SAVITRIBAI PHULE PUNE UNIVERSITY



Examination Circular No. 159 of 2014 Programme of B.E. 2008 Course (All Branches) Examinations, October, 2014

INSTRUCTIONS FOR CANDIDATES

- 1. Candidates are required to be present at respective college 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 religious or any other ground shall be granted.
- **4.** Candidates are requested to see the Notice -Board at their place of examination regularly for changes if any, that may be notified later in the programme.
- **5.** Candidates are requested to note the Day, Date and Time of every Paper on every Day
- **6.** Candidates are permitted to use stencils at the time of examination.
- 7. Candidates appearing for the examinations are expected to provide themselves with Side- rules.
- **8.** 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.
- **9.** Use of non-programmable battery operated electronic Calculator of Pocket-size is allowed. The exchange of Calculators is not allowed.
- 10. The Written Examination will be conducted in the following order:

B.E. (CIVIL) Time – 2.30 to 5.30 p.m.

<u>SEMESTER – II</u>

Day & Date	2008 Course
Wednesday,	Quantity Surveying Contracts and Tenders (401009)
29/10/2014	
Thursday,	Transportation Engineering – II (401010)
30/10/2014	
Friday,	Elective – III (401007)
31/10/2014	a) Advanced Structural Design
	b) Advanced Foundation Engineering
	c) Advanced Engineering Geology with Rock Mechanics
	d) Advanced Environmental Management
	e) Construction Management
Saturday,	<u>Elective – IV (401008)</u>
01/11/2014	a) Integrated Water Resources and Planning
	b) Advanced Transportation Engineering
	c) Statistical Analysis And Computational Methods in Civil Engg.
	Open Elective (401008)
	a) Finite Element Method in Civil Engg.,
	b) Geoinformatics
	c) Hydropower Engineering
	d) Industrial Waste Water Management
	e) Mechanics of Waves
	f) Ferrocement Technology
	g) Plumbing Engineering
	h) Green Building Technology

Day & Date	2008 Course
Monday,	Environmental Engineering – II (401001)
03/11/2014	
Friday,	Dams and Hydraulic Structures (401002)
07/11/2014	
Monday,	Structure Design – III (401003)
10/11/2014	*(2:30 p.m. to 6:30 p.m.)
Wednesday,	<u>Elective – I (401004)</u>
12/11/2014	a) Structural Design in Bridges
	b) System Approach in Civil Engineering
	c) Air Pollution and Control
	d) Architecture and Town Planning
	e) Advanced Geotechnical Engineering
Friday,	<u>Elective – II (401005)</u>
14/11/2014	a) Matrix Methods of Structural Analysis
	b) Hydroinformatics
	c) TQM & MIS in Civil Engineering
	d) Earthquake Engineering
	e) Advanced concrete Technology

^{*} Please note the Timing

B.E. (MECHANICAL) Time – 2.30 to 5.30 p.m. SEMESTER – II

Day & Date	2008 Course
Wednesday,	Power Plant Engineering (402047)
29/10/2014	
Thursday,	Mechanical System Design (402048) *(2.30 p.m. to 6.30 p.m.)
30/10/2014	
Friday,	Elective – III (402049)
31/10/2014	a) Computational Fluid Dynamics
	b) Finite Element Method
	c) Robotics
	d) Advanced Air Conditioning and Refrigeration
Saturday,	<u>Elective – IV (402050)</u>
01/11/2014	a) Industrial Heat Transfer Equipments
	b) Management Information System
	c) Reliability Engineering
	d) Open Elective
	i) Cryogenic Engineering
	ii) Product Lifecycle Management
	iii) Industrial Automation

Day & Date	2008 Course
Monday,	CAD/CAM Automation (402041)
03/11/2014	
Friday,	Dynamics of Machinery (402042)
07/11/2014	
Monday,	Industrial Fluid Power (402043)
10/11/2014	
Wednesday,	Elective – I (402044)
12/11/2014	a) Energy Audit and Management
	b) Product Design and Development
	c) Design of Pumps, Blowers and Compressors
	d) Tribology
Friday,	<u>Elective – II (402045)</u>
14/11/2014	a) Automobile Engineering
	b) Machine Tool Design
	c) Quantitative and decision making Techniques

^{*} Please note the Timing

B.E. (MECHANICAL SANDWICH) Time – 2.30 to 5.30 p.m. SEMESTER – II

Day & Date	2008 Course
Wednesday,	
29/10/2014	
Thursday,	
30/10/2014	
Friday,	
31/10/2014	
Saturday,	Elective – IV (402066)
01/11/2014	a) Costing & Cost Control
	b) Machine Tool Design
	c) Energy Management & Industrial Pollution

$\underline{SEMESTER-I}$

Day & Date	2008 Course
Monday,	Machine & Computer Aided Design (402061)
03/11/2014	*(2.30 p.m. to 6.30 p.m.)
Friday,	Dynamics of Machinery (402042)
07/11/2014	(Common to Mechanical)
Monday,	Industrial Hydraulics & Pneumatics (402062)
10/11/2014	
Wednesday,	Elective – II (402063)
12/11/2014	a) Refrigeration & Air Conditioning
	b) Computational Fluid Dynamics
	c) Finite Element Method
Friday,	Elective – III(402064)
14/11/2014	a) Automobile Engineering
	b) Operations Research
	c) Robotics

^{*} Please note the Timing

B.E. (ELECTRICAL) Time – 2.30 to 5.30 p.m. SEMESTER – II

Day & Date	2008 Course
Wednesday,	Switchgear and Protection (403147)
29/10/2014	
Thursday,	Industrial Drives and Control
30/10/2014	(403148)
Friday,	Elective – III (403149)
31/10/2014	a) VLSI Design
	b) High Voltage Engineering
	c) Digital Signal Processing
	d) ANN and its Applications in Electrical Engineering
Saturday,	<u>Elective – IV (403150)</u>
01/11/2014	a) Modeling of Electrical System
	b) Renewable Energy System
	c) Digital Control System
	d) Introduction to Electrical Transportation Systems

Day & Date	2008 Course
Monday,	PLC and SCADA Applications
03/11/2014	(403141)
Friday,	Power System Operation and Control (403142)
07/11/2014	
Monday,	Control System – II (403145)
10/11/2014	
Wednesday,	Elective – I (403143)
12/11/2014	a) Robotics and Automation
	b) Power Quality
	c) Illumination Engineering
	d) Project Management
Friday,	Elective – II (403144)
14/11/2014	a) Restructuring and Deregulation
	b) Embedded System
	c) EHV Transmission
	d) Smart Grid

B.E. (ELECTRONICS & TELECOMMUNICATIOINS) Time – 2.30 to 5.30 p.m. SEMESTER – II

Day & Date	2008 Course
Wednesday,	Telecommunication & Switching System (404187)
29/10/2014	
Thursday,	Optical Fiber Communication (404188)
30/10/2014	
Friday,	Elective – III (404189)
31/10/2014	a) Soft Computing
	b) Speech Processing
	c) Television and Video Engineering
	d) Test and Measurement Systems
Saturday,	Elective – IV (404190)
01/11/2014	a) Artificial Intelligence
	b) Automotive Electronics
	c) Nanotechnology
	d) PLC and Industrial Process Automation
	e) Open Elective

Day & Date	2008 Course
Monday,	Electronics Product Design (404181)
03/11/2014	
Friday,	VLSI Design & Technology (404182)
07/11/2014	
Monday,	Computer Network (404183)
10/11/2014	
Wednesday,	Elective – I (404184)
12/11/2014	a) Digital Image Processing
	b) Embedded System and RTOS
	c) Industrial Drives Control
	d) Microwave Communication and Radar
Friday,	Elective – II -(404185)
14/11/2014	a) Entrepreneurship Development
	b) Joint Time Frequency Analysis
	c) Micro-electromechanical and system on chip(MEMS and SOC)
	d) Mobile Communication

B.E. (ELECTRONICS) Time – 2.30 to 5.30 p.m. SEMESTER – II

Day & Date	2008 Course
Wednesday,	Computer Network & Security (404207)
29/10/2014	
Thursday,	Process Automation (404208)
30/10/2014	
Friday,	Elective – III (404209)
31/10/2014	a) Audio and Video Engineering
	b) Image Processing and Machine Vision
	c) Optical and Microwave Communication
	d) Soft Computing Tools
Saturday,	<u>Elective – IV (404210)</u>
01/11/2014	a) Advanced Communication System
	b) Automotive Electronic Systems
	c) Artificial Intelligence
	d) Nanotechnology in Electronics
	e) Open Elective

Day & Date	2008 Course
Monday,	Electronics System Design (404201)
03/11/2014	
Friday,	VLSI Design (404202)
07/11/2014	
Monday,	Embedded System (404203)
10/11/2014	
Wednesday,	Elective – I (404204)
12/11/2014	a) Advanced Measurement Systems
	b) Advanced Power Electronics
	c) Biomedical Instrumentation
	d) Mechatronics
Friday,	Elective – II (404205)
14/11/2014	a) Advanced Computer Architecture
	b) Entrepreneurship and Business Planning
	c) SOC (System on Chip)
	d) Robotics and Automation

B.E. (PRODUCTION ENGINEERING) Time – 2.30 to 5.30 p.m. SEMESTER – II

Day & Date	2008 Course
Wednesday,	Computer Integrated Design and Manufacturing (411087)
29/10/2014	
Thursday,	Processing Planning and Tool Selection (411088)
30/10/2014	
Friday,	Elective – III(411089)
31/10/2014	a) Automobile Engineering
	b) Mechatronics
	c) Metal Working Tribology
	d) Finite Element Analysis
Saturday,	Elective – IV (411090)
01/11/2014	a)World Class Manufacturing
	b) Intelligent Manufacturing Systems
	c) Total Quality Management
	d) Open Elective

Day & Date	2008 Course
Monday,	Machine Tool Design (411081)
03/11/2014	
Friday,	Manufacturing Automation (411082)
07/11/2014	
Monday,	Operations Research (411083)
10/11/2014	
Wednesday,	Elective – I (411084)
12/11/2014	a) Plastic Engineering
	b) Industrial Robotics
	c) Powder Metallurgy
	d) Microprocessor Applications
Friday,	Elective – II (411085)
14/11/2014	a) Ergonomics and Human Factors in Engineering
	b) Material & Logistic Management
	c) Simulation and Modeling
	d) Plant Engineering and Maintenance

B.E. (PRODUCTION SANDWICH) Time – 2.30 to 5.30 p.m. SEMESTER – II

Day & Date	2008 Course
Wednesday,	
29/10/2014	
Thursday,	
30/10/2014	
Friday,	Elective – III (411130)
31/10/2014	a) Supply Chain Management
	b) Plant Engineering & Maintenance
	c) Industrial Relations & Human Resource Management
	d) Marketing Management
Saturday,	
01/11/2014	

Day & Date	2008 Course
Monday,	Operations Research & Management (411121)
03/11/2014	
Friday,	Mechatronics & Robotics (411122)
07/11/2014	
Monday,	Advanced Production Technology
10/11/2014	(411123)
Wednesday,	Elective – I (411124)
12/11/2014	a) Machine Tool Design
	b) Automobile Engineering
	c) Computer Integrated Manufacturing and Industrial Robotics
	d) Plastic Engineering
Friday,	Elective – II (411125)
14/11/2014	a) Ergonomice and Human Factors in Engineering
	b) Materials Management & Logistics
	c) Financial Management & Cost Control
	d) Product Development

B.E. (INDUSTRIAL ENGINEERING) Time – 2.30 to 5.30 p.m. SEMESTER – II

Day & Date	2008 Course
Wednesday,	Reliability Engineering (411108)
29/10/2014	
Thursday,	Energy Management ((411109)
30/10/2014	
Friday,	Elective – III (411110)
31/10/2014	a) IE applications in Service Sector
	b) Supply Chain Management
	c) Manufacturing Automation
	d) Process Planning & Manufacturing Engineering
Saturday,	Elective - IV (411111)
01/11/2014	a) *** Open Elective
	b) Plastics Engineering
	c) Manufacturing Strategies
	d) Quality Management

$\underline{SEMESTER-I}$

Day & Date	2008 Course
Monday,	Financial Management & Costing
03/11/2014	(411101)
Friday,	Project Management (411102)
07/11/2014	
Monday,	Quantitative Techniques (411103)
10/11/2014	
Wednesday,	Elective – I (411104)
12/11/2014	a) Advanced Ergonomics
	b) Logistics & Warehousing Management
	c) Material Forming
	d) Human Resource Management
Friday,	Elective – II (411105)
14/11/2014	a) Industrial Laws
	b) World class Manufacturing
	c) Machine Tool Technology
	d) Development of Professional Skills

B.E. (PRINTING ENGINEERING) Time – 2.30 to 5.30 p.m. SEMESTER – II

Day & Date	2008 Course
Wednesday,	Package Design and Technology (408289)
29/10/2014	
Thursday,	Print Production Planning and Control (408290)
30/10/2014	
Friday,	Elective – III (408287)
31/10/2014	a) Electronic Publishing
	b) Printing Machine Maintenance
	c) Image Conversion & Modification
Saturday,	Elective – IV (408288)
01/11/2014	a) Flexible Packaging
	b) Entrepreneurship in Printing
	c) Open Elective

Day & Date	2008 Course
Monday,	Technology of Gravure (408283)
03/11/2014	
Friday,	Digital Imaging and Printing
07/11/2014	(408284)
Monday,	Advertising and Multimedia
10/11/2014	(408285)
Wednesday,	Elective - I (408281)
12/11/2014	a) Quality Control Techniques in Printing
	b) Commercial Graphic Design
	c) Screen Printing Techniques
Friday,	Elective – II (408282)
14/11/2014	a) Security Printing
	b) Newspaper Technology
	c) Open Elective (Self Study)

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B.E. (INFORMATION TECHNOLOGY) Time – 2.30 to 5.30 p.m. SEMESTER – II

Day & Date	2008 Course
Wednesday,	Distributed System (414448)
29/10/2014	
Thursday,	Information Retrieval (414449)
30/10/2014	
Friday,	Elective – III (414450)
31/10/2014	a) Real Time System
	b) Software Architecture
	c) Advanced Graphics
	d) Advanced Computer Networks
Saturday,	<u>Elective - IV (414451)</u>
01/11/2014	a) Bio Informatics
	b) Neural Network and Expert System
	c) Geo Informatics Systems
	d) Open Elective
	i) Business Intelligence

$\underline{SEMESTER-I}$

Day & Date	2008 Course
Monday,	Information Assurance and Security (414441)
03/11/2014	
Friday,	Object Oriented Modeling & Design (410443)
07/11/2014	
Monday,	Software Testing and Quality Assurance (414442)
10/11/2014	
Wednesday,	Elective – I (414443)
12/11/2014	a) Advanced Database Management
	b) Artificial Intelligence
	c) Computer Design
	d) Advanced Operating Systems
Friday,	Elective – II (414444)
14/11/2014	a) Embedded System
	b) Mobile Computing
	c) Multimedia Systems

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B.E. (COMPUTER ENGINEERING) Time – 2.30 to 5.30 p.m. SEMESTER – II

Day & Date	2008 Course
Wednesday,	Distributed Operating Systems
29/10/2014	(410448)
Thursday,	Advanced Computer Architecture
30/10/2014	(410449)
Friday,	Elective- III (410450)
31/10/2014	a) Pattern Recognition
	b) High Performance Networks
	c) Neural Networks
	d) Advanced Databases
Saturday,	<u>Elective – IV (410451)</u>
01/11/2014	a) VLSI & Digital Systems Design
	b) Operations Research
	c) Cloud Computing
	d) Information Security
	e) Open Elective

SEMESTER - I

Day & Date	2008 Course
Monday,	Design & Analysis of Algorithms
03/11/2014	(410441)
Friday,	Principles of Compiler Design
07/11/2014	(410442)
Monday,	Object Oriented Modeling & Design (410 443)
10/11/2014	
Wednesday,	<u>Elective – I (410444)</u>
12/11/2014	a) Image Processing
	b) Design & Analysis of Computer Networks
	c) Artificial Intelligence
	d) Software Architecture
Friday,	Elective – II (410445)
14/11/2014	a) Multimedia Systems
	b) Mobile Computing
	c) Embedded Systems
	d) Software Testing & Quality Assurance

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B.E. (PETROCHEMICAL ENGINEERING) Time – 2.30 to 5.30 p.m. SEMESTER – II

Day & Date	2008 Course
Wednesday,	Refinery Process Design (412408)
29/10/2014	
Thursday,	Plant Design and Process Economics (412409)
30/10/2014	
Friday,	Elective – III(412410)
31/10/2014	a) Process Modeling and Simulation
	b) Fine Chemical Industries
	c) Colloidal and Interface Science
	d) Renewable Energy Sources
Saturday,	Elective – IV (412411)
01/11/2014	a) Petroleum Exploration and Production Operations
	b) Catalyst Science and Technology
	c) Polymer Reaction Engineering
	d) Open Elective

Day & Date	2008 Course
Monday,	Reaction Engineering – II (412401)
03/11/2014	
Friday,	Process Dynamics and Control
07/11/2014	(412402)
Monday,	Environmental Engineering
10/11/2014	(412403)
Wednesday,	<u>Elective – I (412404)</u>
12/11/2014	a) Biochemical Engineering
	b) Novel Separation Processes
	c) Elements of Fluidization Engineering
	d) Green Chemistry
Friday,	Elective – II (412405)
14/11/2014	a) Optimization Techniques for Process Industries
	b) Emerging feed stocks and Technologies for Petrochemicals
	c) Natural Gas Technology
	d) Health, Safety and Environment in Process Industry

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B.E. (PETROLEUM ENGINEERING)

Time – 2.30 to 5.30 p.m. <u>SEMESTER – II</u>

Day & Date	2008 Course
Wednesday,	Improved Oil Recovery and Reservoir Simulation (412387)
29/10/2014	
Thursday,	Petroleum Production Engineering – II (412388)
30/10/2014	
Friday,	Elective – III (412389)
31/10/2014	a) Advanced Drilling Engineering
	b) Deepwater Technology
	c) Transport of Oil and Gas
	d) Environment Technology and Safety in Petroleum Industry
Saturday,	Elective – IV (412390)
01/11/2014	a) Petroleum Economics
	b) Petroleum Production Enhancement and Optimization
	c) Well Control Methods
	d) Open Elective

SEMESTER - I

Day & Date	2008 Course
Monday,	Reservoir Engineering II (412381)
03/11/2014	
Friday,	Petroleum Formation Evaluation
07/11/2014	(412382)
Monday,	Well Engineering and Design
10/11/2014	(412383)
Wednesday,	Elective – I (412384)
12/11/2014	a) Petroleum Exploration
	b) Advanced Instrumentation and Process Control in Petroleum
	Industry
	c) Programming Database Management and Information Systems
	in Petroleum Industry
	d) Mathematical Methods and Modeling in Petroleum Exploration
	and Production
Friday,	Elective-II (412385)
14/11/2014	a) Petroleum Refining Technology
	b) Petroleum Product Analysis
	c) Non Conventional Hydrocarbon Resources
	d) Carbon Management in Petroleum Industry

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B.E. (CHEMICAL ENGINEERING) Time – 2.30 to 5.30 p.m.

SEMESTER – II

Day & Date	2008 Course
Wednesday,	Process Modeling and Simulation (409351)
29/10/2014	
Thursday,	Process Engineering Costing & Plant Design (409352)
30/10/2014	
Friday,	Elective – III (409349)
31/10/2014	a) Artificial Intelligence In Chemical Engineering
	b) Energy Conservation In Chemical Process Industries
	c) Chemical Process Safety
	d) Food Technology
Saturday,	Elective – IV (409350)
01/11/2014	a) Standardization and Quality Assurance in Chemical Process
	Industry
	b) Catalysis
	c) Nanotechnology
	d) Fuel Cell Technology
	e) Petrochemical Engineering
	f) Computer Aided Process Control
	g) Open Elective

Day & Date	2008 Course
Monday,	Process Dynamics and Control (409343)
03/11/2014	
Friday,	Chemical Reaction Engineering – II (409344)
07/11/2014	
Monday,	Chemical Engineering Design – II
10/11/2014	(409345)
Wednesday,	Elective – I (409341)
12/11/2014	a) Environmental Engineering
	b) Membrane Technology
	c) Bioprocess Engineering
	d) Corrosion Engineering
Friday,	Elective – II (409342)
14/11/2014	a) Chemical Process Synthesis
	b) Advanced Materials
	c) Polymer Technology
	d) Piping Design & Engineering
	e) Advanced Separation Processes
	f) Petroleum Refining

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B.E. (POLYMER ENGINEERING) Time – 2.30 to 5.30 p.m. SEMESTER – II

Day & Date	2008 Course
Wednesday,	Product Design & Polymer Testing
29/10/2014	(409368)
Thursday,	Mold & Die Design – II (409369)
30/10/2014	
Friday,	Elective – III (409370)
31/10/2014	a) Polymer Physics and Characterization
	b) Processing of Composites
	c) Specialty Polymers & Applications
Saturday,	Elective – IV (409371)
01/11/2014	a) Advanced Polymer Rheology
	b) Rubber Technology
	c) Polymer Thermodynamics and Bends
	d) Open Elective

Day & Date	2008 Course
Monday,	Polymer Compounding (409361)
03/11/2014	
Friday,	Mold & Die Design – I (409362)
07/11/2014	
Monday,	Polymer Processing Operation – II
10/11/2014	(409363)
Wednesday,	Elective – I (409364)
12/11/2014	a) Fiber Technology
	b) Mechanics of Composites
	c) Polymer Reaction Engineering
Friday,	Elective – II (409365)
14/11/2014	a) Production Planning and Control
	b) Surface Coating and Adhensives
	c) Packaging Technology

^{*} Please note the Timing

B.E. (INSTRUMENTATION & CONTROL ENGINEERING) Time – 2.30 to 5.30 p.m. SEMESTER – II

Day & Date	2008 Course
Wednesday,	Process Dynamics and Control
29/10/2014	(406267)
Thursday, 30/10/2014	Industrial Automation (406268)
Friday,	Elective – III (406269)
31/10/2014	a) Advanced Biomedical Instrumentation
	b) Fiber Optic Instrumentation
	c) Process Modeling and Optimization
	d) Building Automation - II
Saturday,	Elective – IV (406270)
01/11/2014	a) Instrumentation in Agriculture
	b) Micro Electro Mechanical Systems
	c) Digital Image Processing
	d) Open Elective

SEMESTER - I

Day & Date	2008 Course
Monday,	Process Instrumentation (406261)
03/11/2014	
Friday,	Digital Control (406262)
07/11/2014	
Monday,	Project Engineering and Management (406263)
10/11/2014	
Wednesday,	Elective – I (406264)
12/11/2014	a) Biomedical Instrumentation
	b) Laser based Instrumentation
	c) Advanced Control Systems
	d) Building Automation – I
Friday,	<u>Elective – II (406265)</u>
14/11/2014	a) Environmental Instrumentation
	b) Nano Instrumentation
	c) Advanced Digital Signal Processing
	d) Automobile Instrumentation

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B.E. (BIOTECHNOLOGY) Time – 2.30 to 5.30 p.m. SEMESTER – II

Day & Date	2008 Course
Wednesday,	Bioprocess Modeling and Simulation (415469)
29/10/2014	
Thursday,	Plant Engineering & Project Costing (415470)
30/10/2014	
Friday,	Elective – III (415467)
31/10/2014	a) Food Biotechnology
	b) Agricultural Biotechnology
	c) Introduction to Systems Biology
Saturday,	Elective – IV (415468)
01/11/2014	a) Management and Entrepreneurship
	b) IPR,. Bioethics and Regulations
	c) Industrial Organization and Management

SEMESTER – I

Day & Date	2008 Course
Monday,	Bioseparation II (415463)
03/11/2014	
Friday,	Instrumentation and Process Control (415464)
07/11/2014	
Monday,	Bioprocess Equipment Design
10/11/2014	(415465)
Wednesday,	Elective – I (415461)
12/11/2014	a) Environmental Biotechnology
	b) Chemoinformatics and Structural Biology
	c) Bio-therapeutics Technology
Friday,	Elective – II (415462)
14/11/2014	a) Bioenergy and Renewable Resources
	b) Biomaterials
	c) Stem Cell Biology and Regenerative Medicine

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B.E. (AUTOMOBILE ENGINEERING) Time: 2.30 p.m. to 5.30 p.m.

SEMESTER – II

Day & Date	Automobile Engineering (2008 Course)
XX 1 1	Alt (1 E 1 1 E 1 1 C + 1/41/405)
Wednesday,	Alternative Fuels and Emissioin Control (416495)
29/10/2014	
Thursday,	Vehicle Performance and Testing (416496)
30/10/2014	
Friday,	Elective – III (416497)
31/10/2014	a) Computational Fluid Dynamics
	b) Finite Element Analysis
	c) Hydraulics and Pneumatics
	d) Product Development and Costing
Saturday,	Elective – IV (416498)
01/11/2014	a) Transport Management and Motor Industry
	b) Energy Engineering and Management
	c) Hybrid, Electric and Fuel-cell Vehicles
	d) Open Elective

SEMESTER – I

Day & Date	Automobile Engineering (2008 Course)
Monday, 03/11/2014	Automotive Refrigeration and Air Conditioning (416488)
Friday, 07/11/2014	Machine and Vehicle Dynamics (416489)
Monday, 10/11/2014	Automotive System Design (416490)
Wednesday,	<u>Elective – I (416491)</u>
12/11/2014	a) Automotive Aerodynamics and Styling
	b) Tribology
	c) CAD-CAM and Automation
	d) Automotive NVH
Friday,	<u>Elective – II (416492)</u>
14/11/2014	a) Automotive Materials
	b) Vehicle Safety
	c) Off Road Vehicles
	d) Auxiliary Engine Systems

- 11. The Practical/Oral/Project Examination will be conducted from 06.10.2014 to 18-10-2014.
- 12. Candidates are permitted to use the stencils at the time of examination.
- 13. 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.
- **14.** Use of non-programmable battery operated electronic calculator of pocket size is allowed. The exchange of calculator is not allowed.

Ganeshkhind, Pune-411007

Ref. / XCT / 894 Date: 23/09/2014 Dr.V.B.Gaikwad Controller of Examinations