

SAVITRIBAI PHULE PUNE UNIVERSITY

(Formerly University of Pune)



EXAMINATION CIRCULAR NO. 46 OF. 2019

BACHELOR OF ENGINEERING (2012 & 2015 COURSE)

INSEM-II Examination of MARCH-2019

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-II

	2015 Course TIME-02.00 PM To 03.00 PM	2012 Course TIME-02.00 PM To 03.00 PM
Day & Date	Subject	Subject
Monday 11/03/2019	Automotive System and Testing (416495)	Vehicle Performance And Testing. (416495)
Tuesday 12/03/2019	Automotive System Design (416496)	Automotive System Design (416496)
Wednesday 13/03/2019	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)
Thursday 14/03/2019	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-II

	2015 Course TIME-02.00 PM To 03.00 PM	2012 Course TIME-02.00 PM To 03.00 PM
Day & Date	Subject	Subject
Monday 11/03/2019	Process Modelling & Simulation (409349)	Process Modelling & Simulation (409349)
Tuesday 12/03/2019	Process Engineering Costing & Plant Design (409350)	Process Engineering Costing & Plant Design (409350)
Wednesday 13/03/2019	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)
Thursday 14/03/2019	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-II

	2015 Course TIME-02.00 PM To 03.00 PM	2012 Course TIME-02.00 PM To 03.00 PM
Day & Date	Subject	Subject
Monday 11/03/2019	Dams And Hydraulic Structures (401007)	Dams And Hydraulic Structures (401007)
Tuesday 12/03/2019	Quantity Surveying contracts And Tenders (401008)	Quantity Surveying contracts And Tenders (401008)
Wednesday 13/03/2019	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)	
Thursday 14/03/2019	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-II

	2015 Course TIME-02.00 PM To 03.00 PM	2012 Course TIME-02.00 PM To 03.00 PM
Day & Date	Subject	Subject
Monday 11/03/2019	Machine Learning (410250)	Software Design Methodology And Testing (410449)
Tuesday 12/03/2019	Information and Cyber Security (410251)	High Performance Computing (410450)
Wednesday 13/03/2019	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)
Thursday 14/03/2019	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)
	OPEN ELECTIVE Business Intelligence (410253DA)	OPEN ELECTIVE Unified Communications and Contact center Applications (410452DA)
	OPEN ELECTIVE Enterprise Resource Planning (410253DB)	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-II

	2015 Course TIME-02.00 PM To 03.00 PM	2012 Course TIME-02.00 PM To 03.00 PM
Day & Date	Subject	Subject
Monday 11/03/2019	Switchgear And Protection (403147)	Switchgear And Protection (403147)
Tuesday 12/03/2019	Power Electronic Controlled Drives (403148)	Power Electronic Controlled Drives (403148)
Wednesday 13/03/2019	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 Its 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)	
Thursday 14/03/2019	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)
	OPEN ELECTIVE VLSI Design (403150D)	OPEN ELECTIVE VLSI Design (403150D)

ELECTRONICS

SEM-II

	2015 Course TIME-02.00 PM To 03.00 PM	2012 Course TIME-02.00 PM To 03.00 PM
Day & Date	Subject	Subject
Monday 11/03/2019	Computer Network & Security (404209)	Computer Network (404209)
Tuesday 12/03/2019	Process Instrumentation (404210)	Process Automation (404210)
Wednesday 13/03/2019	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)	
Thursday 14/03/2019	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 (404212EA)
		OPEN ELECTIVE * Data Science and Analytics (404212EB)
		OPEN ELECTIVE * Industrial Internet of Things (404212EC)

NOTE:-

** Common with E & TC.*

ELECTRONICS & TELECOMMUNICATION

SEM-II

	2015 Course TIME-02.00 PM To 03.00 PM	2012 Course TIME-02.00 PM To 03.00 PM
Day & Date	Subject	Subject
Monday 11/03/2019	Mobile Communication (404189)	Mobile Communication (404189)
Tuesday 12/03/2019	Broadband Communication Systems (404190)	Broadband Communication Systems (404190)
Wednesday 13/03/2019	ELECTIVE-III Machine Learning (404191A)	ELECTIVE-III Speech & Audio Signal Processing (404191A)
	ELECTIVE-III PLC 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)	
Thursday 14/03/2019	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 (404192EA)
		OPEN ELECTIVE Unified Communications and Contact center Applications (404192EB)
		OPEN ELECTIVE Business Analytic And Intelligence (404192EC)
		OPEN ELECTIVE Data Science and Analytics (404192ED)
		OPEN ELECTIVE Industrial Internet of Things (404192EE)

INFORMATION TECHNOLOGY

SEM-II

	2015 Course TIME-02.00 PM To 03.00 PM	2012 Course TIME-02.00 PM To 03.00 PM
Day & Date	Subject	Subject
Monday 11/03/2019	Distributed Computing System (414462)	Distributed System (414461)
Tuesday 12/03/2019	Ubiquitous Computing (414463)	Advanced Databases (414462)
Wednesday 13/03/2019	ELECTIVE-III Internet Of Things (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)
Thursday 14/03/2019	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-II

	2015 Course TIME-02.00 PM To 03.00 PM	2012 Course TIME-02.00 PM To 03.00 PM
Day & Date	Subject	Subject
Monday 11/03/2019	Process Instrumentation (406268)	Process Instrumentation- II (406267)
Tuesday 12/03/2019	Industrial Automation (406269)	Industrial Automation (406268)
Wednesday 13/03/2019	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)
Thursday 14/03/2019	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-II

	2015 Course TIME-02.00 PM To 03.00 PM	2012 Course TIME-02.00 PM To 03.00 PM
Day & Date	Subject	Subject
Monday 11/03/2019	Energy Engineering (402047)	Power Plant Engineering (402047)
Tuesday 12/03/2019	*Mechanical System Design (402048) *TIME-2.00 PM To 03.30 PM	*Mechanical System Design (402048) *TIME-2.00 PM To 03.30 PM
Wednesday 13/03/2019	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)
Thursday 14/03/2019	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-II

	2015 Course TIME-02.00 PM To 03.00 PM	2012 Course TIME-02.00 PM To 03.00 PM
Day & Date	Subject	Subject
Monday 11/03/2019	**Energy Engineering (402047)	Mechanical Vibrations (402066)
Tuesday 12/03/2019	** Mechanical System Design (402048) *TIME-2.00 PM To 03.30 PM	** Mechanical System Design (402048) *TIME-2.00 PM To 03.30 PM
Wednesday 13/03/2019	Mechanical Vibrations (402066)	Industrial Hydraulics And Pneumatics (402067)
Thursday 14/03/2019	ELECTIVE-I Computational Fluid Dynamics (402068 A)	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 (402068 D)	ELECTIVE-I CAD/CAM Automation (402068D)
Friday 15/03/2019	ELECTIVE-II Energy Audit And Management (402069 A)	ELECTIVE-II Energy Audit And Management (402069 A)
	ELECTIVE-II Operations Research (402069 B)	ELECTIVE-II Operations Research (402069 B)
		ELECTIVE-II Robotics (402069 C)
		ELECTIVE-II Tribology (402069 D)

NOTE:-

* Please Note The Timing.

** Common with Mechanical Engineering.

Ganeshkhind, Pune - 411 007

Ref.No/XCT/716
Date:22/02/2019

Dr. Ashok Chavan
Director
Board of Examinations & Evaluation