

UNIVERSITY OF PUNE



Examination Circular No. 35 of 2014
Programme of B.E. 2008 course (All Branches) Examinations, May, 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.
(As per Circular No.128/2013 dated 10.10.2013) except following two colleges.
 1. Anantrao Pawar College of Engineering, Parvati, Pune
 2. Sharadchandra Pawar College of Engineering, Dumbarwadi, Otur, Dist. Pune
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.

SEMESTER – I

Day & Date	2008 Course
Tuesday 06/05/2014	Environmental Engineering – II (401001)
Thursday 08/05/2014	Dams and Hydraulic Structures (401002)
Saturday 10/05/2014	Structure Design – III (401003) *(2:30 p.m. to 6:30 p.m.)
Tuesday 13/05/2014	<u>Elective – I (401004)</u> 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 16/05/2014	<u>Elective – II (401005)</u> a) Matrix Methods of Structural Analysis b) Hydroinformatics c) TQM & MIS in Civil Engineering d) Earthquake Engineering e) Advanced concrete Technology

SEMESTER – II

Day & Date	2008 Course
Monday 19/05/2014	Quantity Surveying Contracts and Tenders (401009)
Wednesday 21/05/2014	Transportation Engineering – II (401010)
Friday 23/05/2014	<u>Elective – III (401007)</u> a) Advanced Structural Design b) Advanced Foundation Engineering c) Advanced Engineering Geology with Rock Mechanics d) Advanced Environmental Management e) Construction Management
Monday 26/05/2014	<u>Elective – IV (401008)</u> a) Integrated Water Resources and Planning b) Advanced Transportation Engineering c) Statistical Analysis And Computational Methods in Civil Engg. <u>Open Elective (401008)</u> a) Finite Element Method in Civil Engg. b) Geoinformatics c) Hydropower Engineering d) Industrial Waste Water Management e) Mechanics of Waves f) Plumbing Engineering g) Ferrocement Technology h) Green Building Technology

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

SEMESTER – I

Day & Date	2008 Course
Tuesday 06/05/2014	CAD/CAM Automation (402041)
Thursday 08/05/2014	Dynamics of Machinery (402042)
Saturday 10/05/2014	Industrial Fluid Power (402043)
Tuesday 13/05/2014	<u>Elective – I (402044)</u> a) Energy Audit and Management b) Product Design and Development c) Design of Pumps, Blowers and Compressors d) Tribology
Friday 16/05/2014	<u>Elective – II (402045)</u> a) Automobile Engineering b) Machine Tool Design c) Quantitative and decision making Techniques

SEMESTER – II

Day & Date	2008 Course
Monday 19/05/2014	Power Plant Engineering (402047)
Wednesday 21/05/2014	Mechanical System Design (402048) *(2.30 p.m. to 6.30 p.m.)
Friday 23/05/2014	<u>Elective – III (402049)</u> a) Computational Fluid Dynamics b) Finite Element Method c) Robotics d) Advanced Air Conditioning and Refrigeration
Monday 26/05/2014	<u>Elective – IV (402050)</u> a) Industrial Heat Transfer Equipments b) Management Information System c) Reliability Engineering <u>d) Open Elective</u> i) Cryogenic Engineering ii) Product Lifecycle Management iii) Industrial Automation

B.E. (MECHANICAL SANDWICH)

Time – 2.30 to 5.30 p.m.

SEMESTER – I

Day & Date	2008 Course
Tuesday 06/05/2014	Machine & Computer Aided Design (402061) *(2.30 p.m. to 6.30 p.m.)
Thursday 08/05/2014	Dynamics of Machinery (402042) (Common to Mechanical)
Saturday 10/05/2014	Industrial Hydraulics & Pneumatics (402062)
Tuesday 13/05/2014	<u>Elective – II (402063)</u> a) Refrigeration & Air Conditioning b) Computational Fluid Dynamics c) Finite Element Method
Friday 16/05/2014	<u>Elective – III(402064)</u> a) Automobile Engineering b) Operations Research c) Robotics

SEMESTER – II

Day & Date	2008 Course
Monday 19/05/2014	-----
Wednesday 21/05/2014	-----
Friday 23/05/2014	-----
Monday 26/05/2014	<u>Elective – IV (402066)</u> a) Costing & Cost Control b) Machine Tool Design c) Energy Management & Industrial Pollution

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

Day & Date	2008 Course
Tuesday 06/05/2014	PLC and SCADA Applications (403141)
Thursday 08/05/2014	Power System Operation and Control (403142)
Saturday 10/05/2014	Control System – II (403145)
Tuesday 13/05/2014	<u>Elective – I (403143)</u> a) Robotics and Automation b) Power Quality c) Illumination Engineering d) Project Management
Friday 16/05/2014	<u>Elective – II (403144)</u> a) Restructuring and Deregulation b) Embedded System c) EHV Transmission d) Smart Grid

SEMESTER – II

Day & Date	2008 Course
Monday 19/05/2014	Switchgear and Protection (403147)
Wednesday 21/05/2014	Industrial Drives and Control (403148)
Friday 23/05/2014	<u>Elective – III (403149)</u> a) VLSI Design b) High Voltage Engineering c) Digital Signal Processing d) ANN and its Applications in Electrical Engineering
Monday 26/05/2014	<u>Elective – IV (403150)</u> a) Modeling of Electrical System b) Renewable Energy System c) Digital Control System

B.E. (ELECTRONICS & TELECOMMUNICATIONS)

Time – 2.30 to 5.30 p.m.

SEMESTER – I

Day & Date	2008 Course
Tuesday 06/05/2014	Electronics Product Design (404181)
Thursday 08/05/2014	VLSI Design & Technology (404182)
Saturday 10/05/2014	Computer Network (404183)
Tuesday 13/05/2014	<u>Elective – I (404184)</u> a) Digital Image Processing b) Embedded System and RTOS c) Industrial Drives Control d) Microwave Communication and Radar
Friday 16/05/2014	<u>Elective – II -(404185)</u> a) Entrepreneurship Development b) Joint Time Frequency Analysis c) Micro-electromechanical and system on chip(MEMS and SOC) d) Mobile Communication

SEMESTER – II

Day & Date	2008 Course
Monday 19/05/2014	Telecommunication & Switching System (404187)
Wednesday 21/05/2014	Optical Fiber Communication (404188)
Friday 23/05/2014	<u>Elective – III (404189)</u> a) Soft Computing b) Speech Processing c) Television and Video Engineering d) Test and Measurement Systems
Monday 26/05/2014	<u>Elective – IV (404190)</u> a) Artificial Intelligence b) Automotive Electronics c) Nanotechnology d) PLC and Industrial Process Automation <u>Open Elective:</u> a) Advanced Satellite System & Application b) Advanced Trends in Telecommunication c) Programmable System of Chip

B.E. (ELECTRONICS)

Time – 2.30 to 5.30 p.m.

SEMESTER – I

Day & Date	2008 Course
Tuesday 06/05/2014	Electronics System Design (404201)
Thursday 08/05/2014	VLSI Design (404202)
Saturday 10/05/2014	Embedded System (404203)
Tuesday 13/05/2014	<u>Elective – I (404204)</u> a) Advanced Measurement Systems b) Advanced Power Electronics c) Biomedical Instrumentation d) Mechatronics
Friday 16/05/2014	<u>Elective – II (404205)</u> a) Advanced Computer Architecture b) Entrepreneurship and Business Planning c) SOC (System on Chip) d) Robotics and Automation

SEMESTER – II

Day & Date	2008 Course
Monday 19/05/2014	Computer Network & Security (404207)
Wednesday 21/05/2014	Process Automation (404208)
Friday 23/05/2014	<u>Elective – III (404209)</u> a) Audio and Video Engineering b) Image Processing and Machine Vision c) Optical and Microwave Communication d) Soft Computing Tools
Monday 26/05/2014	<u>Elective – IV (404210)</u> a) Advanced Communication System b) Automotive Electronic Systems c) Artificial Intelligence d) Nanotechnology in Electronics e) Open Elective:

B.E. (PRODUCTION ENGINEERING)

Time – 2.30 to 5.30 p.m.

SEMESTER – I

Day & Date	2008 Course
Tuesday 06/05/2014	Machine Tool Design (411081)
Thursday 08/05/2014	Manufacturing Automation (411082)
Saturday 10/05/2014	Operations Research (411083)
Tuesday 13/05/2014	<u>Elective – I (411084)</u> a) Plastic Engineering b) Industrial Robotics c) Powder Metallurgy d) Microprocessor Applications
Friday 16/05/2014	<u>Elective – II (411085)</u> a) Ergonomics and Human Factors in Engineering b) Material & Logistic Management c) Simulation and Modelling d) Plant Engineering and Maintenance

SEMESTER – II

Day & Date	2008 Course
Monday 19/05/2014	Computer Integrated Design and Manufacturing (411087)
Wednesday 21/05/2014	Processing Planning and Tool Selection (411088)
Friday 23/05/2014	<u>Elective – III(411089)</u> a) Automobile Engineering b) Mechatronics c) Metal Working Tribology d) Finite Element Analysis
Monday 26/05/2014	<u>Elective – IV (411090)</u> a) World Class Manufacturing b) Intelligent Manufacturing Systems c) Total Quality Management d) Open Elective

B.E. (PRODUCTION SANDWICH)

Time – 2.30 to 5.30 p.m.

SEMESTER – I

Day & Date	2008 Course
Tuesday 06/05/2014	Operations Research & Management (411121)
Thursday 08/05/2014	Mechatronics & Robotics (411122)
Saturday 10/05/2014	Advanced Production Technology (411123)
Tuesday 13/05/2014	<u>Elective – I (411124)</u> a) Machine Tool Design b) Automobile Engineering c) Computer Integrated Manufacturing and Industrial Robotics d). Plastic Engineering
Friday 16/05/2014	<u>Elective – II (411125)</u> a) Ergonomics and Human Factors in Engineering b) Materials Management & Logistics c) Financial Management & Cost Control d) Product Development

SEMESTER – II

Day & Date	2008 Course
Monday 19/05/2014	-----
Wednesday 21/05/2014	-----
Friday 23/05/2014	<u>Elective – III (411130)</u> a) Supply Chain Management b) Plant Engineering & Maintenance c) Industrial Relations & Human Resource Management d) Marketing Management
Monday 26/05/2014	-----

B.E. (INDUSTRIAL ENGINEERING)

Time – 2.30 to 5.30 p.m.

SEMESTER – I

Day & Date	2008 Course
Tuesday 06/05/2014	Financial Management & Costing (411101)
Thursday 08/05/2014	Project Management (411102)
Saturday 10/05/2014	Quantitative Techniques (411103)
Tuesday 13/05/2014	<u>Elective – I (411104)</u> a) Advanced Ergonomics b) Logistics & Warehousing Management c) Material Forming d) Human Resource Management
Friday 16/05/2014	<u>Elective – II (411105)</u> a) Industrial Laws b) World class Manufacturing c) Machine Tool Technology d) Development of Professional Skills

SEMESTER – II

Day & Date	2008 Course
Monday 19/05/2014	Reliability Engineering (411108)
Wednesday 21/05/2014	Energy Management ((411109)
Friday 23/05/2014	<u>Elective – III (411110)</u> a) IE applications in Service Sector b) Supply Chain Management c) Manufacturing Automation d) Process Planning & Manufacturing Engineering
Monday 26/05/2014	<u>Elective - IV (411111)</u> a) *** Open Elective b) Plastics Engineering c) Manufacturing Strategies d) Quality Management

B.E. (PRINTING ENGINEERING)

Time – 2.30 to 5.30 p.m.

SEMESTER – I

Day & Date	2008 Course
Tuesday 06/05/2014	Technology of Gravure (408283)
Thursday 08/05/2014	Digital Imaging and Printing (408284)
Saturday 10/05/2014	Advertising and Multimedia (408285)
Tuesday 13/05/2014	<u>Elective - I (408281)</u> a) Quality Control Techniques in Printing b) Commercial Graphic Design c) Screen Printing Techniques
Friday 16/05/2014	<u>Elective – II (408282)</u> a) Security Printing b) Newspaper Technology c) Open Elective (Self Study)

SEMESTER – II

Day & Date	2008 Course
Monday 19/05/2014	Package Design and Technology (408289)
Wednesday 21/05/2014	Print Production Planning and Control (408290)
Friday 23/05/2014	<u>Elective – III (408287)</u> a) Electronic Publishing b) Printing Machine Maintenance c) Image Conversion & Modification
Monday 26/05/2014	<u>Elective – IV (408288)</u> a) Flexible Packaging b) Entrepreneurship in Printing c) Open Elective

B.E. (INFORMATION TECHNOLOGY)

Time – 2.30 to 5.30 p.m.

SEMESTER – I

Day & Date	2008 Course
Tuesday 06/05/2014	Information Assurance and Security (414441)
Thursday 08/05/2014	Object Oriented Modeling & Design (410 443)
Saturday 10/05/2014	Software Testing and Quality Assurance (414442)
Tuesday 13/05/2014	<u>Elective – I (414443)</u> a) Advanced Database Management b) Artificial Intelligence c) Computer Design d) Advanced Operating Systems
Friday 16/05/2014	<u>Elective – II (414444)</u> a) Embedded System b) Mobile Computing c) Multimedia Systems

SEMESTER – II

Day & Date	2008 Course
Monday 19/05/2014	Distributed System (414448)
Wednesday 21/05/2014	Information Retrieval (414449)
Friday 23/05/2014	<u>Elective – III (414450)</u> a) Real Time System b) Software Architecture c) Advanced Graphics d) Advanced Computer Networks
Monday 26/05/2014	<u>Elective - IV (414451)</u> a) Bio Informatics b) Neural Network and Expert System c) Geo Informatics Systems d) Open Elective i) Business Intelligence

B.E. (COMPUTER ENGINEERING)

Time – 2.30 to 5.30 p.m.

SEMESTER – I

Day & Date	2008 Course
Tuesday 06/05/2014	Design & Analysis of Algorithms (410441)
Thursday 08/05/2014	Principles of Compiler Design (410442)
Saturday 10/05/2014	Object Oriented Modeling & Design (410 443)
Tuesday 13/05/2014	<u>Elective – I (410444)</u> a) Image Processing b) Design & Analysis of Computer Networks c) Artificial Intelligence d) Software Architecture
Friday 16/05/2014	<u>Elective – II (410445)</u> a) Multimedia Systems b) Mobile Computing c) Embedded Systems d) Software Testing & Quality Assurance

SEMESTER – II

Day & Date	2008 Course
Monday 19/05/2014	Distributed Operating Systems (410448)
Wednesday 21/05/2014	Advanced Computer Architecture (410449)
Friday 23/05/2014	<u>Elective- III (410450)</u> a) Pattern Recognition b) High Performance Networks c) Neural Networks d) Advanced Databases
Monday 26/05/2014	<u>Elective – IV (410451)</u> a) VLSI & Digital Systems Design b) Operations Research c) Cloud Computing d) Information Security e) Open Elective

B.E. (PETROCHEMICAL ENGINEERING)

Time – 2.30 to 5.30 p.m.

SEMESTER – I

Day & Date	2008 Course
Tuesday 06/05/2014	Reaction Engineering – II (412401)
Thursday 08/05/2014	Process Dynamics and Control (412402)
Saturday 10/05/2014	Environmental Engineering (412403)
Tuesday 13/05/2014	<u>Elective – I (412404)</u> a) Biochemical Engineering b) Novel Separation Processes c) Elements of Fluidization Engineering d) Green Chemistry
Friday 16/05/2014	<u>Elective – II (412405)</u> 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

SEMESTER – II

Day & Date	2008 Course
Monday 19/05/2014	Refinery Process Design (412408)
Wednesday 21/05/2014	Plant Design and Process Economics (412409)
Friday 23/05/2014	<u>Elective – III(412410)</u> a) Process Modeling and Simulation b) Fine Chemical Industries c) Colloidal and Interface Science d) Renewable Energy Sources
Monday 26/05/2014	<u>Elective – IV (412411)</u> a) Petroleum Exploration and Production Operations b) Catalyst Science and Technology c) Polymer Reaction Engineering d) Open Elective

B.E. (PETROLEUM ENGINEERING)

Time – 2.30 to 5.30 p.m.

SEMESTER – I

Day & Date	2008 Course
Tuesday 06/05/2014	Reservoir Engineering II (412381)
Thursday 08/05/2014	Petroleum Formation Evaluation (412382)
Saturday 10/05/2014	Well Engineering and Design (412383)
Tuesday 13/05/2014	<u>Elective – I (412384)</u> 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 16/05/2014	<u>Elective-II (412385)</u> a) Petroleum Refining Technology b) Petroleum Product Analysis c) Non Conventional Hydrocarbon Resources d) Carbon Management in Petroleum Industry

SEMESTER – II

Day & Date	2008 Course
Monday 19/05/2014	Improved Oil Recovery and Reservoir Simulation (412387)
Wednesday 21/05/2014	Petroleum Production Engineering – II (412388)
Friday 23/05/2014	<u>Elective – III (412389)</u> a) Advanced Drilling Engineering b) Deepwater Technology c) Transport of Oil and Gas d) Environment Technology and Safety in Petroleum Industry
Monday 26/05/2014	<u>Elective – IV (412390)</u> a) Petroleum Economics b) Petroleum Production Enhancement and Optimization c) Well Control Methods d) Open Elective

B.E. (CHEMICAL ENGINEERING)

Time – 2.30 to 5.30 p.m.

SEMESTER – I

Day & Date	2008 Course
Tuesday 06/05/2014	Process Dynamics and Control (409343)
Thursday 08/05/2014	Chemical Reaction Engineering – II (409344)
Saturday 10/05/2014	Chemical Engineering Design – II (409345)
Tuesday 13/05/2014	<u>Elective – I (409341)</u> a) Environmental Engineering b) Membrane Technology c) Bioprocess Engineering d) Corrosion Engineering
Friday 16/05/2014	<u>Elective – II (409342)</u> a) Chemical Process Synthesis b) Advanced Materials c) Polymer Technology d) Piping Design & Engineering e) Advanced Separation Processes f) Petroleum Refining

SEMESTER – II

Day & Date	2008 Course
Monday 19/05/2014	Process Modeling and Simulation (409351)
Wednesday 21/05/2014	Process Engineering Costing & Plant Design (409352)
Friday 23/05/2014	<u>Elective – III (409349)</u> a) Artificial Intelligence In Chemical Engineering b) Energy Conservation In Chemical Process Industries c) Chemical Process Safety d) Food Technology
Monday 26/05/2014	<u>Elective – IV (409350)</u> 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

B.E. (POLYMER ENGINEERING)

Time – 2.30 to 5.30 p.m.

SEMESTER – I

Day & Date	2008 Course
Tuesday 06/05/2014	Polymer Compounding (409361)
Thursday 08/05/2014	Mold & Die Design – I (409362)
Saturday 10/05/2014	Polymer Processing Operation – II (409363)
Tuesday 13/05/2014	<u>Elective – I (409364)</u> a) Fiber Technology b) Mechanics of Composites c) Polymer Reaction Engineering
Friday 16/05/2014	<u>Elective – II (409365)</u> a) Production Planning and Control b) Surface Coating and Adhesives c) Packaging Technology

SEMESTER – II

Day & Date	2008 Course
Monday 19/05/2014	Product Design & Polymer Testing (409368)
Wednesday 21/05/2014	Mold & Die Design – II (409369)
Friday 23/05/2014	<u>Elective – III (409370)</u> a) Polymer Physics and Characterization b) Processing of Composites c) Specialty Polymers & Applications
Monday 26/05/2014	<u>Elective – IV (409371)</u> a) Advanced Polymer Rheology b) Rubber Technology c) Polymer Thermodynamics and Bends d) Open Elective

B.E. (INSTRUMENTATION & CONTROL ENGINEERING)

Time – 2.30 to 5.30 p.m.

SEMESTER – I

Day & Date	2008 Course
Tuesday 06/05/2014	Process Instrumentation (406261)
Thursday 08/05/2014	Digital Control (406262)
Saturday 10/05/2014	Project Engineering and Management (406263)
Tuesday 13/05/2014	<u>Elective – I (406264)</u> a) Biomedical Instrumentation b) Laser based Instrumentation c) Advanced Control Systems d) Building Automation – I
Friday 16/05/2014	<u>Elective – II (406265)</u> a) Environmental Instrumentation b) Nano Instrumentation c) Advanced Digital Signal Processing d) Automobile Instrumentation

SEMESTER – II

Day & Date	2008 Course
Monday 19/05/2014	Process Dynamics and Control (406267)
Wednesday 21/05/2014	Industrial Automation (406268)
Friday 23/05/2014	<u>Elective – III (406269)</u> a) Advanced Biomedical Instrumentation b) Fiber Optic Instrumentation c) Process Modeling and Optimization d) Building Automation - II
Monday 26/05/2014	<u>Elective – IV (406270)</u> a) Instrumentation in Agriculture b) Micro Electro Mechanical Systems c) Digital Image Processing d) Open Elective

B.E. (BIOTECHNOLOGY)

Time – 2.30 to 5.30 p.m.

SEMESTER – I

Day & Date	2008 Course
Tuesday 06/05/2014	Bioseparation II (415463)
Thursday 08/05/2014	Instrumentation and Process Control (415464)
Saturday 10/05/2014	Bioprocess Equipment Design (415465)
Tuesday 13/05/2014	<u>Elective – I (415461)</u> a) Environmental Biotechnology b) Chemoinformatics and Structural Biology c) Bio-therapeutics Technology
Friday 16/05/2014	<u>Elective – II (415462)</u> a) Bioenergy and Renewable Resources b) Biomaterials c) Stem Cell Biology and Regenerative Medicine

SEMESTER – II

Day & Date	2008 Course
Monday 19/05/2014	Bioprocess Modeling and Simulation (415469)
Wednesday 21/05/2014	Plant Engineering & Project Costing (415470)
Friday 23/05/2014	<u>Elective – III (415467)</u> a) Food Biotechnology b) Agricultural Biotechnology c) Introduction to Systems Biology
Monday 26/05/2014	<u>Elective – IV (415468)</u> a) Management and Entrepreneurship b) IPR, Bioethics and Regulations c) Industrial Organization and Management

B.E. (AUTOMOBILE ENGINEERING)

Time: 2.30 p.m. to 5.30 p.m.

SEMESTER – I

Day & Date	Automobile Engineering (2008 Course)
Tuesday 06/05/2014	Automotive Refrigeration and Air Conditioning (416488)
Thursday 08/05/2014	Machine and Vehicle Dynamics (416489)
Saturday 10/05/2014	Automotives System Design (416490)
Tuesday 13/05/2014	<u>Elective – I</u> 1. Automotive Aerodynamics and Styling (416491A) 2. Tribology (416491B) 3. CAD-CAM and Automation (416491C) 4. Automotive NVH (416491D)
Friday 16/05/2014	<u>Elective – II</u> 1. Automotive Materials (416492A) 2. Vehicle Safety (416492B) 3. Off Road Vehicles (416492C) 4. Auxilliary Engine Systems (416492D)

SEMESTER – II

Day & Date	Automobile Engineering (2008 Course)
Monday 19/05/2014	Alternative Fuels and Emission Control (416494)
Wednesday 21/05/2014	Vehicle Performance and Testing (416495)
Friday 23/05/2014	<u>Elective – III</u> 1. Computational Fluid Dynamics (416497A) 2. Finite Element Analysis (416497B) 3. Hydraulics and Pneumatics (416497C) 4. Product Development and Costing (416497D)
Monday 26/05/2014	<u>Elective – IV</u> 1. Transport Management and Motor Industry (416498A) 2. Energy Engineering and Management (416498B) 3. Hybrid, Electric and Fuel Cell Vehicles (416498C) 4. Open Electives

11. The Practical/Oral/Project Examination will be conducted from 10.04.2014 to 29-04-2014.
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 / 162
Date: 08/03/2014

Dr.Sampada Joshi
Controller of Examinations