	Mass Transfer-I (309341)
Friday 01/12/2023	Chemical Technology -II (309342)
Monday 04/12/2023	Chemical Engineering Mathematics (309343)
Wednesday 06/12/2023	Chemical Engineering Thermodynamics (309344)
Saturday 09/12/2023	ELECTIVE-I Chemical Industry Management (309345A)
	ELECTIVE-I Food Technology (309345 B)
	ELECTIVE-I Polymer Engineering (309345 C)
	ELECTIVE-I Downstream Processing (309345 D)

SEM-II

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Tuesday 12/12/2023	Chemical Reaction Engineering I (309348)
Wednesday 13/12/2023	Mass Transfer II (309349)
Thursday 14/12/2023	Transport Phenomena (309350)
Friday 15/12/2023	ELECTIVE-II Energy Conservation in Chemical Process Industries (309351 A)
	ELECTIVE-II Process Instrumentation and Control (309351 B)
	ELECTIVE-II Corrosion Engineering (309351 C)
	ELECTIVE-II Artificial intelligence and Data Science (309351 D)

COMPUTER

SEM-I

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Wednesday 29/11/2023	Database Management Systems (310241) *
Friday 01/12/2023	Theory of Computation (310242)
Monday 04/12/2023	Systems Programming and Operating System (310243)
Wednesday 06/12/2023	Computer Networks and Security (310244)
Saturday 09/12/2023	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 A.I.D.S.

SEM-II

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Tuesday 12/12/2023	Data Science and Big Data Analytics (310251)
Wednesday 13/12/2023	Web Technology (310252)
Thursday 14/12/2023	Artificial Intelligence (310253)
Friday 15/12/2023	ELECTIVE-II Information Security (310254 A)
	ELECTIVE-II Augmented and Virtual Reality (310254 B)
	ELECTIVE-II Cloud Computing (310254 C) *
	ELECTIVE-II Software Modeling and Architectures (310254 D)*

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

Artificial Intelligence and Data Science

SEM-I

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Wednesday 29/11/2023	Data Base Management System (310241) *
Friday 01/12/2023	Computer Networks (317521)
Monday 04/12/2023	Web Technology (310252)
Wednesday 06/12/2023	Artificial Intelligence (310253)
Saturday 09/12/2023	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

SEM-II

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Tuesday 12/12/2023	Data Science (317529)
Wednesday 13/12/2023	Cyber security (317530)
Thursday 14/12/2023	Artificial Neural Network (317531)
Friday 15/12/2023	ELECTIVE-II Robotics and Automation (317532 A)
	ELECTIVE-II Natural Language Processing (317532B)
	ELECTIVE-II Cloud Computing (310254 C) *
	ELECTIVE-II Software Modeling and Architecture (310254 D)*

Note :- * Common with Computer Engineering

ELECTRICAL

SEM-I

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Wednesday 29/11/2023	Industrial and Technology Management (303141)
Friday 01/12/2023	Power Electronics (303142)
Monday 04/12/2023	Electrical Machines-II (303143)
Wednesday 06/12/2023	Electrical Installation Design and Condition Based Maintenance (303144)
Saturday 09/12/2023	ELECTIVE-I Advanced Microcontroller and Embedded System (303145 A)
	ELECTIVE-I Digital Signal Processing (303145 B)
	ELECTIVE-I Open Elective (303145 C)

SEM-II

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Tuesday 12/12/2023	Power System-II (303148)
Wednesday 13/12/2023	Computer Aided Design of Electrical Machines (303149)
Thursday 14/12/2023	Control System Engineering (303150)
Friday 15/12/2023	ELECTIVE-II IoT and its Applications in Electrical Engineering (303151 A)
	ELECTIVE-II Electrical Mobility (303151 B)
	ELECTIVE-II Cybernetic Engineering (303151 C)
	ELECTIVE-II Energy Management (303151 D)

ELECTRONICS

SEM-I

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Wednesday 29/11/2023	Power and Industrial Electronics (304201)
Friday 01/12/2023	Electromagnetic Waves and Propagation Theory (304202)
Monday 04/12/2023	Database Management (304183) *
Wednesday 06/12/2023	Microcontrollers and Applications (304204)
Saturday 09/12/2023	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	

SEM-II

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Tuesday 12/12/2023	Fundamentals of HDL (304212)
Wednesday 13/12/2023	Embedded Processors and Applications (304213)
Thursday 14/12/2023	Industrial Management (304214)
Friday 15/12/2023	ELECTIVE-II PLC & Automation (304215)
	ELECTIVE-II Advanced JAVA Programming (304195) *
	ELECTIVE-II Digital Signal Processing (304215)
	ELECTIVE-II Fiber Optic Communication (304215)
	ELECTIVE-II e Mobility (304215)

Note : *Common with E&TC

ELECTRONICS & TELECOMMUNICATION

SEM-I

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Wednesday 29/11/2023	Digital Communication (304181)
Friday 01/12/2023	Electromagnetic Field Theory (304182)
Monday 04/12/2023	Database Management (304183) *
Wednesday 06/12/2023	Microcontrollers (304184)
Saturday 09/12/2023	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	

SEM-II

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Tuesday 12/12/2023	Cellular Networks (304192)
Wednesday 13/12/2023	Project Management (304193)
Thursday 14/12/2023	Power Devices & Circuits (304194)
Friday 15/12/2023	ELECTIVE-II Digital Image Processing (304195)
	ELECTIVE-II Sensors in Automation (304195)
	ELECTIVE-II Advanced JAVA Programming (304195) *
	ELECTIVE-II Embedded Processors (304195)
	ELECTIVE-II Network Security (304195)
Note :- * Common with Electronics	

Electronics and Computer Engineering

SEM-I

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Wednesday 29/11/2023	Database Management Systems (310341)
Friday 01/12/2023	Advanced Java Programming (310342)
Monday 04/12/2023	Data Communication (310343)
Wednesday 06/12/2023	Microcontroller and Applications (310344)
Saturday 09/12/2023	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)

SEM-II

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Tuesday 12/12/2023	Software Engineering and Project Management (310352)
Wednesday 13/12/2023	Computer Networks and Security (310353)
Thursday 14/12/2023	Embedded Processors & Applications (310354)
Friday 15/12/2023	ELECTIVE-II Software Modeling and Design (310355 A)
	ELECTIVE-II Advanced Database Management Systems (310355 B)
	ELECTIVE-II Power Electronics (310355 C)
	ELECTIVE-II PLC and Automation (310355 D)

INFORMATION TECHNOLOGY

SEM-I

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Wednesday 29/11/2023	Theory of Computation (314441)
Friday 01/12/2023	Operating Systems (314442)
Monday 04/12/2023	Machine Learning (314443)
Wednesday 06/12/2023	Human Computer Interaction (314444)
Saturday 09/12/2023	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)

SEM-II

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Tuesday 12/12/2023	Computer Networks & Security (314451)
Wednesday 13/12/2023	Data Science and Big Data Analytics (314452)
Thursday 14/12/2023	Web Application Development (314464A)
Friday 15/12/2023	ELECTIVE-II Artificial Intelligence (314454 A)
	ELECTIVE-II Cyber Security (314454 B)
	ELECTIVE-II Cloud Computing (314454 C)
	ELECTIVE-II Software Modeling and Design (314454 D)

INSTRUMENTATION & CONTROL

SEM-I

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Wednesday 29/11/2023	Embedded Systems (306261)
Friday 01/12/2023	Industrial Automation-I (306262)
Monday 04/12/2023	Modern Control Theory (306263)
Wednesday 06/12/2023	Operating System (306264)
Saturday 09/12/2023	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)

SEM-II

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Tuesday 12/12/2023	Internet of Things (306268)
Wednesday 13/12/2023	Industrial Automation-II (306269)
Thursday 14/12/2023	Digital Signal Processing (306270)
Friday 15/12/2023	ELECTIVE-II Building Automation (306271 A)
	ELECTIVE-II Machine Learning (306271 B)
	ELECTIVE-II Electrical Drives (306271 C)
	ELECTIVE-II Analytical Instrumentation (306271 D)

AUTOMOBILE

SEM-I

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Wednesday 29/11/2023	Numerical & Optimization Methods (316481)
Friday 01/12/2023	Heat Transfer (316482)
Monday 04/12/2023	Design of Machine Components (316483)
Wednesday 06/12/2023	Automobile Electrical and Electronics (316484)
Saturday 09/12/2023	ELECTIVE-I Advanced Forming & Joining Processes (302045-A)*
	ELECTIVE-I Machining Science and Technology (302045-B)*

Note :- * Common with Mechanical

SEM-II

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Tuesday 12/12/2023	Automotive Refrigeration and Air Conditioning (316485)
Wednesday 13/12/2023	Automotive Chassis and Transmission (316486)
Thursday 14/12/2023	Design of Engine Components (316487)
Friday 15/12/2023	ELECTIVE-II Automotive Aerodynamics and Body Engineering (316488-A)
	ELECTIVE-II Automotive Materials (316488-B)

MECHANICAL

SEM-I

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Wednesday 29/11/2023	Numerical & Statistical Methods (302041) *
Friday 01/12/2023	Heat & Mass Transfer (302042) *
Monday 04/12/2023	Design of Machine Elements (302043) *
Wednesday 06/12/2023	Mechatronics (302044) *
Saturday 09/12/2023	ELECTIVE-I Advanced Forming & Joining Processes (302045-A) **
	ELECTIVE-I Machining Science & Technology (302045-B) **

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

SEM-II

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Tuesday 12/12/2023	Artificial Intelligence & Machine Learning (302049)
Wednesday 13/12/2023	Computer Aided Engineering (302050)
Thursday 14/12/2023	Design of Transmission Systems (302051) # (Time : 10:00 AM To 01:00 PM)
Friday 15/12/2023	ELECTIVE-II Composite Materials (302052-A)
	ELECTIVE-II Surface Engineering (302052-B)

Note : - # Please Note the time

MECHANICAL-SANDWICH

SEM-I

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Wednesday 29/11/2023	Numerical & Statistical Methods (302041) *
Friday 01/12/2023	Heat & Mass Transfer (302042) *
Monday 04/12/2023	Design of Machine Elements (302043) *
Wednesday 06/12/2023	Mechatronics (302044) *
Saturday 09/12/2023	Fundamentals of Computer Aided Engineering (302061)

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

SEM-II

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Tuesday 12/12/2023	Process Planning & Tool Selection (Self-Study-I) (302066)
Wednesday 13/12/2023	Advanced Materials & Manufacturing (Self-Study-II) (302067)

Automation and Robotics

SEM-I

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Wednesday 29/11/2023	Design of Robot Elements (302521)
Friday 01/12/2023	Robot Kinematics and Dynamics (302522)
Monday 04/12/2023	Computer Aided Engineering and Manufacturing (302523)
Wednesday 06/12/2023	Signal Processing and Conditioning (302524)
Saturday 09/12/2023	ELECTIVE-I Advanced Forming & Joining Processes (302525-A)
	ELECTIVE-I Optimization Techniques (302525-B)

SEM-II

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Tuesday 12/12/2023	Sensors and Vision Systems in Robots (302527)
Wednesday 13/12/2023	Artificial Intelligence in Robots (302528)
Thursday 14/12/2023	Modelling and Simulation (302529)
Friday 15/12/2023	ELECTIVE-II Machining Science and Technology (302530-A)
	ELECTIVE-II Maintenance and Safety Engineering (302530-B)

B. Tech. Biotechnology

SEM-I

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Wednesday 29/11/2023	Analytical Techniques (315461)
Friday 01/12/2023	Material Balances and Stoichiometry (315462)
Monday 04/12/2023	Genetic Engineering (315463)
Wednesday 06/12/2023	Introduction to Immunology (315464)
Saturday 09/12/2023	ELECTIVE-I Enzyme Technology (315465 A)
	ELECTIVE-I Good Laboratory Practices and Good Manufacturing Practices (315465 B)
	ELECTIVE-I Agricultural Biotechnology (315465 C)

SEM-II

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Tuesday 12/12/2023	Fermentation Technology (315471)
Wednesday 13/12/2023	Mass Transfer (315472)
Thursday 14/12/2023	Bioseparation Engineering (315473)
Friday 15/12/2023	ELECTIVE-II Instrumentation and Process Control (315474 A)
	ELECTIVE-II Food Biotechnology (315474 B)
	ELECTIVE-II Data base management systems (315474 C)

Printing

SEM-I

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Wednesday 29/11/2023	Print Statistics (308281)
Friday 01/12/2023	Offset Printing Techniques (308282)
Monday 04/12/2023	Color Science and Measurement (308283)
Wednesday 06/12/2023	Ink Technology (308284)
Saturday 09/12/2023	ELECTIVE-I Cyber Security (308286 A)
	ELECTIVE-I Wood, Glass and Metal Based Packaging (308286 B)
	ELECTIVE-I Engineering Ethics (308286 C)

SEM-II

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Tuesday 12/12/2023	Flexo Printing Techniques (308289)
Wednesday 13/12/2023	Color Management (308290)
Thursday 14/12/2023	Design of Experiments (308291)
Friday 15/12/2023	ELECTIVE-II Maintenance Management of Printing Machines (308293 A)
	ELECTIVE-II Basic Communication Systems and Electronic Instrumentation (308293 B)
	ELECTIVE-II E-Publishing (308293 C)

Production

SEM-I

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Wednesday 29/11/2023	Engineering Metrology and Instrumentation (311081 A)
Friday 01/12/2023	Material Forming Technology (311082 A)
Monday 04/12/2023	Machining Science and Technology (311083 A)
Wednesday 06/12/2023	Kinematics and Design of Machines (311084 A)
Saturday 09/12/2023	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

SEM-II

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Tuesday 12/12/2023	Production Tooling (311088 (A)
Wednesday 13/12/2023	Production and Operations Management (311089) (A)
Thursday 14/12/2023	Process Engineering and Resource Planning (311090 (A)
Friday 15/12/2023	ELECTIVE-II Product Design and Development (311091 A)-I
	ELECTIVE-II Nano Manufacturing (311091 A)-II
	ELECTIVE-II Statistics and Numerical Methods (311091 A)-III
	ELECTIVE-II Financial Management and Costing (311091 A)-IV

Production Sandwich

SEM-I

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Wednesday 29/11/2023	Manufacturing Technology (Self Study) (311122)(A)

SEM-II

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Tuesday 12/12/2023	Kinematics and Design of Machines (311084 A)
Wednesday 13/12/2023	Material forming and Mould Design (311124 A)
Thursday 14/12/2023	Metrology & Quality Control (311125 A)
Friday 15/12/2023	Statistics and Numerical Optimization methods (311088 A)
Saturday 16/12/2023	ELECTIVE-II Advanced Materials (311126 A)-I
	ELECTIVE-II Costing and Cost Control (311126 A)-II
	ELECTIVE-II Advanced Joining Technology (311126 A)-III
	ELECTIVE-II World Class Manufacturing (311126 A)-IV

Mechatronics Engineering

SEM-I

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Wednesday 29/11/2023	Machine Design (317541)
Friday 01/12/2023	Manufacturing Processes (317542)
Monday 04/12/2023	Control System (317543)
Wednesday 06/12/2023	Digital Signal Processing (317544)
Saturday 09/12/2023	Microcontrollers (317545)

SEM-II

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Tuesday 12/12/2023	Industrial Automation (317547)
Wednesday 13/12/2023	Electro-Mechanical System (317548)
Thursday 14/12/2023	Finite Element Analysis (317549)
Friday 15/12/2023	Embedded System Design (317550)
Saturday 16/12/2023	Artificial Intelligence & Machine Learning (317551)

Robotics and Automation Engineering

SEM-I

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Wednesday 29/11/2023	Embedded systems in Robotics (311501 A)
Friday 01/12/2023	Hydraulics and Pneumatics (311502 A)
Monday 04/12/2023	Robot Kinematics and Dynamics (311503 A)
Wednesday 06/12/2023	Sensors Technology (311504 A)
Saturday 09/12/2023	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

SEM-II

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Tuesday 12/12/2023	Robot Programming (311508 A)
Wednesday 13/12/2023	Artificial Intelligence for Robotics (311509 A)
Thursday 14/12/2023	Flexible Manufacturing Systems (311510 A)
Friday 15/12/2023	ELECTIVE-II Micro-electro-mechanical Systems (311511A)-I
	ELECTIVE-II Humanoid Robots (311511 A)-II
	ELECTIVE-II Modeling and Simulation (311511 A)-III
	ELECTIVE-II Swarm Intelligence in Robotics (311511 A)-IV

Artificial Intelligence and Machine Learning

SEM-I

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Wednesday 29/11/2023	Design and analysis of Algorithm (318541)
Friday 01/12/2023	IoT with Artificial Intelligence (318542)
Monday 04/12/2023	Web Technology (318543)
Wednesday 06/12/2023	Management & Entrepreneurship for IT Industry (318544)
Saturday 09/12/2023	ELECTIVE-I Robotics (318545 A)
	ELECTIVE-I Pattern Recognition (318545 B)
	ELECTIVE-I Information Security (318545 C)
	ELECTIVE-I Business Intelligence (318545 D)

SEM-II

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Tuesday 12/12/2023	Machine intelligence for Data Science (318552)
Wednesday 13/12/2023	Data Mining & Warehousing (318553)
Thursday 14/12/2023	Artificial Neural Network (318554)
Friday 15/12/2023	ELECTIVE-II Industrial Internet of Things (318555 A)
	ELECTIVE-II Brain computer interface (318555 B)
	ELECTIVE-II AI for cyber security (318555 C)
	ELECTIVE-II Video Analytics (318555 D)

Computer Science and Design

SEM-I

Day & Date	2021 Course Time : 10:00 AM To 12:30 PM
Wednesday 29/11/2023	Software Engineering and Project Management (318241)
Friday 01/12/2023	Theory of Computation (318242)
Monday 04/12/2023	Database System Design (318243)
Wednesday 06/12/2023	Design and analysis of Algorithm (318244)
Saturday 09/12/2023	ELECTIVE-I Internet of Things (318245 A)
	ELECTIVE-I Pattern Recognition (318245 B)
	ELECTIVE-I Distributed Systems (318245 C)
	ELECTIVE-I Data Mining and warehousing (318245 D)

HONORS / MINORS

SEM-I

Day & Date	Honors / Minors	Time : Time : 10:00 AM To 12:30 PM
Monday 11/12/2023	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	Time : 02:00 PM To 04:30 PM
Saturday 16/12/2023	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/ 1086

Date: 08 / 11 / 2023

Director

Board of Examinations and Evaluation