

SAVITRIBAI PHULE PUNE UNIVERSITY

(Formerly University of Pune)



Examination Circular No .302 of 2018
Programme of B.E. 2012 & 2015 Course (All Branches) In Sem (SEM-I) Examinations,
AUGUST, 2018.

INSTRUCTIONS FOR CANDIDATES

1. Candidates are required to be present at respective college of the Examination, Thirty minutes before the time fixed for the paper.
2. Candidates are forbidden from taking any material into the examination hall that can be used for malpractice at the time of examination.
3. No request for any special concession such as a change in time or any day fixed for the University Examination on any ground shall be granted.
4. Candidates are requested to see the Notice -Board at their place of examination regularly for changes if any, that may be notified later in the programme.
5. Candidates are requested to note the Day, Date and Time of every Paper on every Day.
6. Candidates are permitted to use stencils at the time of examination.
7. Candidates appearing for the examination are expected to provide themselves with slide-rules. The exchange or loan of slide-rules, drawing instrument or other material in the examination hall is not permitted while the examination is in progress. Candidates must bring their own instruments and will not be allowed to borrow the same from each other under any circumstances.
8. Use of non-programmable battery operated electronic calculator of pocket size is allowed. The exchange of calculator is not allowed.
9. The Written Examination will be conducted in the following order:

B.E. (AUTOMOBILE ENGINEERING)

SEMESTER-I

Time – 1.30 to 2.30 p.m.

Day & Date	SUBJECT (2012 Course)	SUBJECT (2015 Course)
Tuesday, 07.08.2018	Automotive Refrigeration and Air Conditioning (416488)	Automotive Refrigeration and Air Conditioning (416488)
Wednesday, 08.08.2018	Automotive Chassis and Systems (416489)	Alternative Fuels and Emission Control (416489)
Thursday, 09.08.2018	Machine and Vehicle Dynamics (416490)	Machine and Vehicle Dynamics (416490)
Friday, 10.08.2018	<u>Elective – I (416491)</u> a) Fundamentals of Computational Fluid Dynamics b) Fundamentals of Finite Element Analysis c) CAE and Automation	<u>Elective – I (416491)</u> a) Fundamentals of Computational Fluid Dynamics b) Fundamentals of Finite Element Analysis c) CAE and Automation
Saturday, 11.08.2018	<u>Elective – II (416492)</u> a) Hybrid and Fuel Cell Vehicle b) Automotive Materials c) Automotive Hydraulics and Pneumatics	<u>Elective – II (416492)</u> a) Special Purpose Vehicle b) Vehicle Maintenance c) Product Design and Development

B.E. (CHEMICAL ENGINEERING)

SEMESTER-I

Time – 1.30 to 2.30 p.m.

Day & Date	SUBJECT (2012 Course)	SUBJECT (2015 Course)
Tuesday, 07.08.2018	Process Dynamics and Control (409341)	Process Dynamics and Control (409341)
Wednesday, 08.08.2018	Chemical Reaction Engineering II (409342)	Chemical Reaction Engineering II (409342)
Thursday, 09.08.2018	Chemical Engineering Design II (409343)	Chemical Engineering Design II (409343)
Friday, 10.08.2018	<u>Elective – I (409344)</u> a) Environmental Engineering b) Membrane Technology c) Corrosion Engineering d) Petroleum Refining	<u>Elective – I (409344)</u> a) Environmental Engineering b) Membrane Technology c) Corrosion Engineering d) Petroleum Refining
Saturday, 11.08.2018	<u>Elective – II (409345)</u> a) Chemical Process Synthesis b) Industrial Management & Entrepreneurship c) Piping Design & Engineering d) Advance Separation Processes	<u>Elective – II (409345)</u> a) Chemical Process Synthesis b) Industrial Management & Entrepreneurship c) Piping Design & Engineering d) Advance Separation Processes

B.E.(CIVIL)

SEMESTER-I

Time – 1.30 to 2.30 p.m.

Day & Date	SUBJECT (2012 Course)	SUBJECT (2015 Course)
Tuesday, 07.08.2018	Environmental Engineering – II (401001)	Environmental Engineering – II (401001)
Wednesday, 08.08.2018	Transportation Engineering (401002)	Transportation Engineering (401002)
Thursday, 09.08.2018	Structural Design and Drawing –III (401003) <i>(* Time - 1.30 to 3.00)</i>	Structural Design and Drawing –III (401003) <i>(* Time - 1.30 to 3.00)</i>
Friday, 10.08.2018	<u>Elective – I (401004)</u> a) Structural Design of Bridges b) System Approach in Civil Engineering c) Advanced Concrete Technology d) Architecture and Town Planning e) Advanced Engineering Geology with Rock Mechanics	<u>Elective – I (401004)</u> a) Structural Design of Bridges b) System Approach in Civil Engineering c) Advanced Concrete Technology d) Architecture and Town Planning e) Advanced Engineering Geology with Rock Mechanics
Saturday, 11.08.2018	<u>Elective – II (401005)</u> a) Matrix Methods of Structural Analysis b) Integrated Water Resources and Planning c) TQM & MIS in Civil Engineering d) Earthquake Engineering e) Advanced Geotechnical Engineering	<u>Elective – II (401005)</u> a) Matrix Methods of Structural Analysis b) Integrated Water Resources and Planning and Management c) TQM & MIS in Civil Engineering d) Earthquake Engineering e) Advanced Geotechnical Engineering

* Please note the Timing

B.E. (COMPUTER ENGINEERING)

SEMESTER-I

Time – 1.30 to 2.30 p.m.

Day & Date	SUBJECT (2012 Course)	SUBJECT (2015 Course)
Tuesday, 07.08.2018	Design & Analysis of Algorithms (410441)	High Performance Computing (410241)
Wednesday, 08.08.2018	Principles of Modern Compiler Design (410442)	Artificial Intelligence and Robotics (410242)
Thursday, 09.08.2018	Smart System Design and Applications (410 443)	Data Analytics (410243)
Friday, 10.08.2018	<u>Elective – I (410444)</u> a) Image Processing b) Computer Network Design and Modeling, c) Advanced Computer Programming, d) Data Mining Techniques and Applications.	<u>Elective – I (410244)</u> a) Digital Signal Processing b) Software Architecture and Design c) Pervasive and Ubiquitous Computing d) Data Mining and Warehousing
Saturday, 11.08.2018	<u>Elective – II (410445)</u> a) Problem Solving with Gamification b) Pervasive Computing c) Embedded Security d) Multidisciplinary NLP	<u>Elective – II (410245)</u> a) Distributed Systems b) Software Testing and Quality Assurance c) Operation Research d) Mobile Communications

B.E. (MECHANICAL)

SEMESTER-I

Time – 1.30 to 2.30 p.m.

Day & Date	SUBJECT (2012 Course)	SUBJECT (2015 Course)
Tuesday, 07.08.2018	Refrigeration and Air Conditioning (402041)	Hydraulics and Pneumatics (402041)
Wednesday, 08.08.2018	CAD/CAM Automation (402042)	CAD/CAM Automation (402042)
Thursday, 09.08.2018	Dynamics of Machinery (402043)	Dynamics of Machinery (402043)
Friday, 10.08.2018	<p style="text-align: center;"><u>Elective – I (402044)</u></p> a) Energy Audit Management b) Tribology c) Reliability Engineering d) Machine Tool Design	<p style="text-align: center;"><u>Elective – I (402044)</u></p> a) Finite Element Analysis b) Computational Fluid Dynamics c) Heating Ventilation and Air Conditioning
Saturday, 11.08.2018	<p style="text-align: center;"><u>Elective – II (402045)</u></p> a) Gas Turbine Propulsion b) Product Design and Development c) Operation Research d) Advanced Manufacturing Processes	<p style="text-align: center;"><u>Elective – II (402045)</u></p> a) Automobile Engineering b) Operation Research c) Energy Audit and Management

B.E. (ELECTRICAL)

SEMESTER-I

Time – 1.30 to 2.30 p.m.

Day & Date	SUBJECT (2012 Course)	SUBJECT (2015 Course)
Tuesday, 07.08.2018	Power System Operation and Control (403141)	Power System Operation and Control (403141)
Wednesday, 08.08.2018	PLC and SCADA Applications (403142)	PLC and SCADA Applications (403142)
Thursday, 09.08.2018	Control System – II (403145)	Control System – II (403145)
Friday, 10.08.2018	<u>Elective – I (403143)</u> a) Special Purpose Machines b) Power Quality c) Renewable Energy Systems d) Digital Signal Processing	<u>Elective – I (403143)</u> a) Fundamentals of Microcontroller MSP430 and its Applications (Open Elective) b) Power Quality c) Renewable Energy Systems d) Digital Signal Processing
Saturday, 11.08.2018	<u>Elective – II (403144)</u> a) Restructuring and Deregulation b) Electromagnetic Fields c) EHV AC Transmission d) Introduction to Electrical Transportation Systems	<u>Elective – II (403144)</u> a) Restructuring and Deregulation b) Electromagnetic Fields c) EHV AC Transmission d) Electric and Hybrid Vehicles e) Special Purpose Machines

B.E. (ELECTRONICS)

SEMESTER-I

Time – 1.30 to 2.30 p.m.

Day & Date	SUBJECT (2012 Course)	SUBJECT (2015 Course)
Tuesday, 07.08.2018	VLSI Design (404201)	VLSI Design (404201)
Wednesday, 08.08.2018	Electronics System Design (404202)	Advanced Power Electronics (404202)
Thursday, 09.08.2018	Advanced Power Electronics (404203)	Electronics System Design (404203)
Friday, 10.08.2018	<u>Elective – I (404204)</u> a) Image Processing and Machine Vision b) Embedded Systems & RTOS c) Biomedical Instrumentation d) Advanced Measurement Systems	<u>Elective – I (404204)</u> a) Digital Image and Video Processing b) Audio and Speech Processing c) Embedded Systems & RTOS d) Internet of Things e) Software Defined Radio
Saturday, 11.08.2018	<u>Elective – II (404205)</u> a) DSP Processors b) Robotics and Automation c) Electronics in Agriculture d) Mobile Communication	<u>Elective – II (404205)</u> a) Mobile Communication b) Bio-Medical Electronics c) Optimization Techniques d) Computer Modelling And Simulation e) Digital Signal Processor TMS320C67X

B.E. (ELECTRONICS & TELECOMMUNICATIONS)

SEMESTER-I

Time – 1.30 to 2.30 p.m.

Day & Date	SUBJECT (2012 Course)	SUBJECT (2015 Course)
Tuesday, 07.08.2018	VLSI Design & Technology (404181)	VLSI Design & Technology (404181)
Wednesday, 08.08.2018	Computer Networks (404182)	Computer Networks and Security (404182)
Thursday, 09.08.2018	Microwave Engineering (404183)	Radiation and Microwave Techniques (404183)
Friday, 10.08.2018	<p style="text-align: center;"><u>Elective – I (404184)</u></p> <ul style="list-style-type: none"> a) Digital Image Processing b) Embedded System and RTOS c) Software Defined Radio d) Industrial Drives and Control 	<p style="text-align: center;"><u>Elective – I (404184)</u></p> <ul style="list-style-type: none"> a) Digital Image and Video Processing b) Industrial Drives and Control c) Embedded System and RTOS d) Internet of Things
Saturday, 11.08.2018	<p style="text-align: center;"><u>Elective – II -(404185)</u></p> <ul style="list-style-type: none"> a) Multi rate & Adaptive Signal Processing b) Electronic Product Design c) PLCs and Automation d) Artificial Intelligence 	<p style="text-align: center;"><u>Elective – II -(404185)</u></p> <ul style="list-style-type: none"> a) Wavelets b) Electronic Product Design c) Optimization Techniques d) Artificial Intelligence e) Electronics in Agriculture

B.E. (INFORMATION TECHNOLOGY)

SEMESTER-I

Time – 1.30 to 2.30 p.m.

Day & Date	SUBJECT (2012 Course)	SUBJECT (2015 Course)
Tuesday, 07.08.2018	Information and Cyber Security (414453)	Information and Cyber Security (414453)
Wednesday, 08.08.2018	Software Modeling and Design (414454)	Machine Learning and Applications (414454)
Thursday, 09.08.2018	Machine Learning (414455)	Software Design and Modeling (414455)
Friday, 10.08.2018	<p style="text-align: center;"><u>Elective – I (414456)</u></p> <ul style="list-style-type: none"> a) Soft Computing b) Usability Engineering c) Modern Compilers d) Parallel Algorithms and Design e) Cloud Computing 	<p style="text-align: center;"><u>Elective – I (414456)</u></p> <ul style="list-style-type: none"> a) Wireless Communications b) Natural Language Processing c) Usability Engineering d) Multicore and Concurrent Systems e) Business Analytics and Intelligence
Saturday, 11.08.2018	<p style="text-align: center;"><u>Elective – II (414457)</u></p> <ul style="list-style-type: none"> a) Business Intelligence b) Service Oriented Architecture c) E& M Governance d) Geo Informatics Systems e) Natural Language Processing 	<p style="text-align: center;"><u>Elective – II (414457)</u></p> <ul style="list-style-type: none"> a) Software Defined Networks b) Soft Computing c) Software Testing and Quality Assurance d) Compiler Construction e) Gamification

B.E. INSTRUMENTATION & CONTROL

SEMESTER-I

Time – 1.30 to 2.30 p.m.

Day & Date	SUBJECT (2012 Course)	SUBJECT (2015 Course)
Tuesday, 07.08.2018	Process Instrumentation - I (406261)	Process Dynamics and Control (406261)
Wednesday, 08.08.2018	Project Engineering & Management (406262)	Project Engineering & Management (406262)
Thursday, 09.08.2018	Digital Control (406263)	Computer Techniques and Applications (406263)
Friday, 10.08.2018	<u>Elective – I (406264)</u> a) Advanced Bio-Medical Instrumentation b) Building Automation - I c) Advanced Control Systems d) Advanced Sensors e) Advanced Digital Signal Processing	<u>Elective – I (406264)</u> a) Industrial Internet of Things b) Electrical Drives c) Advanced Digital Signal Processing d) Advanced Bio-Medical Instrumentation e) Digital Control Systems
Saturday, 11.08.2018	<u>Elective – II (406265)</u> a) Opto- Electronics Instrumentation b) Environmental Instrumentation c) Robotics & Automation d) Sensor Networks e) Fault Detection and Diagnosis	<u>Elective – II (406265)</u> a) Smart and Wireless Instrumentation b) Instrumentation and Control for Power Plants c) Automotive Instrumentation d) Opto- Electronics Instrumentation e) Soft Computing

Ganeshkhind, Pune-411007
Ref. / XCT / 1279
Date: 23/07/2018

Dr. Ashok Chavan
Director
Board of Examinations & Evaluation