SAVITRIBAI PHULE PUNE UNIVERSITY

(Formerly University of Pune)



EXAMINATION CIRCULAR NO. 225 OF 2025BACHELOR OF ENGINEERING (2019 PATTERN)

Examination of INSEM - Winter Session - 2025

(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 ENGINEERING)

SEMESTER-VII

Time-2.00 p.m. to 3.00 p.m.

Day & Date	SUBJECT (2019 Course)	SUBJECT CODE
Tuesday 19/08/2025	Automotive Testing and Certification	416481
Wednesday 20/08/2025	Machine and Vehicle Dynamics	416482
	(ELECTIVE - III) Artificial Intelligence and Machine Learning	416484A
Friday 22/08/2025	(ELECTIVE-III) Automotive Control Systems	416484B
	(ELECTIVE-III) Internet of Things**	402044E
Saturday	(ELECTIVE-IV) Finite Elements Analysis	416485A
23/08/2025	(ELECTIVE-IV)Computational Fluid Dynamics	416485B

NOTE:**COMMON WITH MECHANICAL ENGINEERING

B.E. (BIOTECHNOLOGY ENGINEERING)

SEMESTER-VII

Time-2.00 p.m. to 3.00 p.m.

Day & Date	SUBJECT (2019 Course)	SUBJECT CODE
Tuesday 19/08/2025	Biochemical Engineering	415461
Wednesday 20/08/2025	Bioinformatics	415462
	(ELECTIVE-III) Bioprocess Equipment Design	415463A
Friday 22/08/2025	(ELECTIVE-III) Environmental Biotechnology	415463B
	(ELECTIVE-III) Genomics	415463C
	(ELECTIVE - IV) Bioenergy and Renewable Resources	415464A
Saturday	(ELECTIVE-IV) Nanotechnology	415464B
23/08/2025	(ELECTIVE - IV) Stem Cell Biology and Regenerative Medicine	415464C

B.E. (CHEMICAL ENGINEERING)

Time-2.00 p.m. to 3.00 p.m.

Day & Date	SUBJECT (2019 Course)	SUBJECT CODE
Tuesday 19/08/2025	Process Dynamics and Control	409341
Wednesday 20/08/2025	Chemical Reaction Engineering-II	409342
Thursday 21/08/2025	Chemical Engineering Design	409343
	(ELECTIVE-III) Environmental Engineering	409344A
Friday	(ELECTIVE-III) Membrane Technology	409344B
22/08/2025	(ELECTIVE-III) Industrial Piping	409344C
	(ELECTIVE-III) Petroleum Refining	409344D
	(ELECTIVE-IV)Chemical Process Synthesis	409345A
Saturday	(ELECTIVE-IV) Industrial Management & Entrepreneurship	409345B
23/08/2025	(ELECTIVE-IV) Green Technology	409345C
	(ELECTIVE-IV) Advance Separation Processes	409345D

B.E. (CIVIL)

SEMESTER-VII

Time- 2.00 p.m. to 3.00 p.m.

Day & Date	SUBJECT (2019 Course)	SUBJECT CODE
Tuesday 19/08/2025	Foundation Engineering	401001
Wednesday 20/08/2025	Transportation Engineering	401002
	(ELECTIVE-III) Coastal Engineering	401003A
	(ELECTIVE - III)Advanced Design of Concrete Structures (Time – 2.00 p.m. to 3.15 p.m.)	401003B
Friday 22/08/2025	(ELECTIVE - III) Integrated Water Resources Planning & Management	401003C
	(ELECTIVE-III)Finite Element Method	401003D
	(ELECTIVE-III) Data Analytics	401003E
	(ELECTIVE-III) Operation Research	401003F
	(ELECTIVE-IV) Air Pollution and Control	401004A
	(ELECTIVE-IV) Advanced Design of Steel Structures (Time-2.00p.mto3.15p.m.)	401004B
Saturday 23/08/2025	(ELECTIVE-IV) Statistical Analysis and Computational Method	401004C
25/08/2025	(ELECTIVE-IV) Airport and Bridge Engineering	401004D
	(ELECTIVE-IV) Design of Prestressed Concrete Structures (Time–2.00p.mto3.15p.m.)	401004E
	(ELECTIVE - IV)Formwork and Plumbing Engineering	401004F

B.E. (COMPUTER ENGINEERING)

SEMESTER-VII

Time- 2.00 p.m. to 3.00 p.m.

Day & Date	SUBJECT (2019 Course)	SUBJECT CODE
Tuesday 19/08/2025	Design and Analysis of Algorithms	410241
Wednesday 20/08/2025	Machine Learning	410242
Thursday 21/08/2025	Block chain Technology	410243
	(ELECTIVE-III) Pervasive Computing	410244A
	(ELECTIVE-III) Multimedia Techniques	410244B
Friday 22/08/2025	(ELECTIVE-III) Cyber Security and Digital Forensics	410244C
	(ELECTIVE - III) Object Oriented Modeling and Design	410244D
	(ELECTIVE-III) Digital Signal Processing	410244E
	(ELECTIVE-IV) Information Retrieval	410245A
	(ELECTIVE-IV) GPU Programming and Architecture	410245B
Saturday 23/08/2025	(ELECTIVE-IV) Mobile Computing	410245C
	(ELECTIVE - IV) Software Testing and Quality Assurance	410245D
	(ELECTIVE-IV)Compilers	410245E

B.E. (MECHANICAL)

SEMESTER-VII

Time-2.00 p.m. to 3.00 p.m.

Day & Date	SUBJECT (2019 Course)	SUBJECT CODE
Tuesday 19/08/2025	Heating Ventilation Air-Conditioning and Refrigeration	402041
Wednesday 20/08/2025	Dynamics of Machinery (Time–2.00 p.m. to 3.15p.m.)	402042
	(ELECTIVE-III) Automobile Design	402044A
	(ELECTIVE - III)Design of Heat Transfer Equipments	402044B
Friday 22/08/2025	(ELECTIVE-III) Modern Machining Processes	402044C
	(ELECTIVE-III) Industrial Engineering	402044D
	(ELECTIVE-III) Internet of Things	402044E
	(ELECTIVE-III) Computational Fluid Dynamics	402044F
	(ELECTIVE-IV) Product Design and Development	402045A
Saturday	(ELECTIVE - IV)Experimental Methods in Thermal Engineering	402045B
23/08/2025	(ELECTIVE-IV) Additive Manufacturing	402045C
	(ELECTIVE-IV) Operations Research	402045D
	(ELECTIVE - IV) Augmented Reality and Virtual Reality	402045E

B.E. (ELECTRICAL)

Time -2.00 p.m. to 3.00 p.m.

Day & Date	SUBJECT (2019 Course)	SUBJECT CODE
Tuesday 19/08/2025	Power System Operation & Control	403141
Wednesday 20/08/2025	Advanced Control System	403142
	(ELECTIVE-III) PLC and SCADA	403143A
Friday	(ELECTIVE-III) Power Quality Management	403143B
22/08/2025	(ELECTIVE-III) High Voltage Engineering	403143C
	(ELECTIVE-III) Robotics and Automation	403143D
	(ELECTIVE-IV) Alternate Energy System	403144A
Saturday	(ELECTIVE-IV) Electrical & Hybrid Vehicle	403144B
23/08/2025	(ELECTIVE-IV)Special-purpose Machines	403144C
	(ELECTIVE-IV) HVDC & FACTS	403144D

B.E. (ELECTRONICS)

SEMESTER-VII

Time- 2.00 p.m. to 3.00 p.m.

Day & Date	SUBJECT (2019 Course)	SUBJECT CODE
Tuesday 19/08/2025	VLSI Design	404201
Wednesday 20/08/2025	Advanced Power Electronics	404202
Thursday 21/08/2025	Electronic System Design	404203
	(ELECTIVE-III) Speech Processing*	404184A
	(ELECTIVE-III) Internet of Things	404204A
Friday 22/08/2025	(ELECTIVE-III) Software Defined Radio	404204B
	(ELECTIVE - III) Testing and Verification for SOC design	404204C
	(ELECTIVE-III) JavaScript*	404184C
	(ELECTIVE-IV) Mobile Communication	404205A
	(ELECTIVE-IV) Embedded Systems	404205B
Saturday 23/08/2025	(ELECTIVE-IV) Optimization Techniques	404205C
	(ELECTIVE-IV) Low power CMOS*	404185D
	(ELECTIVE-IV) Smart Antennas*	404185E

NOTE:*COMMON WITH E &TC.

B.E. (ELECTRONICS & TELE COMMUNICATION)

Time-2.00 p.m. to 3.00 p.m.

Day & Date	SUBJECT (2019 Course)	SUBJECT CODE
Tuesday 19/08/2025	Radiation & Microwave Theory	404181
Wednesday 20/08/2025	VLSI Design and Technology	404182
Thursday 21/08/2025	Cloud Computing	404183
	(ELECTIVE-III) Speech Processing	404184A
	(ELECTIVE-III) PLC SCADA & Automation	404184B
Friday 22/08/2025	(ELECTIVE-III) JAVA Script	404184C
	(ELECTIVE-III) Embedded & RTOS	404184D
	(ELECTIVE-III) Modernized IoT	404184E
	(ELECTIVE-IV) Data Mining	404185A
	(ELECTIVE-IV) Electronic Product Development	404185B
Saturday 23/08/2025	(ELECTIVE-IV) Deep Learning	404185C
	(ELECTIVE-IV) Low Power CMOS	404185D
	(ELECTIVE-IV) Smart Antennas	404185E

B.E. (INFORMATION TECHNOLOGY)

SEMESTER-VII

Time-2.00 p.m. to 3.00 p.m.

Day& Date	SUBJECT (2019 Course)	SUBJECT CODE
Tuesday 19/08/2025	Information and Storage Retrieval	414441
Wednesday 20/08/2025	Software Project Management	414442
Thursday 21/08/2025	Deep Learning	414443
	(ELECTIVE-III) Mobile Computing	41444A
Friday	(ELECTIVE-III) High Performance Computing	414444B
22/08/2025	(ELECTIVE-III) Multimedia Technology	414444C
	(ELECTIVE-III) Smart Computing	414444D
	(ELECTIVE-IV)Bioinformatics	414445A
Saturday	(ELECTIVE-IV) Introduction to DevOps	414445B
23/08/2025	(ELECTIVE-IV) Computer Vision	414445C
	(ELECTIVE-IV) Wireless Communications	414445D

B. E. (INSTRUMENTATION & CONTROL)

Time-2.00 p.m. to 3.00 p.m.

Day & Date	SUBJECT (2019 Course)	SUBJECT CODE
Tuesday 19/08/2025	Process Control Techniques	406261
Wednesday 20/08/2025	Project Engineering and Management	406262
	(ELECTIVE-III) Digital Image Processing	406263A
Friday	(ELECTIVE-III) Data Analytics	406263B
22/08/2025	(ELECTIVE-III) Wireless Sensor Networks	406263C
	(ELECTIVE-III) Process Modelling and Optimization	406263D
	(ELECTIVE-IV) Cloud Computing	406264A
Saturday	(ELECTIVE-IV) Soft Computing	406264B
23/08/2025	(ELECTIVE-IV) Automotive Instrumentation	406264C
	(ELECTIVE-IV) Advanced Control System	406264D

B.E. PRINTING TECHNOLOGY

SEMESTER-VII

Time- 2.00 p.m. to 3.00 p.m.

Day & Date	SUBJECT (2019 Course)	SUBJECT CODE
Tuesday 19/08/2025	Gravure Printing Techniques	408283
Wednesday 20/08/2025	Digital Printing Techniques	408284
Friday	(ELECTIVE - III) Paper Board and Corrugation Package Technology	408281A
22/08/2025	(ELECTIVE-III) Polymer Science	408281B
Saturday	(ELECTIVE-IV) Multimedia Advertising	408282A
23/08/2025	(ELECTIVE - IV) Process Optimization and Total Quality Management in Printing	408282B

B.E. PRODUCTION ENGINEERING

Time-2.00 p.m. to 3.00 p.m.

Day& Date	SUBJECT (2019 Course)	SUBJECT CODE
Tuesday 19/08/2025	Automation and Control Engineering	411081
Wednesday 20/08/2025	Operations Research	411082
	(ELECTIVE - III) Simulation, Modeling and Digital Twin	411083A
Friday 22/08/2025	(ELECTIVE-III)Total Quality Management	411083B
	(ELECTIVE - III)Artificial Intelligence in Manufacturing	411083C
	(ELECTIVE-III) World Class Manufacturing	411083D
	(ELECTIVE - IV)Plant Maintenance and industrial safety	411084A
Saturday 23/08/2025	(ELECTIVE-IV) Surface Engineering	411084B
25, 55, 2525	(ELECTIVE-IV) Reverse Engineering	411084C
	(ELECTIVE-IV) Entrepreneurship and Innovations	411084D

B.E. PRODUCTION SANDWICH ENGINEERING

Time-2.00 p.m. to 3.00 p.m.

Day & Date	SUBJECT (2019 Course)	SUBJECT CODE
Tuesday 19/08/2025	Manufacturing Automation	411121
Wednesday 20/08/2025	Operations Research	411122
	(ELECTIVE-III) Additive Manufacturing	411123A
Friday	(ELECTIVE-III) Industrial Robotics	411123B
22/08/2025	(ELECTIVE-III) Reliability Engineering	411123C
	(ELECTIVE-III)Micro-Electro mechanical systems	411123D
	(ELECTIVE-IV) Creative Product Design	411124A
Saturday	(ELECTIVE-IV) Mechatronics	411124B
23/08/2025	(ELECTIVE-IV)CAD/CAM	411124C
	(ELECTIVE-IV) Data analytics	411124D

B.E. ROBOTICS & AUTOMATION

Time-2.00 p.m. to 3.00 p.m.

Day& Date	SUBJECT (2019Course)	SUBJECT CODE
Tuesday 19/08/2025	Machine Vision System	411501
Wednesday 20/08/2025	Robot System Reliability and Safety	411502
	(Elective-III) Advanced Computational Techniques	411503A
Friday 22/08/2025	(Elective-III) Wireless sensor network	411503B
22/08/2023	(Elective-III) Microprocessor and microcontroller	411503C
	(Elective-III) Ergonomics and work management	411503D
	(Elective-IV) Computational Fluid Dynamics	411504A
Saturday 23/08/2025	(Elective -IV) Internet of Things and Machine Learning	411504B
	(Elective -IV) Artificial Neural Networks and fuzzy systems	411504C
	(Elective-IV)Power Electronics and Drives	411504D

B.E. ARTIFICIAL INTELLIGENCE & MACHINE LEARNING

Time-2.00p.m. to 3.00p.m.

Day& Date	SUBJECT (2019 Course)	SUBJECT CODE
Tuesday 19/08/2025	Information Retrieval in AI	418541
Wednesday 20/08/2025	Cloud Computing	418542
Thursday 21/08/2025	Deep Learning for Al	418543
	(Elective-III) Quantum Computing	418544A
Friday 22/08/2025	(Elective-III) Block Chain	418544B
	(Elective-III) AI in Drones	418544C
	(Elective-IV) Ethical Hacking and cyber forensics	418545A
Saturday 23/08/2025	(Elective-IV) Augmented Reality and Virtual Reality	418545B
	(Elective-IV) DevOps in Machine Learning	418545C

B.E. AUTOMATION & ROBOTICS

Time-2.00 p.m. to3.00 p.m.

Day& Date	SUBJECT (2019 Course)	SUBJECT CODE
Tuesday 19/08/2025	Industrial Automation & Control Systems	402541
Wednesday 20/08/2025	Robotic Process Automation & Development	402542
	(Elective-III) Robotics: Cognitive & Medical	402544A
Friday	(Elective-III) Microprocessors and Microcontrollers	402544B
22/08/2025	(Elective-III) Modern Machining Processes	402544C
	(Elective-III) Industrial Engineering	402544D
	(Elective-III) Computational Fluid Dynamics	402544E
	(Elective-IV) Lean Manufacturing	402545A
Saturday	(Elective-IV) Project Management	402545B
23/08/2025	(Elective-IV) Additive Manufacturing	402545C
	(Elective-IV) Operations Research	402545D
	(Elective-IV) Augmented Reality and Virtual Reality	402545E

B.E. ELECTRONICS AND COMPUTER ENGINEERING

Time-2.00 p.m. to 3.00 p.m.

Day & Date	SUBJECT (2019 Course)	SUBJECT CODE
Tuesday 19/08/2025	Data Science and Visualization	410341
Wednesday 20/08/2025	Web Technology	410342
Thursday 21/08/2025	Internet of Things	410343
	(Elective-III) Big Data & Analytics	410344A
Friday	(Elective-III) Mobile Application Development	410344B
22/08/2025	(Elective-III) Information and Cyber Security	410344C
	(Elective-III) Digital Image Processing	410344D
	(Elective-IV) Robotics & Automation	410345A
Saturday	(Elective-IV) Human Computer Interface	410345B
23/08/2025	(Elective-IV) Digital System Design	410345C
	(Elective-IV) Augmented and Virtual Reality	410345D

B.E. ARTIFICIAL INTELLIGENCE & DATA SCIENCE

Time- 2.00 p.m. to 3.00 p.m.

Day & Date	SUBJECT (2019 Course)	SUBJECT CODE
Tuesday 19/08/2025	Machine Learning	417521
Wednesday 20/08/2025	Data Modeling &Visualization	417522
	(Elective-III) Quantum Artificial Intelligence	417523A
Friday	(Elective-III) Industrial Internet of Things	417523B
22/08/2025	(Elective -III) Enterprise Architecture and Components	417523C
	(Elective-III)Bioinformatics	417523D
	(Elective-IV) GPU Programming and Architecture	417524A
Saturday 23/08/2025	(Elective-IV) Information Retrieval	417524B
	(Elective-IV) UI/UX Design	417524C
	(Elective-IV) Optimization Algorithms	417524D

B.E. MECHATRONICS

Time- 2.00 p.m. to 3.00 p.m.

Day & Date	SUBJECT (2019 Course)	SUBJECT CODE
Tuesday 19/08/2025	Robot Operating System	417541
Wednesday 20/08/2025	Data Communication	417542
Thursday 21/08/2025	Micro Electro Mechanical Systems	417543
	(Elective -III) Image Processing and Computer Vision	417544-A
Friday 22/08/2025	(Elective-III) Medical Mechatronics	417544-B
	(Elective-III) Virtual Instrumentation	417544-C
	(Elective-IV) Product Design and Development	417545-A
Saturday 23/08/2025	(Elective-IV) Operation Research	417545-B
	(Elective-IV)Industry4.0	417545-C

B.E. COMPUTER SCIENCE AND DESIGN

Time- 2.00 p.m. to 3.00 p.m.

Day & Date	SUBJECT (2019 Course)	SUBJECT CODE
Tuesday 19/08/2025	Computer Vision	418241
Wednesday 20/08/2025	Deep learning	418242
Thursday 21/08/2025	Game Design and Development	418243
	(Elective -III) Object Oriented Modelling and Design	418244-A
Friday	(Elective -III) Software Testing and Quality Assurance	418244-В
22/08/2025	(Elective-III) Block chain Technology	418244-C
	(Elective-III) Information Retrieval	418244-D
	(Elective-IV) Natural Language Processing	418245-A
Saturday 23/08/2025	(Elective -IV) Software Development for Portable devices	418245-В
23/06/2023	(Elective-IV) Compiler Design	418245-C
	(Elective-IV) Advanced UI/UX Design	418245-D

B.E. HONORS/MINORS

SEMESTER-VII

Time-2.00 p.m. to 3.00 p.m.

Day & Date	SUBJECT (2019 Course)	SUBJECT CODE
	Traffic and Transportation Planning	401401
	Work Method Statement Making	401301
	Sustainable Packaging	408214
	Smart Contracts & Cryptocurrency	404181HBCT
	Industrial Robotics & Automation	404181HR
Monday	Additive Manufacturing System Design	402014MJ
25/08/2025	Modelling and Simulation of EHV	302034MJ
	Electrical Energy Systems	402024MJ
	System modeling and simulation	302044MJ
	Machine Learning	410301
	Internet of Things and Embedded Security	410401
	Machine Learning and Data Science	410501
	Machine Learning for Internet of Things	410601
	Virtual Reality in Game Development	410701

Ganeshkhind, Pune-411007 Ref./Exam/ Coord/686 Date: 04/08/2025

Director
Board of Examinations & Evaluation