

# SAVITRIBAI PHULE PUNE UNIVERSITY

(Formerly University of Pune)



**EXAMINATION CIRCULAR NO. 233 OF. 2024**

**SECOND YEAR ENGINEERING (2019 PATTERN)**

**END SEM-EXAMINATION TIMETABLE NOVEMBER /DICEMBER - 2024**

**(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 ENGINEERING

SEMESTER - IV

Time:- 10.00 AM To 12.30 PM

Day & Date	Paper Code	Subject
Wednesday 11-12-2024	201008	Geotechnical Engineering
Friday 13-12-2024	201009	Survey
Monday 16-12-2024	201010	Concrete Technology
Wednesday 18-12-2024	201011	Structural Analysis
Friday 20-12-2024	201012	Project management

SEMESTER - III

Time:- 10.00 AM To 12.30 PM

Day & Date	Paper Code	Subject
Wednesday 27-11-2024	201001	Building Technology and Architectural Planning
Friday 29-11-2024	201002	Mechanics of structure
Monday 02-12-2024	201003	Fluid Mechanics
Wednesday 04-12-2024	207001	Engineering Mathematics III
Monday 09-12-2024	207009	Engineering Geology

## ELECTRICAL ENGINEERING

SEMESTER - IV

Time:- 10.00 AM To 12.30 PM

Day & Date	Paper Code	Subject
Wednesday 11-12-2024	203145	Power System - I
Friday 13-12-2024	203146	Electrical Machines - I
Monday 16-12-2024	203147	Network Analysis
Wednesday 18-12-2024	203148	Numerical Methods & Computer Programming
Friday 20-12-2024	203149	Fundamental of Microcontroller and Applications

SEMESTER - III

Time:- 10.00 AM To 12.30 PM

Day & Date	Paper Code	Subject
Wednesday 27-11-2024	203141	Power Generation Technologies
Friday 29-11-2024	203142	Material Science
Monday 02-12-2024	203143	Analog and Digital Electronics
Wednesday 04-12-2024	203144	Electrical Measurement & Instrumentation
Monday 09-12-2024	207006	Engineering Mathematics -III

**ELECTRONICS / ELECTRONICS & TELECOMMUNICATIN  
ENGINEERING**

SEMESTER - IV

Time:- 10.00 AM To 12.30 PM

Day & Date	Paper Code	Subject
Wednesday 11-12-2024	204191	Signals & Systems *
Friday 13-12-2024	204192	Control Systems
Monday 16-12-2024	204193	Principles of Communication Systems *
Wednesday 18-12-2024	204194	Object Oriented Programming *

SEMESTER - III

Time:- 10.00 AM To 12.30 PM

Day & Date	Paper Code	Subject
Wednesday 27-11-2024	207005	Engineering Mathematics III *
Friday 29-11-2024	204181	Electronic Circuits
Monday 02-12-2024	204182	Digital Circuits*
Wednesday 04-12-2024	204183	Electrical Circuits
Monday 09-12-2024	204184	Data structures

\* Common with Electronics & Computer Engineering

## ELECTRONICS & COMPUTER ENGINEERING

SEMESTER - IV

Time:- 10.00 AM To 12.30 PM

Day & Date	Paper Code	Subject
Wednesday 11-12-2024	204191	Signals & Systems *
Friday 13-12-2024	204206	Principles of Programming Language
Monday 16-12-2024	204193	Principles of Communication System *
Wednesday 18-12-2024	204194	Object Oriented Programming *
Friday 20-12-2024	204207	System Programming & Operating Systems

SEMESTER - III

Time:- 10.00 AM To 12.30 PM

Day & Date	Paper Code	Subject
Wednesday 27-11-2024	207005	Engineering Mathematics III *
Friday 29-11-2024	204202	Electronic Circuits
Monday 02-12-2024	204182	Digital Circuits *
Wednesday 04-12-2024	204184	Data structures & Algorithms
Monday 09-12-2024	204203	Computer Organization

\* Common with Electronics / Electronics & Telecommunication Engineering

## COMPUTER ENGINEERING

SEMESTER - IV

Time:- 10.00 AM To 12.30 PM

Day & Date	Paper Code	Subject
Wednesday 11-12-2024	207003	Engineering Mathematics III # **
Friday 13-12-2024	210252	Data Structures and Algorithms *
Monday 16-12-2024	210253	Software Engineering *
Wednesday 18-12-2024	210254	Microprocessor
Friday 20-12-2024	210255	Principles of Programming Languages

SEMESTER - III

Time:- 10.00 AM To 12.30 PM

Day & Date	Paper Code	Subject
Wednesday 27-11-2024	210241	Discrete Mathematics # *
Friday 29-11-2024	210242	Fundamentals of Data Structures *
Monday 02-12-2024	210243	Object Oriented Programming (OOP) # *
Wednesday 04-12-2024	210244	Computer Graphics # *
Monday 09-12-2024	210245	Digital Electronics and Logic Design

# Common with COMPUTER SCIENCE & DESIGN ENGINEERING

\* Common with ARTIFICIAL INTELLIGENCE & DATA SCIENCE ENGINEERING

\*\* Common with Information Technology Engineering

## ARTIFICIAL INTELLIGENCE & DATA SCIENCE ENGINEERING

SEMESTER - IV

Time:- 10.00 AM To 12.30 PM

Day & Date	Paper Code	Subject
Wednesday 11-12-2024	217528	Statistics
Friday 13-12-2024	210252	Data Structures and Algorithms *
Monday 16-12-2024	210253	Software Engineering *
Wednesday 18-12-2024	217529	Internet of Things
Friday 20-12-2024	217530	Management Information System

SEMESTER - III

Time:- 10.00 AM To 12.30 PM

Day & Date	Paper Code	Subject
Wednesday 27-11-2024	210241	Discrete Mathematics *
Friday 29-11-2024	210242	Fundamentals of Data Structures *
Monday 02-12-2024	210243	Object Oriented Programming *
Wednesday 04-12-2024	210244	Computer Graphics *
Monday 09-12-2024	217521	Operating Systems

\* Common with Computer Engineering

## COMPUTER SCIENCE & DESIGN ENGINEERING

SEMESTER - IV

Time:- 10.00 AM To 12.30 PM

Day & Date	Paper Code	Subject
Wednesday 11-12-2024	207003	Engineering Mathematics - III *
Friday 13-12-2024	218253	Data Structures and Files
Monday 16-12-2024	218254	Operating Systems
Wednesday 18-12-2024	218255	Computer Networks
Friday 20-12-2024	218256	Design Thinking

SEMESTER – III

Time:- 10.00 AM To 12.30 PM

Day & Date	Paper Code	Subject
Wednesday 27-11-2024	210241	Discrete Mathematics *
Friday 29-11-2024	218242	Data Structure And Algorithms
Monday 02-12-2024	210243	Object Oriented Programming (OOP) *
Wednesday 04-12-2024	210244	Computer Graphics *
Monday 09-12-2024	218245	Logic Design and Computer Architecture

\* Common with Computer Engineering



## INFORMATION TECHNOLOGY ENGINEERING

SEMESTER - IV

Time:- 10.00 AM To 12.30 PM

Day & Date	Paper Code	Subject
Wednesday 11-12-2024	207003	Engineering Mathematics-III **
Friday 13-12-2024	214451	Processor Architecture
Monday 16-12-2024	214452	Database Management System
Wednesday 18-12-2024	214453	Computer Graphics
Friday 20-12-2024	214454	Software Engineering

SEMESTER - III

Time:- 10.00 AM To 12.30 PM

Day & Date	Paper Code	Subject
Wednesday 27-11-2024	214441	Discrete Mathematics
Friday 29-11-2024	214442	Logic Design and Computer Organization
Monday 02-12-2024	214443	Data Structures and Algorithms
Wednesday 04-12-2024	214444	Object Oriented Programming
Monday 09-12-2024	214445	Basic of Computer Network

\*\* Common with Computer Engineering

## ARTIFICIAL INTELLIGENCE & MACHINE LEARNING ENGINEERING

SEMESTER - IV

Time:- 10.00 AM To 12.30 PM

Day & Date	Paper Code	Subject
Wednesday 11-12-2024	207003	Engineering Mathematics-III *
Friday 13-12-2024	218552	Operating Systems
Monday 16-12-2024	218553	Fundamentals of Artificial Intelligence and Machine Learning
Wednesday 18-12-2024	218554	Database Management System
Friday 20-12-2024	218555	Computer Graphics

SEMESTER - III

Time:- 10.00 AM To 12.30 PM

Day & Date	Paper Code	Subject
Wednesday 27-11-2024	218541	Discrete Mathematics
Friday 29-11-2024	218542	Data Structures & Algorithms
Monday 02-12-2024	218543	Computer Networks
Wednesday 04-12-2024	218544	Object Oriented Programming
Monday 09-12-2024	218545	Software Engineering

\* Common with Computer

## **B.TECH. BIOTECHNOLOGY**

SEMESTER - IV

Time:- 10.00 AM To 12.30 PM

<b>Day &amp; Date</b>	<b>Paper Code</b>	<b>Subject</b>
Wednesday 11-12-2024	215470	Biochemistry II
Friday 13-12-2024	215471	Cell Biology & Tissue Culture
Monday 16-12-2024	215472	Thermodynamics
Wednesday 18-12-2024	215473	Genetics & Molecular Biology

SEMESTER - III

Time:- 10.00 AM To 12.30 PM

<b>Day &amp; Date</b>	<b>Paper Code</b>	<b>Subject</b>
Wednesday 27-11-2024	207004	Engineering Mathematics III *
Friday 29-11-2024	215461	Biochemistry I
Monday 02-12-2024	215462	Fluid Flow & Unit Operations
Wednesday 04-12-2024	215463	Heat transfer
Monday 09-12-2024	215464	Microbiology

\* Common with Printing & Chemical Engineering

## CHEMICAL ENGINEERING

SEMESTER - IV

Time:- 10.00 AM To 12.30 PM

Day & Date	Paper Code	Subject
Wednesday 11-12-2024	209347	Industrial Chemistry II
Friday 13-12-2024	209348	Heat Transfer
Monday 16-12-2024	209349	Principles of Design
Wednesday 18-12-2024	209350	Chemical Technology I
Friday 20-12-2024	209351	Mechanical Operations

SEMESTER - III

Time:- 10.00 AM To 12.30 PM

Day & Date	Paper Code	Subject
Wednesday 27-11-2024	207004	Engineering Mathematics -III *
Friday 29-11-2024	209341	Industrial Chemistry I
Monday 02-12-2024	209342	Fluid Mechanics
Wednesday 04-12-2024	209343	Engineering Materials
Monday 09-12-2024	209344	Process Calculations

\* Common with Printing & Biotechnology

## PRODUCTION ENGINEERING AND INDUSTRIAL ENGINEERING

SEMESTER - IV

Time:- 10.00 AM To 12.30 PM

Day & Date	Paper Code	Subject
Wednesday 11-12-2024	203050	Electrical and Electronics Engineering *
Friday 13-12-2024	211091	Theory of Machines *
Monday 16-12-2024	211092	Design of Machine Elements *
Wednesday 18-12-2024	211093	Advanced Materials
Friday 20-12-2024	211094	Industrial Engineering and Management *

SEMESTER - III

Time:- 10.00 AM To 12.30 PM

Day & Date	Paper Code	Subject
Wednesday 27-11-2024	207007	Engineering Mathematics -III *
Friday 29-11-2024	211081	Heat and Fluid Engineering *
Monday 02-12-2024	211082	Strength of Materials *
Wednesday 04-12-2024	211083	Manufacturing Processes -I *
Monday 09-12-2024	211084	Materials Science and Metallurgy *

\* Common with Production Engineering (Sandwich)

## PRODUCTION ENGINEERING (SANDWICH)

SEMESTER - IV

Time:- 10.00 AM To 12.30 PM

Day & Date	Paper Code	Subject
Wednesday 11-12-2024	203050	Electrical and Electronics Engineering *
Friday 13-12-2024	211091	Theory of Machines *
Monday 16-12-2024	211092	Design of Machine Elements *
Wednesday 18-12-2024	211121	Manufacturing Process- II
Friday 20-12-2024	211094	Industrial Engineering and Management *

SEMESTER - III

Time:- 10.00 AM To 12.30 PM

Day & Date	Paper Code	Subject
Wednesday 27-11-2024	207007	Engineering Mathematics -III *
Friday 29-11-2024	211081	Heat and Fluid Engineering *
Monday 02-12-2024	211082	Strength of Materials *
Wednesday 04-12-2024	211083	Manufacturing Processes -I *
Monday 09-12-2024	211084	Materials Science and Metallurgy *

\* Common with Production Engineering

## PRINTING ENGINEERING

SEMESTER - IV

Time:- 10.00 AM To 12.30 PM

Day & Date	Paper Code	Subject
Wednesday 11-12-2024	203155	Electrical Machines and Utilization
Friday 13-12-2024	208286	Finishing Techniques
Monday 16-12-2024	208287	Introduction to Packaging Concepts
Wednesday 18-12-2024	208288	Microprocessor and Microcontroller Techniques in Printing
Friday 20-12-2024	208289	Print Production Techniques

SEMESTER - III

Time:- 10.00 AM To 12.30 PM

Day & Date	Paper Code	Subject
Wednesday 27-11-2024	207004	Engineering Mathematics III *
Friday 29-11-2024	202060	Theory of Printing Machine and M/c. Components
Monday 02-12-2024	208281	Introduction to Printing Processes
Wednesday 04-12-2024	208282	Material Science in Printing and Packaging
Monday 09-12-2024	208283	Printing Digital Electronics

\* Common with B.Tech. Biotechnology & Chemical Engineering

\* Common with Production Engineering (Sandwich)

## ROBOTICS & AUTOMATION(RA) ENGINEERING

SEMESTER - IV

Time:- 10.00 AM To 12.30 PM

Day & Date	Paper Code	Subject
Wednesday 11-12-2024	211508	Industrial Engineering and Management
Friday 13-12-2024	211509	Control System Engineering
Monday 16-12-2024	211510	Design of Machine Elements
Wednesday 18-12-2024	211511	Metrology and Quality Assurance
Friday 20-12-2024	211512	Computer Graphics for Robotics

SEMESTER - III

Time:- 10.00 AM To 12.30 PM

Day & Date	Paper Code	Subject
Wednesday 27-11-2024	207007	Engineering Mathematics-III *
Friday 29-11-2024	211501	Industrial Electronics and Electrical Technology
Monday 02-12-2024	211082	Strength of Materials *
Wednesday 04-12-2024	211502	Manufacturing Technology
Monday 09-12-2024	211503	Materials Science and Engineering Metallurgy

\* Common with Production Engineering



## **AUTOMOBILE & MECHANICAL ENGINEERING**

SEMESTER - IV

Time:- 10.00 AM To 12.30 PM

<b>Day &amp; Date</b>	<b>Paper Code</b>	<b>Subject</b>
Wednesday 11-12-2024	202047	Kinematics of Machinery *
Friday 13-12-2024	202048	Applied Thermodynamics
Monday 16-12-2024	202049	Fluid Mechanics
Wednesday 18-12-2024	202050	Manufacturing Processes
Friday 20-12-2024	207002	Engineering Mathematics - III *

SEMESTER - III

Time:- 10.00 AM To 12.30 PM

<b>Day &amp; Date</b>	<b>Paper Code</b>	<b>Subject</b>
Wednesday 27-11-2024	202041	Solid Mechanics *
Friday 29-11-2024	202042	Solid Modeling and Drafting *
Monday 02-12-2024	202043	Engineering Thermodynamics *
Wednesday 04-12-2024	202044	Engineering Materials and Metallurgy *
Monday 09-12-2024	203156	Electrical and Electronics Engineering *

\* Common with Mechanical Sandwich

## MECHANICAL SANDWICH ENGINEERING

SEMESTER - IV

Time:- 10.00 AM To 12.30 PM

Day & Date	Paper Code	Subject
Wednesday 11-12-2024	202047	Kinematics of Machinery *
Friday 13-12-2024	202062	FLUID MECHANICS & MACHINERY
Monday 16-12-2024	202063	MANUFACTURING ENGINEERING
Wednesday 18-12-2024	202061	THERMAL ENGINEERING
Friday 20-12-2024	207002	Engineering Mathematics - III *

SEMESTER - III

Time:- 10.00 AM To 12.30 PM

Day & Date	Paper Code	Subject
Wednesday 27-11-2024	202041	Solid Mechanics *
Friday 29-11-2024	202042	Solid Modeling and Drafting *
Monday 02-12-2024	202043	Engineering Thermodynamics *
Wednesday 04-12-2024	202044	Engineering Materials and Metallurgy *
Monday 09-12-2024	203156	Electrical and Electronics Engineering *

\* Common with Automobile & Mechanical Engineering

## AUTOMATION & ROBOTICS ENGINEERING

SEMESTER - IV

Time:- 10.00 AM To 12.30 PM

Day & Date	Paper Code	Subject
Wednesday 11-12-2024	202047	Kinematics of Machinery *
Friday 13-12-2024	202524	Principles of Robotics
Monday 16-12-2024	202523	Fluid & Thermal Engineering
Wednesday 18-12-2024	202050	Manufacturing Processes *
Friday 20-12-2024	207002	Engineering Mathematics - III *

SEMESTER - III

Time:- 10.00 AM To 12.30 PM

Day & Date	Paper Code	Subject
Wednesday 27-11-2024	202041	Solid Mechanics *
Friday 29-11-2024	202042	Solid Modeling and Drafting *
Monday 02-12-2024	202521	Electrical Technology
Wednesday 04-12-2024	202044	Engineering Materials and Metallurgy *
Monday 09-12-2024	202522	Industrial Electronics

\* Common with Automobile & Mechanical Engineering

## MECHATRONICS ENGINEERING

SEMESTER - IV

Time:- 10.00 AM To 12.30 PM

Day & Date	Paper Code	Subject
Wednesday 11-12-2024	217547	Kinematics of Machinery
Friday 13-12-2024	217548	Fluid Mechanics and Machinery
Monday 16-12-2024	217549	Electrical Machines and drive
Wednesday 18-12-2024	217550	Sensor and Actuator
Friday 20-12-2024	217551	Applications of Integrated Circuits

SEMESTER - III

Time:- 10.00 AM To 12.30 PM

Day & Date	Paper Code	Subject
Wednesday 27-11-2024	217542	Heat and Mass Transfer
Friday 29-11-2024	217543	Digital Electronics
Monday 02-12-2024	217544	Analysis of Mechanical Structure
Wednesday 04-12-2024	217541	Engineering Material
Monday 09-12-2024	207002	Engineering Mathematics - III *

\* Common with Automobile & Mechanical Engineering

## Computer Science and Engineering (Data Science)

SEMESTER - III

Time:- 10.00 AM To 12.30 PM

Day & Date	Paper Code	Subject
Wednesday 27-11-2024	210641	Mathematical Foundation for Data Science -I
Friday 29-11-2024	210642	Data Structures & Algorithms
Monday 02-12-2024	210643	Object Oriented Programming (OOP)
Wednesday 04-12-2024	210644	Digital Electronics and Logic Design
Monday 09-12-2024	210645	Software Engineering and Project Management

## Electronics Engineering (VLSI Design & Technology)

SEMESTER - III

Time:- 10.00 AM To 12.30 PM

Day & Date	Paper Code	Subject
Wednesday 27-11-2024	207005	Engineering Mathematics III *
Friday 29-11-2024	204181	Electronic Circuits *
Monday 02-12-2024	204182	Digital Circuits (OOP) *
Wednesday 04-12-2024	204206	FPGA based system design Using Verilog
Monday 09-12-2024	204184	Data structures *

\* Common with Electronics & Communication - Advanced Communication Technology

# Electronics & Communication - Advanced Communication Technology

SEMESTER - III

Time:- 10.00 AM To 12.30 PM

Day & Date	Paper Code	Subject
Wednesday 27-11-2024	207005	Engineering Mathematics III *
Friday 29-11-2024	204181	Electronic Circuits*
Monday 02-12-2024	204182	Digital Circuits (OOP)*
Wednesday 04-12-2024	204202	Principles of Communication Engineering
Monday 09-12-2024	204184	Data structures *

\* Common with EE VLSI Design & Technology

# Computer Science

SEMESTER - III

Time:- 10.00 AM To 12.30 PM

Day & Date	Paper Code	Subject
Wednesday 27-11-2024	210241	Discrete Mathematics *
Friday 29-11-2024	210242	Fundamentals of Data Structures
Monday 02-12-2024	210243	Object Oriented Programming (OOP) *
Wednesday 04-12-2024	210244	Computer Graphics for Data Visualization
Monday 09-12-2024	210245	Digital Electronics and VLSI

\* Common with Computer Engineering.

## INSTRUMENTATION

SEMESTER - IV

Time:- 10.00 AM To 12.30 PM

Day & Date	Paper Code	Subject
Wednesday 11-12-2024	206268	Control Systems
Friday 13-12-2024	206269	Digital Electronics
Monday 16-12-2024	206270	Process Loop Elements
Wednesday 18-12-2024	206271	Signals and Systems
Friday 20-12-2024	206272	Data Structures

SEMESTER - III

Time:- 10.00 AM To 12.30 PM

Day & Date	Paper Code	Subject
Wednesday 27-11-2024	206261	Sensors and Transducers
Friday 29-11-2024	206262	Linear Integrated Circuits
Monday 02-12-2024	206263	Electrical Measurements & Instrumentation
Wednesday 04-12-2024	206264	Control System Components
Monday 09-12-2024	207008	Engineering Mathematics III

Ganeshkhind, Pune - 411 007

Ref.No/XCT :- 679

Date : - 23 / 10 / 2024

Director,

Board of Examinations and Evaluation

# SAVITRIBAI PHULE PUNE UNIVERSITY

(Formerly University of Pune)



EXAMINATION CIRCULAR NO. 211 OF. 2024

THIRD YEAR ENGINEERING (2019 PATTERN)

Endsem Examination of NOVEMBER / DECEMBER - 2024

(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 ENGINEERING

### SEM-I

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Tuesday 10-12-2024	Hydrology and Water Resources Engineering (301001)
Thursday 12-12-2024	Water Supply Engineering (301002)
Saturday 14-12-2024	Design of Steel Structures (301003) # (Time : 10:00 AM To 01:00 PM)
Tuesday 17-12-2024	Engineering Economics and Financial Management (301004)
Thursday 19-12-2024	<b>ELECTIVE-I</b> Advanced Fluid Mechanics and Hydraulic Machines (301005 a)
	<b>ELECTIVE-I</b> Research Methodology and IPR (301005 b)
	<b>ELECTIVE-I</b> Construction Management. (301005 c)
	<b>ELECTIVE-I</b> Advanced Concrete Technology (301005 d)
	<b>ELECTIVE-I</b> Matrix Methods of Structural Analysis (301005 e)
	<b>ELECTIVE-I</b> 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
Monday 25-11-2024	Waste Water Engineering ( 301012)
Thursday 28-11-2024	Design of RC Structures (301013) # (Time : 10:00 AM To 01:00 PM)
Saturday 30-11-2024	Remote Sensing and GIS (301014)
Tuesday 03-12-2024	<b>ELECTIVE-II</b> Advanced Engineering Geology with Rock Mechanics (301015 a)
	<b>ELECTIVE-II</b> Soft Computing Techniques (301015 b)
	<b>ELECTIVE-II</b> Advanced Surveying. (301015 c)
	<b>ELECTIVE-II</b> Advanced Geotechnical Engineering (301015 d)
	<b>ELECTIVE-II</b> Architecture and Town Planning (301015 e)
	<b>ELECTIVE-II</b> Solid Waste Management (301015 f)

**Note : - # Please Note the time**

## CHEMICAL ENGINEERING

### SEM-I

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Tuesday 10-12-2024	Mass Transfer-I (309341)
Thursday 12-12-2024	Chemical Technology -II (309342)
Saturday 14-12-2024	Chemical Engineering Mathematics (309343)
Tuesday 17-12-2024	Chemical Engineering Thermodynamics (309344)
Thursday 19-12-2024	<b>ELECTIVE-I</b> Chemical Industry Management (309345A)
	<b>ELECTIVE-I</b> Food Technology (309345 B)
	<b>ELECTIVE-I</b> Polymer Engineering (309345 C)
	<b>ELECTIVE-I</b> Downstream Processing (309345 D)

### SEM-II

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Monday 25-11-2024	Chemical Reaction Engineering I (309348)
Thursday 28-11-2024	Mass Transfer II (309349)
Saturday 30-11-2024	Transport Phenomena (309350)
Tuesday 03-12-2024	<b>ELECTIVE-II</b> Energy Conservation in Chemical Process Industries (309351 A)
	<b>ELECTIVE-II</b> Process Instrumentation and Control (309351 B)
	<b>ELECTIVE-II</b> Corrosion Engineering (309351 C)
	<b>ELECTIVE-II</b> Artificial intelligence and Data Science (309351 D)

## COMPUTER ENGINEERING

### SEM-I

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Tuesday 10-12-2024	Database Management Systems (310241) *
Thursday 12-12-2024	Theory of Computation (310242)
Saturday 14-12-2024	Systems Programming and Operating System (310243)
Tuesday 17-12-2024	Computer Networks and Security (310244)
Thursday 19-12-2024	<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.

### SEM-II

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Monday 25-11-2024	Data Science and Big Data Analytics (310251)
Thursday 28-11-2024	Web Technology (310252)
Saturday 30-11-2024	Artificial Intelligence (310253)
Tuesday 03-12-2024	<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)*

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

# Artificial Intelligence and Data Science Engineering

## SEM-I

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Tuesday 10-12-2024	Data Base Management System (310241) *
Thursday 12-12-2024	Computer Networks (317521)
Saturday 14-12-2024	Web Technology (310252)
Tuesday 17-12-2024	Artificial Intelligence (310253)
Thursday 19-12-2024	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**  
\*\* **Common with Information Technology**

## SEM-II

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Monday 25-11-2024	Data Science (317529)
Thursday 28-11-2024	Cyber security (317530)
Saturday 30-11-2024	Artificial Neural Network (317531)
Tuesday 03-12-2024	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 ENGINEERING

## SEM-I

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Tuesday 10-12-2024	Industrial and Technology Management (303141)
Thursday 12-12-2024	Power Electronics (303142)
Saturday 14-12-2024	Electrical Machines-II (303143)
Tuesday 17-12-2024	Electrical Installation Design and Condition Based Maintenance (303144)
Thursday 19-12-2024	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
Monday 25-11-2024	Power System-II (303148)
Thursday 28-11-2024	Computer Aided Design of Electrical Machines (303149)
Saturday 30-11-2024	Control System Engineering (303150)
Tuesday 03-12-2024	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 ENGINEERING

## SEM-I

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Tuesday 10-12-2024	Power and Industrial Electronics (304201)
Thursday 12-12-2024	Electromagnetic Waves and Propagation Theory (304202)
Saturday 14-12-2024	Database Management (304183) *
Tuesday 17-12-2024	Microcontrollers and Applications (304204)
Thursday 19-12-2024	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 )
<b>Note :-</b> * Common with E&TC	

## SEM-II

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Monday 25-11-2024	Fundamentals of HDL (304212)
Thursday 28-11-2024	Embedded Processors and Applications (304213)
Saturday 30-11-2024	Industrial Management (304214)
Tuesday 03-12-2024	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 ENGINEERING

### SEM-I

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Tuesday 10-12-2024	Digital Communication (304181)
Thursday 12-12-2024	Electromagnetic Field Theory (304182)
Saturday 14-12-2024	Database Management (304183) *
Tuesday 17-12-2024	Microcontrollers (304184)
Thursday 19-12-2024	<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	

### SEM-II

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Monday 25-11-2024	Cellular Networks (304192)
Thursday 28-11-2024	Project Management (304193)
Saturday 30-11-2024	Power Devices & Circuits (304194)
Tuesday 03-12-2024	<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	

# Electronics and Computer Engineering

## SEM-I

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Tuesday 10-12-2024	Database Management Systems (310341)
Thursday 12-12-2024	Advanced Java Programming (310342)
Saturday 14-12-2024	Data Communication (310343)
Tuesday 17-12-2024	Microcontroller and Applications (310344)
Thursday 19-12-2024	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
Monday 25-11-2024	Software Engineering and Project Management (310352)
Thursday 28-11-2024	Computer Networks and Security (310353)
Saturday 30-11-2024	Embedded Processors & Applications (310354)
Tuesday 03-12-2024	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 ENGINEERING

## SEM-I

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Tuesday 10-12-2024	Theory of Computation (314441)
Thursday 12-12-2024	Operating Systems (314442)
Saturday 14-12-2024	Machine Learning (314443)
Tuesday 17-12-2024	Human Computer Interaction (314444)
Thursday 19-12-2024	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)

\* Common with A.I.D.S.

## SEM-II

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Monday 25-11-2024	Computer Networks & Security (314451)
Thursday 28-11-2024	Data Science and Big Data Analytics (314452)
Saturday 30-11-2024	Web Application Development (314453A)
Tuesday 03-12-2024	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 ENGINEERING**

### **SEM-I**

<b>Day &amp; Date</b>	<b>2019 Course Time : 10:00 AM To 12:30 PM</b>
<b>Tuesday 10-12-2024</b>	Embedded Systems (306261)
<b>Thursday 12-12-2024</b>	Industrial Automation-I (306262)
<b>Saturday 14-12-2024</b>	Modern Control Theory (306263)
<b>Tuesday 17-12-2024</b>	Operating System (306264)
<b>Thursday 19-12-2024</b>	<b>ELECTIVE-I</b> Mechatronics & Robotics (306265 A)
	<b>ELECTIVE-I</b> Data Science (306265 B)
	<b>ELECTIVE-I</b> Power Electronics (306265 C)
	<b>ELECTIVE-I</b> Bio-Medical Instrumentation (306265 D)

### **SEM-II**

<b>Day &amp; Date</b>	<b>2019 Course Time : 10:00 AM To 12:30 PM</b>
<b>Monday 25-11-2024</b>	Internet of Things (306268)
<b>Thursday 28-11-2024</b>	Industrial Automation-II (306269)
<b>Saturday 30-11-2024</b>	Digital Signal Processing (306270)
<b>Tuesday 03-12-2024</b>	<b>ELECTIVE-II</b> Building Automation (306271 A)
	<b>ELECTIVE-II</b> Machine Learning (306271 B)
	<b>ELECTIVE-II</b> Electrical Drives (306271 C)
	<b>ELECTIVE-II</b> Analytical Instrumentation (306271 D)

# AUTOMOBILE ENGINEERING

## SEM-I

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Tuesday 10-12-2024	Numerical & Optimization Methods (316481)
Thursday 12-12-2024	Heat Transfer (316482)
Saturday 14-12-2024	Design of Machine Components (316483)
Tuesday 17-12-2024	Automobile Electrical and Electronics (316484)
Thursday 19-12-2024	<b>ELECTIVE-I</b> Advanced Forming & Joining Processes (302045-A)*
	<b>ELECTIVE-I</b> Machining Science and Technology (302045-B)*

Note :- \* Common with Mechanical

## SEM-II

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Monday 25-11-2024	Automotive Refrigeration and Air Conditioning (316485)
Thursday 28-11-2024	Automotive Chassis and Transmission (316486)
Saturday 30-11-2024	Design of Engine Components (316487)
Tuesday 03-12-2024	<b>ELECTIVE-II</b> Automotive Aerodynamics and Body Engineering (316488-A)
	<b>ELECTIVE-II</b> Automotive Materials (316488-B)

# MECHANICAL ENGINEERING

## SEM-I

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Tuesday 10-12-2024	Numerical & Statistical Methods (302041) *
Thursday 12-12-2024	Heat & Mass Transfer (302042) *
Saturday 14-12-2024	Design of Machine Elements (302043) *
Tuesday 17-12-2024	Mechatronics (302044) *
Thursday 19-12-2024	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
Monday 25-11-2024	Artificial Intelligence & Machine Learning (302049)
Thursday 28-11-2024	Computer Aided Engineering (302050)
Saturday 30-11-2024	Design of Transmission Systems (302051) # (Time : 10:00 AM To 01:00 PM)
Tuesday 03-12-2024	ELECTIVE-II Composite Materials (302052-A)
	ELECTIVE-II Surface Engineering (302052-B)

**Note : - # Please Note the time**

## MECHANICAL-SANDWICH ENGINEERING

### SEM-I

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Tuesday 10-12-2024	Numerical & Statistical Methods (302041) *
Thursday 12-12-2024	Heat & Mass Transfer (302042) *
Saturday 14-12-2024	Design of Machine Elements (302043) *
Tuesday 17-12-2024	Mechatronics (302044) *
Thursday 19-12-2024	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
Monday 25-11-2024	Process Planning & Tool Selection (Self-Study-I) (302066)
Thursday 28-11-2024	Advanced Materials & Manufacturing (Self-Study-II) (302067)

# Automation and Robotics Engineering

## SEM-I

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Tuesday 10-12-2024	Design of Robot Elements (302521 )
Thursday 12-12-2024	Robot Kinematics and Dynamics (302522 )
Saturday 14-12-2024	Computer Aided Engineering and Manufacturing (302523 )
Tuesday 17-12-2024	Signal Processing and Conditioning (302524 )
Thursday 19-12-2024	<b>ELECTIVE-I</b> Advanced Forming & Joining Processes (302525-A )
	<b>ELECTIVE-I</b> Optimization Techniques (302525-B)

## SEM-II

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Monday 25-11-2024	Sensors and Vision Systems in Robots (302527 )
Thursday 28-11-2024	Artificial Intelligence in Robots (302528 )
Saturday 30-11-2024	Modelling and Simulation (302529 )
Tuesday 03-12-2024	<b>ELECTIVE-II</b> Machining Science and Technology ( 302530-A )
	<b>ELECTIVE-II</b> Maintenance and Safety Engineering ( 302530-B)

## B. Tech. Biotechnology Engineering

### SEM-I

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Tuesday 10-12-2024	Analytical Techniques (315461)
Thursday 12-12-2024	Material Balances and Stoichiometry (315462)
Saturday 14-12-2024	Genetic Engineering (315463)
Tuesday 17-12-2024	Introduction to Immunology (315464)
Thursday 19-12-2024	<b>ELECTIVE-I</b> Enzyme Technology (315465 A)
	<b>ELECTIVE-I</b> Good Laboratory Practices and Good Manufacturing Practices (315465 B)
	<b>ELECTIVE-I</b> Agricultural Biotechnology (315465 C)

### SEM-II

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Monday 25-11-2024	Fermentation Technology (315471)
Thursday 28-11-2024	Mass Transfer (315472)
Saturday 30-11-2024	Bioseparation Engineering (315473)
Tuesday 03-12-2024	<b>ELECTIVE-II</b> Instrumentation and Process Control (315474 A)
	<b>ELECTIVE-II</b> Food Biotechnology (315474 B)
	<b>ELECTIVE-II</b> Data base management systems (315474 C)

# Printing Engineering

## SEM-I

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Tuesday 10-12-2024	Print Statistics (308281)
Thursday 12-12-2024	Offset Printing Techniques (308282)
Saturday 14-12-2024	Color Science and Measurement (308283)
Tuesday 17-12-2024	Ink Technology (308284)
Thursday 19-12-2024	<b>ELECTIVE-I</b> Cyber Security (308286 A)
	<b>ELECTIVE-I</b> Wood, Glass and Metal Based Packaging (308286 B)
	<b>ELECTIVE-I</b> Engineering Ethics (308286 C )

## SEM-II

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Monday 25-11-2024	Flexo Printing Techniques (308289)
Thursday 28-11-2024	Color Management (308290)
Saturday 30-11-2024	Design of Experiments (308291)
Tuesday 03-12-2024	<b>ELECTIVE-II</b> Maintenance Management of Printing Machines (308293 A)
	<b>ELECTIVE-II</b> Basic Communication Systems and Electronic Instrumentation (308293 B)
	<b>ELECTIVE-II</b> E-Publishing (308293 C)



# Production Engineering

## SEM-I

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Tuesday 10-12-2024	Engineering Metrology and Instrumentation (311081 A)
Thursday 12-12-2024	Material Forming Technology (311082 A)
Saturday 14-12-2024	Machining Science and Technology (311083 A)
Tuesday 17-12-2024	Kinematics and Design of Machines (311084 A)
Thursday 19-12-2024	<b>ELECTIVE-I</b> Finite Element Analysis (311085 A)-I
	<b>ELECTIVE-I</b> Advances in Manufacturing Processes (311085 A)-II
	<b>ELECTIVE-I</b> Mechatronics (311085 A)-III
	<b>ELECTIVE-I</b> Supply Chain Management (311085 A)-IV

## SEM-II

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Monday 25-11-2024	Production Tooling (311088 (A)
Thursday 28-11-2024	Production and Operations Management (311089) (A)
Saturday 30-11-2024	Process Engineering and Resource Planning (311090 (A)
Tuesday 03-12-2024	<b>ELECTIVE-II</b> Product Design and Development (311091 A)-I
	<b>ELECTIVE-II</b> Nano Manufacturing (311091 A)-II
	<b>ELECTIVE-II</b> Statistics and Numerical Methods (311091 A)-III
	<b>ELECTIVE-II</b> Financial Management and Costing (311091 A)-IV

# Production Sandwich

## SEM-I

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Tuesday 10-12-2024	Manufacturing Technology (Self Study) (311122 )(A)

## SEM-II

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Monday 25-11-2024	Kinematics and Design of Machines (311084 A)
Thursday 28-11-2024	Material forming and Mould Design (311124 A)
Saturday 30-11-2024	Metrology & Quality Control (311125 A)
Tuesday 03-12-2024	Statistics and Numerical Optimization methods (311088 A)
Thursday 05-12-2024	<b>ELECTIVE-II</b> Advanced Materials (311126 A)-I
	<b>ELECTIVE-II</b> Costing and Cost Control (311126 A)-II
	<b>ELECTIVE-II</b> Advanced Joining Technology (311126 A)-III
	<b>ELECTIVE-II</b> World Class Manufacturing (311126 A)-IV

# Mechatronics Engineering

## SEM-I

<b>Day &amp; Date</b>	<b>2019 Course Time : 10:00 AM To 12:30 PM</b>
<b>Tuesday 10-12-2024</b>	Machine Design (317541)
<b>Thursday 12-12-2024</b>	Manufacturing Processes (317542)
<b>Saturday 14-12-2024</b>	Control System (317543)
<b>Tuesday 17-12-2024</b>	Digital Signal Processing (317544)
<b>Thursday 19-12-2024</b>	Microcontrollers (317545)

## SEM-II

<b>Day &amp; Date</b>	<b>2019 Course Time : 10:00 AM To 12:30 PM</b>
<b>Monday 25-11-2024</b>	Industrial Automation (317547)
<b>Thursday 28-11-2024</b>	Electro-Mechanical System (317548)
<b>Saturday 30-11-2024</b>	Finite Element Analysis (317549)
<b>Tuesday 03-12-2024</b>	Embedded System Design (317550)
<b>Thursday 05-12-2024</b>	Artificial Intelligence & Machine Learning (317551 )

# Robotics and Automation Engineering

## SEM-I

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
Tuesday 10-12-2024	Embedded systems in Robotics (311501 A)
Thursday 12-12-2024	Hydraulics and Pneumatics (311502 A)
Saturday 14-12-2024	Robot Kinematics and Dynamics (311503 A)
Tuesday 17-12-2024	Sensors Technology (311504 A)
Thursday 19-12-2024	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
Monday 25-11-2024	Robot Programming (311508 A)
Thursday 28-11-2024	Artificial Intelligence for Robotics (311509 A)
Saturday 30-11-2024	Flexible Manufacturing Systems (311510 A)
Tuesday 03-12-2024	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
<b>Tuesday</b> 10-12-2024	Design and analysis of Algorithm (318541)
<b>Thursday</b> 12-12-2024	IoT with Artificial Intelligence (318542)
<b>Saturday</b> 14-12-2024	Web Technology (318543)
<b>Tuesday</b> 17-12-2024	Management & Entrepreneurship for IT Industry (318544)
<b>Thursday</b> 19-12-2024	<b>ELECTIVE-I</b> Robotics (318545 A)
	<b>ELECTIVE-I</b> Pattern Recognition (318545 B)
	<b>ELECTIVE-I</b> Information Security (318545 C)
	<b>ELECTIVE-I</b> Business Intelligence (318545 D)

## SEM-II

Day & Date	2019 Course Time : 10:00 AM To 12:30 PM
<b>Monday</b> 25-11-2024	Machine intelligence for Data Science (318552)
<b>Thursday</b> 28-11-2024	Data Mining & Warehousing (318553)
<b>Saturday</b> 30-11-2024	Artificial Neural Network (318554)
<b>Tuesday</b> 03-12-2024	<b>ELECTIVE-II</b> Industrial Internet of Things (318555 A)
	<b>ELECTIVE-II</b> Brain computer interface (318555 B)
	<b>ELECTIVE-II</b> AI for cyber security (318555 C)
	<b>ELECTIVE-II</b> Video Analytics (318555 D)

# Computer Science and Design

## SEM-I

Day & Date	2021 Course Time : 10:00 AM To 12:30 PM
Tuesday 10-12-2024	Software Engineering and Project Management (318241)
Thursday 12-12-2024	Theory of Computation (318242)
Saturday 14-12-2024	Database System Design (318243)
Tuesday 17-12-2024	Design and analysis of Algorithm (318244)
Thursday 19-12-2024	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)

## SEM-II

Day & Date	2021 Course Time : 10:00 AM To 12:30 PM
Monday 25-11-2024	ARTIFICIAL INTELLIGENCE (318251)
Thursday 28-11-2024	WEB TECHNOLOGY & APPLICATION DESIGN (318252)
Saturday 30-11-2024	UI/UX DESIGN (318253)
Tuesday 03-12-2024	ELECTIVE-II MULTIMEDIA TECHNIQUES (318254 A )
	ELECTIVE-II AUGMENTED AND VIRTUAL REALITY (318254 B)
	ELECTIVE-II CLOUD COMPUTING (318254 C)
	ELECTIVE-II BUSINESS INTELLIGENCE AND DATA ANALYTICS (318254 D)

# **HONORS / MINORS**

## **SEM-I**

<b>Day &amp; Date</b>	<b>Honors / Minors</b>	<b>Time : Time : 10:00 AM To 12:30 PM</b>
<b>Saturday 21-12-2024</b>	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**

<b>Day &amp; Date</b>	<b>Honors / Minors</b>	<b>Time : 10:00 AM To 12:30 PM</b>
<b>Saturday 07-12-2024</b>	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/ 642

Date: 22 / 10 / 2024

Director

Board of Examinations and Evaluation



# SAVITRIBAI PHULE PUNE UNIVERSITY

(Formerly University of Pune)



EXAMINATION CIRCULAR NO. 212 OF 2024

BACHELOR OF ENGINEERING (2019 COURSE)

Examination of Nov./Dec.-2024

(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.

**B.E.AUTOMOBILE**

SEMESTER- VII

Time:- 2.00PM.TO 4.30 PM.

Day & Date	Paper Code	Subject
Wednesday 11/12/2024	416481	Automotive Testing and Certification
Friday 13/12/2024	416482	Machine and Vehicle Dynamics
Monday 16/12/2024	416483	Industrial Engineering* Time:-2.00PM.TO 4.00PM.
Wednesday 18/12/2024	416484A	(ELECTIVE-III) Artificial Intelligence and Machine Learning
	416484B	(ELECTIVE-III) Automotive Control Systems
	402044E	(ELECTIVE-III) Internet of Things**
Friday 20/12/2024	416485A	(ELECTIVE-IV) Finite Elements Analysis
	416485B	(ELECTIVE-IV) Computational Fluid Dynamics

SEMESTER-VIII

Time:- 2.00PM.TO 4.30 PM.

Day & Date	Paper Code	Subject
Wednesday 27/11/2024	416489	Hybrid and Electric Vehicle
Friday 29/11/2024	416490	Automotive System Design
Wednesday 04/12/2024	416491A	(ELECTIVE-V) Alternative Fuels and Emission control
	416491B	(ELECTIVE-V) Renewable Energy
Friday 06/12/2024	416492A	(ELECTIVE-VI) Transport Management and Automobile Industry
	416492B	(ELECTIVE-VI) Automotive Safety
	416492 C	(ELECTIVE-VI) Process Planning and Cost Estimation

NOTE:-

\*PLEASE NOTE THE TIME

\*\*COMMON WITH MECHANICAL ENGINEERING

## **BIOTECHNOLOGY**

SEMESTER-VII

**Time:- 2.00PM.TO 4.30 PM.**

<b>Day &amp; Date</b>	<b>Paper Code</b>	<b>Subject</b>
Wednesday 11/12/2024	415461	Biochemical Engineering
Friday 13/12/2024	415462	Bioinformatics
Wednesday 18/12/2024	415463A	(ELECTIVE-III) Bioprocess Equipment Design
	415463B	(ELECTIVE-III) Environmental Biotechnology
	415463 C	(ELECTIVE-III) Genomics
Friday 20/12/2024	415464A	(ELECTIVE-IV) Bio energy and Renewable Resources
	415464B	(ELECTIVE-IV)Nanotechnology
	415464 C	(ELECTIVE-IV) Stem Cell Biology and Regenerative Medicine

SEMESTER-VIII

**Time:- 2.00PM.TO 4.30 PM.**

<b>Day &amp; Date</b>	<b>Paper Code</b>	<b>Subject</b>
Wednesday 27/11/2024	415471	Bioprocess Modeling and Simulation
Friday 29/11/2024	415472	Plant Engineering and Project costing
Wednesday 04/12/2024	415473A	(ELECTIVE-V) Biomaterials
	415473B	(ELECTIVE-V) Molecular diagnostics
	415473 C	(ELECTIVE-V) Bio-therapeutics Technology
Friday 06/12/2024	415474A	(ELECTIVE-VI) Management and Entrepreneurship
	415474B	(ELECTIVE-VI)I PR, Intellectual Property Rights.
	415474 C	(ELECTIVE-VI) Industrial Organization and Management

## B.E. CHEMICAL

SEMESTER- VII

Time:- **2.00 PM.TO 4.30 PM.**

Day & Date	Paper Code	Subject
Wednesday 11/12/2024	409341	Process Dynamics and Control
Friday 13/12/2024	409342	Chemical Reaction Engineering-II
Monday 16/12/2024	409343	Chemical Engineering Design
Wednesday 18/12/2024	409344A	(ELECTIVE-III) Environmental Engineering
	409344B	(ELECTIVE-III) Membrane Technology
	409344 C	(ELECTIVE-III) Industrial Piping
	409344 D	(ELECTIVE-III) Petroleum Refining
Friday 20/12/2024	409345A	(ELECTIVE-IV) Chemical Process Synthesis
	409345B	(ELECTIVE-IV) Industrial Management & Entrepreneurship
	409345 C	(ELECTIVE-IV)Green Technology
	409345 D	(ELECTIVE-IV) Advance Separation Processes

SEMESTER-VIII

Time:- **2.00PM.TO 4.30PM.**

Day & Date	Paper Code	Subject
Wednesday 27/11/2024	409349	Process Modeling and Simulation
Friday 29/11/2024	409350	Process Engineering Costing & Plant Design
Wednesday 04/12/2024	409351A	(ELECTIVE-V) Energy Audit and Conservation
	409351B	(ELECTIVE-V) Chemical Process Safety
	409351 C	(ELECTIVE-V) Computational Fluid Dynamics
	409351 D	(ELECTIVE-V) Advanced Materials
Friday 06/12/2024	409352A	(ELECTIVE-VI)Catalysis
	409352B	(ELECTIVE-VI)Nanotechnology
	409352 C	(ELECTIVE-VI) Fuel Cell Technology
	409352 D	(ELECTIVE-VI) Petrochemical Engineering

**B.E.CIVIL**

SEMESTER- VII

**Time:- 2.00 PM.TO 4.30 PM.**

<b>Day &amp; Date</b>	<b>Paper Code</b>	<b>Subject</b>
Wednesday 11/12/2024	401001	Foundation Engineering
Friday 13/12/2024	401002	Transportation Engineering
Wednesday 18/12/2024	401003A	(ELECTIVE-III) Coastal Engineering
	401003B	(ELECTIVE-III) Advanced Design of Concrete Structures <b>Time:- 2.00PM.TO5.00PM.</b>
	401003 C	(ELECTIVE-III) Integrated Water Resources Planning & Management
	401003 D	(ELECTIVE-III) Finite Element Method
	401003E	(ELECTIVE-III) Data Analytics
	401003 F	(ELECTIVE-III) Operation Research
Friday 20/12/2024	401004A	(ELECTIVE-IV) Air Pollution and Control
	401004B	(ELECTIVE-IV) Advanced Design of Steel Structures <b>Time:- 2.00PM.TO 5.00PM.</b>
	401004 C	(ELECTIVE-IV) Statistical Analysis and Computational Method
	401004 D	(ELECTIVE-IV) Airport and Bridge Engineering
	401004E	(ELECTIVE-IV) Design of Prestressed Concrete Structures <b>Time:- 2.00PM.TO 5.00PM.</b>
	401004 F	(ELECTIVE-IV)Form work and Plumbing Engineering

NOTE:-

**\*PLEASE NOTE THE TIME**

**B.E.CIVIL**

SEMESTER-VIII

**Time:- 2.00 PM.TO 4.30 PM.**

<b>Day &amp; Date</b>	<b>Paper Code</b>	<b>Subject</b>
Wednesday 27/11/2024	401011	Dams and Hydraulics Structures
Friday 29/11/2024	401012	Quantity Surveying, Contracts and Tenders <b>Time:- 2.00PM.TO5.00PM.</b>
Wednesday 04/12/2024	401013A	(ELECTIVE-V) Earthquake Engineering
	401013B	(ELECTIVE-V) Structural Design of Bridges
	401013 C	(ELECTIVE-V) Irrigation and Drainage
	401013 D	(ELECTIVE-V) Design of Precast and Composite Structures
	401013E	(ELECTIVE-V) Hydropower Engineering
	401013 F	(ELECTIVE-V) Structural Audit and Retrofitting of Structures
Friday 06/12/2024	401014A	(ELECTIVE-VI) TQM and MIS
	401014B	(ELECTIVE-VI) Advanced Transportation Engineering
	401014 C	(ELECTIVE-VI) Geo Synthetic Engineering
	401014 D	(ELECTIVE-VI) Structural Design of Foundations
	401014E	(ELECTIVE-VI) Green Structures and Smart Cities
	401014 F	(ELECTIVE-VI) Rural Water Supply and Sanitation

**NOTE:-****\*PLEASE NOTE THE TIME**

## B.E.COMPUTER

SEMESTER- VII

Time:- 2.00 PM.TO 4.30 PM.

Day & Date	Paper Code	Subject
Wednesday 11/12/2024	410241	Design and Analysis of Algorithms
Friday 13/12/2024	410242	Machine Learning
Monday 16/12/2024	410243	Blockchain Technology
Wednesday 18/12/2024	410244A	(ELECTIVE-III) Pervasive Computing
	410244B	(ELECTIVE-III) Multimedia Techniques
	410244 C	(ELECTIVE-III) Cyber Security and Digital Forensics
	410244 D	(ELECTIVE-III) Object Oriented Modeling and Design
	410244E	(ELECTIVE-III) Digital Signal Processing
Friday 20/12/2024	410245A	(ELECTIVE-IV) Information Retrieval
	410245B	(ELECTIVE-IV) GPU Programming and Architecture
	410245 C	(ELECTIVE-IV) Mobile Computing
	410245 D	(ELECTIVE-IV) Software Testing and Quality Assurance
	410245E	(ELECTIVE-IV) Compilers

SEMESTER-VIII

Time:-2.00 PM.TO4.30 PM.

Day & Date	Paper Code	Subject
Wednesday 27/11/2024	410250	High Performance Computing
Friday 29/11/2024	410251	Deep Learning
Wednesday 04/12/2024	410252A	(ELECTIVE-V) Natural Language Processing
	410252B	(ELECTIVE-V) Image Processing
	410252 C	(ELECTIVE-V) Software Defined Networks
	410252 D	(ELECTIVE-V) Advanced Digital Signal Processing
Friday 06/12/2024	410253A	(ELECTIVE-VI) Pattern Recognition
	410253B	(ELECTIVE-VI) Soft Computing
	410253 C	(ELECTIVE-VI) Business Intelligence
	410253 D	(ELECTIVE-VI) Quantum Computing

## B.E.ELECTRICAL

SEMESTER- VII

Time:- 2.00 PM.TO 4.30 PM.

Day & Date	Paper Code	Subject
Wednesday 11/12/2024	403141	Power System Operation & Control
Friday 13/12/2024	403142	Advanced Control System
Wednesday 18/12/2024	403143A	(ELECTIVE-III) PLC and SCADA
	403143B	(ELECTIVE-III) Power Quality Management
	403143 C	(ELECTIVE-III) High Voltage Engineering
	403143 D	(ELECTIVE-III) Robotics and Automation
Friday 20/12/2024	403144A	(ELECTIVE-IV) Alternate Energy System
	403144B	(ELECTIVE-IV) Electrical & Hybrid Vehicle
	403144 C	(ELECTIVE-IV) Special-purpose Machines
	403144 D	(ELECTIVE-IV) HVDC & FACTS

SEMESTER-VIII

Time:- 2.00 PM.TO 4.30 PM.

Day & Date	Paper Code	Subject
Wednesday 27/11/2024	403148	Switchgear and Protection
Friday 29/11/2024	403149	Advanced Electrical Drives & Control
Wednesday 04/12/2024	403150A	(ELECTIVE-V) Digital Control System
	403150B	(ELECTIVE-V) Restructuring and Deregulation
	403150 C	(ELECTIVE-V) Smart Grid
	403150 D	(ELECTIVE-V) Sensor Technology (Open Elective)
Friday 06/12/2024	403151A	(ELECTIVE-VI) EHVAC Transmission
	403151B	(ELECTIVE-VI) Illumination Engineering
	403151 C	(ELECTIVE-VI) Electromagnetic Fields
	403151 D	(ELECTIVE-VI) AI and ML(Open Elective)



## **B.E. ELECTRONICS & TELECOMMUNICATION**

SEMESTER-VII

**Time:- 2.00 PM.TO 4.30 PM.**

<b>Day &amp; Date</b>	<b>Paper Code</b>	<b>Subject</b>
Wednesday 11/12/2024	404181	Radiation & Microwave Theory
Friday 13/12/2024	404182	VLSI Design and Technology
Monday 16/12/2024	404183	Cloud Computing
Wednesday 18/12/2024	404184A	(ELECTIVE-III) Speech Processing
	404184B	(ELECTIVE-III) PLC SCADA & Automation
	404184 C	(ELECTIVE-III) JAVA Script
	404184 D	(ELECTIVE-III) Embedded & RTOS
	404184E	(ELECTIVE-III) Modernized IoT
Friday 20/12/2024	404185A	(ELECTIVE-IV) Data Mining
	404185B	(ELECTIVE-IV)Electronic Product Development
	404185 C	(ELECTIVE-IV)Deep Learning
	404185 D	(ELECTIVE-IV)Low Power CMOS
	404185E	(ELECTIVE-IV) Smart Antennas

SEMESTER-VIII

**Time:- 2.00 PM.TO 4.30 PM.**

<b>Day &amp; Date</b>	<b>Paper Code</b>	<b>Subject</b>
Wednesday 27/11/2024	404190	Fiber Optic Communication
Wednesday 04/12/2024	404191A	(ELECTIVE-V)Biomedical Signal Processing
	404191B	(ELECTIVE-V) Industrial Drives & Automation
	404191 C	(ELECTIVE-V) Android Development
	404191 D	(ELECTIVE-V) Embedded System Design
	404191E	(ELECTIVE-V) Mobile Computing
Friday 06/12/2024	404192A	(ELECTIVE-VI) System on Chip
	404192B	(ELECTIVE-VI) Nano Electronics
	404192 C	(ELECTIVE-VI) Remote Sensing
	404192 D	(ELECTIVE-VI) Digital Marketing

## B.E. ELECTRONICS

SEMESTER-VII

Time:- **2.00PM.TO 4.30 PM.**

Day & Date	Paper Code	Subject
Wednesday 11/12/2024	404201	VLSI Design
Friday 13/12/2024	404202	Advanced Power Electronics
Monday 16/12/2024	404203	Electronic System Design
Wednesday 18/12/2024	404184A	(ELECTIVE-III) Speech Processing*
	404184 C	(ELECTIVE-III) Java Script*
	404204A	(ELECTIVE-III) Internet of Things
	404204B	(ELECTIVE-III) Software Defined Radio
	404204 C	(ELECTIVE-III) Testing and Verification for SOC design
Friday 20/12/2024	404185 D	(ELECTIVE-IV) Low power CMOS*
	404185E	(ELECTIVE-IV) Smart Antennas*
	404205A	(ELECTIVE-IV) Mobile Communication
	404205B	(ELECTIVE-IV) Embedded Systems
	404205 C	(ELECTIVE-IV) Optimization Techniques

SEMESTER-VIII

Time:- **2.00PM.TO 4.30PM.**

Day & Date	Paper Code	Subject
Wednesday 27/11/2024	404210	Process Instrumentation
Wednesday 04/12/2024	404191 C	(ELECTIVE-V) Android Development*
	404211A	(ELECTIVE-V) Biomedical Electronics
	404211B	(ELECTIVE-V) Artificial Intelligence and Neural Network
	404211 C	(ELECTIVE-V) Audio Video Engineering
	404211 D	(ELECTIVE-V) Automotive Electronics
Friday 06/12/2024	404192 C	(ELECTIVE-VI) Remote Sensing*
	404192 D	(ELECTIVE-VI) Digital Marketing*
	404212A	(ELECTIVE-VI) Renewable Energy System & DSM
	404212B	(ELECTIVE-VI) Wireless Sensor Network

NOTE: \*COMMON WITH E&TC.

## **B.E. INFORMATION TECHNOLOGY**

SEMESTER-VII

**Time:- 2.00 PM.TO 4.30 PM.**

<b>Day &amp; Date</b>	<b>Paper Code</b>	<b>Subject</b>
Wednesday 11/12/2024	414441	Information and Storage Retrieval
Friday 13/12/2024	414442	Software Project Management
Monday 16/12/2024	414443	Deep Learning
Wednesday 18/12/2024	414444A	(ELECTIVE-III) Mobile Computing
	414444B	(ELECTIVE-III) High Performance Computing
	414444 C	(ELECTIVE-III) Multimedia Technology
	414444 D	(ELECTIVE-III) Smart Computing
Friday 20/12/2024	414445A	(ELECTIVE-IV)Bioinformatics
	414445B	(ELECTIVE-IV)Introduction to DevOps
	414445 C	(ELECTIVE-IV) Computer Vision
	414445 D	(ELECTIVE-IV) Wireless Communications

SEMESTER-VIII

**Time:- 2.00 PM.TO 4.30 PM.**

<b>Day &amp; Date</b>	<b>Paper Code</b>	<b>Subject</b>
Wednesday 27/11/2024	414450	Distributed Systems
Wednesday 04/12/2024	414451A	(ELECTIVE-V) Software Defined Networks
	414451B	(ELECTIVE-V) Social Computing
	414451 C	(ELECTIVE-V) Natural Language Processing
	414451 D	(ELECTIVE-V) Soft Computing
	414451E	(ELECTIVE-V) Game Engineering
Friday 06/12/2024	414452A	(ELECTIVE-VI) Ethical Hacking and Security
	414452B	(ELECTIVE-VI) Augmented and Virtual Reality
	414452 C	(ELECTIVE-VI) Business Analytics and Intelligence
	414452 D	(ELECTIVE-VI) Blockchain Technology

## **B.E.INSTRUMENTATION & CONTROL**

SEMESTER- VII

**Time:- 2.00 PM.TO 4.30 PM.**

<b>Day &amp; Date</b>	<b>Paper Code</b>	<b>Subject</b>
Wednesday 11/12/2024	406261	Process Control Techniques
Friday 13/12/2024	406262	Project Engineering and Management
Wednesday 18/12/2024	406263A	(ELECTIVE-III) Digital Image Processing
	406263B	(ELECTIVE-III) Data Analytics
	406263 C	(ELECTIVE-III) Wireless Sensor Networks
	406263 D	(ELECTIVE-III) Process Modelling and Optimization
Friday 20/12/2024	406264A	(ELECTIVE-IV) Cloud Computing
	406264B	(ELECTIVE-IV) Soft Computing
	406264 C	(ELECTIVE-IV) Automotive Instrumentation
	406264 D	(ELECTIVE-IV) Advanced Control System

SEMESTER-VIII

**Time:- 2.00 PM.TO 4.30 PM.**

<b>Day &amp; Date</b>	<b>Paper Code</b>	<b>Subject</b>
Wednesday 27/11/2024	406268	Process Instrumentation
Friday 29/11/2024	406269	Advanced Embedded System
Wednesday 04/12/2024	406270A	(ELECTIVE-V) Electric Vehicles
	406270B	(ELECTIVE-V) Safety Instrumentation Systems
	406270 C	(ELECTIVE-V) Renewable Energy Systems
	406270 D	(ELECTIVE-V) Optical Instrumentation
Friday 06/12/2024	406271A	(ELECTIVE-VI) Cyber Security
	406271B	(ELECTIVE-VI) Automation in Agriculture
	406271 C	(ELECTIVE-VI) Environmental Instrumentation

## **B.E. MECHANICAL**

SEMESTER- VII

**Time:- 2.00 PM.TO 4.30 PM.**

<b>Day &amp; Date</b>	<b>Paper Code</b>	<b>Subject</b>
Wednesday 11/12/2024	402041	Heating Ventilation Air-Conditioning and Refrigeration
Friday 13/12/2024	402042	Dynamics of Machinery
Monday 16/12/2024	402043	Turbo machinery* <b>Time:- 2.00PM.TO 4.00 PM</b>
Wednesday 18/12/2024	402044A	(ELECTIVE-III) Automobile Design
	402044B	(ELECTIVE-III) Design of Heat Transfer Equipments
	402044 C	(ELECTIVE-III) Modern Machining Processes
	402044 D	(ELECTIVE-III) Industrial Engineering
	402044E	(ELECTIVE-III) Internet of Things
	402044 F	(ELECTIVE-III) Computational Fluid Dynamics
Friday 20/12/2024	402045A	(ELECTIVE-IV) Product Design and Development
	402045B	(ELECTIVE-IV) Experimental Methods in Thermal Engineering
	402045 C	(ELECTIVE-IV) Additive Manufacturing
	402045 D	(ELECTIVE-IV) Operations Research
	402045E	(ELECTIVE-IV) Augmented Reality and Virtual Reality

**NOTE:-\*PLEASE NOTE THE TIME**

**B.E. MECHANICAL**

SEMESTER-VIII

Time:- 2.00 PM.TO 4.30 PM.

<b>Day &amp; Date</b>	<b>Paper Code</b>	<b>Subject</b>
Wednesday 27/11/2024	402048	Computer Integrated Manufacturing
Friday 29/11/2024	402049	Energy Engineering
Wednesday 04/12/2024	402050A	(ELECTIVE-V) Quality and Reliability Engineering
	402050B	(ELECTIVE-V) Energy Audit and Management
	402050 C	(ELECTIVE-V) Manufacturing Systems and Simulation
	402050 D	(ELECTIVE-V)Engineering Economics and Financial Management
	402050E	(ELECTIVE-V) Organizational Informatics
	402050 F	(ELECTIVE-V) Computational Multi Body Dynamics
Friday 06/12/2024	402051A	(ELECTIVE-VI) Process Equipment Design
	402051B	(ELECTIVE-VI) Renewable Energy Technologies
	402051 C	(ELECTIVE-VI) Automation and Robotics
	402051 D	(ELECTIVE-VI) Industrial Psychology and Organizational Behavior
	402051E	(ELECTIVE-VI) Electrical and Hybrid Vehicle

## **B.E.MECHANICAL SANDWICH**

SEMESTER- VII

**Time:- 2.00 PM.TO 4.30 PM.**

<b>Day &amp; Date</b>	<b>Paper Code</b>	<b>Subject</b>
Wednesday 11/12/2024	402064	ENERGYENGINEERINGANDMANAGEMENT(SELF-STUDY-III)
Friday 13/12/2024	402065	INDUSTRIALENGINEERINGANDORGANIZATIONAL MANAGEMENT(SELF-STUDY-IV)

SEMESTER-VIII

**Time:- 2.00 PM.TO 4.30 PM.**

<b>Day &amp; Date</b>	<b>Paper Code</b>	<b>Subject</b>
Wednesday 27/11/2024	402066	Design of Transmission Elements* <b>Time:-2.00PM.TO 5.00PM.</b>
Friday 29/11/2024	402067	Machine Dynamics and Vibration
Monday 02/12/2024	402068	Artificial Intelligence in Mechanical Engineering
Wednesday 04/12/2024	402069A	(ELECTIVE-I) Automobile Engineering
	402069B	(ELECTIVE-I) Refrigeration and Air-Conditioning
	402069 C	(ELECTIVE-I) Fluid Power Control
	402045 C	(ELECTIVE-I) Additive Manufacturing
	402051 C	(ELECTIVE-I) Automation and Robotics
Friday 06/12/2024	402044E	(ELECTIVE-II) Internet of Things
	402045A	(ELECTIVE-II) Product Design and Development
	402045 D	(ELECTIVE-II) Operations Research
	402050A	(ELECTIVE-II) Quality and Reliability Engineering
	402051E	(ELECTIVE-II) Electrical and Hybrid Vehicle

**NOTE:-\*PLEASE NOTE THE TIME**

## **B.E. PRINTING TECHNOLOGY**

SEMESTER- VII

**Time:- 2.00 PM.TO 4.30 PM.**

<b>Day &amp; Date</b>	<b>Paper Code</b>	<b>Subject</b>
Wednesday 11/12/2024	408283	Gravure Printing Techniques
Friday 13/12/2024	408284	Digital Printing Techniques
Wednesday 18/12/2024	408281A	(ELECTIVE-III) Paper Board and Corrugation Package Technology
	408281B	(ELECTIVE-III) Polymer Science
Friday 20/12/2024	408282A	(ELECTIVE-IV) Multimedia Advertising
	408282B	(ELECTIVE-IV) Process Optimization and Total Quality Management in Printing

SEMESTER-VIII

**Time:- 2.00 PM.TO 4.30 PM.**

<b>Day &amp; Date</b>	<b>Paper Code</b>	<b>Subject</b>
Wednesday 27/11/2024	408290	Operations Management in Printing and Packaging
Friday 29/11/2024	408291	Adhesives and Coatings in Packaging
Wednesday 04/12/2024	408288A	(ELECTIVE-V) Food and Pharmaceutical Packaging
	408288B	(ELECTIVE-V) Printed Electronics
Friday 06/12/2024	408289A	(ELECTIVE-VI) Sustainable Packaging
	408289B	(ELECTIVE-VI) Management Information Systems and Data Science



## **B.E. PRODUCTION ENGINEERING**

SEMESTER- VII

**Time:- 2.00 PM.TO 4.30 PM.**

<b>Day &amp; Date</b>	<b>Paper Code</b>	<b>Subject</b>
Wednesday 11/12/2024	411081	Automation and Control Engineering
Friday 13/12/2024	411082	Operations Research
Wednesday 18/12/2024	411083A	(ELECTIVE-III) Simulation, Modeling and Digital Twin
	411083B	(ELECTIVE-III) Total Quality management
	411083 C	(ELECTIVE-III) Artificial Intelligence in Manufacturing
	411083 D	(ELECTIVE-III) World Class Manufacturing
Friday 20/12/2024	411084A	(ELECTIVE-IV) Plant Maintenance and industrial safety
	411084B	(ELECTIVE-IV) Surface Engineering
	411084 C	(ELECTIVE-IV) Reverse Engineering
	411084 D	(ELECTIVE-IV) Entrepreneurship and Innovations

SEMESTER-VIII

**Time:- 2.00 PM.TO 4.30 PM.**

<b>Day &amp; Date</b>	<b>Paper Code</b>	<b>Subject</b>
Wednesday 27/11/2024	411088	Computer Integrated Design and Manufacturing
Friday 29/11/2024	411089	Industrial Robotics
Wednesday 04/12/2024	411090A	(ELECTIVE-V)E- Mobility in Automobile
	411090B	(ELECTIVE-V) Smart Manufacturing
	411090 C	(ELECTIVE-V )Manufacturing System design
	411090 D	(ELECTIVE-V) Ergonomics and Work Management
Friday 06/12/2024	411091A	(ELECTIVE-VI) Facility Planning
	411091B	(ELECTIVE-VI) Additive Manufacturing
	411091 C	(ELECTIVE-VI) Reliability Engineering
	411091 D	(ELECTIVE-VI) Data Analytics

**B.E. PRODUCTION SANDWICH ENGINEERING**

SEMESTER- VII

Time:- 2.00 PM.TO 4.30 PM.

Day & Date	Paper Code	Subject
Wednesday 11/12/2024	411121	Manufacturing Automation
Friday 13/12/2024	411122	Operations Research
Wednesday 18/12/2024	411123A	(ELECTIVE-III) Additive Manufacturing
	411123B	(ELECTIVE-III) Industrial Robotics
	411123 C	(ELECTIVE-III) Reliability Engineering
	411123 D	(ELECTIVE-III) Micro-Electromechanical systems
Friday 20/12/2024	411124A	(ELECTIVE-IV) Creative Product Design
	411124B	(ELECTIVE-IV) Mechatronics
	411124 C	(ELECTIVE-IV)CAD/CAM
	411124 D	(ELECTIVE-IV) Data analytics

SEMESTER-VIII

Time:- 2.00 PM.TO 4.30 PM.

Day & Date	Paper Code	Subject
Wednesday 04/12/2024	411134A	(ELECTIVE-V) Supply Chain Management
	411134B	(ELECTIVE-V) Plant Engineering and Maintenance
	411134 C	(ELECTIVE-V) Industrial Relation and Human Resource Management
	411134 D	(ELECTIVE-V) Marketing mgmt.

## B.E. ARTIFICIAL INTELLIGENCE & MACHINE LEARNING

SEMESTER- VII

Time:- 2.00 PM.TO 4.30 PM.

Day & Date	Paper Code	Subject
Wednesday 11/12/2024	418541	Information Retrieval in AI
Friday 13/12/2024	418542	Cloud Computing
Monday 16/12/2024	418543	Deep Learning for AI
Wednesday 18/12/2024	418544A	(ELECTIVE-III) Quantum Computing
	418544B	(ELECTIVE-III) Block Chain
	418544 C	(ELECTIVE-III) AI in Drones
Friday 20/12/2024	418545A	(ELECTIVE-IV) Ethical Hacking and cyber forensics
	418545B	(ELECTIVE-IV) Augmented Reality and Virtual Reality
	418545 C	(ELECTIVE-IV) DevOps in Machine Learning

SEMESTER-VIII

Time:- 2.00 PM.TO 4.30 PM.

Day & Date	Paper Code	Subject
Wednesday 27/11/2024	418550	Natural Language Processing
Wednesday 04/12/2024	418551A	(ELECTIVE-V) Distributed System
	418551B	(ELECTIVE-V) Software Project and Management
	418551 C	(ELECTIVE-V) Computer Vision
Friday 06/12/2024	418552A	(ELECTIVE-VI) Reinforcement Learning
	418552B	(ELECTIVE-VI) Big data analytics
	418552C	(ELECTIVE-VI) AI using R programming

## B.E. AUTOMATION & ROBOTICS ENGINEERING

SEMESTER- VII

Time:- 2.00 PM.TO 4.30 PM.

Day & Date	Paper Code	Subject
Wednesday 11/12/2024	402541	Industrial Automation & Control Systems
Friday 13/12/2024	402542	Robotic Process Automation & Development
Monday 16/12/2024	402543	Artificial Neural Networks and Deep Learning *Time:-2.00PM.TO4.00PM
Wednesday 18/12/2024	402544A	(ELECTIVE-III) Robotics: Cognitive & Medical
	402544B	(ELECTIVE-III) Microprocessors and Microcontrollers
	402544 C	(ELECTIVE-III) Modern Machining Processes
	402544 D	(ELECTIVE-III) Industrial Engineering
	402544E	(ELECTIVE-III) Computational Fluid Dynamics
Friday 20/12/2024	402545A	(ELECTIVE-IV) Lean Manufacturing
	402545B	(ELECTIVE-IV) Project Management
	402545 C	(ELECTIVE-IV) Additive Manufacturing
	402545 D	(ELECTIVE-IV) Operations Research
	402545E	(ELECTIVE-IV) Augmented Reality and Virtual Reality

Note-Please Note the timing.

SEMESTER-VIII

Time:- 2.00PM.TO 4.30 PM.

Day & Date	Paper Code	Subject
Wednesday 27/11/2024	402549	Embedded Systems in Robots
Friday 29/11/2024	402550	Fundamentals of Autonomous Systems
Wednesday 04/12/2024	402551A	(ELECTIVE-V) Industrial Robotics & Material Handling systems
	402551B	(ELECTIVE-V) Supply Chain Management
	402045A	(ELECTIVE-V) Product Design & Development
	402050 C	(ELECTIVE-V) Manufacturing Systems and Simulation
	402050 D	(ELECTIVE-V) Engineering Economics and Financial Management
Friday 06/12/2024	402552A	(ELECTIVE-VI) Data Science
	402552B	(ELECTIVE-VI) Data Visualization
	402552 C	(ELECTIVE-VI) Network Science
	402044E	(ELECTIVE-VI) Internet of Things
	402051 D	(ELECTIVE-VI) Industrial Psychology and Organizational Behavior

## **B.E. ROBOTICS & AUTOMATION**

SEMESTER- VII

Time:- 2.00 PM.TO 4.30 PM.

<b>Day &amp; Date</b>	<b>Paper Code</b>	<b>Subject</b>
Wednesday 11/12/2024	411501	Machine Vision System
Friday 13/12/2024	411502	Robot System Reliability and Safety
Wednesday 18/12/2024	411503A	(ELECTIVE-III) Advanced Computational Techniques
	411503B	(ELECTIVE-III) Wireless sensor network
	411503 C	(ELECTIVE-III) Micro processor and microcontroller
	411503 D	(ELECTIVE-III) Ergonomics and work management
Friday 20/12/2024	411504A	(ELECTIVE-IV) Computational Fluid Dynamics
	411504B	(ELECTIVE-IV) Internet of Things and Machine Learning
	411504 C	(ELECTIVE-IV) Artificial Neural Networks and fuzzy systems
	411504 D	(ELECTIVE-IV) Power Electronics and Drives

SEMESTER-VIII

Time:-2.00 PM.TO 4.30 PM.

<b>Day &amp; Date</b>	<b>Paper Code</b>	<b>Subject</b>
Wednesday 27/11/2024	411508	Field and Service Robots
Friday 29/11/2024	411509	PLC and SCADA Programming
Wednesday 04/12/2024	411510A	(ELECTIVE-V) Reverse Engineering
	411510B	(ELECTIVE-V) Data Analytics
	411510 C	(ELECTIVE-V) Entrepreneurship and Innovations
	411510 D	(ELECTIVE-V) Electronics system design and Analysis
Friday 06/12/2024	411511A	(ELECTIVE-VI) Additive Manufacturing
	411511B	(ELECTIVE-VI) Industry4.0
	411511 C	(ELECTIVE-VI) VLSI design for Robotics
	411511 D	(ELECTIVE-VI) Intelligent Robotics Systems

## **B.E. ELECTRONICS & COMPUTER**

SEMESTER- VII

**Time:- 2.00 PM.TO 4.30 PM.**

<b>Day &amp; Date</b>	<b>Paper Code</b>	<b>Subject</b>
Wednesday 11/12/2024	410341	Data Science and Visualization
Friday 13/12/2024	410342	Web Technology
Monday 16/12/2024	410343	Internet of Things
Wednesday 18/12/2024	410344A	(Elective-III) Big Data & Analytics
	410344B	(Elective-III) Mobile Application Development
	410344 C	(Elective-III) Information and Cyber Security
	410344 D	(Elective-III) Digital Image Processing
Friday 20/12/2024	410345A	(Elective-IV) Robotics & Automation
	410345B	(Elective-IV) Human Computer Interface
	410345 C	(Elective-IV) Digital System Design
	410345 D	(Elective-IV) Augmented and Virtual Reality

SEMESTER-VIII

**Time:-2.00 PM.TO 4.30 PM.**

<b>Day &amp; Date</b>	<b>Paper Code</b>	<b>Subject</b>
Wednesday 27/11/2024	410350	Artificial Intelligence and Machine Learning
Friday 29/11/2024	410351	VLSI Design and Technology
Wednesday 04/12/2024	410352A	(Elective-V) Cloud Computing
	410352B	(Elective-V) Embedded System and Real Time Operating Systems
	410352C	(Elective-V) Software Testing and Quality Assurance
	410352 D	(Elective-V) Artificial Neural Network
Friday 06/12/2024	410353A	(Elective-VI) Data Mining and Warehousing
	410353B	(Elective-VI) Electric Vehicle Technology
	410353 C	(Elective-VI) Software Defined Radio
	410353 D	(Elective-VI) Wireless Sensor Network

**B.E. ARTIFICIAL INTELLIGENCE & DATA SCIENCE**

SEMESTER- VII

Time:- 2.00 PM.TO 4.30 PM.

Day & Date	Paper Code	Subject
Wednesday 11/12/2024	417521	Machine Learning
Friday 13/12/2024	417522	Data Modeling & Visualization
Wednesday 18/12/2024	417523A	(Elective-III) Quantum Artificial Intelligence
	417523B	(Elective-III) Industrial Internet of Things
	417523 C	(Elective-III) Enterprise Architecture and Components
	417523 D	(Elective-III) Bioinformatics
Friday 20/12/2024	417524A	(Elective-IV) GPU Programming and Architecture
	417524B	(Elective-IV) Information Retrieval
	417524 C	(Elective-IV) UI/UX Design
	417524 D	(Elective-IV) Optimization Algorithms

SEMESTER-VIII

Time:- 2.00 PM.TO 4.30 PM.

Day & Date	Paper Code	Subject
Wednesday 27/11/2024	417530	Computational Intelligence
Friday 29/11/2024	417531	Distributed Computing
Wednesday 04/12/2024	417532A	(Elective-V) Virtual Reality and Game Development
	417532B	(Elective-V) Big Data analytics
	417532 C	(Elective-V) Software Development for Portable Devices
	417532 D	(Elective-V) Deep Learning
Friday 06/12/2024	417533A	(Elective-VI) Augmented Reality
	417533B	(Elective-VI) Business Intelligence
	417533 C	(Elective-VI) Information Systems Management
	417533 D	(Elective-VI) Reinforcement Learning

**B.E. MECHATRONICS ENGINEERING**

SEMESTER- VII

Time:- 2.00 PM.TO 4.30 PM.

Day & Date	Paper Code	Subject
Wednesday 11/12/2024	417541	Robot Operating System
Friday 13/12/2024	417542	Data Communication
Monday 16/12/2024	417543	Micro Electro Mechanical Systems
Wednesday 18/12/2024	417544-A	(Elective-III) Image Processing and Computer Vision
	417544-B	(Elective-III) Medical Mechatronics
	417544-C	(Elective-III) Virtual Instrumentation
Friday 20/12/2024	417545-A	(Elective-IV) Product Design and Development
	417545-B	(Elective-IV) Operation Research
	417545-C	(Elective-IV) Industry4.0

SEMESTER-VIII

Time:- 2.00 PM.TO 4.30 PM.

Day & Date	Paper Code	Subject
Wednesday 27/11/2024	417548	Internet of Things
Friday 29/11/2024	417549	Vibration Analysis and Control
Wednesday 04/12/2024	417550-A	(Elective-V) App Development
	417550-B	(Elective-V) Rapid Prototyping
	417550-C	(Elective-V) Advanced Control Systems
Friday 06/12/2024	417551-A	(Elective-VI) Industrial Robotics
	417551-B	(Elective-VI) Human Machine Interface
	417551-C	(Elective-VI) Electric Vehicles



**B.E. COMPUTER SCIENCE AND DESIGN**

SEMESTER- VII

Time:- 2.00 PM.TO 4.30 PM.

Day & Date	Paper Code	Subject
Wednesday 11/12/2024	418241	Computer Vision
Friday 13/12/2024	418242	Deep learning
Monday 16/12/2024	418243	Game Design and Development
Wednesday 18/12/2024	418244-A	(Elective-III) Object Oriented Modelling and Design
	418244-B	(Elective-III) Software Testing and Quality Assurance
	418244-C	(Elective-III) Blockchain Technology
	418244-D	(Elective-III) Information Retrieval
Friday 20/12/2024	418245-A	(Elective-IV) Natural Language Processing
	418245-B	(Elective-IV) Software Development for Portable devices
	418245-C	(Elective-IV) Compiler Design
	418245-D	(Elective-IV) Advanced UI/UX Design

**B.E. HONORS/MINORS**

SEMESTER- VII

Time:- 2.00 PM.TO 4.30 PM.

Day & Date	Paper Code	Subject
Monday 23/12/2024	401301	Work Method Statement Making
	401401	Traffic and Transportation Planning
	402014MJ	Additive Manufacturing System Design
	402024MJ	Electrical Energy Systems
	302034MJ	Modelling and Simulation of EHV
	302044MJ	System modeling and simulation
	404181HR	Industrial Robotics & Automation
	404181HBCT	Smart Contracts & Cryptocurrency
	408214	Sustainable Packaging
	410301	Machine Learning
	410401	Internet of Things and Embedded Security
	410501	Machine Learning and Data Science
	410601	Machine Learning for Internet of Things
410701	Virtual Realityin Game Development	

**B.E.HONORS/MINORS**

SEMESTER-VIII

Time:- **2.00PM.TO 4.30 PM.**

<b>Day &amp; Date</b>	<b>Paper Code</b>	<b>Subject</b>
Monday 09/12/2024	401303	Tunnel Engineering
	401403	Land Use and Land Cover
	402016MJ	3D Printing Applications & Entrepreneurship
	402026MJ	Sustainable Energy Conversion Systems
	302036MJ	e-Vehicle Standards, Charging & Safety
	302046MJ	Systems Engineering Management
	404183HR	Artificial Intelligence in Robotics
	404183HBCT	Block Chain Solutions
	408216	Brand and Packaging Management
	410303	Soft Computing and Deep Learning
	410403	Information Systems Management
	410503	Artificial Intelligence for Big Data Analytics
	410603	Internet of Things Security
410703	Application Development using Augmented Reality and Virtual Reality	

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Ref. No/XCT: 656

Date: 22/10/2024

**Director,  
Board of Examinations and Evaluation**