SAVITRIBAI PHULE PUNE UNIVERSITY

(Formerly University of Pune)

Examination Circular No. 03 of 2016
Programme of B.E. 2012 Course (All Branches) In Sem Examinations, Feb., 2016

INSTRUCTIONS FOR CANDIDATES

1. Candidates are required to be present at examination centre fifteen minutes before the time fixed for the first paper and ten minutes before the time of each subsequent papers.

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. The Written Examination will be conducted in the following order:
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B.E. (CIVIL)
Time – 2.00p.m. to 3.00 p.m.
SEMESTER – II

Day & Date	2012 Course
Wednesday, 24.02.2016	Dams and Hydraulic Structures (401007)
Thursday, 25.02.2016	Quantity Surveying Contracts and Tenders (401008)
Friday, 26.02.2016	**Elective – III (401009)** a) Advanced Structural Design b) Advanced Foundation Engineering c) Hydropower Engineering d) Air Pollution and Control e) Finite Element Method in Civil Engineering

Saturday, 27.02.2016	**Elective – IV (401010)**
	a) Construction Management
	b) Advanced Transportation Engineering
	c) Statistical Analysis and Computational Methods in Civil Engineering
	d) Open Elective
	   i. Plumbing Engineering
	   ii. Green Building Technology
	   iii. Ferrocement Technolgy
	   iv. Sub sea Engineering
	   v. Wave Mechanics

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B.E. (MECHANICAL)
Time – 2.00p.m. to 3.00 p.m.

SEMESTER – II

Day & Date	2012 Course
Wednesday, 24.02.2016	Power Plant Engineering (402047)
Thursday, 25.02.2016	Mechanical System Design (402048)
Friday, 26.02.2016	**Elective – III (402049)** a) Refrigeration and Air Conditioning Equipment Design b) Robotics c) Industrial Engineering
Saturday, 27.02.2016	**Elective – IV (402050)** a) Computational Fluid Dynamics b) Finite Element Analysis c) Design of Pumps, Blowers and Compressors

B.E. (MECHANICAL SANDWICH)
Time – 2.00p.m. to 3.00 p.m.
SEMESTER – II

Day & Date	2012 Course
Wednesday, 24.02.2016	Mechanical Vibrations (402066)
Thursday, 25.02.2016	Mechanical System Design (402048) (Common to Mech.Engg.)

Friday, 26.02.2016	**Elective – I (402068)**
	   a) Refrigeration and Air Conditioning *(same as Mech. Engg. (402041)*
	   b) Computational Fluid Dynamics *(same as Mech. Engg. (402050)*
	   c) Design of Pumps, Blowers and Compressors *(same as Mech. Engg. (402050)*
	   d) CAD/CAM Automation *(same as Mech. Engg. (402052)*

Saturday, 27.02.2016	**Elective – II (402069)**
	   a) Energy Audit and Management *(same as Mech. Engg. (402044)*
	   b) Operation Research *(same as Mech. Engg. (402045)*
	   c) Robotics *(same as Mech. Engg. (402049)*
	   d) Tribology *(same as Mech. Engg. (402044)*

Monday, 29.02.2016	Industrial Hydraulics and Pneumatics (402067)

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B.E. (ELECTRICAL)
Time – 2.00p.m. to 3.00 p.m.

SEMESTER – II

Day & Date	2012 Course
Wednesday, 24.02.2016	Switchgear and Protection (403147)
Thursday, 25.02.2016	Power Electronic Controlled Drives (403148)

Friday, 26.02.2016	**Elective – III (403149)**
	   a) High Voltage Engineering
	   b) HVDC and FACTS
	   c) Digital Control System
	   d) Intelligent Systems and its Applications in Electrical Engineering

Saturday, 27.02.2016	**Elective – IV (403150)**
	   a) Smart Grid
	   b) Robotics and Automation
	   c) Illumination Engineering
	   d) **Open Elective :** VLSI Design

B.E. (ELECTRONICS & TELECOMMUNICATIOINS)
Time – 2.00p.m. to 3.00 p.m.

SEMESTER – II

Day & Date	2012 Course
Wednesday, 24.02.2016	Mobile Communication (404189)
Thursday, 25.02.2016	Broadband Communication Systems (404190)

Friday, 26.02.2016	**Elective – III (404191)**
	    a) Speech & Audio Signal Processing
	    b) RF Circuit Design
	    c) Audio Video Engineering
	    d) Soft Computing

Saturday, 27.02.2016	**Elective – IV -(404192)**
	    a) Biomedical Signal Processing
	    b) Nano Electronics & MEMS
	    c) Detection & Estimation Theory
	    d) Wireless Networks
	    e) **Open Elective :**
	       i) Advanced Automotive Electronics
	      ii) Unified Communications and Contact center Applications

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B.E. (ELECTRONICS)
Time – 2.00p.m. to 3.00 p.m.

SEMESTER – II

Day & Date	2012 Course
Wednesday, 24.02.2016	Computer Network (404209)
Thursday, 25.02.2016	Process Automation (404210)

Friday, 26.02.2016	**Elective – III (404211)**
	    a) Speech & Audio Signal Processing
	    b) Audio & Video Engineering
	    c) Optical and Microwave Communication
	    d) Soft Computing

Saturday, 27.02.2016	**Elective – IV (404212)**
	    a) Biomedical Signal Processing
	    b) Nano Electronics & MEMS
	    c) System on Chip
	    d) Mechatronics
	    e) Open Elective :
	       i) Advanced Automotive Electronics

B.E. (INFORMATION TECHNOLOGY)

Time – 2.00p.m. to 3.00 p.m.

SEMESTER –II

Day & Date	2012 Course
Wednesday, 24.02.2016	Distributed System (414461)
Thursday, 25.02.2016	Advanced Databases (414462)

Friday, 26.02.2016	**Elective – III (414463)**
	  a) Mobile Computing
	  b) Advanced Graphics and Animation
	  c) Information Storage and Retrieval
	  d) IT Enabled Service
	  e) Advanced Computer Networks

Saturday, 27.02.2016	**Elective – IV (414464)**
	  a) Bio Informatics
	  b) Real Time and Embedded Systems
	  c) Green IT - Principles and Practices
	  d) Internet of Things
	  e) Open Elective :
	    i) Unified Communications and Contact center Applications

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B.E. (COMPUTER ENGINEERING)

Time – 2.00p.m. to 3.00 p.m.

SEMESTER – II

Day & Date	2012 Course
Wednesday, 24.02.2016	Software Design Methodologies & Testing (410449)
Thursday, 25.02.2016	High Performance Computing (410450)

Friday, 26.02.2016	**Elective – III (410451)**
	  a) Mobile Computing
	  b) Web Technology
	  c) Cloud Computing
	  d) Cyber Security

Saturday, 27.02.2016	**Elective – IV (410452)**
	  a) Business Analytic and Intelligence
	  b) Operation Research for Algorithms in Scientific Applications
	  c) Mobile Applications
	  d) Open Elective:
	    i) Unified Communications and Contact center Applications
	    ii) Programming Paradigms for Complex Problems –case studies in Python
	    iii) Concurrency on Open Source Systems

B.E. (CHEMICAL ENGINEERING)
Time – 2.00p.m. to 3.00 p.m.

SEMESTER –II

Day & Date	2012 Course
Wednesday, 24.02.2016	Process Modeling and Simulation (409349)
Thursday, 25.02.2016	Process Engineering Costing & Plant Design (409350)
Friday, 26.02.2016	**Elective – III (409351)** a) Energy Conservation In Chemical Process Industries b) Chemical Process Safety c) Food Technology d) Advanced Materials
Saturday, 27.02.2016	**Elective – IV (409352)** a) Catalysis b) Nanotechnology c) Fuel Cell Technology d) Petrochemical Engineering

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B.E. (INSTRUMENTATION & CONTROL ENGINEERING)
Time – 2.00p.m. to 3.00 p.m.

SEMESTER –II

Day & Date	2012 Course
Wednesday, 24.02.2016	Process Instrumentation – II (406267)
Thursday, 25.02.2016	Industrial Automation (406268)
Friday, 26.02.2016	**Elective – III (406269)** a) Digital Image Processing b) Building Automation – II c) Process Modelling & Optimization d) Virtual Instrumentation e) Computer Techniques and Applications
Saturday, 27.02.2016	**Elective – IV (406270)** a) Smart Material and Systems b) Instrumentation in Agriculture and Food Processing c) Neural Network and Fuzzy Logic Control d) Automobile Instrumentation e) Open Elective:

B.E. (AUTOMOBILE ENGINEERING)
Time – 2.00p.m. to 3.00 p.m.

SEMESTER – II

Day & Date	(2012 Course)
Wednesday, 24.02.2016	Vehicle Performance and Testing (416495)
Thursday, 25.02.2016	Automotive System Design (416496)
Friday, 26.02.2016	**Elective – III (416497)** a) Automotive NVH b) Off Road Vehicle c) Alternative Fuels and Emission Control
Saturday, 27.02.2016	**Elective – IV (416498)** a) Transport Management and Motor Industries b) Operation Research c) Open Elective:

8 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.

9 Use of non-programmable battery operated electronic calculator of pocket size is allowed. The exchange of calculator is not allowed.

Ganeshkhind, Pune-411007   Dr. Ashok Chavan
Ref. / XCT /78   Controller of Examinations
Date: 28/01/2016