M.E. (2008 - Course) Examination, June, 2012

UNIVERSITY OF PUNE



Programme of the M.E. (Sem. I & II)2008 Course(All Branches) Civil, Civil(Environment Engg.), Mechanical, Mechanical (Mechatronics), Mechanical (Automotive Engg), Electrical, Electrical (Power Electronics & Drives), Electronics & Telecom., Electronics & Telecom. (Signal Processing), Electronics & Telecom. (Communication Networks), Electronics, Production Engg., Production (CAD/CAM), Computer Engg/Computer Networks, Chemical, Chemical (Environmental Engg.), Petroleum, Information Technology, Industrial Engg, Instumentation & Control (Process Instru. & Biomedical Instru.), Polymer, Printing Engg. Examination, June- 2012.

Instructions:

- 1. Candidates are required to be present at the respective place of examination fifteen minutes before the time fixed for the first Paper & ten minutes before the time of each subsequent Paper.
- 2. Candidates are forbidden from taking any material into the examination hall that can be used for malpractice at the time of examination.
- 3. Use of Non-programmable Electronic Calculator is only allowed.
- 4. No request for any Special Concession, such as change in time or any day fixed for the University examination, on religious or any other ground shall be granted.
- 5. The Centre and Place of the examination of respective branches will be as follows:

Sr. No.	Name of the Colleges	Centre / Place
1.	Govt. C.O.E, Shivajinagar, Pune-411005	D.Y. Patil College of Engineering, Pimpri,
2.	M.I.T COE, Paud Road., Pune – 38.	Pune – 18
3.	V.I.T., C.O.E. Bibvewadi, Pune-411037	(All students of Pune Centre for Civil,
4.	P.I.C.T. C.O.E. Pune – 411043	Mechanical, Computer, Computer Networks
5.	P.V.G.'s C.O.E & Tech., Pune-411009	Branches)
6.	Dr. D. Y. Patil C.O.E Akurdi, Pune 411044	
7.	Cummins C.O.E,Karvenagar,Pune 411052	
8.	AISSMS, COE Pune 411001.	
9.	Sinhgad Inst.Tech. C.O.E.Vadgaon Bk., Pune -41	P.V.G.'s College of Engineering,& Technology,
10.	R.Shahu C.O.E, Tathawade, Pune-411033	Pune-411009.
11.	P.E.S'S Society C.O.E Pune 411005	(All students of Pune Centre for All Branches
12.	M.A.E Alandi,C.O.E ., Dist: Pune	other than Civil, Mechanical, Computer,
13.	M.I.T (Women) COE, Paud Road., Pune – 38.	Computer Network Branches)
14.	SAE, C.O.E. Kondhawa (BK) Pune – 48.	
15.	D.Y. Patil I.E.T. C.O.E. Pimpri , Pune 411018	
16.	G.H. Raisoni, C.O.E Wagholi, Pune	
17.	G.S. Moze, C.O.E., Balewadi, Pune- 411045	
18.	Sinhgad Inst. Of Tech.,C.O.E. Lonavala	
19.	S.K. Navale, C.O.E.Vadgoan Bk, Pune – 41	
20.	V.P.C.O.E. MIDC, Baramati, Dist. Pune	
21.	P.C.M.C. C.O.E. Nigdi, Pune	
22.	Siddhant C.O.E Sudumbare, Pune	
23.	P.V.P. I.T.C.O.E. Bhavdhan Pune	
24.	J.S.P.M.'s Imperior C.O.E. Wagholi, Pune	
25.	G.H.Raisoni C.O.E. & Tech. Wagholi , Pune	

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Ahmednagar Center

Sr. No.	Name of the Colleges	Centre / Place
1.	Pravara Rural College of Engineering, Loni	All Branches at Pravara Rural College of
2.	College of Engineering, Kopargaon	Engineering, Loni, Tal. Rahata,
3.	Amrutvahini C.O.E, Sangamner.	Dist. Ahmednagar.
4.	Pad. Dr. V.Vikhe Patil College of Engineering, Viladghat, Ahmednagar	

Nashik Center

Sr. No.	Name of the Colleges	Centre / Place
1.	KK Wagh College of Engineering, Nashik.	
2.	SND College of Engg. Yeola, Dist.Nashik.	
3.	Matoshri Edu. Soc.'s Coll. of Engg. & Res. Center, Dist. Nashik.	
4.	Sandip Foundation Inst. of Tech. & Res. Center, Dist. Nashik.	All Branches at K.K. Wagh College of Engineering, Nashik.
5.	K. G.N. Sapkal College of Engineering,. Anjneri, Nasik	
6.	Sir Vishveshwaraiya Coll. of Engg., Chincholi, Tal. Sinner, Dist. Nashik.	

6. The Written Examination will be conducted in the following order:

ME Civil 2008 Course Sem. I Time: 2.30 p.m. to 5.30 p.m.

Day and Date	Construction Manget. 2008 Course	Geotechnical 2008 Course	Hydraulics 2008Course	Structure 2008 Course
Thursday, 07.06.2012	*Mathematics (501101)	Numerical Methods (501201)	Computational Methods in Hydraulics (501301)	*Structural Mathematics (501401)
Saturday, 09.06.2012	*Management & Project Planning in Construction (501102)	System Approach to Management & Development of Human Resources (501202)	Water Resource Planning & Management (501302)	*Advanced Soild Mechanics (501402)
Tuesday, 12.06.2012	*Construction Technology (501103)	Engineering Behavior of soils (501203)	Fluid Mechanics (501303)	*Structural Dynamics (501403)
Thursday, 14.06.2012	*Elective-I (501104) *a) New Construction Materials *b)Disaster Management *c) Repairs Rehabilitation, Retro.of Structures *d) Construction Safety	Elective-I (501204) a) Applied Soil Mechanics b) Site Investigations & Ground Improvement c) Rock Mechanics & Tunnelling d) Shallow and Deep Foundation	Elective-I (501304) a) Remote Sensing & GIS in Water Resource Engineering b) Dam Engineering c) Systems Techniques in Water Resource Engineering	*Elective-I (501404) *a) Advanced Design of concrete Structures *b) Structural Design of Concrete Bridges *c) Design of Composite Construction *d) Design of Foundations
Saturday, 16.06.2012	*Elective-II (501105) *a) Resources Management *b) TQM in Construction *c) Value Engineering *d) Project Risk Analysis & Mitigation Techniques	Elective-II (501205) a) Soil Stabilization b) Soil Structure Interaction c) Geo-environmental Engineering d) Earth Pressure & Retaining Structures	Elective-II (501305) a) Closed Conduit Flow b) Hydro Informatics & Simulation c) Hydropower	Elective-II (501405) *a) Advanced Design of Metal Structures *b)Structural Design of Steel Bridges *c)Plastic Analysis & Design of Steel Structures *d) Design of Industrial Steel Structures

^{*} Note - Papers marked are of four hours duration (between 2-30 p.m. to 6-30 p.m.)

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ME Civil 2008 Course Sem. II Time: 2.30 p.m. to 5.30 p.m.

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Day and Date	Construction Management 2008 course	Geotechnical 2008 Course	Hydraulic Engineering 2008 Course	Structure 2008 Course
Friday, 08.06.2012	*Construction Contracts Administration & Management(501108)	Finite Element Methods in Geotechnical Engineering (501208)	Open Channel Hydraulics (501308)	*Theory of Plates and Shells (501408)
Monday, 11.06.2012	*Project Economics & Financial Mgt. (501109)	Reinforce Earth and Geo-synthetics (501209)	Hydrology (501309)	*Finite Element Method (501409)
Wednesday, 13.06.2012	*Operation Research (501110)	Foundation Design and Detailing (501210)	Sediment Transport & River Mechanics (501310)	*Management in Structural Engineering (501410)
Friday, 15.06.2012	*Elective – III (501111) *a) Advanced Construction Technology *b) Infrastructure Development *c) International Contracting	Elective III (501211) a) Slope Stability & Earth Dams b) Geotechnical Earthquake Engineering c) Foundation of Offshore Structures	Elective III – (501311) a) Irrigation & Drainage b) Coastal Engineering c) Water Management & Conveyance System	*Elective – III (501411) *a) Earthquake Resistant Design of Structures *b) Structural Stability *c) Structural Reliability *d) Non-linear Analysis of Structures
Monday, 18.06.2012	*Elective IV (Open) (501112) a) Trust areas in Project Management	Elective IV (Open) (501212)	Elective IV (Open) (501312)	*Elective IV (Open) (501412) a) *Biomaterials & Bio-Mechanics b) Mechanics of Modern Materials c) Theory of Plasticity d) Optimization Techniques

^{*}Note - Papers marked are of four hours duration (between 2-30 p.m. to 6-30 p.m.)

ME Civil (Environmental Engg.)(2008 Course) Sem. I Time: 2.30 p.m. to 5.30 p.m.

Thursday,	Numerical Methods and Applied Statistics (501501)
07.06.2012	
Saturday,	
09.06.2012	Air Pollution and Control (501502)
Tuesday,	
12.06.2012	Physico- Chemical Process for Water and Waste Water Treatment (501503)
Thursday,	
14.06.2012	Elective –I(501504)
	a)Air and Water Quality Modeling
	b)Environmental Legislation and Management System
	c)Environmental Impact Assessment and Management
Saturday,	Elective – II(501505)
16.06.2012	a)Occupation Safety and Health
	b)Principles and Design of Biological Treatment System
	c)Environmental Risk Assessment and Management

ME Civil (Environmental Engg.)(2008 Course) Sem. II Time: 2.30 p.m. to 5.30 p.m.

Friday, 08.06.2012	Industrial Waste Water Management (501508)		
Monday,	Environmental Chemistry and Microbiology (501509)		
11.06.2012 Wednesday,	Solid Waste and Hazardous Waste Management (501510)		
13.06.2012	Constitution of the consti		
Friday,	Elective – III (501511)		
15.06.2012	a)Ground Water Contamination and Pollution Transport		
	b)Agricultural Pollution Control and Environmental Biotechnology		
	c)Environmental Sanitation		
Monday,	Elective-IV(501512)		
18.06.2012	Open Elective		
	a) Ground Water Contamination and Pollution Transport		
	b) Environmental Sanitation		

ME Mechanical 2008 Course Sem. I Time: 2.30 p.m. to 5.30 p.m.

Day 9	Heat Power Engineering	Design Engineering
Day &		
Date	2008 Course	2008 Course
Thursday,	Numerical Methods in Thermal &	Mathematical Modeling & Analysis (502201)
07.06.2012	Fluid Engineering (502101)	
Saturday,	Advanced Thermodynamics (502102)	Advanced Stress Analysis (502202)
09.06.2012		
Tuesday,	Technology & Financial Management (502103)	Technology & Financial Management (502203)
12.06.2012	(Common to Design & Mechatronics)	
Thursday,	Elective-I (502104)	Elective-I (502204)
14.06.2012	a) Performance Assessment of Mechanical	a) Instrumentation & Automatic Control
	Equipments	b) Advanced Material Science
	b) Refrigeration Technology	c) Optimization Techniques
	c) Energy Conservation & Management	•
	d) Convective Heat Transfer Analysis	
Saturday,	Elective-II (502105)	Elective-II (502205)
16.06.2012	a) Internal Combustion Engines	a) Material Handling Equipment Design
	b) Advanced Air Conditioning & Heating &	b) Process Equipment Design
	Ventilation	c) Robotics
	c) Conventional Power Plants	
	d) Advanced Gas Dynamics	

ME Mechanical 2008 Course Sem. II Time: 2.30 p.m. to 5.30 p.m.

	rine : 2.50 p.iii. to	3.30 p.iii.
Friday, 08.06.2012	Advanced Heat Transfer (502108)	Vibration & Noise Control (502208)
Monday, 11.06.2012	Measurement Techniques and Data Analysis (502109)	Advanced Machine Design (502209)
Wednesday, 13.06.2012	Advanced Fluid Mechanics (502110)	Analysis & Synthesis of Mechanisms (502210)
Friday,	Elective – III (502111)	Elective – III (502211)
15.06.2012	 a) Internal Combustion Engines – fuels 	a) Reliability Engineering
	b) Cryogenic Engineering	b) Engineering Fracture Mechanics
	c) Non Conventional Power Plants	c) Computer Aided Engineering
Monday,	Elective – IV (502112)	Elective – IV (502212)
18.06.2012	a)Heat Exchanger System Design and Performance	a) Vehicle dynamics
	b)Computational Fluid Dynamics	b) Industrial Tribology
	OPEN (SELF STUDY)**	c) OPEN (SELF STUDY)**
	i)Computer Aided Engineering (Design)	

ME Mechanical (Mechatronics) 2008 Course Sem. I Time: 2.30 p.m. to 5.30 p.m.

Day and	M.E. Mechanical(Mechatronics) Sem- I	
Date		
Thursday,	Applied Numerical Methods and Computational Techniques (502801)	
07.06.2012		
Saturday,	Mechanical of Electronic Measurements (502802)	
09.06.2012	·	
Tuesday,	Technology and Financial Management (502103)	
12.06.2012	(Common to Mechanical)	
Thursday,	Elective - I((502804)	
14.06.2012	a) Design of Machine Elements	
	b) Digital Signal Processing	
	c) Advanced Material Science	
Saturday,	Elective – II(502805)	
16.06.2012	a) Control Systems	
	b) Theory of Machines and Mechanisms	
	c) Instrumentation & Automatic Control	

ME Mechanical (Mechatronics) 2008 Course Sem. II Time: 2.30 p.m. to 5.30 p.m.

Friday,	Microcontrollers (502808)
08.06.2012	
Monday,	Industrial Automation (502809)
11.06.2012	
Wednesday,	Drives & Actuators (502810)
13.06.2012	
Friday,	Elective – III (502811)
15.06.2012	a) Computer Aided Design
	b) Robotics
	c) Automotive Electronics
Monday,	Elective IV (502812)
18.06.2012	a)Embedded Systems
	b)Fuzzy Logic and Neural Networks
	c) Open (Self Study)

ME Mechanical (Automotive Engineering)(2008 Course) Sem. I Time: 2.30 p.m. to 5.30 p.m.

Thursday,	Mathematical Modeling & Analysis (502201)	
07.06.2012		
Saturday,	Automotive Engine Design (502301)	
09.06.2012		
Tuesday,	Technology and Financial Management (502103)	
12.06.2012		
Thursday,	Elective – I (502302)	
14.06.2012	a) Advanced Heat Transfer	
	b)Finite Element Method	
	c)Advanced Hydraulics and Pneumatic Systems	
Saturday,	Elective – II (502303)	
16.06.2012	a)Tribology and Preventive Maintenance	
	b)Automotive Safety and Regulations	
	c)Automobile Air Conditioning	

ME Mechanical(Automotive Engineering) (2008 Course) Sem. II Time: 2.30 p.m. to 5.30 p.m.

Friday,	
08.06.2012	Automotive Fuels and Emissions (502306)
Monday,	
11.06.2012	Autoerotic (502307)
Wednesday,	
13.06.2012	Fundamentals of Vehicle Dynamics (502308)
Friday,	Elective – III (502309)
15.06.2012	a)Noise Vibrations and Harshness
	b)Automotive Materials
	c)Vehicle Aerodynamics
Monday,	Elective – IV (502310)
18.06.2012	a)Computational Fluid Dynamics
	b)Automotive Chassis Design
	c)** Open Elective (Self Study)

ME Electrical (2008 Course)Sem. I Time: 2.30 p.m. to 5.30 p.m.

Day and Date	Control System 2008 Course	Power System 2008 Course
Thursday, 07.06.2012	Advanced Mathematical Technique for Control System (503101)	Computer Applications in power Systems (503201)
Saturday, 09.06.2012	Process Control Management (503102)	Power Sector Economics, Management & Restructuring (503202)
Tuesday, 12.06.2012	Nonlinear Control System (503103)	Power System Modeling (503203)
Thursday,	Elective-I (503104)	Elective-I (503204)
14.06.2012	a) Automation & Robotics	a) Digital Signal Processing & its Applications
	b) Modeling & Dynamic System	b) Advanced Power Electronics
Saturday,	Elective-II (503105)	Elective-II (503205)
16.06.2012	a) Advanced Topics in Control Systems	a) Artificial Intelligence & its Application in
	b) Computer Aided Control Systems Design	Power System
	c) SCADA System & Applications	b) Renewable Energy Sources

ME Electrical (2008 Course) Sem. II Time: 2.30 p.m. to 5.30 p.m.

Friday, 08.06.2012	Multivariable & Optimal Control System (503108)	Power System Dynamics (503208)
Monday, 11.06.2012	System Identification & Adaptive Control (503109)	Power System Planning & Reliability (503209)
Wednesday, 13.06.2012	Advanced Digital Control Technique (503110)	High Voltage Power Transmission (503210)
Friday, 15.06.2012	Elective – III (503111) a)Robust Control Systems b)Stochhastics Dynamical Systems c)Large Scale System	Elective – III (503211) a)Digital Power System Protection b)Power Electronics Applications in Power Systems
Monday, 18.06.2012	Elective – IV (503112) a)Intelligent Control b)Advanced Drives & Control c)Open	Elective – IV (503212) a)Power Quality Assessment and Mitigation b)Partial Discharges in Electrical Power Apparatus c)Open

ME Electrical(Power Electronics & Drives) (2008 Course) Sem. I Time: 2.30 p.m. to 5.30 p.m.

Thursday, 07.06.2012	Modeling and Analysis of Electrical Machines (503301)
Saturday, 09.06.2012	Energy Management and Power Quality in Electrical Drives (503302)
Tuesday, 12.06.2012	Power Electronic Devices and Circuits (503303)
Thursday, 14.06.2012	<u>Elective – I (503304)</u>
1410012012	a) DSP and its Applications in Electrical Drives
	b) Data Acquisition and Signal Conditioningc) Digital Simulation of Power Electronic Systems
	c, Digital Simulation of Fower Electronic Systems
Saturday,	Elective – II (503305)
16.06.2012	a) FACTS and HVDCb) Harmonics and their Mitigation

ME Electrical(Power Electronics & Drives) 2008 Course Sem. II Time: 2.30 p.m. to 5.30 p.m.

Friday,	Controlled Electrical Drives (503308)
08.06.2012	
Monday,	Power Electronic Applications (503309)
11.06.2012	
Wednesday,	Design of Power Electronic Systems (503310)
13.06.2012	
Friday,	Elective – III (503311)
15.06.2012	a)Automation in Industrial Drives
	b)Computer Aided Design of Electrical Machines
	c)Microcontroller Applications
Monday,	Elective – IV (503312)
18.06.2012	a) Artificial Intelligence in Electrical Drives
	b) Special Topics in Power Electronics and Drives
	c) Open Elective

ME E & TC (2008 Course) Sem. I Time: 2.30 p.m. to 5.30 p.m.

Day and Date	Microwave 2008 Course	VLSI Embedded System 2008 Course
	2000 000.50	2000 000130
Thursday, 07.06.2012	Electromagnetics & Antenna Theory (504222)	Analog & Digital CMOS IC Design (504181)
Saturday, 09.06.2012	Principles & Practices for IT Management (504182)	Principles & Practices for IT Management (504182)
	(Common to VSLI, Electronics)	
Tuesday,	RF Wave & Microwave Circuit Design (504223)	Embedded System Design (504183)
12.06.2012		
Thursday,	Elective-I (504224)	Elective-I (504184)
14.06.2012	a) Applications of Microwaves to Radar & Satellite	a) ASIC Design & Modeling
	b) Digital Image processing & Analysis	b) Nanotechnology
	c) Communication Networks	c) Machine Intelligence
Saturday,	Elective-II (504225)	Elective-II (504185)
16.06.2012	a) Smart Antennas	a) Reconfigurable Computing
	b) Speech Processing & Application	b) Memory Technologies
	c) Semiconductor Device Modeling &	c) VLSI EDA Tools
	Technology	

ME E & TC(2008 Course) Sem. II Time: 2.30 p.m. to 5.30 p.m.

Day and	Microwave	VLSI Embedded System
Date	2008 Course	2008 Course
Friday,	Microwave Integrated Circuits (504228)	Real Time Operating Systems (504188)
08.06.2012	G: 1D : C W. 1	F 1 11 19' 1P (704100)
Monday,	Signal Processing for Wireless	Embedded Signal Processing (504189)
11.06.2012	Communication (504229)	
Wednesday,	Mobile Communication – GSM and CDMA	RF IC Design (504190)
13.06.2012	(504230)	
Friday,	Elective – III (504231)	Elective – III (504191)
15.06.2012	a)Fiber Optic Communication	a)Fault Tolerant System Design
	b)System Design	b)Biomedical Signals and Systems
	c)EMI and EMC Techniques	c)Advanced Digital System Design
Monday,	Elective - IV (Open) (504232)	Elective IV – (Open) (504192)
18.06.2012	Any one subject of Elective IV from the	a) Embedded Automotive Systems
	following Branches	b) System – on Chip (SoC)
	a)Electronics Engineering	c) Software Defined Radio
	b)Computer Engineering	d) High Performance Computer Network
	c)Information Technology	(Comm. to I.T.)
	Open Elective	
	i))Software Project Management	
	ii) Digital Signal Compression	

ME Electronics & Telecommunication (Signal Processing)(2008 Course)Sem. I Time: 2.30 p.m. to 5.30 p.m.

Day and Date	Electronics & Telecommunication (Signal Processing)(2008 Course) Sem. I
Thursday, 07.06.2012	Liner Algebra & Random Processes (504501)
Saturday, 09.06.2012	Principles & Practices for I.T. Management (504182) (Common to E.& TC, V.L.S.I. & Electronic)
Tuesday, 12.06.2012	Signal Processing Techniques (504502)
Thursday, 14.06.2012	Elective-I (504503) a) Digital Image Processing b) Automotive Electronics c) Artificial Intelligence
Saturday, 16.06.2012	Elective-II (504504) a) Bio-Medical Signal Processing b) Wireless & Mobile Communication c) Smart Antennas

ME Electronics & Telecommunication (Signal Processing) (2008 Course)Sem. II Time: 2.30 p.m. to 5.30 p.m.

Friday, 08.06.2012	Statistical Signal Processing (504507)
Monday, 11.06.2012	Advanced Digital Signal Processing (504508)
Wednesday, 13.06.2012	VLSI in Signal Processing (504509)
Friday, 15.06.2012	Elective – III: (504510) a)Acoustic & Speech Processing b)Digital Signal Compression c)Multimedia Techniques
Monday, 18.06.2012	Elective – IV (504511) a)Radar & Satellite Signal Processing b)Operating Systems & Open Source Systems c)Computer Vision

ME Electronics (2008 Course) Sem. I Time: 2.30 p.m. to 5.30 p.m.

Day and Date	Digital System
Date	2008 Course
Thursday, 07.06.2012	Microelectronics (504195)
Saturday, 09.06.2012	Principles & Practices for IT Management (504182)
Tuesday, 12.06.2012	Signal Processing Architectures (504196)
Thursday, 14.06.2012	Elective-I (504197) a) Fault Tolerant System Design b) Advanced Digital System Design c) Wireless & Mobile Technologies
Saturday,	Elective-II (504198)
16.06.2012	a) Machine Intelligence b) Advanced Computing Architectures
	c) Memory Technologies

ME Electronics(2008 Course) Sem. II Time: 2.30 p.m. to 5.30 p.m.

Friday, 08.06.2012	Embedded Systems (504201)
Monday, 11.06.2012	Communication Network and Security (504202)
Wednesday, 13.06.2012	Image Processing and Pattern Recognition (504203)
Friday, 15.06.2012	Elective – III (504204) a) Digital Systems using PLDs b) Biomedical Signals and Systems c) Embedded Video processing
Monday, 18.06.2012	Elective – IV (OPEN) (504205) a) Reconfigurable Computing b) Embedded Automotive Systems c) Digital Signal Compression

ME E & TC (Communication Networks)(2008 Course)Sem. I Time: 2.30 p.m. to 5.30 p.m.

Thursday,	Coding & Modulation Techniques (504601)
07.06.2012	
Saturday,	Principles & Practices of IT Management (504182)
09.06.2012	
Tuesday,	Modeling & Simulation of Communication Network (504602)
12.06.2012	
Thursday,	Elective – I (504603)
14.06.2012	a)Microwave and Antenna Theory
	b)Signal Detection and Estimation
	c) Ad-hoc Networks
Saturday,	Elective – II(504604)
16.06.2012	a) RF MRMs
	b)Network Architecture & Design
	c)Computational Electromagnetics

ME E & TC (Communication Networks) (2008 Course) Sem. II Time: 2.30 p.m. to 5.30 p.m.

Friday,	Wired and Wireless Networks (504607)
08.06.2012	
Monday,	
11.06.2012	Network Traffic Analysis and Qos (504608)
Wednesday,	Wireless System Design (504609)
13.06.2012	
Friday,	Elective – III ((504610)
15.06.2012	a)Wireless Sensor Networks
	b)Mobile Computing
	c)Network Security
Monday,	Elective – IV (504611)
18.06.2012	a)Software Radio
	b)Neural Networks in Communication
	c)Hardware Platforms for Networking Applications

ME Production Engineering (2008 Course) Sem. I Time: 2.30 p.m. to 5.30 p.m.

Day and	Production Engineering
Date	
Thursday,	Mathematics and Statistics (511101)
07.06.2012	
Saturday,	CAD/CAM/CIM (511102)
09.06.2012	
Tuesday,	Advanced Manufacturing Processes (511103)
12.06.2012	
Thursday,	Elective-I (511104)
14.06.2012	a) Advanced Mechatronics
	b) Reliability & Failure Analysis
	c) Supply Chain Management
	d) Advanced Machine Tool Design
Saturday,	Elective-II (511105)
16.06.2012	a) Advance Robotics
	b) Sheet Metal Processing
	c) Tool and Die Design
	d) Engineering Economics & Accounting

ME Production Engineering (2008 Course)Sem. II Time: 2.30 p.m. to 5.30 p.m.

Friday,	Material Technology (511108)
08.06.2012	
Monday,	Manufacturing Management (511109)
11.06.2012	
Wednesday,	Industrial Automation (511110)
13.06.2012	
Friday,	Elective – III (511111)
15.06.2012	a) Plastics Processing
	b) Product Life Cycle Management
	c) Welding & Joining
	d) Surface Treatment processes
Monday,	Elective – IV (Open) (511112)
18.06.2012	a) Optimization Techniques
	b) Research Methodologies
	c) Intellectual Property Rights & Product Design
	d) Energy management

ME Production (CAD/CAM) (2008 Course) Sem. I Time: 2.30 p.m. to 5.30 p.m.

Thursday, 07.06.2012	Computer Aided Design (511201)
Saturday, 09.06.2012	Computer Aided Manufacturing (511202)
Tuesday, 12.06.2012	Optimization Techniques (511203)
Thursday, 14.06.2012	Elective I (511204) a)Advanced Stress Analysis b)Tribology & Surface Engineering c)Industrial Robotics & Artificial Intelligence d)Concurrent Product Design
Saturday, 16.06.2012	Elective – II (511205) a)Mechatronics b)Rapid Prototyping c)Energy Management d)CAD/CAM/CAE Software Development

ME Production (CAD/CAM) (2008 Course)Sem. II Time: 2.30 p.m. to 5.30 p.m.

Friday, 08.06.2012	Computer Integrated Manufacturing (511208)
Monday,	Finite Element Analysis (511209)
11.06.2012 Wednesday, 13.06.2012	Advanced Mathematics (511210)
Friday, 15.06.2012	Elective –III: (511211) a)Product Life Cycle Management b)Advanced Materials and Processing c)Manufacturing System Design
	d)Quality & Reliability Engineering
Monday, 18.06.2012	Elective – IV :(511212) a)Computer Aided Process Planning b)Technology Management c)Design of Experiments & Research Methodology d)Computational Fluid Dynamics

ME Computer Engineering / Computer Networks (2008 Course) Sem. I Time: 2.30 p.m. to 5.30 p.m.

Day and Date	Computer Engineering 2008 Course	Computer Networks 2008 Course
Thursday, 07.06.2012	Applied Algorithms (510101) (Common to Network Engineering)	NETWORK ENGINEERING Applied Algorithms (510301)
Saturday, 09.06.2012	Emerging Trends in Computer Architecture (510102) (Common to Network Engineering)	Emerging Trends in Computer Architecture (510302)
Tuesday, 12.06.2012	Principles & Practices for IT Management (510103) (Common to Network Engineering)	Principles & Practices for IT Management (510303)
Thursday, 14.06.2012	Elective-I (510104) a)Advance Software Engineering b) Intelligent Systems c) Internet Routing Design d) Mobile computing	Elective – I (510304) a)Internet Routing Design b)Advanced TCP / IP
Saturday, 16.06.2012	Elective-II (510105) a) Information & Network Security b) Advanced compilers c) Web Services and SOA d) Embedded System Design	Elective - II(510305) a)Wireless Technology b)Information Security Audit & Management

ME Computer Engineering / Computer Networks 2008 Course Sem. II Time: 2.30 p.m. to 5.30 p.m.

Friday, 08.06.2012	Distributed System (510108)	Operating System Design (510308)
Monday, 11.06.2012	High Performance Database System (510109)	High Performance Database Systems (510309)
	(Common to Network Engineering)	
Wednesday, 13.06.2012	Network Design, Modeling and Analysis (510110)	Advanced Software Engineering (510310)
Friday, 15.06.2012	Elective – III (510111) a)Software Design and Architecture b)Pattern Recognition and Machine Vision c)Network Programming d)Advanced Internet Programming	Elective – III (510311) a)Network Programming b)Network Design, Modeling and Analysis
Monday, 18.06.2012	Elective – IV (510112) a)Software Project Management b)Infrastructure Management c)Data Warehousing and Data Mining d)Open Elective (Self Study)	Elective – IV (510312) a) Infrastructure Management b) Convergence Technology c) Open Elective (Self Study)**

ME Chemical (2008 Course) Sem. I Time: 2.30 p.m. to 5.30 p.m.

Day and	Chemical Engineering
Date	2008 Course
Thursday, 07.06.2012	Applied Statistics for Chemical Engineers (509101)
Saturday, 09.06.2012	Management of R & D in Chemical Industries (509102)
Tuesday, 12.06.2012	Advanced Separation Processes (509103)
Thursday,	Elective-I (509104)
14.06.2012	
	b) Process Design & Synthesis
	c) Advanced Thermodynamics
	d) Computer Aided Design
Saturday,	Elective-II (509105)
16.06.2012	a) Industrial Pollution Control
	b) Process Optimization
	c) Drugs & Pharmaceutical Engineering
	d) Fluidization Engineering

ME Chemical (2008 Course) Sem. II Time: 2.30 p.m. to 5.30 p.m.

Friday, 08.06.2012	Process Modeling and Simulation (509108)
Monday, 11.06.2012	Advanced Transport Phenomena (509109)
Wednesday, 13.06.2012	Advanced Process Control (509110)
Friday, 15.06.2012	Elective – III (509111) a) Catalysis and Surface Phenomenon b) Advanced Reaction Engineering c) Mathematical Methods in Chemical Engineering d) Bioprocess Engineering
Monday, 18.06.2012	Elective – IV OPEN (509112) a)Catalysis and Surface Phenomenon b)Process Optimization c)Fuel Cells Technology

ME Chemical (Environmental Engg.)(2008 Course) Sem. I Time: 2.30 p.m. to 5.30 p.m.

Day and Date	Chemical Environmental Engg. 2008 Course
Thursday, 07.06.2012	Applied Statistics for Environmental Engineers (509131)
Saturday, 09.06.2012	Environmental Geosciences (509132)
Tuesday, 12.06.2012	Environmental Chemistry (509133)
Thursday,	Elective-I (509134)
14.06.2012	a) Modeling of Environmental Systems
	b) Groundwater Contamination and Pollution Transport.
	c) Environmental Policies and Legislations
	d) Air and Noise Pollution Control
Saturday,	Elective-II (509135)
16.06.2012	a) Membrane Technology in Environmental Engineering
	b) Environmental Auditing and EMS
	c) Agricultural Pollution and control
	d) Environmental Impact Assessment and Economics

ME Chemical(Environmental Engg.) (2008 Course) Sem. II Time: 2.30 p.m. to 5.30 p.m.

Friday, 08.06.2012	Wastewater Treatment & Design (509138)
Monday, 11.06.2012	Solid Waste Management (509139)
Wednesday, 13.06.2012	Industrial Waste Treatment (509140)
Friday,	Elective III (509141)
15.06.2012	a)Ecology and Risk Assessment
	b)Water Quality Modeling
	c)Modern Trends in Environmental Engineering
	d)Environmental Biotechnology
Monday,	Elective IV (OPEN) (509142)
18.06.2012	Ground Water Contamination & Pollution Control

M.E.(Petroleum Engineering)(2008 Course)Sem. I Time: 2.30 p.m. to 5.30 p.m.

Day and	Petroleum Engineering
Date	
Thursday,	Numerical Methods & Simulation in Petroleum Engineering (512101)
07.06.2012	
Saturday,	Petroleum Reservoir Management (512102)
09.06.2012	
Tuesday,	Horizontal Multilateral & Intelligent Wells (512103)
12.06.2012	
Thursday,	Elective-I (512104)
14.06.2012	a) Advanced Geological Methods in Petroleum Exploration & Development
	b) Reservoir Petro-physics
	c) Oil & Gas Field Development
	d) Petroleum Business Strategies & Risk Analysis
Saturday,	Elective-II (512105)
16.06.2012	a) Modern Completion Technology
	b) Well Design & Engineering
	c) Well Testing & Analysis
	d) Well control

ME(Petroleum Engineering)(2008 Course) Sem.II Time: 2.30 p.m. to 5.30 p.m.

Friday, 08.06.2012	GIS and Computer Applications in Petroleum Industry (512108)
Monday, 11.06.2012	Environmental Management Technology and Safety Measures (512109)
Wednesday, 13.06.2012	Advanced Natural Gas Engineering (512110)
Friday, 15.06.2012	Elective – III (512111) a)Artificial Lift Techniques b)Advanced Stimulation Techniques c)Piping Design and Engineering
Monday, 18.06.2012	Elective – IV OPEN (512112) a)Technology of Coal Bed Methane b)Unconventional Hydrocarbon Resources and Development Strategies c)Advanced offshore Technology d)Open elective, can be taken from any branch of elective

ME Information Technology (2008 Course)Sem. I Time: 2.30 p.m. to 5.30 p.m.

Day and Date	Information Technology
Thursday, 07.06.2012	Applied Algorithms (514421)
Saturday, 09.06.2012	Software Engineering Methodologies (514402)
Tuesday, 12.06.2012	Advance Operating Systems (514403)
Thursday,	Elective-I (514422)
14.06.2012	a) Software Architecture(514404)(A)
	b) Real Time & Embedded System (514404)(B)
	c) Bioinformatics (514422)(C)
Saturday,	Elective-II (514423)
16.06.2012	a) Information Assurance & Security (514405)(A)
	b) Network Programming (514422)(B)
	c) Geographical Information Systems (514405)(C)

M.E. Information Technology(2008 Course) Sem. II Time: 2.30 p.m. to 5.30 p.m.

Friday, 08.06.2012	Net centric Computing (514426)
Monday, 11.06.2012	Advance Trends in Database Systems (514409)
Wednesday, 13.06.2012	Management Trends in Information Technology (514427)
Friday,	Elective – III (514428)
15.06.2012	a) Internet and Web Technologies (514411)(A)
	b) Advanced Topics in Operating Systems (514411)(B)
	c) Mobile Computing and M Commerce (514411)(C)
	d) User Interface Design (514428) (D)
Monday,	Elective – IV (514439)
18.06.2012	a) Internet Routing Design (514428)(A)
	b) Advance Network Programming (514412)(B)
	c) High Performance Computer Networks (514412)(C)
	Open Elective II (Self Study)**
	i)Service Oriented Architecture (514429)(D)

M.E Industrial Engineering (2008 Course) Sem. I Time: 2.30 p.m. to 5.30 p.m.

Day and Date	Industrial Engineering
Thursday, 07.06.2012	Economics (511201)
Saturday, 09.06.2012	Work Study & Ergonomics (511202)
Tuesday, 12.06.2012	Optimization Techniques & Simulation Modeling (511203)
Thursday,	Elective-I (511204)
14.06.2012	
	b) Human Resource Management
	c) Entrepreneurship Development
	d) World Class Manufacturing
Saturday,	Elective-II (511205)
16.06.2012	a) Facilities planning
	b) Network & Project Management
	c) Enterprise Resource Planning & Supply Chain Management
	d) System Engineering

ME Industrial Engineering(2008 Course) Sem. II Time: 2.30 p.m. to 5.30 p.m.

Friday, 08.06.2012	Reliability Engineering & Research Methodology (511208)
Monday, 11.06.2012	Costing & Finance (511209)
Wednesday, 13.06.2012	Productivity Management (511210)
Friday,	Elective – III (511211) (a)Human Factors Engineering
15.06.2012	b)Process Planning & Manufacturing Engineering'
	c)Management of Service Sector
	d)Industrial & Commercial law
Monday,	Elective IV – OPEN (511212)
18.06.2012	a)Organizational Behavior
	b)Operations Management
	c)Product Design & Intellectual Property Rights
	d) Environmental Engineering & Energy Management.

Instrumentation & Control (Process Instru. Biomedical Instru.)(2008 Course) Sem. I Time: 2.30 p.m. to 5.30 p.m.

Day and Date	Instrumentation & Control (Process Instru. Biomedical Instru.) 2008 Course Sem —I
Thursday, 07.06.2012	Transducer Design (5061101)
Saturday, 09.06.2012	Mathematical Methods in Instrumentation (5061102)
Tuesday, 12.06.2012	Communication Protocols for Instrumentation (5061103)
Thursday, 14.06.2012	Analytical Instrumentation (5061104)
Saturday, 16.06.2012	Elective: I (5061105) a)Industrial Automation (5061105) b)Building Automation (5061105) c)Geotechnical Instrumentation (5061201) a)Fundamentals of Biomedical Instrumentation(5061201) b)Introduction to Physiology and Anatomy (5061201)

ME Instrumentation & Control (Process Instru. Biomedical Instru.) 2008 Course Sem. II Time: 2.30 p.m. to 5.30 p.m.

Friday, 08.06.2012	Control System Design (5061108)
Monday, 11.06.2012	Advanced Signal Processing (5061109)
Wednesday, 13.06.2012	Organisational Behaviour & Management (5061110)
Friday, 15.06.2012	Elective: II (5061111) a) Modern Control Theory ((5061111) b) Mechatronics (5061111) c) Robotics (5061111) d) Advance Process Instrumentation Biomedical Instrumentation(5061204) a) Biosignal Processing (5061204)
Monday, 18.06.2012	b)Rehabilitation Engineering (5061204) Elective: III (5061112) a)Advanced Process Instrumentation (5061112) b) Automobile Instrumentation (5061112) c)Open Elective Biomedical Instrumentation*(5061205) a)Bio-imaging Modality (5061205) b)Biophotonics (5061205)
	c) Open Elective

ME Polymer(2008 Course) Sem. I Time: 2.30 p.m. to 5.30 p.m.

Day and Date	Polymer 2008 Course Sem. I
Thursday, 07.06.2012	Mathematical and Statistical Methods (509115)
Saturday, 09.06.2012	Principles of Management (509116)
Tuesday, 12.06.2012	Polymer Processing and Testing (509117)
Thursday, 14.06.2012	Elective I : (509118) a) Polymer Reaction Engineering b) Transport Phenomena in Polymers c) Synthesis and Chemistry of Polymers
Saturday, 16.06.2012	Elective II: (509119) a)Polymer Rheology b)Mold and Die Design c)Packaging Technology

ME Polymer (2008 Course) Sem. II Time: 2.30 p.m. to 5.30 p.m.

Day and Date	Polymer 2008 Course Sem. II
Friday, 08.06.2012	Polymer Physics and Characterization (509122)
Monday, 11.06.2012	Polymer Structure and Properties (509123)
Wednesday, 13.06.2012	Processing and Mechanics of Composites (509124)
Friday, 15.06.2012	Elective – III: (509125) a) Science and Engineering of Fibers b) Polymer Product Design c) Specialty Polymer Materials
Monday, 18.06.2012	Elective - IV: (509126) (Open) a) Paints and Adhesives Elective IV b) Elastomer Technology c) Open

ME Printing (2008 Course) Sem. I Time: 2.30 p.m. to 5.30 p.m.

Day and Date	Printing 2008 Course Sem. I
Thursday, 07.06.2012	Probability, Statistics & Queueing Theory (508101)
Saturday, 09.06.2012	Printing Technology Management (508102)
Tuesday, 12.06.2012	Modern Trends in Printing (508103)
Thursday,	Elective-I (508104)
14.06.2012	
	b) Printing & Packaging Materials
	c) Design of Experiments & Research Methodology
Saturday,	Elective-II (508105)
16.06.2012	a) Digital Printing
	b) Entrepreneurship in Printing & Allied Fields
	c) Quality Control Systems & Productivity

ME Printing (2008 Course) Sem. II Time: 2.30 p.m. to 5.30 p.m.

Day and Date	Printing 2008 Course Sem. II
Friday, 08.06.2012	Print Media Communications (508108)
Monday, 11.06.2012	Web Handling on Press (508109)
Wednesday, 13.06.2012	Substrate and Ink (508110)
Friday, 15.06.2012	Elective – III: (508111) a) Multimedia Systems and Communication b)Total Productive Maintenance in Printing c) Press Finger Printing
Monday, 18.06.2012	Elective – IV (508112) a)Open Elective (Self study) b)Advances in Converting and Packaging c)Analysis of Spot and Process inks

University of Pune Ganeshkhind, Pune-411007 Ref. No. XCT / 652

Date: 21.05.2012

Dr. Sampda P. Joshi Controller of Examinaions