

SAVITRIBAI PHULE PUNE UNIVERSITY

(Formerly University of Pune)



EXAMINATION CIRCULAR NO. 14 OF. 2018

BACHELOR OF ENGINEERING (2008 & 2012 COURSE)

Examination of APR/MAY-2018

(Under Faculty of SCIENCE AND TECHNOLOGY : B)ENGINEERING)

INSTRUCTIONS FOR CANDIDATES

- Candidates are required to be present at the examination center, FIFTEEN MINUTES before the time fixed for the first paper and TEN MINUTES before the time of each subsequent 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

	2008 Course TIME-02.30 PM To 05.30 PM	2012 Course TIME-02.30 PM To 05.00 PM
Day & Date	Subject	Subject
Thursday 03/05/2018	Automotive Refrigeration And Air Conditioning (416488)	Automotive Refrigeration And Air Conditioning (416488)
Saturday 05/05/2018	Machine & Vehicle Dynamics (416489)	Automotive Chassis And Systems (416489)
Tuesday 08/05/2018	Automotive System Design (416490)	Machine And Vehicle Dynamics (416490)
Saturday 12/05/2018	ELECTIVE-I Automotive Aerodynamics & Styling (416491A)	ELECTIVE-I Fundamentals Of Computational Fluid Dynamics (416491A)
	ELECTIVE-I * Tribiology (416491B)	ELECTIVE-I Fundamentals Of Finite Element Analysis (416491B)
	ELECTIVE-I CAD-CAM Automation (416491C)	ELECTIVE-I CAE And Automation (416491C)
	ELECTIVE-I Automotive NVH (416491D)	
Tuesday 15/05/2018	ELECTIVE-II Automotive Materials (416492A)	ELECTIVE-II Hybrid And Fuel Cell Vehicle (416492A)
	ELECTIVE-II Vehicle Safety (416492B)	ELECTIVE-II Automotive Materials (416492B)
	ELECTIVE-II Off Road Vehicles (416492C)	ELECTIVE-II Automotive Hydraulics And Pneumatics (416492C)
	ELECTIVE-II Auxiliary Engine Systems (416492D)	

NOTE:-

** Common to Mechanical Engineering.*

AUTOMOBILE

SEM-II

	2008 Course TIME-02.30 PM To 05.30 PM	2012 Course TIME-02.30 PM To 05.00 PM
Day & Date	Subject	Subject
Thursday 17/05/2018	Alternative Fuels & Emission Control (416495)	Vehicle Performance And Testing. (416495)
Saturday 19/05/2018	Vehicle Performance & Testing (416496)	Automotive System Design (416496)
Tuesday 22/05/2018	ELECTIVE-III * Computational Fluid Dynamics (416497A)	ELECTIVE - III Automotive NVH (416497A)
	ELECTIVE-III * Finite Element Analysis (416497B)	ELECTIVE - III Off Road Vehicle (416497B)
	ELECTIVE-III Hydraulics & Pneumatic (416497C)	ELECTIVE - III Alternative Fuels And Emission Control (416497C)
	ELECTIVE-III Product Development & Costing (416497D)	
Thursday 24/05/2018	ELECTIVE-IV Transport Management & Motor Industry (416498A)	ELECTIVE - IV Transport Management And Motor Industries (416498A)
	ELECTIVE-IV Energy Engineering & Management (416498B)	ELECTIVE - IV Operation Research (416498B)
	ELECTIVE-IV Hybrid,Electric & Fuel-Cell Vehicles (416498C)	
	ELECTIVE-IV Open Elective (416498D)	

NOTE:-

*** Common to Mechanical Engineering.**

BIO-TECHNOLOGY

SEM-I

	2008 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Thursday 03/05/2018	Bioseparation - II (415463)
Saturday 05/05/2018	Instrumentation & Process Control (415464)
Tuesday 08/05/2018	Bioprocess Equipment Design (415465)
Saturday 12/05/2018	ELECTIVE-I Environmental Biotechnology (415461A)
	ELECTIVE-I Chemoinformatics & Structural Biology (415461B)
	ELECTIVE-I Bio-Therapeutics Technology (415461C)
Tuesday 15/05/2018	ELECTIVE-II Bioenergy & Renewable Resources (415462A)
	ELECTIVE-II Biomaterials (415462B)
	ELECTIVE-II Stem Cell Biology & Regenerative Medicine (415462C)

BIO-TECHNOLOGY

SEM-II

	2008 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Thursday 17/05/2018	Bioprocess Modeling & Simulation (415469)
Saturday 19/05/2018	Plant Engineering & Project Costing (415470)
Tuesday 22/05/2018	ELECTIVE-III Food Biotechnology (415467A)
	ELECTIVE-III Agricultural Biotechnology (415467B)
	ELECTIVE-III Introduction To Systems Biology (415467C)
Thursday 24/05/2018	ELECTIVE-IV Management & Entrepreneurship (415468A)
	ELECTIVE-IV IPR, Bioethics & Regulations (415468B)
	ELECTIVE-IV Industrial Organization & Management (415468C)

CHEMICAL

SEM-I

	2008 Course TIME-02.30 PM To 05.30 PM	2012 Course TIME-02.30 PM To 05.00 PM
Day & Date	Subject	Subject
Thursday 03/05/2018	Process Dynamics And Control (409343)	Process Dynamics And Control (409341)
Saturday 05/05/2018	Chemical Reaction Engineering-II (409344)	Chemical Reaction Engineering-II (409342)
Tuesday 08/05/2018	Chemical Engineering Design-II (409345)	Chemical Engineering Design-II (409343)
Saturday 12/05/2018	ELECTIVE-I Environmental Engineering (409341A)	ELECTIVE-I Environmental Engineering (409344A)
	ELECTIVE-I Membrane Technology (409341B)	ELECTIVE-I Membrane Technology (409344B)
	ELECTIVE-I Bioprocess Engineering (409341C)	ELECTIVE-I Corrosion Engineering (409344C)
	ELECTIVE-I Corrosion Engineering (409341D)	ELECTIVE-I Petroleum Refining (409344D)
Tuesday 15/05/2018	ELECTIVE-II Chemical Process Synthesis (409342A)	ELECTIVE-II Chemical Process Synthesis (409345A)
	ELECTIVE-II Advanced Materials (409342B)	ELECTIVE-II Industrial Management And Entrepreneurship (409345B)
	ELECTIVE-II Polymer Technology (409342C)	ELECTIVE-II Piping Design And Engineering (409345C)
	ELECTIVE-II Piping Design And Engineering (409342D)	ELECTIVE-II Advance Separation Processes (409345D)
	ELECTIVE-II Advance Separation Processes (409342E)	
	ELECTIVE-II Petroleum Refining (409342F)	

CHEMICAL

SEM-II

	2008 Course TIME-02.30 PM To 05.30 PM	2012 Course TIME-02.30 PM To 05.00 PM
Day & Date	Subject	Subject
Thursday 17/05/2018	Process Modeling & Simulation (409351)	Process Modelling & Simulation (409349)
Saturday 19/05/2018	Process Engineering Costing & Plant Design (409352)	Process Engineering Costing & Plant Design (409350)
Tuesday 22/05/2018	ELECTIVE-III Artificial Intelligence In Chemical Engineering (409349A)	ELECTIVE-III Energy Conservation In Chemical Process Industries (409351A)
	ELECTIVE-III Energy Conservation In Chemical Process Industries (409349B)	ELECTIVE-III Chemical Process Safety (409351B)
	ELECTIVE-III Chemical Process Safety (409349C)	ELECTIVE-III Food Technology (409351C)
	ELECTIVE-III Food Technology (409349D)	ELECTIVE-III Advanced Materials (409351D)
Thursday 24/05/2018	ELECTIVE-IV Standardization & Quality Assurance In Chemical Process Industry (409350A)	ELECTIVE-IV Catalysis (409352A)
	ELECTIVE-IV Catalysis (409350B)	ELECTIVE-IV Nanotechnology (409352B)
	ELECTIVE-IV Nanotechnology (409350C)	ELECTIVE-IV Fuel Cell Technology (409352C)
	ELECTIVE-IV Fuel Cell Technology (409350D)	ELECTIVE-IV Petrochemical Engineering (409352D)
	ELECTIVE-IV Petrochemical Engineering (409350E)	
	ELECTIVE-IV Computer Aided Process Control (409350F)	
	ELECTIVE-IV Open Elective (409350G)	

CIVIL

SEM-I

	2008 Course TIME-02.30 PM To 05.30 PM	2012 Course TIME-02.30 PM To 05.00 PM
Day & Date	Subject	Subject
Thursday 03/05/2018	Environmental Engineering - II (401001)	Environmental Engineering - II (401001)
Saturday 05/05/2018	Dams And Hydraulic Structure (401002)	Transportation Engineering (401002)
Tuesday 08/05/2018	Structural Design - III (401003) *TIME-02.30 PM To 06.30 PM	Structural Design And Drawing - III (401003) *TIME-02.30 PM To 05.30 PM
Saturday 12/05/2018	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 Air Pollution And Control (401004C)	ELECTIVE-I Advanced Concrete Technology (401004C)
	ELECTIVE-I Architecture And Town Planning (401004D)	ELECTIVE-I Architecture And Town Planning (401004D)
	ELECTIVE-I Advanced Geotechnical Engineering (401004E)	ELECTIVE-I Advanced Engineering Geology With Rock Mechanics (401004E)
Tuesday 15/05/2018	ELECTIVE-II Matrix Methods Of Structural Analysis (401005A)	ELECTIVE-II Matrix Methods Of Structural Analysis (401005A)
	ELECTIVE-II Hydroinformatics (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 Concrete Technology (401005E)	ELECTIVE-II Advanced Geotechnical Engineering (401005E)

NOTE:-

*** Please Note The Timing.**

CIVIL

SEM-II

	2008 Course TIME-02.30 PM To 05.30 PM	2012 Course TIME-02.30 PM To 05.00 PM
Day & Date	Subject	Subject
Thursday 17/05/2018	Quantity Surveying Contracts And Tenders (401009) *TIME-02.30 PM To 06.30 PM	Dams And Hydraulic Structures (401007)
Saturday 19/05/2018	Transportation Engineering - II (401010)	Quantity Surveying contract And Tenders (401008)
Tuesday 22/05/2018	ELECTIVE-III Advanced Structural Design (401007A)	ELECTIVE-III Advanced Structural Design (401009A)
	ELECTIVE-III Advanced Foundation Engineering (401007B)	ELECTIVE-III Advanced Foundation Engineering (401009B)
	ELECTIVE-III Advanced Engineering Geology With Rock Mechanics (401007C)	ELECTIVE-III Hydropower Engineering (401009C)
	ELECTIVE-III Advanced Environmental Management (401007D)	ELECTIVE-III Air Pollution And Control (401009D)
	ELECTIVE-III Construction Management (401007E)	ELECTIVE-III Finite Element Method In Civil Engineering (401009E)
Thursday 24/05/2018	ELECTIVE-IV Integrated Water Resources And Planning (401008A)	ELECTIVE-IV Construction Management (401010A)
	ELECTIVE-IV Advanced Transportation Engineering (401008B)	ELECTIVE-IV Advanced Transportation Engineering (401010B)
	ELECTIVE-IV Statistical Analysis And Computational Methods In Civil Engineering (401008C)	ELECTIVE-IV Statistical Analysis And Computational Methods In Civil Engineering (401010C)
	OPEN ELECTIVE Finite Element Method In Civil Engineering (401008DA)	OPEN ELECTIVE Plumbing Engineering (401010DA)
	OPEN ELECTIVE Geoinformatics (401008DB)	OPEN ELECTIVE Green Building Technology (401010DB)
	OPEN ELECTIVE Hydropower Engineering (401008DC)	OPEN ELECTIVE Ferrocement Technology (401010DC)
	OPEN ELECTIVE Industrial Waste Water Management (401008DD)	OPEN ELECTIVE Sub Sea Engineering (401010DD)
	OPEN ELECTIVE Mechanics Of Waves (401008DE)	OPEN ELECTIVE Wave Mechanics (401010DE)
	OPEN ELECTIVE Ferrocement Technology (401008DF)	OPEN ELECTIVE Repairs and Retrofitting of Concrete Structure (401010DF)
	OPEN ELECTIVE Plumbing Engineering (401008DG)	
	OPEN ELECTIVE Green Building Technology (401008DH)	

NOTE:-

*** Please Note The Timing.**

COMPUTER

SEM-I

	2008 Course TIME-02.30 PM To 05.30 PM	2012 Course TIME-02.30 PM To 05.00 PM
Day & Date	Subject	Subject
Thursday 03/05/2018	Design & Analysis Of Algorithms (410441)	Design & Analysis Of Algorithms (410441)
Saturday 05/05/2018	Principles Of Compiler Design (410442)	Principles Of Modern Compiler Design (410442)
Tuesday 08/05/2018	Object Oriented Modeling & Design (410443)	Smart System Design And Applications (410443)
Saturday 12/05/2018	ELECTIVE-I Image Processing (410444A)	ELECTIVE-I Image Processing (410444A)
	ELECTIVE-I Design & Analysis Of Computer Networks (410444B)	ELECTIVE-I Computer Network Design And Modeling (410444B)
	ELECTIVE-I Artificial Intelligence (410444C)	ELECTIVE-I Advanced Computer Programming (410444C)
	ELECTIVE-I Software Architecture (410444D)	ELECTIVE-I Data Mining Techniques And Applications (410444D)
Tuesday 15/05/2018	ELECTIVE-II Multimedia Systems (410445A)	ELECTIVE-II Problem Solving With Gamification (410445A)
	ELECTIVE-II Mobile Computing (410445B)	ELECTIVE-II Pervasive Computing (410445B)
	ELECTIVE-II Embedded Systems (410445C)	ELECTIVE-II Embedded Security (410445C)
	ELECTIVE-II Software Testing & Quality Assurance (410445D)	ELECTIVE-II Multidisciplinary NLP (410445D)

COMPUTER

SEM-II

	2008 Course TIME-02.30 PM To 05.30 PM	2012 Course TIME-02.30 PM To 05.00 PM
Day & Date	Subject	Subject
Thursday 17/05/2018	Distributed Operating Systems (410448)	Software Design Methodology And Testing (410449)
Saturday 19/05/2018	Advanced Computer Architecture (410449)	High Performance Computing (410450)
Tuesday 22/05/2018	ELECTIVE-III Pattern Recognition (410450A)	ELECTIVE-III Mobile Computing (410451A)
	ELECTIVE-III High Performance Networks (410450B)	ELECTIVE-III Web Technology (410451B)
	ELECTIVE-III Neural Networks (410450C)	ELECTIVE-III Cloud Computing (410451C)
	ELECTIVE-III Advanced Databases (410450D)	ELECTIVE-III Cyber Security (410451D)
Thursday 24/05/2018	ELECTIVE-IV VLSI & Digital System Design (410451A)	ELECTIVE-IV Business Analytic And Intelligence (410452A)
	ELECTIVE-IV Operations Research (410451B)	ELECTIVE-IV Operations Research For Algorithms In Scientific Applications (410452B)
	ELECTIVE-IV Cloud Computing (410451C)	ELECTIVE-IV Mobile Applications (410452C)
	ELECTIVE-IV Information Security (410451D)	OPEN ELECTIVE Unified Communications and Contact center Applications (410452DA)
		OPEN ELECTIVE Programming Paradigms for Complex Problems –case studies in Python (410452DB)
		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

	2008 Course TIME-02.30 PM To 05.30 PM	2012 Course TIME-02.30 PM To 05.00 PM
Day & Date	Subject	Subject
Thursday 03/05/2018	PLC And SCADA Applications (403141)	Power System Operation And Control (403141)
Saturday 05/05/2018	Power System Operation & Control (403142)	PLC And SCADA Applications (403142)
Tuesday 08/05/2018	Control System - II (403145)	Control System - II (403145)
Saturday 12/05/2018	ELECTIVE-I Robotics And Automation (403143A)	ELECTIVE-I Special Purpose Machines (403143A)
	ELECTIVE-I Power Quality (403143B)	ELECTIVE-I Power Quality (403143B)
	ELECTIVE-I Illumination Engineering (403143C)	ELECTIVE-I Renewable Energy Systems (403143C)
	ELECTIVE-I Project Management (403143D)	ELECTIVE-I Digital Signal Processing (403143D)
Tuesday 15/05/2018	ELECTIVE-II Restructuring And Deregulation (403144A)	ELECTIVE-II Restructuring And Deregulation (403144A)
	ELECTIVE-II Embedded System (403144B)	ELECTIVE-II Electromagnetic Fields (403144B)
	ELECTIVE-II EHV Transmission (403144C)	ELECTIVE-II EHV AC Transmission (403144C)
	ELECTIVE-II Smart Grid (403144D)	ELECTIVE-II Introduction To Electrical Transportation Systems (403144D)

ELECTRICAL

SEM-II

	2008 Course TIME-02.30 PM To 05.30 PM	2012 Course TIME-02.30 PM To 05.00 PM
Day & Date	Subject	Subject
Thursday 17/05/2018	Switchgear And Protection (403147)	Switchgear And Protection (403147)
Saturday 19/05/2018	Industrial Drives And Control (403148)	Power Electronic Controlled Drives (403148)
Tuesday 22/05/2018	ELECTIVE-III VLSI Design (403149A)	ELECTIVE-III High Voltage Engineering (403149A)
	ELECTIVE-III High Voltage Engineering (403149B)	ELECTIVE-III HVDC And FACTS (403149B)
	ELECTIVE-III Digital Signal Processing (403149C)	ELECTIVE-III Digital Control System (403149C)
	ELECTIVE-III ANN & Its Application In Electrical Engineering (403149D)	ELECTIVE-III Intelligent Systems And Its Applications In Electrical Engineering (403149D)
Thursday 24/05/2018	ELECTIVE-IV Modelling Of Electrical System (403150A)	ELECTIVE-IV Smart Grid (403150A)
	ELECTIVE-IV Renewable Energy System (403150B)	ELECTIVE-IV Robotics And Automation (403150B)
	ELECTIVE-IV Digital Control System (403150C)	ELECTIVE-IV Illumination Engineering (403150C)
	ELECTIVE-IV Introduction To Electrical Transportation Systems (403150D)	OPEN ELECTIVE VLSI Design (403150D)

ELECTRONICS

SEM-I

	2008 Course TIME-02.30 PM To 05.30 PM	2012 Course TIME-02.30 PM To 05.00 PM
Day & Date	Subject	Subject
Thursday 03/05/2018	Electronics System Design (404201)	VLSI Design (404201)
Saturday 05/05/2018	VLSI Design (404202)	Electronic System Design (404202)
Tuesday 08/05/2018	Embedded System (404203)	Advance Power Electronics (404203)
Saturday 12/05/2018	ELECTIVE-I Advanced Measurement Systems (404204A)	ELECTIVE-I Image Processing And Machine Vision (404204A)
	ELECTIVE-I Advanced Power Electronics (404204B)	ELECTIVE-I Embedded Systems And RTOS (404204B)
	ELECTIVE-I Biomedical Instrumentation (404204C)	ELECTIVE-I Biomedical Instrumentation (404204C)
	ELECTIVE-I Mechatronics (404204D)	ELECTIVE-I Advance Measurement Systems (404204D)
Tuesday 15/05/2018	ELECTIVE-II Advanced Computer Architecture (404205A)	ELECTIVE-II DSP Processors (404205A)
	ELECTIVE-II Enterpreneurship & Business Planning (404205B)	ELECTIVE-II Robotics And Automation (404205B)
	ELECTIVE-II SOC (System On Chip) (404205C)	ELECTIVE-II Electronics In Agriculture (404205C)
	ELECTIVE-II Robotics And Automation (404205D)	ELECTIVE-II Mobile Communication (404205D)

ELECTRONICS

SEM-II

	2008 Course TIME-02.30 PM To 05.30 PM	2012 Course TIME-02.30 PM To 05.00 PM
Day & Date	Subject	Subject
Thursday 17/05/2018	Computer Network & Security (404207)	Computer Network (404209)
Saturday 19/05/2018	Process Automation (404208)	Process Automation (404210)
Tuesday 22/05/2018	ELECTIVE-III Audio And Video Engineering (404209A)	ELECTIVE-III Speech & Audio Signal Processing (404211A)
	ELECTIVE-III Image Processing And Machine Vision (404209B)	ELECTIVE-III Audio And Video Engineering (404211B)
	ELECTIVE-III Optical And Microwave Communication (404209C)	ELECTIVE-III Optical And Microwave Communication (404211C)
	ELECTIVE-III Soft Computing Tools (404209D)	ELECTIVE-III Soft Computing (404211D)
Thursday 24/05/2018	ELECTIVE-IV Advanced Communication System (404210A)	ELECTIVE-IV Biomedical Signal Processing (404212A)
	ELECTIVE-IV Automotive Electronic Systems (404210B)	ELECTIVE-IV Nano Electronics & MEMS (404212B)
	ELECTIVE-IV Artificial Intelligence (404210C)	ELECTIVE-IV System On Chip (404212C)
	ELECTIVE-IV Nanotechnology In Electronics (404210D)	ELECTIVE-IV Mechatronics (404212D)
	ELECTIVE-IV Open Elective (404210E)	OPEN ELECTIVE * Advanced Automotive Electronics (404212EA)
		OPEN ELECTIVE * Data Science and Analytics (404212EB)
		OPEN ELECTIVE * Industrial Internet of Things (404212EC)

NOTE:-

*** Common with E and TC.**

ELECTRONICS & TELECOMMUNICATION

SEM-I

	2008 Course TIME-02.30 PM To 05.30 PM	2012 Course TIME-02.30 PM To 05.00 PM
Day & Date	Subject	Subject
Thursday 03/05/2018	Electronics Product Design (404181)	VLSI Design & Technology (404181)
Saturday 05/05/2018	VLSI Design & Technology (404182)	Computer Networks (404182)
Tuesday 08/05/2018	Computer Network (404183)	Microwave Engineering (404183)
Saturday 12/05/2018	ELECTIVE-I Digital Image Processing (404184A)	ELECTIVE-I Digital Image Processing (408184A)
	ELECTIVE-I Embedded System And RTOS (404184B)	ELECTIVE-I Embedded Systems & RTOS (408184B)
	ELECTIVE-I Industrial Drives Control (404184C)	ELECTIVE-I Software Defined Radio (408184C)
	ELECTIVE-I Microwave Communication And Radar (404184D)	ELECTIVE-I Industrial Drives And Control (408184D)
Tuesday 15/05/2018	ELECTIVE-II Entrepreneurship Development (404185A)	ELECTIVE-II Multi Rate & Adaptive Signal Processing (412185A)
	ELECTIVE-II Joint Time Frequency Analysis (404185B)	ELECTIVE-II Electronic Product Design (412185B)
	ELECTIVE-II Micro-electromechanical and system on chip(MEMS & SOC) (404185C)	ELECTIVE-II PLCs And Automation (412185C)
	ELECTIVE-II Mobile Communication (404185D)	ELECTIVE-II Artificial Intelligence (412185D)

ELECTRONICS & TELECOMMUNICATION

SEM-II

	2008 Course TIME-02.30 PM To 05.30 PM	2012 Course TIME-02.30 PM To 05.00 PM
Day & Date	Subject	Subject
Thursday 17/05/2018	Telecommunication & Switching System (404187)	Mobile Communication (404189)
Saturday 19/05/2018	Optical Fiber Communication (404188)	Broadband Communication Systems (404190)
Tuesday 22/05/2018	ELECTIVE-III Soft Computing (404189A)	ELECTIVE-III Speech & Audio Signal Processing (404191A)
	ELECTIVE-III Speech Processing (404189B)	ELECTIVE-III RF Circuit Design (404191B)
	ELECTIVE-III Television And Video Engineering (404189C)	ELECTIVE-III Audio Video Engineering (404191C)
	ELECTIVE-III Test And Measurement Systems (404189D)	ELECTIVE-III Soft Computing (404191D)
Thursday 24/05/2018	ELECTIVE-IV Artificial Intelligence (404190A)	ELECTIVE-IV Biomedical Signal Processing (404192A)
	ELECTIVE-IV Automotive Electronics (404190B)	ELECTIVE-IV Nano Electronics & MEMS (404192B)
	ELECTIVE-IV Nanotechnology (404190C)	ELECTIVE-IV Detection & Estimation Theory (404192C)
	ELECTIVE-IV PLC & Industrial Process Automation (404190D)	ELECTIVE-IV Wireless Networks (404192D)
	OPEN ELECTIVE Advanced Satellite System & Application (404190EA)	OPEN ELECTIVE Advanced Automotive Electronics (404192EA)
	OPEN ELECTIVE Advanced Trends In Telecommunication (404190EB)	OPEN ELECTIVE Unified Communications and Contact center Applications (404192EB)
	OPEN ELECTIVE Programmable System Of Chip (404190EC)	OPEN ELECTIVE Business Analytic And Intelligence (404192EC)
		OPEN ELECTIVE Data Science and Analytics (404192ED)
	OPEN ELECTIVE Industrial Internet of Things (404192EE)	

INFORMATION TECHNOLOGY

SEM-I

	2008 Course TIME-02.30 PM To 05.30 PM	2012 Course TIME-02.30 PM To 05.00 PM
Day & Date	Subject	Subject
Thursday 03/05/2018	Information Assurance And Security (414441)	Information And Cyber Security (414453)
Saturday 05/05/2018	Object Oriented Modeling & Design (410443)	Software Modeling And Design (414454)
Tuesday 08/05/2018	Software Testing And Quality Assurance (414442)	Machine Learning (414455)
Saturday 12/05/2018	ELECTIVE-I Advance Database Management (414443A)	ELECTIVE-I Soft Computing (414456A)
	ELECTIVE-I Artificial Intelligence (414443B)	ELECTIVE-I Usability Engineering (414456B)
	ELECTIVE-I Compiler Design (414443C)	ELECTIVE-I Modern Compiler (414456C)
	ELECTIVE-I Advanced Operating Systems (414443D)	ELECTIVE-I Parallel Algorithms And Design (414456D)
		ELECTIVE-I Cloud Computing (414456E)
Tuesday 15/05/2018	ELECTIVE-II Embedded System (414444A)	ELECTIVE-II Business Intelligence (414457A)
	ELECTIVE-II Mobile Computing (414444B)	ELECTIVE-II Service Oriented Architecture (414457B)
	ELECTIVE-II Multimedia Systems (414444C)	ELECTIVE-II E&M Governance (414457C)
		ELECTIVE-II Geo Informatics Systems (414457D)
		ELECTIVE-II Natural Language Processing (414457E)

INFORMATION TECHNOLOGY

SEM-II

	2008 Course TIME-02.30 PM To 05.30 PM	2012 Course TIME-02.30 PM To 05.00 PM
Day & Date	Subject	Subject
Thursday 17/05/2018	Distributed System (414448)	Distributed System (414461)
Saturday 19/05/2018	Information Retrieval (414449)	Advanced Databases (414462)
Tuesday 22/05/2018	ELECTIVE-III Real Time System (414450A)	ELECTIVE-III Mobile Computing (414463A)
	ELECTIVE-III Software Architecture (414450B)	ELECTIVE-III Advanced Graphics And Animation (414463B)
	ELECTIVE-III Advanced Graphics (414450C)	ELECTIVE-III Information Storage And Retrieval (414463C)
	ELECTIVE-III Advance Computer Networks (414450D)	ELECTIVE-III IT Enabled Services (414463D)
Thursday 24/05/2018	ELECTIVE-IV Bio Informatics (414451A)	ELECTIVE-IV Bio-Informatics (414464A)
	ELECTIVE-IV Neural Network & Expert System (414451B)	ELECTIVE-IV Real Time And Embedded Systems (414464B)
	ELECTIVE-IV Geo Informatics Systems (414451C)	ELECTIVE-IV Green IT-Principles And Practices (414464C)
	OPEN ELECTIVE Business Intelligence - II (414451DA)	ELECTIVE-IV Internet Of Things (414464D)
	OPEN ELECTIVE * Cloud Computing (414451DB)	OPEN ELECTIVE Unified Communications and Contact center Applications (414464E)

Note :

*** Common with Computer Engineering.**

INSTRUMENTATION & CONTROL

SEM-I

	2008 Course TIME-02.30 PM To 05.30 PM	2012 Course TIME-02.30 PM To 05.00 PM
Day & Date	Subject	Subject
Thursday 03/05/2018	Process Instrumentation (406261)	Process Instrumentation- I (406261)
Saturday 05/05/2018	Digital Control (406262)	Project Engineering & Management (406262)
Tuesday 08/05/2018	Project Engineering And Management (406263)	Digital Control (406263)
Saturday 12/05/2018	ELECTIVE-I Biomedical Instrumentation (406264A)	ELECTIVE-I Advanced Bio-Medical Instrumentation (406264A)
	ELECTIVE-I Laser Based Instrumentation (406264B)	ELECTIVE-I Building Automation- I (406264B)
	ELECTIVE-I Advanced Control Systems (406264C)	ELECTIVE-I Advanced Control Systems (406264C)
	ELECTIVE-I Building Automation I (406264D)	ELECTIVE-I Advanced Sensors (406264D)
Tuesday 15/05/2018	ELECTIVE-II Environmental Instrumentation (406265A)	ELECTIVE-II Opto- Electronics Instrumentation (406265A)
	ELECTIVE-II Nano Instrumentation (406265B)	ELECTIVE-II Environmental Instrumentation (406265B)
	ELECTIVE-II Advanced Digital Signal Processing (406265C)	ELECTIVE-II Robotics & Automation (406265C)
	ELECTIVE-II Automobile Instrumentation (406265D)	ELECTIVE-II Sensor Networks (406265D)

INSTRUMENTATION & CONTROL

SEM-II

	2008 Course TIME-02.30 PM To 05.30 PM	2012 Course TIME-02.30 PM To 05.00 PM
Day & Date	Subject	Subject
Thursday 17/05/2018	Process Dynamics And Control (406267)	Process Instrumentation- II (406267)
Saturday 19/05/2018	Industrial Automation (406268)	Industrial Automation (406268)
Tuesday 22/05/2018	ELECTIVE-III Advanced Biomedical Instrumentation (406269A)	ELECTIVE-III Digital Image Processing (406269A)
	ELECTIVE-III Fiber Optic Instrumentation (406269B)	ELECTIVE-III Building Automation- II (406269B)
	ELECTIVE-III Process Modeling & Optimization (406269C)	ELECTIVE-III Process Modelling & Optimization (406269C)
	ELECTIVE-III Building Automation -II (406269D)	ELECTIVE-III Virtual Instrumentation (406269D)
		ELECTIVE-III Computer Techniques And Applications (406269E)
Thursday 24/05/2018	ELECTIVE-IV Instrumentation In Agriculture (406270A)	ELECTIVE-IV Smart Material And Systems (406270A)
	ELECTIVE-IV Micro Electro Mechanical Systems (406270B)	ELECTIVE-IV Instrumentation In Agriculture And Food Processing (406270B)
	ELECTIVE-IV Digital Image Processing (406270C)	ELECTIVE-IV Neural Network And Fuzzy Logic Control (406270C)
	ELECTIVE-IV Open Elective (406270D)	ELECTIVE-IV Automobile Instrumentation (406270D)

MECHANICAL

SEM-I

	2008 Course TIME-02.30 PM To 05.30 PM	2012 Course TIME-02.30 PM To 05.00 PM
Day & Date	Subject	Subject
Thursday 03/05/2018	CAD/CAM Automation (402041)	Refrigeration And Air Conditioning (402041)
Saturday 05/05/2018	Dynamics Of Machinery (402042)	CAD/CAM Automation (402042)
Tuesday 08/05/2018	Industrial Fluid Power (402043)	Dynamics Of Machinery (402043)
Saturday 12/05/2018	ELECTIVE-I Energy Audit And Management (402044A)	ELECTIVE-I Energy Audit Management (402044A)
	ELECTIVE-I Product Design And Development (402044B)	ELECTIVE-I Tribology (402044B)
	ELECTIVE-I Design Of Pumps, Blowers & Compressors (402044C)	ELECTIVE-I Reliability Engineering (402044C)
	ELECTIVE-I Tribology (402044D)	ELECTIVE-I Machine Tool Design (402044D)
Tuesday 15/05/2018	ELECTIVE-II Automobile Engineering (402045A)	ELECTIVE-II Gas Turbine Propulsion (402045A)
	ELECTIVE-II Machine Tool Design (402045B)	ELECTIVE-II Product Design And Development (402045B)
	ELECTIVE-II Quantitative & Decision Making Techniques (402045C)	ELECTIVE-II Operation Research (402045C)
		ELECTIVE-II Advanced Manufacturing Processes (402045D)

MECHANICAL

SEM-II

	2008 Course TIME-02.30 PM To 05.30 PM	2012 Course TIME-02.30 PM To 05.00 PM
Day & Date	Subject	Subject
Thursday 17/05/2018	Power Plant Engineering (402047)	Power Plant Engineering (402047)
Saturday 19/05/2018	Mechanical System Design (402048) *TIME-02.30 PM To 06.30 PM	*Mechanical System Design (402048) *TIME-02.30 PM To 05.30 PM
Tuesday 22/05/2018	ELECTIVE-III Computational Fluid Dynamics (402049A)	ELECTIVE-III Refrigeration And Air Conditioning Equipment Design (402049A)
	ELECTIVE-III Finite Element Method (402049B)	ELECTIVE-III Robotics (402049B)
	ELECTIVE-III Robotics (402049C)	ELECTIVE-III Industrial Engineering (402049C)
	ELECTIVE-III Advanced Air Conditioning And Refrigeration (402049D)	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)
Thursday 24/05/2018	ELECTIVE-IV Industrial Heat Transfer Equipments (402050A)	ELECTIVE-IV Computational Fluid Dynamics (402050A)
	ELECTIVE-IV Management Information System (402050B)	ELECTIVE-IV Finite Element Analysis (402050B)
	ELECTIVE-IV Reliability Engineering (402050C)	ELECTIVE-IV Design Of Pumps Blowers And Compressors (402050C)
	OPEN ELECTIVE Cryogenic Engineering (402050DA)	
	OPEN ELECTIVE Product Lifecycle Management (402050DB)	
	OPEN ELECTIVE Industrial Automation (402050DC)	
	OPEN ELECTIVE ** Operation Research (402050DD)	

NOTE:-

** Please Note The Timing.*

*** Common with Computer Engineering*

MECHANICAL-SANDWICH

SEM-I

	2008 Course TIME-02.30 PM To 05.30 PM	2012 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject	Subject
Thursday 03/05/2018	Machine & Computer Aided Design (402061) *TIME-02.30 PM To 06.30 PM	
Saturday 05/05/2018	** Dynamics Of Machinery (402042)	
Tuesday 08/05/2018	Industrial Hydraulics And Pneumatics (402062)	
Saturday 12/05/2018	ELECTIVE-II Refrigeration And Air Conditioning (402063A)	Automobile Engineering (Self Study-III) (402064) *TIME-02.30 PM To 05.30 PM
	ELECTIVE-II Computational Fluid Dynamics (402063B)	
	ELECTIVE-II Finite Element Method (402063C)	
Tuesday 15/05/2018	ELECTIVE-III Automobile Engineering (402064A)	Power Plant Engineering (Self Study-IV) (402065) *TIME-02.30 PM To 05.30 PM
	ELECTIVE-III Operations Research (402064B)	
	ELECTIVE-III Robotics (402064C)	

NOTE:-

*** Please Note The Timing.**

**** Common with Mechanical Engineering.**

MECHANICAL-SANDWICH

SEM-II

	2008 Course TIME-02.30 PM To 05.30 PM	2012 Course TIME-02.30 PM To 05.00 PM
Day & Date	Subject	Subject
Thursday 17/05/2018		Mechanical Vibrations (402066)
Saturday 19/05/2018		** Mechanical System Design (402048) *TIME-02.30 PM To 05.30 PM
Tuesday 22/05/2018		Industrial Hydraulics And Pneumatics (402067)
Thursday 24/05/2018		ELECTIVE-I Refrigeration And Air Conditioning (402068 A)
		ELECTIVE-I Computational Fluid Dynamics (402068 B)
		ELECTIVE-I Design Of Pumps, Blowers & Compressors (402068 C)
		ELECTIVE-I CAD / CAM Automation (402068 D)
Saturday 26/05/2018	ELECTIVE-IV Costing And Cost Control (402066A)	ELECTIVE-II Energy Audit And Management (402069 A)
	ELECTIVE-IV Machine Tool Design (402066B)	ELECTIVE-II Operations Research (402069 B)
	ELECTIVE-IV Energy Management & Industrial Pollution (402066C)	ELECTIVE-II Robotics (402069 C)
		ELECTIVE-II Tribology (402069 D)

NOTE:-

*** Please Note The Timing.**

**** Common with Mechanical Engineering.**

PETROCHEMICAL

SEM-I

	2008 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Thursday 03/05/2018	Reaction Engineering - II (412401)
Saturday 05/05/2018	Process Dynamics And Control (412402)
Tuesday 08/05/2018	Environmental Engineering (412403)
Saturday 12/05/2018	ELECTIVE-I Biochemical Engineering (412404A)
	ELECTIVE-I Novel Separation Processes (412404B)
	ELECTIVE-I Elements Of Fluidization Engineering (412404C)
	ELECTIVE-I Green Chemistry (412404D)
Tuesday 15/05/2018	ELECTIVE-II Optimization Techniques For Process Industries (412405A)
	Elective-II Emerging Feed Stocks And Technologies For Petrochemicals (412405B)
	ELECTIVE-II Natural Gas Technology (412405C)
	ELECTIVE-II Health, Safety And Environment In Process Industry (412405D)

PETROCHEMICAL

SEM-II

	2008 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Thursday 17/05/2018	Refinery Process Design (412408)
Saturday 19/05/2018	Plant Design And Process Economics (412409)
Tuesday 22/05/2018	ELECTIVE-III Process Modeling And Simulation (412410A)
	ELECTIVE-III Fine Chemical Industries (412410B)
	ELECTIVE-III Colloidal & Interface Science (412410C)
	ELECTIVE-III Renewable Energy Sources (412410D)
Thursday 24/05/2018	ELECTIVE-IV Petroleum Exploration And Production Operations (412411A)
	ELECTIVE-IV Catalyst Science And Technology (412411B)
	ELECTIVE-IV Polymer Reaction Engineering (412411C)
	ELECTIVE-IV Open Elective (412411D)

PETROLEUM

SEM-I

	2008 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Thursday 03/05/2018	Reservoir Engineering II (412381)
Saturday 05/05/2018	Petroleum Formation Evaluation (412382)
Tuesday 08/05/2018	Well Engineering And Design (412383)
Saturday 12/05/2018	ELECTIVE-I Petroleum Exploration (412384A)
	ELECTIVE-I Advanced Instrumentation And Process Control In Petroleum Industry (412384B)
	ELECTIVE-I Programming Database Management And Information Systems In Petroleum Industry (412384C)
	ELECTIVE-I Mathematical Methods And Modeling In Petroleum Exploration And Production (412384D)
Tuesday 15/05/2018	ELECTIVE-II Petroleum Refining Technology (412385A)
	ELECTIVE-II Petroleum Product Analysis (412385B)
	ELECTIVE-II Non Conventional Hydrocarbon Resources (412385C)
	ELECTIVE-II Carbon Management In Petroleum Industry (412385D)

PETROLEUM

SEM-II

	2008 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Thursday 17/05/2018	Improved Oil Recovery And Reservoir Simulation (412387)
Saturday 19/05/2018	Petroleum Production Engineering – II (412388)
Tuesday 22/05/2018	ELECTIVE-III Advanced Drilling Engineering (412389A)
	ELECTIVE-III Deepwater Technology (412389B)
	ELECTIVE-III Transport Of Oil And Gas (412389C)
	ELECTIVE-III Environment Technology And Safety In Petroleum Industry (412389D)
Thursday 24/05/2018	ELECTIVE-IV Petroleum Economics (412390A)
	ELECTIVE-IV Petroleum Production Enhancement And Optimization (412390B)
	ELECTIVE-IV Well Control Methods (412390C)
	ELECTIVE-IV Open Elective (412390D)

POLYMER

SEM-I

	2008 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Thursday 03/05/2018	Polymer Compounding (409361)
Saturday 05/05/2018	Mold & Die Design - I (409362)
Tuesday 08/05/2018	Polymer Processing Operation – II (409363)
Saturday 12/05/2018	ELECTIVE-I Fiber Technology (409364A)
	ELECTIVE-I Mechanics Of Composites (409364B)
	ELECTIVE-I Polymer Reaction Engineering (409364C)
Tuesday 15/05/2018	ELECTIVE-II Production Planning And Control (409365A)
	ELECTIVE-II Surface Coatings And Adhesives (409365B)
	ELECTIVE-II Packaging Technology (409365C)

POLYMER

SEM-II

	2008 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Thursday 17/05/2018	Product Design & Polymer Testing (409368)
Saturday 19/05/2018	Mold And Die Design II (409369)
Tuesday 22/05/2018	ELECTIVE-III Polymer Physics And Characterization (409370A)
	ELECTIVE-III Processing Of Composites (409370B)
	ELECTIVE-III Specialty Polymers & Applications (409370C)
Thursday 24/05/2018	ELECTIVE-IV Advanced Polymer Rheology (409371A)
	ELECTIVE-IV Rubber Technology (409371B)
	ELECTIVE-IV Polymer Thermodynamics & Bends (409371C)
	ELECTIVE-IV Open Elective (409371D)

PRINTING ENGG. & COMMU.TECH

SEM-I

2008 Course TIME-02.30 PM To 05.30 PM	
Day & Date	Subject
Thursday 03/05/2018	Technology Of Gravure (408283)
Saturday 05/05/2018	Digital Imaging And Printing (408284)
Tuesday 08/05/2018	Advertising And Multimedia (408285)
Saturday 12/05/2018	ELECTIVE-I Quality Control Techniques In Printing (408281A)
	ELECTIVE-I Commercial Graphic Design (408281B)
	ELECTIVE-I Screen Printing Techniques (408281C)
Tuesday 15/05/2018	ELECTIVE-II Security Printing (408282A)
	ELECTIVE-II Newspaper Technology (408282B)
	ELECTIVE-II Open Elective Self Study (408282C)

PRINTING ENGG. & COMMU.TECH

SEM-II

2008 Course TIME-02.30 PM To 05.30 PM	
Day & Date	Subject
Thursday 17/05/2018	Package Design And Technology (408289)
Saturday 19/05/2018	Print Production Planning & Control (408290)
Tuesday 22/05/2018	ELECTIVE-III Electronic Publishing (408287A)
	ELECTIVE-III Printing Machine Maintenance (408287B)
	ELECTIVE-III Image Conversion And Modification (408287C)
Thursday 24/05/2018	ELECTIVE-IV Flexible Packaging (408288A)
	ELECTIVE-IV Entrepreneurship In Printing (408288B)
	ELECTIVE-IV Open Elective (408288C)

PRODUCTION

SEM-I

	2008 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Thursday 03/05/2018	Machine Tool Design (411081)
Saturday 05/05/2018	Manufacturing Automation (411082)
Tuesday 08/05/2018	Operations Research (411083)
Saturday 12/05/2018	ELECTIVE-I Plastic Engineering (411084A)
	ELECTIVE-I Industrial Robotics (411084B)
	ELECTIVE-I Powder Metallurgy (411084C)
	ELECTIVE-I Microprocessor Applications (411084D)
Tuesday 15/05/2018	ELECTIVE-II Ergonomics And Human Factors In Engineering (411085A)
	ELECTIVE-II Material & Logistic Management (411085B)
	ELECTIVE-II Simulation And Modeling (411085C)
	ELECTIVE-II Plant Engineering And Maintenance (411085D)

PRODUCTION

SEM-II

	2008 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Thursday 17/05/2018	Computer Integrated Design And Manufacturing (411087)
Saturday 19/05/2018	Processing Planning And Tool Selection (411088)
Tuesday 22/05/2018	ELECTIVE-III Automobile Engineering (411089A)
	ELECTIVE-III Mechatronics (411089B)
	ELECTIVE-III Metal Working Tribology (411089C)
	ELECTIVE-III Finite Element Analysis (411089D)
Thursday 24/05/2018	ELECTIVE-IV World Class Manufacturing (411090A)
	ELECTIVE-IV Intelligent Manufacturing Systems (411090B)
	ELECTIVE-IV Total Quality Management (411090C)
	ELECTIVE-IV Open Elective (411090D)

PRODUCTION-SANDWICH

SEM-I

	2008 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Thursday 03/05/2018	Operations Research & Management (411121)
Saturday 05/05/2018	Mechatronics And Robotics (411122)
Tuesday 08/05/2018	Advanced Production Technology (411123)
Saturday 12/05/2018	ELECTIVE-I Machine Tool Design (411124A)
	ELECTIVE-I Automobile Engineering (411124B)
	ELECTIVE-I Computer Integrated Manufacturing And Industrial Robotics (411124C)
	ELECTIVE-I Plastic Engineering (411124D)
Tuesday 15/05/2018	ELECTIVE-II Ergonomice And Human Factors In Engineering (411125A)
	ELECTIVE-II Materials Management & Logistics (411125B)
	ELECTIVE-II Financial Management & Cost Control (411125C)
	ELECTIVE-II Product Development (411125D)

PRODUCTION-SANDWICH

SEM-II

	2008 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Tuesday 22/05/2018	ELECTIVE-III Supply Chain Management (411130A)
	ELECTIVE-III Plant Engineering & Maintenance (411130B)
	ELECTIVE-III Industrial Relations & Human Resource Management (411130C)
	ELECTIVE-III Marketing Management (411130D)

Ganeshkhind, Pune - 411 007

Ref.No/XCT/241

Date:25/01/2018

Dr. Ashok Chavan

Director

Board of Examinations And Evaluation