SAVITRIBAI PHULE UNIVERSITY OF PUNE



EXAMINATION CIRCULAR No. 171 of 2014

Revised Programme of M.E. 2008, 2012 Pattern & 2013 Credit Pattern (All Branches) Examination Dec.2014

As on 14/10/2014

Instructions to the 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 paper setting, Conduct of Examination and paper assessment for End-semester examination for the subject Elective I & Elective II & Elective III (M.E. 2013 Credit Pattern) shall be done by the respective colleges as per the schedule of University
- 11. The Written Examination will be conducted in the following order: (Attached)

M.E. (Civil) (Construction Management) (2008 Pattern & 2013 Credit Pattern) (Sem. I)

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

Day & Date	2008 Pattern (Sem. I)	2013 (Credit Pattern) (Sem. I)
Friday,	*Mathematics (501101)	Applications of Statistical Methods in
12/12/2014		Construction (501021)
Tuesday,	*Management & Project Planning in Construction	Management and Project Planning in
16/12/2014	(501102)	Construction (501022)
Friday,	*Construction Technology (501103)	Construction Technology (501023)
19/12/2014		
Tuesday,	*Elective-I (501104)	Research Methodology Treatment (501004)
23/12/2014	*a) New Construction Materials	
	*b) Disaster Management	
	*c) Repairs Rehabilitation, Retro. of Structures	
	*d) Construction Safety	
Friday,	*Elective-II (501105)	Elective – I (501024)
26/12/2014	*a) Resources Management	
	*b) TQM in Construction	
	*c) Value Engineering	
	*d) Project Risk Analysis & Mitigation Techniques	

M.E. (Civil) (Construction Management) (2008 Pattern & 2013 Credit Pattern) (Sem. II)

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

Day & Date	2008 Pattern (Sem. II)	2013 (Credit Pattern) (Sem. II)
Saturday, 13/12/2014	*Construction Contracts Administration & Management (501108)	Construction Contracts Administration and Management (501026)
Wednesday, 17/12/2014	*Project Economics & Financial Mgt. (501109)	Project Economics and Financial Management (501027)
Saturday, 20/12/2014	*Operation Research (501110)	Operation Research (501028)
Wednesday, 24/12/2014	*Elective – III (501111) *a) Advanced Construction Technology *b) Infrastructure Development *c) International Contracting	Elective – II (501029)
Saturday,	*Elective IV (Open) (501112)	
27/12/2014	a) Trust areas in Project Management	

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

M.E. (Civil) (Construction Management) (2013 Credit Pattern) (Sem. III)

Day & Date	2013 Credit Pattern (Sem. III)	
Monday, 15/12/2014	Environment and Energy for Sustainable Construction (501113)	
Thursday,	TQM in Construction (501114)	
18/12/2014		
Monday,	Elective – III (501115)	
22/12/2014		

M.E. (Civil) (Geotechnical Engineering) (2008 Pattern & 2013 Credit Pattern) (Sem. I)

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

Day & Date	2008 Pattern (Sem. I)	2013 (Credit Pattern) (Sem. I)
Friday,	Mathematics (501201)	Advance Soil Mechanics (501121)
12/12/2014		
Tuesday, 16/12/2014	System Approach to Management & Development of Human Resources (501202)	Ground Improvement Techniques (501122)
Friday, 19/12/2014	Engineering Behavior of soils (501203)	Rock Mechanics (501123)
Tuesday,	Elective-I (501204)	Research Methodology (501004)
23/12/2014	a) Applied Soil Mechanics	
	b) Site Investigations & Ground Improvement	
	c) Rock Mechanics & Tunneling	
	d) Shallow and Deep Foundation	
Friday,	Elective-II (501205)	Elective – I (501124)
26/12/2014	a) Soil Stabilization	
	b) Soil Structure Interaction	
	c) Geo-environmental Engineering	
	d) Earth Pressure & Retaining Structures	

M.E. (Civil) (Geotechnical Engineering) (2008 Pattern & 2013 Credit Pattern) (Sem. II)

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

Day & Date	2008 Pattern (Sem. II)	2013 (Credit Pattern) (Sem. II)
Saturday, 13/12/2014	Finite Element Methods in Geotechnical Engineering (501208)	Advance Foundation Engineering (501126)
Wednesday, 17/12/2014	Reinforce Earth and Geo-synthetics (501209)	Construction Methods in Geotechnical (501127)
Saturday, 20/12/2014	Foundation Design and Detailing (501210)	Stability of Slopes and Earth Dam (501128)
Wednesday, 24/12/2014	Elective III (501211) a) Slope Stability & Earth Dams b) Geotechnical Earthquake Engineering c) Foundation of Offshore Structures d) Geosynthestics	Elective – II (501129)
Saturday, 27/12/2014	Elective IV (Open) (501212)	

M.E. (Civil) (Geotechnical Engineering) (2013 Credit Pattern) (Sem. III)

Day & Date	2013 Credit Pattern (Sem. III)
Monday,	Geotechnical Earthquake Engineering (601132)
15/12/2014	
Thursday,	Geoenvironmental Engineering (601133)
18/12/2014	
Monday,	Elective – III (601134)
22/12/2014	

M.E. (Civil) (Hydraulics Engineering) (2008 Pattern & 2013 Credit Pattern) (Sem. I)

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

Day & Date	2008 Pattern (Sem. I)	2013 (Credit Pattern) (Sem. I)
Friday, 12/12/2014	Computational Methods in Hydraulics (501301)	Fluid Mechanics (501041)
Tuesday, 16/12/2014	Water Resource Planning & Management (501302)	Irrigation and Drainage (501042)
Friday, 19/12/2014	Fluid Mechanics (501303)	Planning and Management of Water Resources (501043)
Tuesday, 23/12/2014	Elective-I (501304) a) Remote Sensing & GIS in Water Resource Engineering b) Dam Engineering c) Systems Techniques in Water Resource Engineering	Research Methodology (501004)
Friday, 26/12/2014	Elective-II (501305) a) Closed Conduit Flow b) Hydro Informatics & Simulation c) Hydropower	Elective – I (501044)

M.E. (Civil) (Hydraulics Engineering) (2008 Pattern & 2013 Credit Pattern) (Sem. II)

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

Day & Date	2008 Pattern (Sem. II)	2013 (Credit Pattern) (Sem. II)
Saturday, 13/12/2014	Open Channel Hydraulics (501308)	Open Channel Hydraulics (501046)
Wednesday, 17/12/2014	Hydrology (501309)	Sediment Transport and River Mechanics (501047)
Saturday, 20/12/2014	Sediment Transport & River Mechanics (501310)	Hydrology (501048)
Wednesday, 24/12/2014	Elective III (501311) a) Irrigation & Drainage b) Coastal Engineering c) Water Management & Conveyance System	Elective II (501049)
Saturday, 27/12/2014	Elective IV (Open) (501312)	

M.E. (Civil) (Hydraulics Engineering) (2013 Credit Pattern) (Sem. III)

Day & Date	2013 Credit Pattern (Sem. III)
Monday,	Dam Engineering
15/12/2014	
Thursday,	Optimization Techniques
18/12/2014	
Monday,	Elective – III
22/12/2014	

M.E. (Civil) (Structure) (2008 Pattern & 2013 Credit Pattern) (Sem. I)

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

Day & Date	2008 Pattern (Sem. I)	2013 (Credit Pattern) (Sem. I)
Friday, 12/12/2014	*Structural Mathematics (501401)	Advanced Mechanics of Solids (501401)
Tuesday, 16/12/2014	*Advanced Soild Mechanics (501402)	Structural Dynamics (501402)
Friday, 19/12/2014	*Structural Dynamics (501403)	Advanced Design of Steel Structures (501403)
Tuesday, 23/12/2014	*Elective-I (501404) *a) Advanced Design of concrete Structures *b) Structural Design of Concrete Bridges *c) Design of Composite Construction *d) Design of Foundations	Research Methodology Treatment (501004)
Friday, 26/12/2014	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	Elective – I (501405)

M.E. (Civil) (Structure) (2008 Pattern & 2013 Credit Pattern) (Sem. II)

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

Day & Date	2008 Pattern (Sem. II)	2013 (Credit Pattern) (Sem. II)
Saturday, 13/12/2014	*Theory of Plates and Shells (501408)	Finite Element Analysis (501407)
Wednesday, 17/12/2014	*Finite Element Method (501409)	Theory of Plates and Shells (501408)
Saturday, 20/12/2014	*Management in Structural Engineering (501410)	Advanced Design of Concrete Structures (501409)
Wednesday,	* <u>Elective – III (501411)</u>	Elective – II (501410)
24/12/2014	*a) Earthquake Resistant Design of Structures	
	*b) Structural Stability	
	*c) Structural Reliability	
	*d) Non-linear Analysis of Structures	
Saturday,	*Elective IV (Open) (501412)	
27/12/2014	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.)

M.E. (Civil) (Structure) (2013 Credit Pattern) (Sem. III)

Day & Date	2013 Credit Pattern (Sem. III)	
Monday,	Earthquake Engineering and Disaster Management (5014013)	
15/12/2014		
Thursday,	Design of RCC & Pr.CC Bridges (5014014)	
18/12/2014		
Monday,	Elective – III (5014015)	
22/12/2014		

M.E. (Civil) (Environmental Engineering) (2008 Pattern & 2013 Credit Pattern) (Sem. I)

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

Day & Date	2008 Pattern (Sem. I)	2013 (Credit Pattern) (Sem. I)
Friday,	Numerical Methods and Applied Statistics (501501)	Environmental Legislation & Management
12/12/2014		Systems (501061)
Tuesday,	Air Pollution and Control (501502)	Environmental Chemistry & Micro-Biology
16/12/2014		(501062)
Friday,	Physico- Chemical Process for Water and Waste	Physico-Chemical Process for Water and Waste
19/12/2014	Water Treatment (501503)	Water Treatment (501063)
Tuesday,	Elective -I(501504)	Research Methodology (501004)
23/12/2014	a) Air and Water Quality Modeling	
	b) Environmental Legislation and Management	
	System	
	c) Environmental Impact Assessment and	
	Management	
Friday,	Elective – II(501505)	Elective – I (501064)
26/12/2014	a) Occupation Safety and Health	
	b) Principles and Design of Biological Treatment	
	System	
	c) Environmental Risk Assessment and Management	

M.E. (Civil) (Environmental Engineering) (2008 Pattern & 2013 Credit Pattern) (Sem. II)

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

Day & Date	2008 Pattern (Sem. II)	2013 (Credit Pattern) (Sem. II)
Saturday,	Industrial Waste Water Management (501508)	Industrial Waste Water Management (501066)
13/12/2014		
Wednesday,	Environmental Chemistry and Microbiology (501509)	Air Pollution and Control (501067)
17/12/2014		
Saturday,	Solid Waste and Hazardous Waste Management	Solid Waste and Hazardous Waste Management
20/12/2014	(501510)	(501068)
Wednesday,	Elective – III (501511)	Elective – II (501069)
24/12/2014	a) Ground Water Contamination and Pollution	
	Transport	
	b) Agricultural Pollution Control and Environmental	
	Biotechnology	
	c) Environmental Sanitation	
Saturday,	Elective-IV(501512)	
27/12/2014	Open Elective	
-	a) Ground Water Contamination and Pollution	
	Transport	
	b) Environmental Sanitation	

M.E. (Civil) (Environmental Engineering) (2013 Credit Pattern) (Sem. III)

Day & Date	2013 Credit Pattern (Sem. III)
Monday,	Environmental Sanitation
15/12/2014	
Thursday,	EIA
18/12/2014	
Monday,	Open Elective
22/12/2014	

M.E. (Civil) (Water Resources & Environmental Engineering) (2012 Pattern & 2013 Credit Pattern) (Sem. I)

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

Day & Date	2012 Pattern (Sem. I)	2013 (Credit Pattern) (Sem. I)
Friday,	Environmental Chemistry & Microbiology (501601)	Planning and Management of Water Resources
12/12/2014		(501081)
Tuesday,	Environmental Management (501602)	Environmental Chemistry and Microbiology
16/12/2014		(501082)
Friday,	Advance Fluid Mechanics (501603)	Fluid Mechanics (501083)
19/12/2014		
Tuesday,	Elective – I (501604)	Research Methodology Treatment (501004)
23/12/2014	a) Ground Water Contamination & Transport	
	b) Hydrology & Groundwater	
	c) Air Pollution Engineering	
	d) Solid & Hazardous Waste Management	
Friday,	Elective-II (501605)	Elective – I (501084)
26/12/2014	a) Unit Operation in Environmental Engineering	
	b) Advance Water Treatment & Water Supply	
	Engineering	
	c) Remote Sensing & GIS System for Water	
	Resources Management	
	d) Planning and Management of Water Resources	

M.E. (Civil) (Water Resources & Environmental Engineering) (2012 Pattern & 2013 Credit Pattern) (Sem. II) Time: 2.30 p.m. to 5.30 p.m.

Day & Date	2012 Pattern (Sem. II)	2013 (Credit Pattern) (Sem. II)
Saturday,	Optimization Technique (501608)	Environmental Hydraulics and Environmental
13/12/2014		Structures (501086)
Wednesday,	Open Channel Hydraulics (501609)	Hydrology (501087)
17/12/2014		
Saturday,	Advance Waste Water Treatment (501610)	Open Channel Hydraulics (501088)
20/12/2014		
Wednesday,	Elective – III (501611)	Elective II (501089)
24/12/2014	Computational Method in Water Resources	· · ·
	Noise Pollution and Control Technique	
	3. Ground Water Modeling	
	4. Industrial Waste Management	
Saturday,	Elective – IV (501612)	
27/12/2014	1. Dam Engineering	
	Energy and Environment	
	3. Closed Conduit Flow	
	Research Methodology and Intellectual Property	
	Right	

M.E. (Civil) (Water Resources & Environmental Engineering) (2013 Credit Pattern) (Sem. III) Time: 2.30 p.m. to 5.30 p.m.

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Day & Date	2013 Credit Pattern (Sem. III)
Monday, 15/12/2014	Advanced Water and Waste Water Treatment
Thursday, 18/12/2014	Optimization Techniques
Monday, 22/12/2014	Elective - III

M.E. (Mechanical) (Heat Power Engineering) (2008 Pattern & 2013 Credit Pattern) (Sem. I)

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

Day & Date	2008 Pattern (Sem. I)	2013 (Credit Pattern) (Sem. I)
Friday, 12/12/2014	Numerical Methods in Thermal & Fluid Engineering (502101)	Advanced Mathematics and Numerical Methods (507101)
	,	Advanced Thermodynamics and Combustion
Tuesday, 16/12/2014	Advanced Thermodynamics (502102)	Technology (502102)
Friday,	Technology & Financial Management (502103)	Advanced Fluid Mechanics (502103)
19/12/2014	(Common to Design & Mechatronics)	(Common to Energy Engineering – 2013 Credit Pattern)
Tuesday,	Elective-I (502104)	Research Methodology (502104)
23/12/2014	a) Performance Assessment of Mechanical	(Common to All Mechanical Branches – 2013
	Equipments	Credit Pattern)
	b) Refrigeration Technology	·
	c) Energy Conservation & Management	
	d) Convective Heat Transfer Analysis	
Friday,	Elective-II (502105)	Elective – I (502105)
26/12/2014	a) Inter nal Combustion Engines	
	b) Advanced Air Conditioning & Heating & Ventilation	
	c) Conventional Power Plants	
	d) Advanced Gas Dynamics	

M.E. (Mechanical) (Heat Power Engineering) (2008 Pattern & 2013 Credit Pattern) (Sem. II)

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

Day & Date	2008 Pattern (Sem. II)	2013 (Credit Pattern) (Sem. II)
Saturday,	Advanced Heat Transfer (502108)	Advanced Heat Transfer (502107)
13/12/2014		
Wednesday,	Measurement Techniques and Data Analysis	Air Conditioning Technology (502108)
17/12/2014	(502109)	
Saturday,	Advanced Fluid Mechanics (502110)	Measurements and Controls (502109)
20/12/2014		
Wednesday,	Elective – III (502111)	Elective – II (502110)
24/12/2014	a) Internal Combustion Engines – fuels	
	b) Cryogenic Engineering	
	c) Non Conventional Power Plants	
Saturday,	Elective – IV (502112)	
27/12/2014	a)Heat Exchanger System Design and Performance	
	b)Computational Fluid Dynamics	
	OPEN (SELF STUDY)**	
	i)Computer Aided Engineering (Design)	

M.E. (Mechanical) (Heat Power Engineering) (2013 Credit Pattern) (Sem. III)

Day & Date	2013 Credit Pattern (Sem. III)
Monday,	Computational Fluid Dynamics (602113)
15/12/2014	
Thursday,	Design of Heat Transfer Equipments (602114)
18/12/2014	
Monday,	Elective – III (602115)
22/12/2014	

M.E. (Mechanical) (Design Engineering) (2008 Pattern & 2013 Credit Pattern) (Sem. I)

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

Day & Date	2008 Pattern (Sem. I)	2013 (Credit Pattern) (Sem. I)
Friday, 12/12/2014	Mathematical Modeling & Analysis (502201)	Advanced Mathematics (507201)
Tuesday, 16/12/2014	Advanced Stress Analysis (502202)	Material Science and Mechanical Behavior of Materials (502202)
Friday, 19/12/2014	Technology & Financial Management (502203) (Common to Heat Power & Mechatronics)	Advanced Stress Analysis (502203)
Tuesday, 23/12/2014	Elective-I (502204) a) Instrumentation & Automatic Control b) Advanced Material Science c) Optimization Techniques	Research Methodology (502204) (Common to All Mechanical Branches – 2013 Credit Pattern)
Friday, 26/12/2014	Elective-II (502205) a) Material Handling Equipment Design b) Process Equipment Design c) Robotics	Elective – I (502205)

M.E. (Mechanical) (Design Engineering) (2008 Pattern & 2013 Credit Pattern) (Sem. II)

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

Day & Date	2008 Pattern (Sem. II)	2013 (Credit Pattern) (Sem. II)
Saturday,	Vibration & Noise Control (502208)	Analysis and Synthesis of Mechanisms (502207)
13/12/2014		
Wednesday,	Advanced Machine Design (502209)	Advanced Mechanical Vibrations (502208)
17/12/2014		
Saturday,	Analysis & Synthesis of Mechanisms (502210)	Finite Element Method (502209)
20/12/2014		
Wednesday,	Elective – III (502211)	Elective – II (502210)
24/12/2014	a) Reliability Engineering	
	b) Engineering Fracture Mechanics	
	c) Computer Aided Engineering	
Saturday,	Elective – IV (502212)	
27/12/2014	a) Vehicle dynamics	
	b) Industrial Tribology	
	c) OPEN (SELF STUDY)**	

M.E. (Mechanical) (Design Engineering) (2013 Credit Pattern) (Sem. III)

Day & Date	2013 Credit Pattern (Sem. III)
Monday,	Optimization Techniques (602213)
15/12/2014	
Thursday,	Mechanical Measurements and Controls (602214)
18/12/2014	
Monday,	Elective – III (602215)
22/12/2014	

M.E. (Mechanical) (Mechatronics) (2008 Pattern & 2013 Credit Pattern) (Sem. I)

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

Day & Date	2008 Pattern (Sem. I)	2013 (Credit Pattern) (Sem. I)
Friday, 12/12/2014	Applied Numerical Methods and Computational Techniques (502801)	System Modeling, Identification and Simulation (502801)
Tuesday, 16/12/2014	Mechanical of Electronic Measurements (502802)	Control System – I (502802)
Friday, 19/12/2014	Technology and Financial Management (502103) (Common to Heat Power & Design)	Sensors, Transducers and Interfacing Techniques (502803)
Tuesday, 23/12/2014	Elective - I((502804) a) Design of Machine Elements b) Digital Signal Processing c) Advanced Material Science	Research Methodology (502804) (Common to All Mechanical Branches – 2013 Credit Pattern)
Friday, 26/12/2014	Elective – II(502805) a) Control Systems b) Theory of Machines and Mechanisms c) Instrumentation & Automatic Control	Elective – I (502805)

M.E. (Mechanical) (Mechatronics) (2008 Pattern & 2013 Credit Pattern) (Sem. II)

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

Day & Date	2008 Pattern (Sem. II)	2013 (Credit Pattern) (Sem. II)
Saturday,	Microcontrollers (502808)	PLC Programming (502807)
13/12/2014	, ,	
Wednesday,	Industrial Automation (502809)	Control Systems – II (502808)
17/12/2014		
Saturday,	Drives & Actuators (502810)	Industrial Drives and Actuators (502809)
20/12/2014		
Wednesday,	Elective – III (502811)	Elective – II (502810)
24/12/2014	a) Computer Aided Design	
	b) Robotics	
	c) Automotive Electronics	
Saturday,	Elective IV (502812)	
27/12/2014	a)Embedded Systems	
	b)Fuzzy Logic and Neural Networks	
	c) Open (Self Study)	

M.E. (Mechanical) (Mechatronics) (2013 Credit Pattern) (Sem. III)

Day & Date	2013 (Credit Pattern) (Sem. III)
Monday,	Microcontroller Applications in Embedded Systems (602813)
15/12/2014	
Thursday,	Fiexible Manufacturing Systems (602814)
18/12/2014	
Monday,	Elective – III (602815)
22/12/2014	

M.E. (Mechanical) (Automotive Engineering) (2008 Pattern & 2013 Credit Pattern) (Sem. I)

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

Day & Date	2008 Pattern (Sem. I)	2013 (Credit Pattern) (Sem. I)
Friday,	Mathematical Modeling & Analysis (502201)	Advanced Mathematics (507201)
12/12/2014		
Tuesday,	Automotive Engine Design (502301)	Automotive Engine Design (502302)
16/12/2014		
Friday,	Technology and Financial Management (502103)	Automotive Safety and Regulations (502303)
19/12/2014		
Tuesday,	Elective - I (502302)	Research Methodology (502304)
23/12/2014	a) Advanced Heat Transfer	(Common to All Mechanical Branches - 2013
	b) Finite Element Method	Credit Pattern)
	c) Advanced Hydraulics and Pneumatic Systems	
Friday,	Elective – II (502303)	Elective – I (502305)
26/12/2014	a) Tribology and Preventive Maintenance	
	b) Automotive Safety and Regulations	
	c) Automobile Air Conditioning	

M.E. (Mechanical) (Automotive Engineering) (2008 Pattern & 2013 Credit Pattern) (Sem. II)

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

Day & Date	2008 Pattern (Sem. II)	2013 (Credit Pattern) (Sem. II)
Saturday,	Automotive Fuels and Emissions (502306)	Engine Combustion Technology (502307)
13/12/2014		
Wednesday,	Autoerotic (502307)	Noise Vibration and Harshness (502308)
17/12/2014		
Saturday,	Fundamentals of Vehicle Dynamics (502308)	Automotive Chassis Design (502309)
20/12/2014		
Wednesday,	<u>Elective – III (502309)</u>	Elective – II (502310)
24/12/2014	a) Noise Vibrations and Harshness	
	b) Automotive Materials	
	c) Vehicle Aerodynamics	
Saturday,	Elective – IV (502310)	
27/12/2014	a)Computational Fluid Dynamics	
	b) Automotive Chassis Design	
	c)** Open Elective (Self Study)	

M.E. (Mechanical) (Automotive Engineering) (2013 Credit Pattern) (Sem. III)

Day & Date	2013 (Credit Pattern) (Sem. III)
Monday,	Vehicle Dynamics (602313)
15/12/2014	
Thursday,	Autotronics (602314)
18/12/2014	
Monday,	Elective – III (602315)
22/12/2014	

M.E. (Mechanical) (Energy Engineering) (2012 Pattern & 2013 Credit Pattern) (Sem. I)

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

Day & Date	2012 Pattern (Sem. I)	2013 (Credit Pattern) (Sem. I)
Friday, 12/12/2014	Advanced Engineering Mathematics (502501)	Advanced Mathematics and Numerical Methods (507101)
Tuesday, 16/12/2014	Advanced Thermodynamics (502502)	Advanced Thermodynamics (502502)
Friday, 19/12/2014	Energy Conversion Systems (502503)	Advanced Fluid Mechanics (502103) (Common to Heat Power Engineering – 2013 Credit Pattern)
Tuesday, 23/12/2014	Elective – I (502504) a) Nuclear Materials and Reactor Fundamentals b) Process Optimization c) Plant Operation, Dynamics and Control	Research Methodology (502504) (Common to All Mechanical Branches – 2013 Credit Pattern)
Friday, 26/12/2014	Elective – II (502505) a) Electromechanical and Reactor Systems b) Process Integration c) Non Conventional Energy Sources	Elective – I (502505)

M.E. (Mechanical) (Energy Engineering) (2012 Pattern & 2013 Credit Pattern) (Sem. II)

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

Day & Date	2012 Pattern (Sem. II)	2013 (Credit Pattern) (Sem. II)
Saturday,	Convective Heat Transfer (502508)	Advanced Heat Transfer (502107)
13/12/2014		
Wednesday,	Energy Systems Modeling and Analysis (502509)	Energy Conversion Systems (502508)
17/12/2014		
Saturday,	Energy Management (502510)	Energy Management (502509)
20/12/2014		
Wednesday,	Elective – III (502511)	Elective – II (502510)
24/12/2014	a) Radiation Safety and Shielding	
	b) Energy and Climate	
	c) Energy Regulatory Frameworks	
Saturday,	<u>Elective – IV (502512)</u>	
27/12/2014	a) Nuclear Measurement and Detection	
	b) Energy Resources and Economics	
	c) Processing Storage & Disposal of Nuclear Waste	
	d) Open Elective	

M.E. (Mechanical) (Energy Engineering) (2013 Credit Pattern) (Sem. III)

Day & Date	2013 (Credit Pattern) (Sem. III)	
Monday,	Nuclear Materials and Reactor Fundamentals (602513)	
15/12/2014		
Thursday,	Energy Systems Modeling and Analysis (602514)	
18/12/2014		
Monday,	Elective - III	
22/12/2014		

M.E. (Mechanical) (Computer Aided Design Manufacture & Engineering) (2012 Pattern & 2013 Credit Pattern) (Sem. I)

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

Day & Date	2012 Pattern (Sem. I)	2013 (Credit Pattern) (Sem. I)
Friday,	Advanced Machine Design (520401)	Advanced Mathematics (507201)
12/12/2014		
Tuesday,	Mathematical Modeling (502402)	Advanced Machine Design (502402)
16/12/2014		
Friday,	Computer Aided Design (520403)	Computer Aided Design (502403)
19/12/2014		
Tuesday,	<u>Elective – I (502404)</u>	Research Methodology (502404)
23/12/2014	a) Material for Engineering Applications	(Common to All Mechanical Branches – 2013
	b) Advanced Manufacturing Processes	Credit Pattern)
	c) Customization of CAD/CAM Software's	
	d) CAD/CAM Practices in Metal Forming	
Friday,	<u>Elective – II (502405)</u>	Elective – I (502405)
26/12/2014	a) Finite Element Analysis	
	b) Integrated Product Design & Development	
	c) Computational Fluid Dynamics	
	d) Robotics	

M.E. (Mechanical) (Computer Aided Design Manufacture & Engineering) (2012 Pattern & 2013 Credit Pattern) (Sem. II) Time: 2.30 p.m. to 5.30 p.m.

Day & Date	2012 Pattern (Sem. II)	2013 (Credit Pattern) (Sem. II)
Saturday,	Management of Technology (502408)	Computer Integrated Manufacturing (502407)
13/12/2014		
Wednesday,	Computer Aided Manufacturing (502409)	Industrial Product Design & Product Life Cycle
17/12/2014		Management (502408)
Saturday,	Computer Integrated Manufacturing (502410)	Automated Manufacturing System Modeling
20/12/2014		(502409)
Wednesday,	<u>Elective – III (502411)</u>	Elective – II (502410)
24/12/2014	a) Design for X	
	b) Automated Manufacturing System Modeling	
	c) Simulation and Modeling	
	d) Optimization Techniques	
Saturday,	<u>Elective – IV (502412)</u>	
27/12/2014	a) Product Lifecycle Management	
	b) Rapid Prototyping	
	c) Data Base Management System	
	d) Robust Design of Product / Process	
	e) Open Elective	

M.E. (Mechanical) (Computer Aided Design Manufacture & Engineering) (2013 Credit Pattern) (Sem. III) Time: 2.30 p.m. to 5.30 p.m.

Day & Date	2013 (Credit Pattern) (Sem. III)
Monday,	Simulation Modeling (602413)
15/12/2014	
Thursday,	Optimization Techniques (602414)
18/12/2014	
Monday,	Elective – III (602415)
22/12/2014	

M.E. (Electrical) (Control System) (2008 Pattern & 2013 Credit Pattern) (Sem. I)

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

Day & Date	2008 Pattern (Sem. I)	2013 (Credit Pattern) (Sem. I)
Friday, 12/12/2014	Advanced Mathematical Technique for Control System (503101)	Computational Technique for Control System (503101)
Tuesday, 16/12/2014	Process Control Management (503102)	Process Control Management (503102)
Friday, 19/12/2014	Nonlinear Control System (503103)	Non Linear Control System (503103)
Tuesday, 23/12/2014	Elective-I (503104) a) Automation & Robotics b) Modeling & Dynamic System	Research Methodology (503104)
Friday, 26/12/2014	Elective-II (503105) a) Advanced Topics in Control Systems b) Computer Aided Control Systems Design c) SCADA System & Applications	Elective – I (503105)

M.E. (Electrical) (Control System) (2008 Pattern & 2013 Credit Pattern) (Sem. II)

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

Day & Date	2008 Pattern (Sem. II)	2013 (Credit Pattern) (Sem. II)
Saturday, 13/12/2014	Multivariable & Optimal Control System (503108)	Multivariable and Optimal Control System (503107)
Wednesday, 17/12/2014	System Identification & Adaptive Control (503109)	System Identification and Adaptive Control (503108)
Saturday, 20/12/2014	Advanced Digital Control Technique (503110)	Advanced Digital Control Techniques (503109)
Wednesday, 24/12/2014	Elective – III (503111) a) Robust Control Systems b) Stochhastics Dynamical Systems c) Large Scale System	Elective – II (503110)
Saturday, 27/12/2014	Elective – IV (503112) a) Intelligent Control b) Advanced Drives & Control c) Open	

M.E. (Electrical) (Control System) (2013 Credit Pattern) (Sem. III)

Day & Date	2013 (Credit Pattern) (Sem. III)	
Monday, 15/12/2014	Advanced Drives and Control (603101)	
Thursday, 18/12/2014	Computer Aided Control System Design ((603102)	
Monday, 22/12/2014	Elective – III (603103)	

M.E. (Electrical) (Power System) (2008 Pattern & 2013 Credit Pattern) (Sem. I)

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

Day & Date	2008 Pattern (Sem. I)	2013 (Credit Pattern) (Sem. I)
Friday,	Computer Applications in power Systems (503201)	Computer Applications in Power Systems
12/12/2014		(503201)
Tuesday,	Power Sector Economics, Management &	Power Sector Economics and Management
16/12/2014	Restructuring (503202)	(503202)
Friday,	Power System Modeling (503203)	Power System Modeling (503203)
19/12/2014		
Tuesday,	Elective-I (503204)	Research Methodology (503204)
23/12/2014	a) Digital Signal Processing & its Applications	
	b) Advanced Power Electronics	
Friday,	Elective-II (503205)	Elective – I (503205)
26/12/2014	a) Artificial Intelligence & its Application in	
	Power System	
	b) Renewable Energy Sources	

M.E. (Electrical) (Power System) (2008 Pattern & 2013 Credit Pattern) (Sem. II)

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

Day & Date	2008 Pattern (Sem. II)	2013 (Credit Pattern) (Sem. II)
Saturday,	Power System Dynamics (503208)	Power System Dynamics (503207)
13/12/2014		
Wednesday,	Power System Planning & Reliability (503209)	Power System Planning & Reliability (503208)
17/12/2014		
Saturday,	High Voltage Power Transmission (503210)	HVDC and Flexible AC Transmission (503209)
20/12/2014		
Wednesday,	Elective – III (503211)	Elective – II (503210)
24/12/2014	a) Digital Power System Protection	
	b) Power Electronics Applications in Power	
	Systems	
Saturday,	Elective – IV (503212)	
27/12/2014	a) Power Quality Assessment and Mitigation	
	b) Partial Discharges in Electrical Power Apparatus	
	c) Open	

M.E. (Electrical) (Power System) (2013 Credit Pattern) (Sem. III)

Day & Date	2013 (Credit Pattern) (Sem. III)	
Monday,	Advanced Power System Protection (603201)	
15/12/2014		
Thursday,	Power Quality Assessment and Mitigation (603202)	
18/12/2014		
Monday,	Elective – III (603203)	
22/12/2014		

M.E. (Electrical) (Power Electronics & Drives)(2008 Pattern & 2013 Credit Pattern) (Sem. I)

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

Day & Date	2008 Pattern (Sem. I)	2013 (Credit Pattern) (Sem. I)
Friday, 12/12/2014	Modeling and Analysis of Electrical Machines (503301)	Modeling and Analysis of Electrical Machines (503301)
Tuesday, 16/12/2014	Energy Management and Power Quality in Electrical Drives (503302)	Energy Management and Power Quality in Electrical Drives (503302)
Friday, 19/12/2014	Power Electronic Devices and Circuits (503303)	Power Converters (503303)
Tuesday, 23/12/2014	Elective – I (503304) a) DSP and its Applications in Electrical Drives b) Data Acquisition and Signal Conditioning c) Digital Simulation of Power Electronic Systems	Research Methodology (503304)
Friday, 26/12/2014	Elective – II (503305) a) FACTS and HVDC b) Harmonics and their Mitigation	Elective – I (503305)

M.E. (Electrical) (Power Electronics & Drives)(2008 Pattern & 2013 Credit Pattern)(Sem.II)

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

Day & Date	2008 Pattern (Sem. II)	2013 (Credit Pattern) (Sem. II)
Saturday,	Controlled Electrical Drives (503308)	AC and DC Drives (503307)
13/12/2014	·	, , ,
Wednesday,	Power Electronic Applications (503309)	Design of Power Electronic Systems (503308)
17/12/2014		
Saturday,	Design of Power Electronic Systems (503310)	Advanced Control Systems (503309)
20/12/2014		
Wednesday,	Elective – III (503311)	Elective – II (503310)
24/12/2014	a) Automation in Industrial Drives	
	b) Computer Aided Design of Electrical Machines	
	c) Microcontroller Applications	
Saturday,	Elective – IV (503312)	
27/12/2014	a) Artificial Intelligence in Electrical Drives	
	b) Special Topics in Power Electronics and Drives	
	c) Open Elective	

M.E. (Electrical) (Power Electronics & Drives) (2013 Credit Pattern) (Sem.III)

Day & Date	2013 (Credit Pattern) (Sem. III)	
Monday,	Power Electronics Applications (603301)	
15/12/2014		
Thursday,	Power Electronics in Smart Grid (603302)	
18/12/2014		
Monday,	Elective – III (603303)	
22/12/2014		

M.E. (E & TC) (Microwave) (2008 Pattern & 2013 Credit Pattern) (Sem. I)

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

Day & Date	2008 Pattern (Sem. I)	2013 (Credit Pattern) (Sem. I)
Friday,	Electromagnetics & Antenna Theory (504222)	Electromagnetics and Antenna Theory (504301)
12/12/2014		
Tuesday,	Principles & Practices for IT Management (504182)	RF and Microwave Circuits (504302)
16/12/2014	(Common to VSLI, Electronics)	
Friday,	RF Wave & Microwave Circuit Design (504223)	Microwave Measurements (504303)
19/12/2014		
Tuesday,	Elective-I (504224)	Research Methodology (504104)
23/12/2014	a) Applications of Microwaves to Radar & Satellite	(Common to All E & TC Branches and Electronics
	b) Digital Image processing & Analysis	Branch – 2013 Credit Pattern)
	c) Communication Networks	
Friday,	Elective-II (504225)	Elective – I (504305)
26/12/2014	a) Smart Antennas	
	b) Speech Processing & Application	
	c) Semiconductor Device Modeling &	
	Technology	

M.E. (E & TC) (Microwave) (2008 Pattern & 2013 Credit Pattern) (Sem. II)

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

Day & Date	2008 Pattern (Sem. II)	2013 (Credit Pattern) (Sem. II)
Saturday, 13/12/2014	Microwave Integrated Circuits (504228)	Computational Electromagnetic (504307)
Wednesday, 17/12/2014	Signal Processing for Wireless Communication (504229)	RF and MMIC Technology (504308)
Saturday, 20/12/2014	Mobile Communication – GSM and CDMA (504230)	Wireless Communication System (504309)
Wednesday, 24/12/2014	Elective – III (504231) a)Fiber Optic Communication b)System Design c)EMI and EMC Techniques	Elective – II (504310)
Saturday, 27/12/2014	Elective – IV (Open) (504232) Any one subject of Elective IV from the following Branches a) Electronics b) Computer c) Information Technology Open Elective i)) Software Project Management ii) Digital Signal Compression	

M.E. (E & TC) (Microwave) (2013 Credit Pattern) (Sem. III)

Day & Date	2013 (Credit Pattern) (Sem. III)	
Monday,	EMI and EMC Techniques (604301)	
15/12/2014		
Thursday,	Radar and Satellite Communications (604302)	
18/12/2014		
Monday,	Elective – III (604103)	
22/12/2014		

M.E. (E & TC) (VLSI & Embedded Systems) (2008 Pattern & 2013 Credit Pattern) (Sem. I)

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

Day & Date	2008 Pattern (Sem. I)	2013 (Credit Pattern) (Sem. I)
Friday, 12/12/2014	Analog & Digital CMOS IC Design (504181)	Digital CMOS Design (504201)
Tuesday, 16/12/2014	Principles & Practices for IT Management (504182)	Embedded System Design (504103)
Friday, 19/12/2014	Embedded System Design (504183)	Reconfigurable Computing (504203)
Tuesday, 23/12/2014	Elective-I (504184) a) ASIC Design & Modeling b) Nanotechnology c) Machine Intelligence	Research Methodology (504104) (Common to All E & TC Branches and Electronics Branch – 2013 Credit Pattern)
Friday, 26/12/2014	Elective-II (504185) a) Reconfigurable Computing b) Memory Technologies c) VLSI EDA Tools	Elective – I (504205)

M.E. (E & TC) (VLSI & Embedded Systems) (2008 Pattern & 2013 Credit Pattern) (Sem. II)

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

Day & Date	2008 Pattern (Sem. II)	2013 (Credit Pattern) (Sem. II)
Saturday,	Real Time Operating Systems (504188)	Analog CMOS Design (504207)
13/12/2014		
Wednesday,	Embedded Signal Processing (504189)	System on Chip (504208)
17/12/2014		
Saturday,	RF IC Design (504190)	Embedded Signal Processors (504209)
20/12/2014		
Wednesday,	Elective – III (504191)	Elective – II (504210)
24/12/2014	a)Fault Tolerant System Design	
	b)Biomedical Signals and Systems	
	c)Advanced Digital System Design	
Saturday,	Elective IV - (Open) (504192)	
27/12/2014	a) Embedded Automotive Systems	
	b) System on Chip (SOC)	
	c) Software Defined Radio	
	d) High Performance Computer Network (Com. to	
	Í.T.)	

M.E. (E & TC) (VLSI & Embedded Systems) (2013 Credit Pattern) (Sem. III)

Day & Date	2013 (Credit Pattern) (Sem. III)
Monday,	Fault Tolerant Systems (604201)
15/12/2014	
Thursday,	ASIC Design (604202)
18/12/2014	
Monday,	Elective – III (604103)
22/12/2014	

M.E. (E & TC) (Signal Processing) (2008 Pattern & 2013 Credit Pattern) (Sem. I)

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

Day & Date	2008 Pattern (Sem. I)	2013 (Credit Pattern) (Sem. I)
Friday,	Liner Algebra & Random Processes (504501)	Image Processing and Analysis (504401)
12/12/2014		
Tuesday,	Principles & Practices for I.T. Management (Signal Processing Techniques (504402)
16/12/2014	504182)	
	(Common to E.& TC, V.L.S.I. & Electronic)	
Friday,	Signal Processing Techniques (504502)	Mixed Signal Processing Systems and Design
19/12/2014		(504403)
Tuesday,	Elective-I (504503)	Research Methodology (504104)
23/12/2014	a) Digital Image Processing	(Common to All E & TC Branches and Electronics
	b) Automotive Electronics	Branch – 2013 Credit Pattern)
	c) Artificial Intelligence	2010 0100111 0110111,
Friday,	Elective-II (504504)	Elective – I (504405)
26/12/2014	a) Bio-Medical Signal Processing	, ,
	b) Wireless & Mobile Communication	
	c) Smart Antennas	

M.E. (E & TC) (Signal Processing) (2008 Pattern & 2013 Credit Pattern) (Sem. II)

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

Day & Date	2008 Pattern (Sem. II)	2013 (Credit Pattern) (Sem. II)
Saturday,	Statistical Signal Processing (504507)	Speech Signal Processing (504407)
13/12/2014		
Wednesday,	Advanced Digital Signal Processing (504508)	Architecture for Signal Processing Algorithms
17/12/2014		(504408)
Saturday,	VLSI in Signal Processing (504509)	Biomedical Signal Processing (504409)
20/12/2014		
Wednesday,	Elective – III: (504510)	Elective – II (504410)
24/12/2014	a) Acoustic & Speech Processing	
	b) Digital Signal Compression	
	c) Multimedia Techniques	
Saturday,	Elective – IV (504511)	
27/12/2014	a) Radar & Satellite Signal Processing	
	b) Operating Systems & Open Source Systems	
	c) Computer Vision	

M.E. (E & TC) (Signal Processing) (2013 Credit Pattern) (Sem. III)

Day & Date	2013 (Credit Pattern) (Sem. III)	
Monday, 15/12/2014	Statistical Signal Processing (604401)	
Thursday, 18/12/2014	Still Image and Moving Picture Compression Standards (604402)	
Monday, 22/12/2014	Elective – III (604103)	

M.E. (E & TC) (Communication Networks) (2008 Pattern & 2013 Credit Pattern) (Sem. I)

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

Day & Date	2008 Pattern (Sem. I)	2013 (Credit Pattern) (Sem. I)
Friday, 12/12/2014	Coding & Modulation Techniques (504601)	Modeling and Simulation of Communication Networks (504501)
Tuesday, 16/12/2014	Principles & Practices of IT Management (504182)	Spread spectrum and CDMA Systems (504502)
Friday, 19/12/2014	Modeling & Simulation of Communication Network (504602)	Detection and Estimation Theory (504503)
Tuesday, 23/12/2014	Elective – I (504603) a)Microwave and Antenna Theory b)Signal Detection and Estimation c) Ad-hoc Networks	Research Methodology (504104) (Common to All E & TC Branches and Electronics Branch – 2013 Credit Pattern)
Friday, 26/12/2014	Elective – II (504604) a) RF MRMs b)Network Architecture & Design c)Computational Electromagnetics	Elective – I (504505)

M.E. (E & TC) (Communication Networks) (2008 Pattern & 2013 Credit Pattern) (Sem. II)

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

Day & Date	2008 Pattern (Sem. II)	2013 (Credit Pattern) (Sem. II)
Saturday,	Wired and Wireless Networks (504607)	Traffic Analysis and QOS (504507)
13/12/2014		• ,
Wednesday,	Network Traffic Analysis and Qos (504608)	Broadband Wireless Technologies (504508)
17/12/2014		
Saturday,	Wireless System Design (504609)	Optical Networks (504509)
20/12/2014		
Wednesday,	Elective – III ((504610)	Elective – II (504510)
24/12/2014	a)Wireless Sensor Networks	
	b)Mobile Computing	
	c)Network Security	
Saturday,	<u>Elective – IV (504611)</u>	
27/12/2014	a)Software Radio	
	b)Neural Networks in Communication	
	c)Hardware Platforms for Networking Applications	

M.E. (E & TC) (Communication Networks) (2013 Credit Pattern) (Sem. III)

Day & Date	2013 (Credit Pattern) (Sem. III)
Monday,	Mobile Computing (604501)
15/12/2014	
Thursday,	Digital Communication Receivers (604502)
18/12/2014	
Monday,	Elective – III (604103)
22/12/2014	

M.E. (Electronics) (Digital System) (2008 Pattern & 2013 Credit Pattern) (Sem. I)

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

Day & Date	2008 Pattern (Sem. I)	2013 (Credit Pattern) (Sem. I)
Friday, 12/12/2014	Microelectronics (504195)	Microelectronics (504101)
Tuesday, 16/12/2014	Principles & Practices for IT Management (504182)	Digital Signal Processing Architectures (504102)
Friday, 19/12/2014	Signal Processing Architectures (504196)	Embedded System Design (504103)
Tuesday, 23/12/2014	Elective-I (504197) a) Fault Tolerant System Design b) Advanced Digital System Design c) Wireless & Mobile Technologies	Research Methodology (504104) (Common to All E & TC Branches and Electronics Branch – 2013 Credit Pattern)
Friday, 26/12/2014	Elective-II (504198) a) Machine Intelligence b) Advanced Computing Architectures c) Memory Technologies	Elective – I (504105)

M.E. (Electronics) (Digital System) (2008 Pattern & 2013 Credit Pattern) (Sem. II)

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

Day & Date	2008 Pattern (Sem. II)	2013 (Credit Pattern) (Sem. II)
Saturday,	Embedded Systems (504201)	Design for Testability (504107)
13/12/2014		
Wednesday,	Communication Network and Security (504202)	PLDs and ASIC Design (504108)
17/12/2014		
Saturday,	Image Processing and Pattern Recognition (504203)	Random Signals and Processes (504109)
20/12/2014		
Wednesday,	Elective – III (504204)	Elective – II (504110)
24/12/2014	a) Digital Systems using PLDs	
	b) Biomedical Signals and Systems	
	c) Embedded Video processing	
Saturday,	Elective – IV (OPEN) (504205)	
27/12/2014	a) Reconfigurable Computing	
	b) Embedded Automotive Systems	
	c) Digital Signal Compression	

M.E. (Electronics) (Digital System) (2013 Credit Pattern) (Sem. III)

Day & Date	2013 (Credit Pattern) (Sem. III)
Monday, 15/12/2014	Image Processing and Computer Vision (604101)
Thursday, 18/12/2014	Wireless and Mobile Technologies (604102)
Monday, 22/12/2014	Elective – III (604103)

M.E. (Production) (Production & Production CAD/CAM) (2008 Pattern) (Sem. I)

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

Day & Date	Production - 2008 Pattern (Sem. I)	Production CAD/CAM – 2008 Pattern (Sem. I)
Friday, 12/12/2014	Mathematics and Statistics (511101)	Computer Aided Design (511201)
Tuesday, 16/12/2014	CAD/CAM/CIM (511102)	Computer Aided Manufacturing (511202)
Friday, 19/12/2014	Advanced Manufacturing Processes (511103)	Optimization Techniques (511203)
Tuesday,	Elective-I (511104)	Elective I (511204)
23/12/2014	a) Advanced Mechatronics	a)Advanced Stress Analysis
	b) Reliability & Failure Analysis	b)Tribology & Surface Engineering
	c) Supply Chain Management d) Advanced Machine Tool Design	c)Industrial Robotics & Artificial Intelligence d)Concurrent Product Design
Friday,	Elective-II (511105)	Elective – II (511205)
26/12/2014	a) Advance Robotics	a) Mechatronics
20/12/2014	b) Sheet Metal Processing	b) Rapid Prototyping
	c) Tool and Die Design	c) Energy Management
	d) Engineering Economics & Accounting	d) CAD/CAM/CAE Software Development

M.E. (Production) (Production & Production CAD/CAM) (2008 Pattern) (Sem. II)

Day & Date	Production - 2008 Pattern (Sem. II)	Production CAD/CAM – 2008 Pattern (Sem. II)
Saturday, 13/12/2014	Material Technology (511108)	Computer Integrated Manufacturing (511208)
Wednesday, 17/12/2014	Manufacturing Management (511109)	Finite Element Analysis (511209)
Saturday, 20/12/2014	Industrial Automation (511110)	Advanced Mathematics (511210)
Wednesday, 24/12/2014	Elective – III (511111) a) Plastics Processing b) Product Life Cycle Management c) Welding & Joining d) Surface Treatment processes	Elective –III: (511211) a) Product Life Cycle Management b) Advanced Materials and Processing c) Manufacturing System Design d) Quality & Reliability Engineering
Saturday, 27/12/2014	Elective – IV (Open) (511112) a) Optimization Techniques b) Research Methodologies c) Intellectual Property Rights & Product Design d) Energy management	Elective – IV :(511212) a) Computer Aided Process Planning b) Technology Management c) Design of Experiments & Research Methodology d) Computational Fluid Dynamics

M.E. (Production) (Production CAD/CAM & Production Manufacturing & Automation)

(2013 Credit Pattern) (Sem. I)

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

Day & Date	Production CAD/CAM 2013 Credit Pattern (Sem. I)	Production Manufacturing & Automation 2013 (Credit Pattern) (Sem. I)
Friday, 12/12/2014	Computer Aided Design (511301)	Mathematics & Statistics (511101)
Tuesday, 16/12/2014	Computer Aided Manufacturing (511302)	Industrial Automation (511102)
Friday, 19/12/2014	Advanced Mathematics and Statistics (511303)	Advanced Manufacturing Processes (511103)
Tuesday, 23/12/2014	Design of Experiments & Research Methodology (511304)	Research Methodology (511104)
Friday, 26/12/2014	Elective – I (511305)	Elective – I (511105)

M.E. (Production) (Production CAD/CAM & Production Manufacturing & Automation)

(2013 Credit Pattern) (Sem. II)

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

Day & Date	Production CAD/CAM 2013 Credit Pattern (Sem. II)	Production Manufacturing & Automaion 2013 (Credit Pattern) (Sem. II)
Saturday, 13/12/2014	Computer Integrated Manufacturing (511307)	Computer Integrated Manufacturing (511107)
Wednesday, 17/12/2014	Finite Element Analysis (511308)	Tool and Die Design (511108)
Saturday, 20/12/2014	Optimization Techniques (511309)	Advanced Joining Processes (511109)
Wednesday, 24/12/2014	Elective – II (511310)	Elective – II (511110)

M.E. (Production) (Production CAD/CAM & Production Manufacturing & Automation)

(2013 Credit Pattern) (Sem. III)

Day & Date	Production CAD/CAM 2013 Credit Pattern (Sem. III)	Production Manufacturing & Automation 2013 (Credit Pattern) (Sem. III)
Monday, 15/12/2014	Advanced Stress Analysis (511313)	Advanced Robotics (611101)
Thursday, 18/12/2014	Computer Aided Production Planning (511314)	Surface Engineering (611102)
Monday, 22/12/2014	Elective – III (511315)	Elective – III (611103)

M.E. (Computer) (Computer Engineering) (2008 Pattern & 2013 Credit Pattern) (Sem. I)

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

Day & Date	2008 Pattern (Sem. I)	2013 (Credit Pattern) (Sem. I)
Friday,	Applied Algorithms (510101)	Applied Algorithms (510101)
12/12/2014	(Common to Network Engineering)	
Tuesday,	Emerging Trends in Computer Architecture (510102)	High Performance Databases (510102)
16/12/2014	(Common to Network Engineering)	
Friday,	Principles & Practices for IT Management (510103)	Advanced Computer Architecture (510103)
19/12/2014	(Common to Network Engineering)	
Tuesday,	Elective-I (510104)	Research Methodology (510104)
23/12/2014	a)Advance Software Engineering	
	b) Intelligent Systems	
	c) Internet Routing Design	
	d) Mobile computing	
Friday,	Elective-II (510105)	Elective – I (510105)
26/12/2014	a) Information & Network Security	
	b) Advanced compilers	
	c) Web Services and SOA	
	d) Embedded System Design	

M.E. (Computer) (Computer Engineering) (2008 Pattern & 2013 Credit Pattern) (Sem. II)

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

Day & Date	2008 Pattern (Sem. II)	2013 (Credit Pattern) (Sem. II)
Saturday,	Distributed System (510108)	Operating System Design (510107)
13/12/2014		
Wednesday,	High Performance Database System (510109)	Software Design and Architecture (510108)
17/12/2014	(Common to Network Engineering)	
Saturday,	Network Design, Modeling and Analysis (510110)	Advanced Computer Networks (510109)
20/12/2014		
Wednesday,	Elective – III (510111)	Elective – II (510110)
24/12/2014	a)Software Design and Architecture	
	b)Pattern Recognition and Machine Vision	
	c)Network Programming	
	d)Advanced Internet Programming	
Saturday,	Elective – IV (510112)	
27/12/2014	a)Software Project Management	
	b)Infrastructure Management	
	c)Data Warehousing and Data Mining	
	d)Open Elective (Self Study)	

M.E. (Computer) (Computer Engineering) (2013 Credit Pattern) (Sem. III)

Day & Date	2013 (Credit Pattern) (Sem. III)	
Monday,	Advanced Storage Systems and Infrastructure Management (610101)	
15/12/2014		
Thursday,	Advanced Unix Programming (610102)	
18/12/2014		
Monday,	Elective – III (610103)	
22/12/2014		

M.E. (Computer) (Computer Networks) (2008 Pattern & 2013 Credit Pattern) (Sem. I)

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

Day & Date	2008 Pattern (Sem. I)	2013 (Credit Pattern) (Sem. I)
Friday,	Applied Algorithms (510301)	Advanced Network Algorithms (510201)
12/12/2014	(Common to Computer Engineering)	
Tuesday,	Emerging Trends in Computer Architecture (510302)	Wireless Communication (510202)
16/12/2014	(Common to Computer Engineering)	
Friday,	Principles & Practices for IT Management (510303)	Advanced Databases (510203)
19/12/2014	(Common to Computer Engineering)	
Tuesday,	Elective – I (510304)	Research Methodology (510204)
23/12/2014	a)Internet Routing Design	
	b)Advanced TCP / IP	
Friday,	Elective - II(510305)	Elective – I (510205)
26/12/2014	a)Wireless Technology	
-	b)Information Security Audit & Management	

M.E. (Computer) (Computer Networks) (2008 Pattern & 2013 Credit Pattern) (Sem. II)

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

Day & Date	2008 Pattern (Sem. II)	2013 (Credit Pattern) (Sem. II)
Saturday,	Operating System Design (510308)	Network Design, Modeling and Analysis (510207)
13/12/2014		
Wednesday,	High Performance Database Systems (510309)	Distributed Systems (510208)
17/12/2014	(Common to Computer Engineering)	
Saturday,	Advanced Software Engineering (510310)	High Performance Networks (510209)
20/12/2014		
Wednesday,	Elective – III (510311)	Elective – II (510210)
24/12/2014	a)Network Programming	
	b)Network Design, Modeling and Analysis	
Saturday,	Elective – IV (510312)	
27/12/2014	a) Infrastructure Management	
	b) Convergence Technology	
	c) Open Elective (Self Study)	

M.E. (Computer) (Computer Networks) (2013 Credit Pattern) (Sem. III)

Day & Date	2013 (Credit Pattern) (Sem. III)	
Monday,	Advanced TCP / IP (610201)	
15/12/2014		
Thursday,	System Operations and Maintenance (610202)	
18/12/2014		
Monday,	Elective – III (610203)	
22/12/2014		

M.E. (Chemical) (2008 Pattern & 2013 Credit Pattern) (Sem. I)

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

Day & Date	2008 Pattern (Sem. I)	2013 (Credit Pattern) (Sem. I)
Friday, 12/12/2014	Applied Statistics for Chemical Engineers (509101)	Mathematical and Statistical Methods (509101)
Tuesday, 16/12/2014	Management of R & D in Chemical Industries (509102)	Process Optimization (509102)
Friday, 19/12/2014	Advanced Separation Processes (509103)	Advanced Separation Processes (509103)
Tuesday, 23/12/2014	Elective-I (509104) a) Computational Fluid Dynamics b) Process Design & Synthesis c) Advanced Thermodynamics d) Computer Aided Design	Research Methodology (509104)
Friday, 26/12/2014	Elective-II (509105) a) Industrial Pollution Control b) Process Optimization c) Drugs & Pharmaceutical Engineering d) Fluidization Engineering	Elective – I (509105)

M.E. (Chemical) (2008 Pattern & 2013 Credit Pattern) (Sem. II)

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

Day & Date	2008 Pattern (Sem. II)	2013 (Credit Pattern) (Sem. II)
Saturday,	Process Modeling and Simulation (509108)	Advanced Transport Phenomena (509107)
13/12/2014		
Wednesday,	Advanced Transport Phenomena (509109)	Advanced Process Control (509108)
17/12/2014		
Saturday,	Advanced Process Control (509110)	Advanced Reaction Engineering (509109)
20/12/2014		
Wednesday,	Elective – III (509111)	Elective – II (509110)
24/12/2014	a) Catalysis and Surface Phenomenon	
	b) Advanced Reaction Engineering	
	c) Mathematical Methods in Chemical Engineering	
	d) Bioprocess Engineering	
Saturday,	Elective – IV OPEN (509112)	
27/12/2014	a)Catalysis and Surface Phenomenon	
	b)Process Optimization	
	c)Fuel Cells Technology	

M.E. (Chemical) (2013 Credit Pattern) (Sem. III)

Day & Date	2013 (Credit Pattern) (Sem. III)	
Monday, 15/12/2014	Process Modeling and Simulation (509113)	
Thursday, 18/12/2014	Advanced Thermodynamics (509114)	
Monday, 22/12/2014	Elective – III (509115)	

M.E. (Chemical) (Environmental Engineering)(2008 Pattern & 2013 Credit Pattern) (Sem. I)

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

Day & Date	2008 Pattern (Sem. I)	2013 (Credit Pattern) (Sem. I)
Friday, 12/12/2014	Applied Statistics for Environmental Engineers (509131)	Applied Statistics for Environmental Engineers (509131)
Tuesday, 16/12/2014	Environmental Geosciences (509132)	Environmental Management (509132)
Friday, 19/12/2014	Environmental Chemistry (509133)	Environmental Chemistry (509133)
Tuesday, 23/12/2014	Elective-I (509134) a) Modeling of Environmental Systems b) Groundwater Contamination and Pollution Transport. c) Environmental Policies and Legislations d) Air and Noise Pollution Control	Research Methodology (509134)
Friday, 26/12/2014	Elective-II (509135) a) Membrane Technology in Environmental Engineering b) Environmental Auditing and EMS c) Agricultural Pollution and control d) Environmental Impact Assessment and Economics	Elective – I (509135)

M.E. (Chemical) (Environmental Engineering)(2008 Pattern & 2013 Credit Pattern) (Sem. II)

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

Day & Date	2008 Pattern (Sem. II)	2013 (Credit Pattern) (Sem. II)
Saturday, 13/12/2014	Wastewater Treatment & Design (509138)	Wastewater Treatment and Design (509137)
Wednesday, 17/12/2014	Solid Waste Management (509139)	Solid Waste Management (509138)
Saturday, 20/12/2014	Industrial Waste Treatment (509140)	Industrial Waste Treatment (509139)
Wednesday, 24/12/2014	Elective III (509141) a) Ecology and Risk Assessment b) Water Quality Modeling c) Modern Trends in Environmental Engineering d) Environmental Biotechnology	Elective – II (509140)
Saturday, 27/12/2014	Elective IV (OPEN) (509142) Ground Water Contamination & Pollution Control	

M.E. (Chemical) (Environmental Engineering) (2013 Credit Pattern) (Sem. III)

Day & Date	2013 (Credit Pattern) (Sem. III)
Monday, 15/12/2014	Remote Sensing & GIS Applications in Environmental Engineering (509143)
Thursday, 18/12/2014	Industrial Pollution Prevention & Cleaner Production (509144)
Monday, 22/12/2014	Elective – III (509145)

M.E. (Petroleum Engineering) (2008 Pattern & 2013 Credit Pattern) (Sem. I)

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

Day & Date	2008 Pattern (Sem. I)	2013 (Credit Pattern) (Sem. I)
Friday,	Numerical Methods & Simulation in Petroleum	Numerical Simulation in Petroleum Engineering
12/12/2014	Engineering (512101)	(512101)
Tuesday,	Petroleum Reservoir Management (512102)	Geology in Reservoir Description (512102)
16/12/2014		
Friday,	Horizontal Multilateral & Intelligent Wells (512103)	Advanced Drilling Engineering (512103)
19/12/2014		
Tuesday,	Elective-I (512104)	Research Methodology (512104)
23/12/2014	a) Advanced Geological Methods in Petroleum	
	Exploration & Development	
	b) Reservoir Petro-physics	
	c) Oil & Gas Field Development	
	d) Petroleum Business Strategies & Risk Analysis	
Friday,	Elective-II (512105)	Elective – I (512105)
26/12/2014	a) Modern Completion Technology	, , ,
	b) Well Design & Engineering	
	c) Well Testing & Analysis	
	d) Well control	

M.E. (Petroleum Engineering) (2008 Pattern & 2013 Credit Pattern) (Sem. II)

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

Day & Date	2008 Pattern (Sem. II)	2013 (Credit Pattern) (Sem. II)
Saturday, 13/12/2014	GIS and Computer Applications in Petroleum Industry (512108)	Advanced Reservoir Engineering (512107)
Wednesday, 17/12/2014	Environmental Management Technology and Safety Measures (512109)	Environmental Technology in Petroleum Engineering (512108)
Saturday, 20/12/2014	Advanced Natural Gas Engineering (512110)	Advanced Production Engineering (512109)
Wednesday, 24/12/2014	Elective – III (512111) a) Artificial Lift Techniques b) Advanced Stimulation Techniques c) Piping Design and Engineering	Elective – II (512110)
Saturday, 27/12/2014	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	

M.E. (Petroleum Engineering) (2013 Credit Pattern) (Sem. III)

Day & Date	2013 (Credit Pattern) (Sem. III)
Monday, 15/12/2014	Advanced Well Testing (512113)
Thursday, 18/12/2014	Advanced Well Control (512114)
Monday, 22/12/2014	Elective – III (512115)

M.E. (Petrochemical Engineering) (2013 Credit Pattern) (Sem. I)

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

Day and Date	M.E. Petrochemical Engineering (2013 Credit Pattern) (Sem. I)
Friday, 12/12/2014	Recent Trends in Petroleum Refining Operations (512201)
Tuesday, 16/12/2014	Advanced Transport Phenomena (512202)
Friday, 19/12/2014	Advanced Numerical and Statistical Methods (512203)
Tuesday, 23/12/2014	Research Methodology (512204)
Friday, 26/12/2014	Elective – I (512205)

M.E. (Petrochemical Engineering) (2013 Credit Pattern) (Sem. II)

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

Day and Date	M.E. Petrochemical Engineering (2013 Credit Pattern) (Sem. II)
Saturday, 13/12/2014	Applied Process Design and Synthesis (512207)
Wednesday, 17/12/2014	Safety, Health and Environment in Petrochemical Plants (512208)
Saturday, 20/12/2014	Advanced Process Control (512209)
Wednesday, 24/12/2014	Elective – II (512210)

M.E. (Petrochemical Engineering) (2013 Credit Pattern) (Sem. III)

Day and Date	M.E. Petrochemical Engineering (2013 Credit Pattern) (Sem. III)
Monday, 15/12/2014	Advanced in Petrochemical Processes (512213)
Thursday, 18/12/2014	Advanced in Process Optimization (512214)
Monday, 22/12/2014	Elective – III (512215)

M.E. (Information Technology) (2008 Pattern & 2013 Credit Pattern) (Sem. I)

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

Day & Date	2008 Pattern (Sem. I)	2013 (Credit Pattern) (Sem. I)
Friday,	Applied Algorithms (514421)	Mathematical Foundation of Information
12/12/2014		Technology (514401)
Tuesday,	Software Engineering Methodologies (514402)	Applied Algorithms (514402)
16/12/2014		
Friday,	Advance Operating Systems (514403)	Advance Operating System (514403)
19/12/2014		
Tuesday,	Elective-I (514422)	Research Methodology (514404)
23/12/2014	a) Software Architecture(514404)(A)	
	b) Real Time & Embedded System (514404)(B)	
	c) Bioinformatics (514422)(C)	
Friday,	Elective-II (514423)	Elective – I (514405)
26/12/2014	a) Information Assurance & Security (514405)(A)	, ,
-	b) Network Programming (514422)(B)	
	c) Geographical Information Systems (514405)(C)	

M.E. (Information Technology) (2008 Pattern & 2013 Credit Pattern) (Sem. II)

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

Day & Date	2008 Pattern (Sem. II)	2013 (Credit Pattern) (Sem. II)
Saturday,	Net centric Computing (514426)	Wireless Communication Technologies (514407)
13/12/2014		
Wednesday,	Advance Trends in Database Systems (514409)	Advanced Database Systems (514408)
17/12/2014		
Saturday,	Management Trends in Information Technology	Advance Computer Architecture (514409)
20/12/2014	(514427)	
Wednesday,	Elective – III (514428)	Elective – II (514410)
24/12/2014	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)	
Saturday,	Elective – IV (514439)	
27/12/2014	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. (Information Technology) (2013 Credit Pattern) (Sem. III)

Day & Date	2013 (Credit Pattern) (Sem. III)
Monday, 15/12/2014	Information Assurance and Security (514413)
Thursday, 18/12/2014	Network Programming (514414)
Monday, 22/12/2014	Open Elective (514415)

M.E. (Industrial Engineering) (2008 Pattern & 2013 Credit Pattern) (Sem. I)

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

Day & Date	2008 Pattern (Sem. I)	2013 (Credit Pattern) (Sem. I)
Friday, 12/12/2014	Economics (511201)	Economics (511201)
Tuesday, 16/12/2014	Work Study & Ergonomics (511202)	Work Study & Ergonomics (511202)
Friday, 19/12/2014	Optimization Techniques & Simulation Modeling (511203)	Optimisation Techniques and Simulation (511203)
Tuesday, 23/12/2014	Elective-I (511204) a) Marketing Management b) Human Resource Management c) Entrepreneurship Development d) World Class Manufacturing	Environmental Engineering & Energy Resoruce Management (511204)
Friday, 26/12/2014	Elective-II (511205) a) Facilities planning b) Network & Project Management c) Enterprise Resource Planning & Supply Chain Management d) System Engineering	Elective – I (511205)

M.E. (Industrial Engineering) (2008 Pattern & 2013 Credit Pattern) (Sem. II)

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

Day & Date	2008 Pattern (Sem. II)	2013 (Credit Pattern) (Sem. II)
Saturday, 13/12/2014	Reliability Engineering & Research Methodology (511208)	Reliability Engineering & Research Methodology (511208)
Wednesday, 17/12/2014	Costing & Finance (511209)	Costing & Finance (511209)
Saturday, 20/12/2014	Productivity Management (511210)	Productivity Management (511210)
Wednesday, 24/12/2014	Elective – III (511211) a) Human Factors Engineering b) Process Planning & Manufacturing Engineering' c) Management of Service Sector d) Industrial & Commercial law	Elective – II (511211)
Saturday, 27/12/2014	Elective IV – OPEN (511212) a) Organizational Behavior b) Operations Management c) Product Design & Intellectual Property Rights d) Environmental Engineering & Energy Management.	

M.E. (Industrial Engineering) (2013 Credit Pattern) (Sem. III)

Day & Date	2013 (Credit Pattern) (Sem. III)
Monday, 15/12/2014	Organizational Behavior (611201)
Thursday, 18/12/2014	Operations Management (611202)
Monday, 22/12/2014	Elective – III (611203)

M.E. (Instrumentation & Control) (Process Instrumentation & Biomedical Instrumentation) (2008 Pattern) (Sem. I)

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

Day &	2008 Pattern (Sem. I)
Date	
Friday, 12/12/2014	Transducer Design (506101)
Tuesday, 16/12/2014	Mathematical Methods in Instrumentation (506102)
Friday, 19/12/2014	Communication Protocols for Instrumentation (506103)
Tuesday, 23/12/2014	Analytical Instrumentation (506104)
Friday, 26/12/2014	Elective: I (5061105) a)Industrial Automation (506105) b)Building Automation (506105) c)Geotechnical Instrumentation (506105) Biomedical Instrumentation (5061201) a)Fundamentals of Biomedical Instrumentation(5061201)
	b)Introduction to Physiology and Anatomy (5061201)

M.E. (Instrumentation & Control) (Process Instrumentation & Biomedical Instrumentation) (2008 Pattern) (Sem. II)

Day &	2008 Pattern (Sem. II)
Date	
Saturday, 13/12/2014	Control System Design (5061108)
Wednesday, 17/12/2014	Advanced Signal Processing (5061109)
Saturday, 20/12/2014	Organisational Behaviour & Management (5061110)
Wednesday,	<u>Elective : II (5061111)</u>
24/12/2014	a) Modern Control Theory ((5061111)
	b) Mechatronics (5061111)
	c) Robotics (5061111)
	Biomedical Instrumentation(5061204)
	a) Biosignal Processing (5061204)
	b) Rehabilitation Engineering (5061204)
Saturday,	Elective : III (5061112)
27/12/2014	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

M.E. (Instrumentation & Control) (Process Instrumentation & Biomedical Instrumentation) (2013 Credit Pattern) (Sem. I)

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

Day & Date	Process Instrumentation – 2013 Credit Pattern (Sem. I)	Biomedical Instrumentation 2013 (Credit Pattern) (Sem. I)
Friday, 12/12/2014	Mathematical Methods in Instrumentation (506101) (Common to Bio-Medical Instrumentation)	Mathematical Methods in Instrumentation (506101) (Common to Process Instrumentation)
Tuesday, 16/12/2014	Transducer Design (506102)	Bio-Signal Processing (506202)
Friday, 19/12/2014	Industrial Automation (506103)	Analytical Instrumentation (506203)
Tuesday, 23/12/2014	Research Methodology (506104) (Common to Bio-Medical Instrumentation)	Research Methodology (506104) (Common to Process Instrumentation)
Friday, 26/12/2014	Elective – I (506105)	Elective – I (506205)

M.E. (Instrumentation & Control) (Process Instrumentation & Biomedical Instrumentation) (2013 Credit Pattern) (Sem. II)

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

Day & Date	Process Instrumentation – 2013 Credit Pattern (Sem. II)	Biomedical Instrumentation 2013 (Credit Pattern) (Sem. II)
Saturday, 13/12/2014	Advanced Process Control (506107)	Transducer Design (506207)
Wednesday, 17/12/2014	Embedded System Design (506108)	Digital Image Processing (506208)
Saturday, 20/12/2014	Advanced Control System (506109)	Communication Protocols for Instrumentation (506209)
Wednesday, 24/12/2014	Elective – II (506110)	Elective – II (506210)

M.E. (Instrumentation & Control) (Process Instrumentation & Biomedical Instrumentation)

(2013 Credit Pattern) (Sem. III)

Day & Date	Process Instrumentation – 2013 Credit Pattern	Biomedical Instrumentation
	(Sem. III)	2013 (Credit Pattern) (Sem. III)
Monday, 15/12/2014	Advanced Signal Processing (606101)	Medical Imaging Techniques (606201)
Thursday, 18/12/2014	Building Automation (606102)	Advanced Digital Signal Processing (606202)
Monday, 22/12/2014	Elective – III (606103)	Elective – III (606103)

M.E. (Polymer) (2008 Pattern & 2013 Credit Pattern) (Sem. I)

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

Day & Date	2008 Pattern (Sem. I)	2013 (Credit Pattern) (Sem. I)
Friday, 12/12/2014	Mathematical and Statistical Methods (509115)	Mathematical and Statistical Methods (509115)
Tuesday, 16/12/2014	Principles of Management (509116)	Principles of Management (509116)
Friday, 19/12/2014	Polymer Processing and Testing (509117)	Advanced Polymer Technology (509117)
Tuesday, 23/12/2014	Elective I : (509118) a) Polymer Reaction Engineering b) Transport Phenomena in Polymers c) Synthesis and Chemistry of Polymers	Research Methodology (509118)
Friday, 26/12/2014	Elective II : (509119) a)Polymer Rheology b)Mold and Die Design c)Packaging Technology	Elective – I (509119)

M.E. (Polymer) (2008 Pattern & 2013 Credit Pattern) (Sem. II)

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

Day & Date	2008 Pattern (Sem. II)	2013 (Credit Pattern) (Sem. II)
Saturday,	Polymer Physics and Characterization (509122)	Polymer Processing and Testing (509121)
13/12/2014		
Wednesday,	Polymer Structure and Properties (509123)	Polymer Physics and Characterization (509122)
17/12/2014		
Saturday,	Processing and Mechanics of Composites (509124)	Polymer Structure and Properties (509123)
20/12/2014		,
Wednesday,	Elective – III: (509125)	Elective – II (509124)
24/12/2014	a) Science and Engineering of Fibers	
	b) Polymer Product Design	
	c) Specialty Polymer Materials	
Saturday,	Elective - IV : (509126) (Open)	
27/12/2014	a) Paints and Adhesives Elective IV	
	b) Elastomer Technology	
	C) Open Elective	

M.E. (Polymer) (2013 Credit Pattern) (Sem. III)

Day & Date	2013 (Credit Pattern) (Sem. III)
Monday,	Polymer Rheology (509127)
15/12/2014	
Thursday,	Transport Phenomenon in Polymers (509128)
18/12/2014	
Monday,	Elective – III (509129)
22/12/2014	

M.E. (Printing) (2008 Pattern & 2013 Credit Pattern) (Sem. I)

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

Day & Date	2008 Pattern (Sem. I)	2013 (Credit Pattern) (Sem. I)
Friday, 12/12/2014	Probability, Statistics & Queuing Theory (508101)	Probability , Statistics and Regression Analysis (508101)
Tuesday, 16/12/2014	Printing Technology Management (508102)	Printing Technology Management (508102)
Friday, 19/12/2014	Modern Trends in Printing (508103)	Modern Trends in Printing (508103)
Tuesday, 23/12/2014	Elective-I (508104) a) Workflow Management in Printing Industry b) Printing & Packaging Materials c) Design of Experiments & Research Methodology	Research Methodology (508104)
Friday, 26/12/2014	Elective-II (508105) a) Digital Printing b) Entrepreneurship in Printing & Allied Fields c) Quality Control Systems & Productivity	Elective – I (508105)

M.E. (Printing) (2008 Pattern & 2013 Credit Pattern) (Sem. II)

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

Time: 2:00 pini: to 0:00 pini:				
Day & Date	2008 Pattern (Sem. II)	2013 (Credit Pattern) (Sem. II)		
Saturday, 13/12/2014	Print Media Communications (508108)	Colour Science (508107)		
Wednesday, 17/12/2014	Web Handling on Press (508109)	Web Handling on Press (508108)		
Saturday, 20/12/2014	Substrate and Ink (508110)	Substrate and Ink (508109)		
Wednesday, 24/12/2014	Elective – III: (508111) a) Multimedia Systems and Communication b)Total Productive Maintenance in Printing c) Press Finger Printing	Elective – II (508110)		
Saturday, 27/12/2014	Elective – IV (508112) a)Open Elective (Self study) b)Advances in Converting and Packaging c)Analysis of Spot and Process inks			

M.E. (Printing) (2008 Pattern & 2013 Credit Pattern) (Sem. III)

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

Day & Date	2013 (Credit Pattern) (Sem. III)
Monday, 15/12/2014	Printed Electronics and RFID (608101)
	A L
Thursday,	Advances in Converting and Packaging (608102)
18/12/2014	
Monday,	Elective – III (608103)
22/12/2014	

University of Pune Ganeshkhind, Pune-411007 Ref. No. XCT/985

Date: 14/10/2014

Dr.V.B.Gaikwad Controller of Examinations