

SAVITRIBAI PHULE PUNE UNIVERSITY

(Formerly University of Pune)



EXAMINATION CIRCULAR NO.205 OF. 2019

BACHELOR OF ENGINEERING (2012 & 2015 COURSE)

Examination of APR/MAY-2019

(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 time fixed for paper.
- Candidates are forbidden from taking any material into the examination hall, that can be used for malpractice at the time of examination.
- 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 program.
- 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.
- Candidates are requested to note the Day, Date and Time of every Paper on every day.
- Candidates are permitted to use stencils at the time of examination.
- Candidates appearing for the examinations are expected to provide themselves with Side- rules.
- The exchange or loan of side-rules, drawing instruments of other materials used in the examination hall is Not Permitted while the examinations are in process. 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 Calculator of Pocket-size is allowed. The exchange of Calculators is not allowed.
- The written examination will be conducted in the following order.

AUTOMOBILE

SEM-I

Day & Date	2015 Course Time-2.00 PM To 04.30 PM	2012 Course Time-02.00 PM To 04.30 PM
Saturday 04/05/2019	Automotive Refrigeration & Air-Conditioning (416488)	Automotive Refrigeration And Air Conditioning (416488)
Thursday 09/05/2019	Alternative Fuels & Emission Control (416489)	Automotive Chassis And Systems (416489)
Saturday 11/05/2019	Machine & Vehicle Dynamics (416490)	Machine And Vehicle Dynamics (416490)
Tuesday 14/05/2019	ELECTIVE-I Fundamentals of Computational Fluid Dynamics (416491A)	ELECTIVE-I Fundamentals Of Computational Fluid Dynamics (416491A)
	ELECTIVE-I Fundamentals of Finite Element Analysis (416491B)	ELECTIVE-I Fundamentals Of Finite Element Analysis (416491B)
	ELECTIVE-I CAE & Automation (416491C)	ELECTIVE-I CAE And Automation (416491C)
Thursday 16/05/2019	ELECTIVE-II Special Purpose Vehicle (416492A)	ELECTIVE-II Hybrid And Fuel Cell Vehicle (416492A)
	ELECTIVE-II Vehicle Maintenance (416492B)	ELECTIVE-II Automotive Materials (416492B)
	ELECTIVE-II Product Design & Development (416492C)	ELECTIVE-II Automotive Hydraulics And Pneumatics (416492C)

SEM-II

Day & Date	2015 Course Time-2.00 PM To 04.30 PM	2012 Course Time-02.00 PM To 04.30 PM
Monday 20/05/2019	Automotive Systems and Testing (416495)	Vehicle Performance And Testing. (416495)
Wednesday 22/05/2019	Automotive System Design (416496)	Automotive System Design (416496)
Friday 24/05/2019	ELECTIVE-III Automotive NVH (416497A)	ELECTIVE - III Automotive NVH (416497A)
	ELECTIVE-III Hybrid Electric and Fuel cell Vehicle (416497B)	ELECTIVE - III Off Road Vehicle (416497B)
	ELECTIVE-III Automotive Hydraulics and Pneumatics (416497C)	ELECTIVE - III Alternative Fuels And Emission Control (416497C)
Monday 27/05/2019	ELECTIVE-IV Operation Research (416498A)	ELECTIVE - IV Transport Management And Motor Industries (416498A)
	ELECTIVE-IV Transport Management and Motor Industries (416498B)	ELECTIVE - IV Operation Research (416498B)
	ELECTIVE-IV Engineering Economics and Financial Management (416498C)	

CHEMICAL

SEM-I

Day & Date	2015 Course Time-02.00 PM To 04.30 PM	2012 Course Time-02.00 PM To 04.30 PM
Saturday 04/05/2019	Process Dynamics & Control (409341)	Process Dynamics And Control (409341)
Thursday 09/05/2019	Chemical Reaction Engineering - II (409342)	Chemical Reaction Engineering-II (409342)
Saturday 11/05/2019	Chemical Engineering Design- II (409343)	Chemical Engineering Design-II (409343)
Tuesday 14/05/2019	ELECTIVE-I Environmental Engineering (409344A)	ELECTIVE-I Environmental Engineering (409344A)
	ELECTIVE-I Membrane Technology (409344B)	ELECTIVE-I Membrane Technology (409344B)
	ELECTIVE-I Corrosion Engineering (409344C)	ELECTIVE-I Corrosion Engineering (409344C)
	ELECTIVE-I Petroleum Refining (409344D)	ELECTIVE-I Petroleum Refining (409344D)
Thursday 16/05/2019	ELECTIVE-II Chemical Process Synthesis (409345A)	ELECTIVE-II Chemical Process Synthesis (409345A)
	ELECTIVE-II Industrial Management & Entrepreneurship (409345B)	ELECTIVE-II Industrial Management And Entrepreneurship (409345B)
	ELECTIVE-II Piping Design & Engineering (409345C)	ELECTIVE-II Piping Design And Engineering (409345C)
	ELECTIVE-II Advanced Separation Processes (409345D)	ELECTIVE-II Advance Separation Processes (409345D)

SEM-II

Day & Date	2015 Course Time-02.00 PM To 04.30 PM	2012 Course Time-02.00 PM To 04.30 PM
Monday 20/05/2019	Process Modeling and Simulation (409349)	Process Modelling & Simulation (409349)
Wednesday 22/05/2019	Process Engineering Costing & Plant Design (409350)	Process Engineering Costing & Plant Design (409350)
Friday 24/05/2019	ELECTIVE-III Energy Conservation In Chemical Process Industries (409351A)	ELECTIVE-III Energy Conservation In Chemical Process Industries (409351A)
	ELECTIVE-III Chemical Process Safety (409351B)	ELECTIVE-III Chemical Process Safety (409351B)
	ELECTIVE-III Food Technology (409351C)	ELECTIVE-III Food Technology (409351C)
	ELECTIVE-III Advanced Materials (409351D)	ELECTIVE-III Advanced Materials (409351D)
Monday 27/05/2019	ELECTIVE-IV Catalysis (409352A)	ELECTIVE-IV Catalysis (409352A)
	ELECTIVE-IV Nanotechnology (409352B)	ELECTIVE-IV Nanotechnology (409352B)
	ELECTIVE-IV Fuel Cell Technology (409352C)	ELECTIVE-IV Fuel Cell Technology (409352C)
	ELECTIVE-IV Petrochemical Engineering (409352D)	ELECTIVE-IV Petrochemical Engineering (409352D)

CIVIL

SEM-I

Day & Date	2015 Course Time-2.00 PM To 04.30 PM	2012 Course Time-02.00 PM To 04.30 PM
Saturday 04/05/2019	Environmental Engineering - II (401001)	Environmental Engineering - II (401001)
Thursday 09/05/2019	Transportation Engineering (401002)	Transportation Engineering (401002)
Saturday 11/05/2019	* Structural Design & Drawing-III (401003) 2.00 PM To 05.00 PM	* Structural Design & Drawing - III (401003) 02.00 PM To 05.00 PM
Tuesday 14/05/2019	ELECTIVE-I Structural Design of Bridges (401004A)	ELECTIVE-I Structural Design Of Bridges (401004A)
	ELECTIVE-I Systems Approach in Civil Engineering (401004B)	ELECTIVE-I Systems Approach In Civil Engineering (401004B)
	ELECTIVE-I Advanced Concrete Technology (401004C)	ELECTIVE-I Advanced Concrete Technology (401004C)
	ELECTIVE-I Architecture and Town Planning (401004D)	ELECTIVE-I Architecture And Town Planning (401004D)
	ELECTIVE-I Advanced Engineering Geology with Rock Mechanics (401004E)	ELECTIVE-I Advanced Engineering Geology With Rock Mechanics (401004E)
Thursday 16/05/2019	ELECTIVE-II Matrix Methods of Structural Analysis (401005A)	ELECTIVE-II Matrix Methods Of Structural Analysis (401005A)
	ELECTIVE-II Integrated Water Resources Planning & Management (401005B)	ELECTIVE-II Integrated Water Resources And Planning (401005B)
	ELECTIVE-II TQM & MIS in Civil Engineering (401005C)	ELECTIVE-II TQM & MIS In Civil Engineering (401005C)
	ELECTIVE-II Earthquake Engineering (401005D)	ELECTIVE-II Earthquake Engineering (401005D)
	ELECTIVE-II Advanced Geotechnical Engineering (401005E)	ELECTIVE-II Advanced Geotechnical Engineering (401005E)

NOTE:-

**Please note the timing*

SEM-II

Day & Date	2015 Course Time-2.00 PM To 04.30 PM	2012 Course Time-02.00 PM To 04.30 PM
Monday 20/05/2019	Dams and Hydraulic Structures (401007)	Dams And Hydraulic Structures (401007)
Wednesday 22/05/2019	Quantity Surveying, Contracts and Tenders (401008)	Quantity Surveying cotracts And Tenders (401008)
Friday 24/05/2019	ELECTIVE-III Advanced Structural Design (401009A)	ELECTIVE-III Advanced Structural Design (401009A)
	ELECTIVE-III Statistical Analysis and Computational Methods in Civil Engineering (401009B)	ELECTIVE-III Advanced Foundation Engineering (401009B)
	ELECTIVE-III Hydropower Engineering (401009C)	ELECTIVE-III Hydropower Engineering (401009C)
	ELECTIVE-III Air Pollution and control (401009D)	ELECTIVE-III Air Pollution And Control (401009D)
	ELECTIVE-III Finite Element Method in Civil Engineering (401009E)	ELECTIVE-III Finite Element Method In Civil Engineering (401009E)
	ELECTIVE-III Airport and Bridge Engineering (401009F)	
Monday 27/05/2019	ELECTIVE-IV Construction Management (401010A)	ELECTIVE-IV Construction Management (401010A)
	ELECTIVE-IV Advanced Transportation Engineering (401010B)	ELECTIVE-IV Advanced Transportation Engineering (401010B)
	ELECTIVE-IV Advanced foundation Engineering. (401010C)	ELECTIVE-IV Statistical Analysis And Computational Methods In Civil Engineering (401010C)
	ELECTIVE-IV Coastal Engineering (401010D)	OPEN ELECTIVE Plumbing Engineering (401010DA)
	OPEN ELECTIVE Plumbing Engineering (401010EA)	OPEN ELECTIVE Green Building Technology (401010DB)
	OPEN ELECTIVE Green Building Technology (401010EB)	OPEN ELECTIVE Ferrocement Technology (401010DC)
	OPEN ELECTIVE Ferrocement Technology (401010EC)	OPEN ELECTIVE Sub Sea Engineering (401010DD)
	OPEN ELECTIVE Sub sea Engineering (401010ED)	OPEN ELECTIVE Wave Mechanics (401010DE)
OPEN ELECTIVE Geoinformatics (401010EE)	OPEN ELECTIVE Repairs and Retrofitting of Concrete Structure (401010DF)	

COMPUTER

SEM-I

Day & Date	2015 Course Time-2.00 PM To 04.30 PM	2012 Course Time-02.00 PM To 04.30 PM
Saturday 04/05/2019	High Performance Computing (410241)	Design & Analysis Of Algorithms (410441)
Thursday 09/05/2019	Artificial Intelligence & Robotics (410242)	Principles Of Modern Compiler Design (410442)
Saturday 11/05/2019	Data Analysis (410243)	Smart System Design And Applications (410443)
Tuesday 14/05/2019	ELECTIVE-I Digital Signal Processing (410244A)	ELECTIVE-I Image Processing (410444A)
	ELECTIVE-I Software Architecture & Design (410244B)	ELECTIVE-I Computer Network Design And Modeling (410444B)
	ELECTIVE-I Pervasive & Ubiquitous Computing (410244C)	ELECTIVE-I Advanced Computer Programming (410444C)
	ELECTIVE-I Data Mining & Warehousing (410244D)	ELECTIVE-I Data Mining Techniques And Applications (410444D)
Thursday 16/05/2019	ELECTIVE-II Distributed Systems (410245A)	ELECTIVE-II Problem Solving With Gamification (410445A)
	ELECTIVE-II Software Testing & Quality Assurance (410245B)	ELECTIVE-II Pervasive Computing (410445B)
	ELECTIVE-II Operation Research (410245C)	ELECTIVE-II Embedded Security (410445C)
	ELECTIVE-II Mobile Communication (410245D)	ELECTIVE-II Multidisciplinary NLP (410445D)

SEM-II

Day & Date	2015 Course Time-2.00 PM To 04.30 PM	2012 Course Time-02.00 PM To 04.30 PM
Monday 20/05/2019	Machine Learning (410250)	Software Design Methodology And Testing (410449)
Wednesday 22/05/2019	Information and Cyber Security (410251)	High Performance Computing (410450)
Friday 24/05/2019	ELECTIVE-III Advanced Digital Signal Processing (410252A)	ELECTIVE-III Mobile Computing (410451A)
	ELECTIVE-III Compilers (410252B)	ELECTIVE-III Web Technology (410451B)
	ELECTIVE-III Embedded and Real Time Operating Systems (410252C)	ELECTIVE-III Cloud Computing (410451C)
	ELECTIVE-III Soft Computing and Optimization Algorithms (410252D)	ELECTIVE-III Cyber Security (410451D)
Monday 27/05/2019	ELECTIVE-IV Software Defined Networks (410253A)	ELECTIVE-IV Business Analytic And Intelligence (410452A)
	ELECTIVE-IV Human Computer Interface (410253B)	ELECTIVE-IV Operations Research For Algorithms In Scientific Applications (410452B)
	ELECTIVE-IV Cloud Computing (410253C)	ELECTIVE-IV Mobile Applications (410452C)
	ELECTIVE-IV Business Intelligence (410253DA)	OPEN ELECTIVE Unified Communications and Contact center Applications (410452DA)
	ELECTIVE-IV Enterprise Resource Planning (410253DB)	OPEN ELECTIVE Programming Paradigms for Complex Problems –case studies in Python (410452DB)
	OPEN ELECTIVE Big Data & Data Analytics (410253DC)	OPEN ELECTIVE Concurrency on Open Source Systems (410452DC)
		OPEN ELECTIVE Fundamentals of Software Defined Network (410452DD)
		OPEN ELECTIVE Big Data and Data Analytics (410452DE)

ELECTRICAL

SEM-I

Day & Date	2015 Course Time-2.00 PM To 04.30 PM	2012 Course Time-02.00 PM To 04.30 PM
Saturday 04/05/2019	Power System Operation & Control (403141)	Power System Operation And Control (403141)
Thursday 09/05/2019	PLC & SCADA Applications (403142)	PLC And SCADA Applications (403142)
Saturday 11/05/2019	Control System-II (403145)	Control System - II (403145)
Tuesday 14/05/2019	ELECTIVE-I Fundamentals of Microcontroller & its Applications (403143A)	ELECTIVE-I Special Purpose Machines (403143A)
	ELECTIVE-I Power Quality (403143B)	ELECTIVE-I Power Quality (403143B)
	ELECTIVE-I Renewable Energy System (403143C)	ELECTIVE-I Renewable Energy Systems (403143C)
	ELECTIVE-I Digital Signal Processing (403143D)	ELECTIVE-I Digital Signal Processing (403143D)
Thursday 16/05/2019	ELECTIVE-II Restructuring & De Regulation (403144A)	ELECTIVE-II Restructuring And Deregulation (403144A)
	ELECTIVE-II Electromagnetic Field (403144B)	ELECTIVE-II Electromagnetic Fields (403144B)
	ELECTIVE-II EHV AC Transmission (403144C)	ELECTIVE-II EHV AC Transmission (403144C)
	ELECTIVE-II Electric & Hybrid Vehicles (403144D)	ELECTIVE-II Introduction To Electrical Transportation Systems (403144D)
	ELECTIVE-II Special Purpose Machines (403144E)	

SEM-II

Day & Date	2015 Course Time-2.00 PM To 04.30 PM	2012 Course Time-02.00 PM To 04.30 PM
Monday 20/05/2019	Switchgear and Protection (403147)	Switchgear And Protection (403147)
Wednesday 22/05/2019	Power Electronic Controlled Drives (403148)	Power Electronic Controlled Drives (403148)
Friday 24/05/2019	ELECTIVE-III High Voltage Engineering (403149A)	ELECTIVE-III High Voltage Engineering (403149A)
	ELECTIVE-III HVDC and FACTS (403149B)	ELECTIVE-III HVDC And FACTS (403149B)
	ELECTIVE-III Digital Control System (403149C)	ELECTIVE-III Digital Control System (403149C)
	ELECTIVE-III Intelligent Systems and Applications in Electrical Engineering (403149D)	ELECTIVE-III Intelligent Systems And Its Applications In Electrical Engineering (403149D)
	ELECTIVE-III Analog Electronics and Sensing Technology [Open Elective] (403149E)	
Monday 27/05/2019	ELECTIVE-IV Smart Grid (403150A)	ELECTIVE-IV Smart Grid (403150A)
	ELECTIVE-IV Robotics and Automation (403150B)	ELECTIVE-IV Robotics And Automation (403150B)
	ELECTIVE-IV Illumination Engineering (403150C)	ELECTIVE-IV Illumination Engineering (403150C)
	ELECTIVE-IV VLSI Design[Open Elective] (403150D)	OPEN ELECTIVE VLSI Design (403150D)

ELECTRONICS

SEM-I

Day & Date	2015 Course Time-2.00 PM To 04.30 PM	2012 Course Time-02.00 PM To 04.30 PM
Saturday 04/05/2019	VLSI Design (404201)	VLSI Design (404201)
Thursday 09/05/2019	Advanced Power Electronics (404202)	Electronic System Design (404202)
Saturday 11/05/2019	Electronics System Design (404203)	Advance Power Electronics (404203)
Tuesday 14/05/2019	ELECTIVE-I Digital Image & Video Processing (404204A)	ELECTIVE-I Image Processing And Machine Vision (404204A)
	ELECTIVE-I Audio & Speech Processing (404204B)	ELECTIVE-I Embedded Systems And RTOS (404204B)
	ELECTIVE-I Embedded Systems & RTOS (404204C)	ELECTIVE-I Biomedical Instrumentation (404204C)
	ELECTIVE-I Internet of Things (404204D)	ELECTIVE-I Advance Measurement Systems (404204D)
	ELECTIVE-I Software Defined Radio (404204E)	
Thursday 16/05/2019	ELECTIVE-II Mobile Communication (404205A)	ELECTIVE-II DSP Processors (404205A)
	ELECTIVE-II Bio-Medical Electronics (404205B)	ELECTIVE-II Robotics And Automation (404205B)
	ELECTIVE-II Optimization Techniques (404205C)	ELECTIVE-II Electronics In Agriculture (404205C)
	ELECTIVE-II Computer Modeling & Simulation (404205D)	ELECTIVE-II Mobile Communication (404205D)
	ELECTIVE-II Digital Signal Processor TMS320C67X (404205E)	

SEM-II

Day & Date	2015 Course Time-2.00 PM To 04.30 PM	2012 Course Time-02.00 PM To 04.30 PM
Monday 20/05/2019	Computer Networks & Security (404209)	Computer Network (404209)
Wednesday 22/05/2019	Process Instrumentation (404210)	Process Automation (404210)
Friday 24/05/2019	ELECTIVE-III Automotive Electronics (404211A)	ELECTIVE-III Speech & Audio Signal Processing (404211A)
	ELECTIVE-III Artificial Intelligence and Machine Learning (404211B)	ELECTIVE-III Audio And Video Engineering (404211B)
	ELECTIVE-III Optical and Microwave Communication (404211C)	ELECTIVE-III Optical And Microwave Communication (404211C)
	ELECTIVE-III Audio Video Engineering (404211D)	ELECTIVE-III Soft Computing (404211D)
	ELECTIVE-III Testing and verification for SoC Design (404211E)	
Monday 27/05/2019	ELECTIVE-IV Robotics (404212A)	ELECTIVE-IV Biomedical Signal Processing (404212A)
	ELECTIVE-IV Wireless Sensor Networks (404212B)	ELECTIVE-IV Nano Electronics & MEMS (404212B)
	ELECTIVE-IV Renewable Energy Systems & DSM (404212C)	ELECTIVE-IV System On Chip (404212C)
	ELECTIVE-IV TM4C123GH6PM Microcontroller (404212D)	ELECTIVE-IV Mechatronics (404212D)
	* OPEN ELECTIVE Advanced Automotive Electronics (404192DA)	OPEN ELECTIVE * Advanced Automotive Electronics (404212EA)
	* OPEN ELECTIVE Industrial Internet of Things (404192DB)	OPEN ELECTIVE * Data Science and Analytics (404212EB)
	* OPEN ELECTIVE Programmable System on Chip (404192DC)	OPEN ELECTIVE * Industrial Internet of Things (404212EC)
* OPEN ELECTIVE Data Science & Analytics (404192DD)		

NOTE:-

*Common with E & TC

ELECTRONICS & TELECOMMUNICATION

SEM-I

Day & Date	2015 Course Time-2.00 PM To 04.30 PM	2012 Course Time-02.00 PM To 04.30 PM
Saturday 04/05/2019	VLSI Design & Technology (404181)	VLSI Design & Technology (404181)
Thursday 09/05/2019	Computer Networks & Security (404182)	Computer Networks (404182)
Saturday 11/05/2019	Radiation & Microwave Techniques (404183)	Microwave Engineering (404183)
Tuesday 14/05/2019	ELECTIVE-I Digital Image video Processing (404184A)	ELECTIVE-I Digital Image Processing (408184A)
	ELECTIVE-I Industrial Drives & Control (404184B)	ELECTIVE-I Embedded Systems & RTOS (408184B)
	ELECTIVE-I Embedded System & RTOS (404184C)	ELECTIVE-I Software Defined Radio (408184C)
	ELECTIVE-I Internet of Things (404184D)	ELECTIVE-I Industrial Drives And Control (408184D)
Thursday 16/05/2019	ELECTIVE-II Wavelets (412185A)	ELECTIVE-II Multi Rate & Adaptive Signal Processing (412185A)
	ELECTIVE-II Electronics Product Design (412185B)	ELECTIVE-II Electronic Product Design (412185B)
	ELECTIVE-II Optimization Techniques (412185C)	ELECTIVE-II PLCs And Automation (412185C)
	ELECTIVE-II Artificial Intelligence (412185D)	ELECTIVE-II Artificial Intelligence (412185D)
	ELECTIVE-II Electronics in Agriculture (412185E)	

SEM-II

Day & Date	2015 Course Time-2.00 PM To 04.30 PM	2012 Course Time-02.00 PM To 04.30 PM
Monday 20/05/2019	Mobile Communication (404189)	Mobile Communication (404189)
Wednesday 22/05/2019	Broadband Communication Systems (404190)	Broadband Communication Systems (404190)
Friday 24/05/2019	ELECTIVE-III Machine Learning (404191A)	ELECTIVE-III Speech & Audio Signal Processing (404191A)
	ELECTIVE-III PLC s and Automation (404191B)	ELECTIVE-III RF Circuit Design (404191B)
	ELECTIVE-III Audio and Speech Processing (404191C)	ELECTIVE-III Audio Video Engineering (404191C)
	ELECTIVE-III Software Defined Radio (404191D)	ELECTIVE-III Soft Computing (404191D)
	ELECTIVE-III Audio Video Engineering (404191E)	
Monday 27/05/2019	ELECTIVE-IV Robotics (404192A)	ELECTIVE-IV Biomedical Signal Processing (404192A)
	ELECTIVE-IV Biomedical Electronics (404192B)	ELECTIVE-IV Nano Electronics & MEMS (404192B)
	ELECTIVE-IV Wireless Sensor Networks (404192C)	ELECTIVE-IV Detection & Estimation Theory (404192C)
	ELECTIVE-IV Renewable Energy Systems (404192D)	ELECTIVE-IV Wireless Networks (404192D)
	OPEN ELECTIVE Advanced Automotive Electronics (404192DA)	OPEN ELECTIVE Advanced Automotive Electronics (404192EA)
	OPEN ELECTIVE Industrial Internet of Things (404192DB)	OPEN ELECTIVE Unified Communications and Contact center Applications (404192EB)
	OPEN ELECTIVE Programmable System on Chip (404192DC)	OPEN ELECTIVE Business Analytic And Intelligence (404192EC)
	OPEN ELECTIVE Data Science & Analytics (404192DD)	OPEN ELECTIVE Data Science and Analytics (404192ED)
	OPEN ELECTIVE Industrial Internet of Things (404192EE)	

INFORMATION TECHNOLOGY

SEM-I

Day & Date	2015 Course Time-2.00 PM To 04.30 PM	2012 Course Time-02.00 PM To 04.30 PM
Saturday 04/05/2019	Information & Cyber Security (414453)	Information And Cyber Security (414453)
Thursday 09/05/2019	Machine Learning & Applications (414454)	Software Modeling And Design (414454)
Saturday 11/05/2019	Software Design & Modeling (414455)	Machine Learning (414455)
Tuesday 14/05/2019	ELECTIVE-I Wireless Communications (414456A)	ELECTIVE-I Soft Computing (414456A)
	ELECTIVE-I Natural Language Processing (414456B)	ELECTIVE-I Usability Engineering (414456B)
	ELECTIVE-I Usability Engineering (414456C)	ELECTIVE-I Modern Compiler (414456C)
	ELECTIVE-I Multicore & Concurrent Systems (414456D)	ELECTIVE-I Parallel Algorithms And Design (414456D)
	ELECTIVE-I Business Analytics & Intelligence (414456E)	ELECTIVE-I Cloud Computing (414456E)
Thursday 16/05/2019	ELECTIVE-II Software Defined Networks (414457A)	ELECTIVE-II Business Intelligence (414457A)
	ELECTIVE-II Soft Computing (414457B)	ELECTIVE-II Service Oriented Architecture (414457B)
	ELECTIVE-II Software Testing & Quality Assurance (414457C)	ELECTIVE-II E&M Governance (414457C)
	ELECTIVE-II Compiler Construction (414457D)	ELECTIVE-II Geo Informatics Systems (414457D)
	ELECTIVE-II Gamification (414457E)	ELECTIVE-II Natural Language Processing (414457E)

SEM-II

Day & Date	2015 Course Time-2.00 PM To 04.30 PM	2012 Course Time-02.00 PM To 04.30 PM
Monday 20/05/2019	Distributed Computing System (414462)	Distributed System (414461)
Wednesday 22/05/2019	Ubiquitous Computing (414463)	Advanced Databases (414462)
Friday 24/05/2019	ELECTIVE-III Internet of Things (IoT) (414464A)	ELECTIVE-III Mobile Computing (414463A)
	ELECTIVE-III Information storage and retrieval (414464B)	ELECTIVE-III Advanced Graphics And Animation (414463B)
	ELECTIVE-III Multimedia Techniques (414464C)	ELECTIVE-III Information Storage And Retrieval (414463C)
	ELECTIVE-III Internet and Web Programming (414464D)	ELECTIVE-III IT Enabled Services (414463D)
	ELECTIVE-III Computational Optimization (414464E)	ELECTIVE-III Advanced Computer Networks (414463E)
Monday 27/05/2019	ELECTIVE-IV Rural Technologies and Community Development (414465A)	ELECTIVE-IV Bio-Informatics (414464A)
	ELECTIVE-IV Parallel Computing (414465B)	ELECTIVE-IV Real Time And Embedded Systems (414464B)
	ELECTIVE-IV Computer Vision (414465C)	ELECTIVE-IV Green IT-Principles And Practices (414464C)
	ELECTIVE-IV Social Media Analytics (414465D)	ELECTIVE-IV Internet Of Things (414464D)
		OPEN ELECTIVE Unified Communications and Contact center Applications (414464E)

INSTRUMENTATION & CONTROL

SEM-I

Day & Date	2015 Course Time-2.00 PM To 04.30 PM	2012 Course Time-02.00 PM To 04.30 PM
Saturday 04/05/2019	Process Dynamics & Control (406261)	Process Instrumentation- I (406261)
Thursday 09/05/2019	Project Engineering & Management (406262)	Project Engineering & Management (406262)
Saturday 11/05/2019	Computer Techniques & Applications (406263)	Digital Control (406263)
Tuesday 14/05/2019	ELECTIVE-I Industrial Internet of Things (406264A)	ELECTIVE-I Advanced Bio-Medical Instrumentation (406264A)
	ELECTIVE-I Electrical Drives (406264B)	ELECTIVE-I Building Automation- I (406264B)
	ELECTIVE-I Advanced Digital Signal Processing (406264C)	ELECTIVE-I Advanced Control Systems (406264C)
	ELECTIVE-I Advanced Bio-Medical Instrumentation (406264D)	ELECTIVE-I Advanced Sensors (406264D)
	ELECTIVE-I Digital Control Systems (406264E)	ELECTIVE-I Advanced Digital Signal Processing (406264E)
Thursday 16/05/2019	ELECTIVE-II Smart & Wireless Instrumentation (406265A)	ELECTIVE-II Opto- Electronics Instrumentation (406265A)
	ELECTIVE-II Instrumentation & Control for Power Plants (406265B)	ELECTIVE-II Environmental Instrumentation (406265B)
	ELECTIVE-II Automotive Instrumentation (406265C)	ELECTIVE-II Robotics & Automation (406265C)
	ELECTIVE-II Opto-Electronics Instrumentation (406265D)	ELECTIVE-II Sensor Networks (406265D)
	ELECTIVE-II Soft Computing (406265E)	ELECTIVE-II Fault Detection And Diagnosis (406265E)

SEM-II

Day & Date	2015 Course Time-2.00 PM To 04.30 PM	2012 Course Time-02.00 PM To 04.30 PM
Monday 20/05/2019	Process Instrumentation (406268)	Process Instrumentation- II (406267)
Wednesday 22/05/2019	Industrial Automation (406269)	Industrial Automation (406268)
Friday 24/05/2019	ELECTIVE-III Building Automation (406270A)	ELECTIVE-III Digital Image Processing (406269A)
	ELECTIVE-III Robotics and Automation (406270B)	ELECTIVE-III Building Automation- II (406269B)
	ELECTIVE-III Environmental Instrumentation (406270C)	ELECTIVE-III Process Modelling & Optimization (406269C)
	ELECTIVE-III Digital Image Processing (406270D)	ELECTIVE-III Virtual Instrumentation (406269D)
	ELECTIVE-III Process Modelling and Optimization (406270E)	ELECTIVE-III Computer Techniques And Applications (406269E)
Monday 27/05/2019	ELECTIVE-IV Reliability Engineering (406271A)	ELECTIVE-IV Smart Material And Systems (406270A)
	ELECTIVE-IV Renewable Energy Systems (406271B)	ELECTIVE-IV Instrumentation In Agriculture And Food Processing (406270B)
	ELECTIVE-IV Instrumentation in Agriculture and Food Industries (406271C)	ELECTIVE-IV Neural Network And Fuzzy Logic Control (406270C)
	ELECTIVE-IV Smart Material and Systems (406271D)	ELECTIVE-IV Automobile Instrumentation (406270D)

MECHANICAL

SEM-I

Day & Date	2015 Course Time-2.00 PM To 04.30 PM	2012 Course Time-02.00 PM To 04.30 PM
Saturday 04/05/2019	Hydraulics & Pneumatics (402041)	Refrigeration And Air Conditioning (402041)
	@ Refrigeration and Air Conditioning (302049)	
Thursday 09/05/2019	CAD/CAM Automation (402042)	CAD/CAM Automation (402042)
Saturday 11/05/2019	Dynamics of Machinery (402043)	Dynamics Of Machinery (402043)
Tuesday 14/05/2019	ELECTIVE-I Finite Element Analysis (402044A)	ELECTIVE-I Energy Audit Management (402044A)
	ELECTIVE-I Computational Fluid Dynamics (402044B)	ELECTIVE-I Tribology (402044B)
	ELECTIVE-I Heating Ventilation & Air Conditioning (402044C)	ELECTIVE-I Reliability Engineering (402044C)
		ELECTIVE-I Machine Tool Design (402044D)
Thursday 16/05/2019	ELECTIVE-II Automobile Engineering (402045A)	ELECTIVE-II Gas Turbine Propulsion (402045A)
	ELECTIVE-II Operation Research (402045B)	ELECTIVE-II Product Design And Development (402045B)
	ELECTIVE-II Energy Audit & Management (402045C)	ELECTIVE-II Operation Research (402045C)
		ELECTIVE-II Advanced Manufacturing Processes (402045D)

NOTE:-

@ The Students who have not studied the subject Refrigeration & Air Conditioning in T.E. 2012 (also including the students of 2008 pattern who have received 2012 pattern equivalence) and who got admitted in B.E. 2015 pattern.

SEM-II

Day & Date	2015 Course Time-2.00 PM To 04.30 PM	2012 Course Time-02.00 PM To 04.30 PM
Monday 20/05/2019	Energy Engineering (402047)	Power Plant Engineering (402047)
Wednesday 22/05/2019	* Mechanical System Design (402048) 2.00 PM To 05.00 PM	*Mechanical System Design (402048) 02.00 PM To 05.00 PM
Friday 24/05/2019	ELECTIVE-III Tribology (402049A)	ELECTIVE-III Refrigeration And Air Conditioning Equipment Design (402049A)
	ELECTIVE-III Industrial Engineering (402049B)	ELECTIVE-III Robotics (402049B)
	ELECTIVE-III Robotics (402049C)	ELECTIVE-III Industrial Engineering (402049C)
		ELECTIVE-III (OPEN ELECTIVE) Product Lifecycle Management (402049DA)
		ELECTIVE-III (OPEN ELECTIVE) Automobile Engineering (402049DB)
		ELECTIVE-III (OPEN ELECTIVE) Steam Engineering and Energy Conservations (402049DC)
Monday 27/05/2019	ELECTIVE-IV Advanced Manufacturing Processes (402050A)	ELECTIVE-IV Computational Fluid Dynamics (402050A)
	ELECTIVE-IV Solar & Wind Energy (402050B)	ELECTIVE-IV Finite Element Analysis (402050B)
	ELECTIVE-IV Product Design and Development (402050C)	ELECTIVE-IV Design Of Pumps Blowers And Compressors (402050C)

NOTE:-

** Please Note The Timing*

MECHANICAL-SANDWICH

SEM-I

Day & Date	2015 Course Time-2.00 PM To 05.00 PM	2012 Course Time-02.00 PM To 05.00 PM
Tuesday 14/05/2019	Automobile Engineering (Self-Study-III) (402064)	Automobile Engineering (Self Study-III) (402064)
Thursday 16/05/2019	Plant Engineering and Maintenance (Self- Study-III) (402065)	Power Plant Engineering (Self Study-IV) (402065)

SEM-II

Day & Date	2015 Course Time-2.00 PM To 04.30 PM	2012 Course Time-02.00 PM To 04.30 PM
Monday 20/05/2019	** Energy Engineering (402047)	Mechanical Vibrations (402066)
Wednesday 22/05/2019	** Mechanical System Design (402048) 2.00 PM To 05.00 PM	** Mechanical System Design (402048) 02.00 PM To 05.00 PM
Friday 24/05/2019	Mechanical Vibrations (402066)	Industrial Hydraulics And Pneumatics (402067)
Monday 27/05/2019	ELECTIVE-I Computational Fluid Dynamics (402068A)	ELECTIVE-I Refrigeration And Air Conditioning (402068 A)
	ELECTIVE-I CAD/ CAM Automation (402068B)	ELECTIVE-I Computational Fluid Dynamics (402068 B)
	ELECTIVE-I Finite Element Analysis (402068C)	ELECTIVE-I Design Of Pumps, Blowers & Compressors (402068 C)
	ELECTIVE-I Hydraulics and Pneumatics (402068D)	ELECTIVE-I CAD / CAM Automation (402068 D)
Wednesday 29/05/2019	ELECTIVE-II Energy Audit and Management (402069A)	ELECTIVE-II Energy Audit And Management (402069 A)
	ELECTIVE-II Operations Research (402069B)	ELECTIVE-II Operations Research (402069 B)
		ELECTIVE-II Robotics (402069 C)
		ELECTIVE-II Tribology (402069 D)

NOTE:-

* **Please Note The Timing**

** **Common to Mechanical Engineering**

Ganeshkhind, Pune - 411 007

Ref.No/XCT/1152

Date:09/04/2019

Dr. Ashok Chavan

Director

Board of Examinations And Evaluation