



SHIVAJI UNIVERSITY, KOLHAPUR.

Circular No. 126 Exam of May, - 2012

Final Programme of the **F.E. to B.E. SEM.-I to SEM.-VIII Examinations** in the Branches Civil/ Mechanical/ Electrical/ Electronics/ Chemical/ Production/ Electronics and Tele-Comm./ Instrumentation/ Environmental/ Automobile/ Computer/ Information Technology/ Biotechnology/ Electrical & Electronics to be held in **May. - 2012.**

1. The candidates are requested to be present at their respective place of examination FIFTEEN MINUTES before the time appointed for setting of the First paper and TEN MINUTES before the time of setting of each subsequent paper. They are forbidden to take any book or paper into the Examination Hall.

2. The Written, Practical and Oral Examinations will be held at the following places.

No	Centre	Place
1	ASHTA	Annasaheb Dange, College of Engg. & Tech., Ashta
2	KARAD	Govt. College of Engineering, Karad
3	KOLHAPUR	Bharthi Vidyapeeth College of Engineering, Kolhapur.
4		D. Y. Patil College of Engg. & Tech., Kolhapur
5		KIT's College of Engineering, Kolhapur
6	JAYSINGPUR	J. J. Magdum College of Eng. Jaysingpur
7	BUDHAGAON	P.V.P. Institute of Technology, Budhagaon.
8	SAKHARALE	Rajarambapu Institute of Tech. College of Eng. Sakharale
9	SATARA	K.B.P. College of Eng. & Polytechnic, Satara
10	ICHALKARANJI	D.K.T.E.'s Textile & Engg. Inst. Ichalkaranji
11	WARANANAGAR	Tatyasaheb Kore Inst. of Eng. & Tech. Warananagar
12	SANGLI	Shri Ambabai Talim, College of Engg & Tech, Wanlesswadi Miraj
13	SOLAPUR	H. N. College, Solapur.
14	PANDHARPUR	H. N. College, Solapur..
15	RAIGAON	Late NBC Institute of Engg & Tech., Raigaon (Satara)
16	LIMB	Satara College of Engg. & Mgt. Limb, Tal:/Dist: Satara.
17	BANAWADI	Dr. Daulatrao Aher College of Engg. Banawadi
18	VITA	Adarsh Inst. of Tech.& Research Centre, Vita, Dist: Sangli
19	Yadrav	Sharad Institute of Tech's College of Engg Yadrav, Tal: Shirol,
20	Wadwadi	Abhinav Edu.Society, College of Engg & Tech, Wadwadi, Khandala
21	Atigre	Sou.S.D. Ghodawat Charitable Trust's Group of Insti, Atigre
22	Panhala	Sanjeevan Engineering & Technology, Institute, Panhala,
23	Miraj	Shri Ambabai Talim, College of Engg & Tech, Wanlesswadi Miraj
24	Vathar-tarf – Vadgaon	Shri. Balasaheb Mane Shikshan Prasarak Mandal, Group of Institutions, Vathar-Tarf-Wadgaon,
25	Kille Machindragad	Jaywant College of Engg. & Mgt., Walva, Kille Machindragad.
26	Panmalewadi, Post : Varye,	Arvind Gavali College of Engineering, Panmalewadi, Post : Varye, Tal/Dist: Satara.
27	Vikaswadi, Tal.-Kagal	Dhananjay Mahadik Group of Institutions, 209/A, NH-4, Vikaswadi, Kagal, Kolhapur
28	Talsande, Tal.-Hatkanangale	D.Y. Patil Education Society's, D.Y. Patil Technical Campus, Talsande, Tal: Hatkanangale, Dist: Kolhapur.
29	Thakurki, Tal.- Phaltan	Phaltan Education Society's Colege of Engineering, Sr.No. 31, A/p: Thakurki, Tal: Phaltan, Dist: Satara.
30	Wadhe, Satara	Yashoda Technical Campus, Faculty of Engg, Wadhe, Satara.
31	Peth, Tal.- Walwa	Nanasaheb Mahadik College of Engineering Peth,
32	Kavalapur	Vishnuanna Patil Institute of Engg & Tech. A/p: Kavalapur,

3. The written examination will be conducted in the following order:

(P.T.O)

F.E. SEM.-I

Day & Date	Time: 10.00 am. to 01.00 pm.	09.00 a.m. To 01.00 pm.
Tuesday 15.05.2012	Engineering Mathematics – I (40903)	----
Wednesday 16.05.2012	Applied Mechanics (40904)	----
Thursday 17.05.2012	Basic Electronics and Computer Programming in 'C' (40906)	----
Friday 18.05.2012	----	Engineering Graphics (40905)
Saturday 19.05.2012	Engineering Physics (Common For F.E. Sem. I & II) (40901)	
Monday 21.05.2012	Engineering Chemistry (Common For F.E. Sem. I & II) (40902)	

F.E. SEM.-II

Day & Date	Time: 10.00 am. to 01.00 pm.	
Saturday 19.05.2012	Engineering Physics (Common For F.E. Sem. I & II) 40901	----
Monday 21.05.2012	Engineering Chemistry (Common For F.E. Sem. I & II) 40902	----
Thursday 24.05.2012	Engineering Mathematics- II 41410	----
Saturday 26.05.2012	Basic Civil Engineering 41411	----
Tuesday 29.05.2012	Basic Mechanical Engineering 41412	----
Thursday 31.05.2012	Basic Electrical Engineering 41413	----

(P.T.O)

S.E. SEM. – III (From Dec., 2008)
(Time: : 02..30 pm. To 05.30 pm)

Day & Date	Branch	Paper
Monday 07.05.2012	Civil	Engineering Maths- III (42654)
	Environmental	Environmental Chemistry (43200)
	Mechanical	Engineering Maths- III (42660)
	Automobile	Engineering Maths- III (42667)
	Electrical	Engineering Maths- III (42707)
	Electronics	Engineering Maths- III (42675)
	Chemical	Engineering Maths- III (42721)
	Production	Engineering Maths- III (42687)
	Instrumentation	Applied Engineering Maths. (42694)
	Electronics & Tele-Communication	Engineering Maths- III (42727)
	Computer Science & Engineering	*Switching Theory (46031) For repeater students
	Information Technology	Applied Maths – I (42701)
	Bio-Technology	Engineering Maths- III (42714)
Electrical & Electronics	Engineering Maths- III (50183)	

(P.T.O)

S.E. SEM. – III (From Dec., 2008)
(Time: : 02..30 pm. To 05.30 pm)

Day & Date	Branch	Paper
Tuesday 08.05.2012	Civil	Surveying- I (42655)
	Environmental	Engineering Mathematics- III (43201)
	Mechanical	Applied Thermodynamics (42661)
	Automobile	Engineering Thermodynamics (42668)
	Electrical	Analog Electronics (42708)
	Electronics	Electrical Machines (42676)
	Chemical	Chemistry- I (42722)
	Production	Machine Drawing (42688) <u>(Time: 01.30 pm. To 05.30 pm)</u>
	Instrumentation	Electrical Machines (42695)
	Electronics & Tele-Communication	Electrical Machines & Measurements (42728)
	Computer Science & Engineering	Discrete Mathematical Structures (42682) Written- 01.30 pm to 03.30 pm Online- 04.00 pm to 05.00 pm O M R- 05.00 pm to 06.00 pm
	Information Technology	Data Structure & Algorithms (42702)
	Bio-Technology	Microbiology (42715)
Electrical & Electronics	Digital Electronics & Linear Integrated Circuits (50184)	

(P.T.O)

S.E. SEM. – III (From Dec., 2008)
(Time: : 02..30 pm. To 05.30 pm.)

Day & Date	Branch	Paper
Friday 11.05.2012	Civil	---
	Environmental	Ecology & Environmental Sanitation (43204)
	Mechanical	Manufacturing Processes (42664)
	Automobile	----
	Electrical	----
	Electronics	----
	Chemical	----
	Production	----
	Instrumentation	----
	Electronics & Tele- Communication	----
	Computer Science & Engineering	Applied Maths. (42681) Written- 01.30 pm to 03.30 pm Online- 04.00 pm to 05.00 pm O M R- 05.00 pm to 06.00 pm
	Information Technology	----
	Bio-Technology	----
	Electrical & Electronics	Electrical Circuit Analysis (50185)

S.E. SEM. – III (From Dec., 2008)
(Time: : 02..30 pm. To 05.30 pm.)

Day & Date	Branch	Paper
Saturday 12.05.2012	Civil	Fluid Mechanics- I (42658)
	Environmental	-----
	Mechanical	Fluid Mechanics (42665)
	Automobile	Electrical Technology (42671)
	Electrical	Generation & Its Economics (42711)
	Electronics	Data Structures & Algorithms (42679)
	Chemical	Mechanical Operations (42725)
	Production	Machine Tools & Processes (42691)
	Instrumentation	Electronic Device & Circuits (42698)
	Electronics & Tele-Communication	Digital Design (42731)
	Computer Science & Engineering	Digital Systems & Microprocessors (42685) Written- 01.30 pm to 03.30 pm Online- 04.00 pm to 05.00 pm O M R- 05.00 pm to 06.00 pm
	Information Technology	Multimedia Techniques (42705)
	Bio-Technology	Unit Operations – I (42718)
	Electrical & Electronics	Electrical Circuit Analysis & Design (50186)
Wednesday 16.05.2012	Civil	* Computer Programming C++ (36287) (As per old course – up to May 2012)
	Mechanical	*Computer Programming C++ (36192) (Time: 02.30 pm. To 04.30 pm.) (As per old course – up to May 2012)
	Production	* Computer Programming C++ (36201) (Time: 02.30 pm. To 04.30 pm.) (As per old course – up to May 2012)
	Computer Science & Engineering	*Mathematics for Computer Science (46030)

(P.T.O)

S.E. SEM. – III (From Dec., 2008)
(Time: : 02..30 pm. To 05.30 pm.)

Day & Date	Branch	Paper
Monday 14.05.2012	Civil	Structural Mechanics- I (42656)
	Environmental	Surveying Remote Sensing & GIS (43202)
	Mechanical	Electrical Technology & Computer Programming C++ (42662)
	Automobile	Fluid Mechanics (42669)
	Electrical	Electrical Circuit Analysis (42709)
	Electronics	Electronic Circuit Analysis & Design – I (42677)
	Chemical	SOM & MOC (42723)
	Production	Thermal Engineering (42689)
	Instrumentation	Electrical Measurements & Instruments (42696)
	Electronics & Tele-Communication	Analog Electronic Circuits & Design – I (42729)
	Computer Science & Engineering	Data Structures (42683) Written- 01.30 pm to 03.30 pm Online- 04.00 pm to 05.00 pm O M R- 05.00 pm to 06.00 pm
	Information Technology	Digital System & Microprocessor (42703)
	Bio-Technology	Cell Biology (42716)
Electrical & Electronics	Power Systems – I (50187)	

(P.T.O)

S.E. SEM. – III (From Dec., 2008)
(Time: : 02..30 pm. To 05.30 pm.)

Day & Date	Branch	Paper
Tuesday 15.05.2012	Civil	Building Construction (42657) (01.30 pm. To 05.30 pm.)
	Environmental	Fluid Mechanics (43203)
	Mechanical	Machine Drawing (42663) (01.30 pm. To 05.30 pm.)
	Automobile	Engineering Materials (42670)
	Electrical	DC machines & Transformers (42710)
	Electronics	Network Analysis (42678)
	Chemical	Fluid Mechanics (42724)
	Production	Electrical Technology & Industrial Electronics (42690)
	Instrumentation	Circuit Theory & Analysis (42697)
	Electronics & Tele- Communication	Linear Circuits (42730)
	Computer Science & Engineering	Computer Networks- I (42684) Written- 01.30 pm to 03.30 pm Online- 04.00 pm to 05.00 pm O M R- 05.00 pm to 06.00 pm
	Information Technology	Theory of Computer Science (42704)
	Bio-Technology	Macro molecules Biomembrances (42717)
Electrical & Electronics	_____	

(P.T.O)

S.E. SEM. – IV (Environmental Engineering)**(Time: 10.00 am to 01.00 am.)**

Day & Date	Branch	Paper	
Wednesday 16.05.2012	Environmental	Environmental Microbiology	41542
Friday 18.05.2012	Environmental	Environmental Chemo Dynamics	41543
Monday 21.05.2012	Environmental	Environmental Geology and Hydrology	41544
Wednesday 23.05.2012	Environmental	Ecology & Environmental Sanitation	41545
Friday 25.05.2012	Environmental	Water Supply Engineering	41546
Monday 28.05.2012	Environmental	Environment Resources & Energy (Time: <u>10.00 am to 12.00 noon.</u>)	41547

(P.T.O)

S.E. SEM. – IV (From May 2009) (Time: 10.00 am. to 01.00 pm.)

Day & Date	Branch	Paper	
Sunday 13.05.2012	All Branches	Environmental Studies (Time: 11.00 am. To 02.00 pm.)	39507
Day & Date	Paper with Branches		
Wednesday 16.05.2012	Civil	Structural Mechanics-II	(43586)
	Environmental	Environmental Microbiology	(43669)
	Mechanical	Analysis of Mech Elements	(43592)
	Automobile	Programming & Computational Methods	(43600)
	Electrical	Signals & systems	(43643)
	Electronics	Electronic Circuit Analysis & Design –II	(43608)
	Chemical	Engg. Maths-IV	(43656)
	Production	Advanced Machine Tools & Processes	(43621)
	Instrumentation	Digital systems & Micro processes	(43629)
	Electro & Tele Com.	Analog Electronic Circuits & Design- II	(43663)
	Computer Sci. & Engg.	Automata Theory	(43614)
		Written- 10.00 am to 12.00 pm Online- 12.30 pm to 01.30 pm O M R- 01.30 pm to 02.30 pm	
	Information Tech.	Applied Mathematics- II	(43636)
	Biotechnology	Biostatistics	(43649)
Electrical & Electronics	Electric Machine - I	(51184)	
Friday 18.05.2012	Civil:	Surveying –II	(43587)
	Environmental:	Environmental Geology	(43670)
	Mechanical:	Numerical Methods	(43593)
	Automobile:	Kinematics of Machines (Time: 10.00 am to 02.00 pm.)	(43601)
	Electrical	A.C. Machines	(43644)
	Electronics:	Analog Communication	(43609)
	Chemical:	Chemistry- II	(43657)
	Production:	Foundry Technology	(43622)
	Instrumentation:	Automatic Control systems	(43630)
	Electro & Tele Com.	Electronics Communication Systems	(43664)
	Computer Sci. & Engg.	Computer Networks-II	(43615)
		Written- 10.00 am to 12.00 pm Online- 12.30 pm to 01.30 pm O M R- 01.30 pm to 02.30 pm	
	Information Tech	Advanced Microprocessors	(43637)
	Biotechnology	Unit Operations- II	(43650)
Electrical & Electronics	Power Systems-II	(51485)	

S.E. SEM. – IV (From May 2009)
(Time: 10.00 am. to 01.00 pm.)

Day & Date	Paper with Branches	
Monday 21.05.2012	Civil:	Engineering Geology (43588)
	Environmental:	Water Supply Engineering (43671)
	Mechanical:	Metallurgy (43594)
	Automobile:	Metallurgy & Metal Treatments (43602)
	Electrical	Industrial Management & Economics (43645)
	Electronics:	Signals & systems (43610)
	Chemical:	Process calculation (43658)
	Production:	Analysis of Machine Elements (43623)
	Instrumentation:	Sensors & Transducers (43631)
	Electronics & Tele Com.:	Microprocessor & Peripherals (43665)
	Computer Sci. & Engg.	Computer Organization (43616) Written- 10.00 am to 12.00 pm Online- 12.30 pm to 01.30 pm O M R- 01.30 pm to 02.30 pm
	Information Technology:	Data Communication (43638)
	Biotechnology	Enzyme Technology (43651)
	Electrical & Electronics	Electrical & Electronics Measurement (51186)
Wednesday 23.05.2012	Civil:	Building Design (43589) (Time: 10.00 am to 02.00 pm.)
	Environmental:	Environmental Chemo Dynamics (43672)
	Mechanical:	Machine Tool (43595)
	Automobile:	Fluid Machines (43603)
	Electrical	Electrical Measurement (43646)
	Electronics:	Digital Design (43611)
	Chemical:	Heat Transfer (43659)
	Production:	Welding Technology (43624)
	Instrumentation:	Thermal & Fluid Power Engineering (43632)
	Electronics & Tele Com.:	Data structures (43666)
	Computer Sci. & Engg.	Advanced Microprocessors (43617) Written- 10.00 am to 12.00 pm Online- 12.30 pm to 01.30 pm O M R- 01.30 pm to 02.30 pm
	Information Technology	Computer Organization & Architecture (43639)
	Biotechnology	Metabolic Pathways and their Regulations (43652)
	Electrical & Electronics	Signals and Systems (51187)
Workshop Practice- IV Practical-	i) Mechanical (43599) ii) Production (43627)	

(P.T.O)

S.E. SEM. – IV (From May 2009)
(Time: 10.00 am. to 01.00 pm.)

Day & Date	Paper with Branches	
Friday 25.05.2012	Civil:	Fluid Mechanics -II (43590)
	Environmental:	Energy & Environment (43673)
	Mechanical:	Theory of Machines - I (43596)
		(Time: 10.00 am to 02.00 pm.)
	Automobile:	Strength of Materials (43604)
	Electrical	Digital system & Microprocessor (43647)
	Electronics:	Electronics Measurement & Instrumentation (43612)
	Chemical:	Chemical Engg & Thermodynamics- I (43660)
	Production:	Theory of Machines – I (43625)
		(Time: 10.00 am to 02.00 pm.)
	Instrumentation:	Linear Integrated Circuits (43633)
	Electronics & Tele Com.:	Electromagnetic Fields (43667)
	Computer Sci. & Engg.	Software Engineering (43618) Written- 10.00 am to 12.00 pm Online- 12.30 pm to 01.30 pm O M R- 01.30 pm to 02.30 pm
	Information Technology:	Software Engineering (43641)
Biotechnology	Molecular Biology (43653)	
Electrical & Electronics	Microprocessors and Peripherals (51188)	
Monday 28.05.2012	Civil:	--
	Environmental:	--
	Mechanical:	Fluid & Turbo Machinery (43597)
	Automobile:	Manufacturing Processes (43605)
	Electrical	Linear Algebra (36438)
	Electronics:	Integrated Circuits & Applications (46644)
	Chemical:	--
	Production:	--
	Instrumentation:	--
	Electronics & Tele Com.:	--
	Computer Sci. & Engg.	--
	Information Technology	--
	Biotechnology	--
	Electrical & Electronics	---
Workshop Practice- IV Practical-	i) Mechanical (43599) ii) Production (43627)	

(P.T.O)

T.E. SEM. – V (New course) From Dec. 2009**(Time: 10.00 am to 01.00 pm)**

Day & Date	Paper with Branches		
Monday 07.05.2012	1) Civil:	Designs of Steel Structures	(45536)
	2) Environmental:	Waste Water Engineering	(42958)
	3) Mechanical:	Theory of Machines-II	(45549)
	4) Automobile:	Dynamics of Machines	(45656)
	5) Electrical:	Electromagnetic	(45576)
	6) Electronics:	Microprocessor Peripherals & Interfacing	(45589)
	7) Chemical:	Process Instrumentation & Instrumental Methods of Analysis	(45630)
	8) Production:	Metallurgy-I	(45615)
	9) Instrumentation:	Fiber Optics & Communication	(45643)
	10) Electronics & Tele Com.	Microcontroller	(45686)
	11) Computer Sci. & Engg.:	Computer Graphics Written- 10.00 am to 12.00 pm Online- 12.30 pm to 01.30 pm O M R- 01.30 pm to 02.30 pm	(45601)
	12) Information Technology:	Operating System - I	(45672)
	13) Biotechnology:	Biological Thermodynamics	(45698)
Tuesday 08.05.2012	1) Civil:	Geo-technical Engineering-I	(45537)
	2) Environmental:	Urban & Rural Planning	(42959)
	3) Mechanical:	Heat & Mass Transfer	(45550)
	4) Automobile:	Heat & Mass Transfer	(45657)
	5) Electrical:	Power System Analysis	(45577)
	6) Electronics:	Analog Integrated Circuits & Applications	(45590)
	7) Chemical:	Computer Techniques in Chemical Engg.	(45631)
	8) Production:	Theory of Machines-II	(45616)
	9) Instrumentation:	Advanced Control Systems	(45644)
	10) Electronics & Tele Com.	Signals & Systems	(45687)
	11) Computer Sci. & Engg.	System Programming	(45602)
	12) Information Technology:	Computer Network	(45673)
	13) Biotechnology:	Immunology	(45699)

(P.T.O)

T.E. SEM. – V (New course) From Dec. 2009
(Time: 10.00 am to 01.00 pm)

Day & Date	Paper with Branches	
Friday 11.05.2012	1) Civil:	Environmental Engineering-I (45540)
	2) Environmental:	Green Building (42962)
	3) Mechanical:	Manufacturing Engineering (45565) (Time: 10.00 am. To 02.00 pm.)
	4) Automobile:	Principles of Design & Component Design (45658)
	5) Electrical:	Digital Signal Processing (45580)
	6) Electronics:	Control System Engineering (45593)
	7) Chemical:	Chemical Equipment Design-I (45634)
	8) Production:	Metal Forming & Plastics Technology (45619)
	9) Instrumentation:	Analytical Instrumentation (45647)
	10) Electronics & Tele Com.:	Optical Communication & Net work (45690)
	11) Computer Sci. & Engg. :	Network Technologies (45605) Written- 10.00 am to 12.00 pm Online- 12.30 pm to 01.30 pm O M R- 01.30 pm to 02.30 pm
	12) Information Technology:	Organizational Management & Behavior (45676)
	13) Biotechnology:	Bioinformatics (45702)
Saturday 12.05.2012	1) Civil	* Engineering Management-I (37652) (As per old course – up to May 2012)
	2) Environmental	
	3) Mechanical:	Machine Design-I (45551)
	4) Automobile	---
	5) Electrical:	---
	6) Electronics:	* Computer Organizational and Processor Design (50343) (Replace subject for Computer Org. (37671))
	7) Chemical:	
	8) Production:	Metrology (45620)
	9) Instrumentation:	-----
	10) Electronics & Tele Com.:	Electronics Communication System (37719)
	11) Computer Sci. & Engg.	Computer Network Concepts* (40016) * Replace Subject for Pre-revised Repeaters
	12) Information Tech:	Digital Communication Concepts (37716)
	13) Biotechnology:	* Bio-statistics (37729) (As per old course – up to May 2013)

T.E. SEM. – V (New course) From Dec. 2009
(Time: 10.00 am to 01.00 pm)

Day & Date	Paper with Branches		
Monday 14.05.2012	1) Civil	Water Resources Engg.-I	(45538)
	2) Environmental:	Water Resources Engineering	(42960)
	3) Mechanical:	1) Control Engineering	(45566)
		2) Control Engineering	(48709)
	4) Automobile:	Metrology & Quality Control	(45659)
	5) Electrical:	Instrumentation Techniques	(45578)
	6) Electronics:	Digital System Design	(45591)
	7) Chemical:	Mass Transfer-I	(45632)
	8) Production:	Design of Machine Elements	(45617)
	9) Instrumentation:	Industrial Power Electronics	(45645)
	10) Electronics & Tele Com.:	Antennas and Wave Propagation	(45688)
	11) Computer Sci. & Engg.	Operating System-I	(45603)
	12) Information Technology:	Object Oriented Modeling and Design	(45674)
13) Biotechnology:	Fermentation Technology	(45700)	
Tuesday 15.05.2012	1) Civil:	Concrete Technology	(45539)
	2) Environmental:	Environmental Geotechnology	(42961)
	3) Mechanical:	Metrology & Quality Control	(45564)
	4) Automobile:	Automotive Transmission	(45660)
	5) Electrical:	Feedback Control Systems	(45579)
	6) Electronics:	Electromagnetic Engineering	(45592)
	7) Chemical:	Chemical Engg. Thermodynamics-II	(45633)
	8) Production:	Metal Cutting Technology	(45618)
	9) Instrumentation:	Unit Operation	(45646)
	10) Electronics & Tele Com.	Linear Integrated Circuits	(45689)
	11) Computer Sci. & Engg.:	Computer Algorithms	(45604)
	12) Information Technology:	System Software	(45675)
	13) Biotechnology:	Genetic Engineering	(45701)

(P.T.O)

T.E. Sem –V (Old Course) (Upto Dec.-2011)
(Time: 02.30 pm. To 05.30 pm.)

Subject continued from old course as per equivalence

Day & Date	Branch	Name of Paper	Code No.
Tuesday 31.5.2012	Electronics	Analog and Digital Communication (Replace subject for Communication Engg.II) (37672)	(50344)

T.E. SEM. – VI (Old Course)
(Time: 02.30 pm. To 05.30 pm.)

Subject continued from old course as per equivalence

Day & Date	Branch	Paper and Paper Code No.
Wednesday 30.5.2012	Automobile	Mechanical Measurement & Control (37790)
''	Electronics	Electronics Design Technology (50345) (Replace subject for Electronics System Design) (37753)
''	Instrumentation	Chemical & Analytical Instrumentation (37782)
''	Information Tech.	Image Processing Concepts (51323) (Replace subject for repeater students only)
''	Biotechnology	Bioinformatics (37814) (As per old course – up to May 2013)

Day & Date	Branch	Paper and Paper Code No.
Saturday 01.06.2012	Automobile	Automobile Systems II (37789)
''	Electronics	* Mobile & Satellite Communication (911)
''	Instrumentation	Unit Operation (37785)
	Workshop Practice-VI Practical	i) Mechanical (37743) ii) Production (37768)

*** Replaced subject for Pre-revised course for Repeater Candidates only**

(P.T.O)

T.E. SEM. – VI (New Course) From May 2010
(Time: 02.30 pm. To 05.30 pm.)

Day & Date	Paper with Branches		
Thursday 17.05.2012	1) Civil :	Structural Mechanic-III	(45542)
	2) Environmental :	Air Pollution-I	(43683)
	3) Mechanical :	Machine Design -II	(45568)
	4) Automobile :	Automotive Component Manufacturing	(45664)
	5) Electrical:	Pawar System Stebility and Control	(45583)
	6) Electronics:	Microcontrollers	(45595)
	7) Chemical :	Industrial Economics, Management & Entrepreneurship	(45636)
	8) Production:	Metallurgy-II	(45622)
	9) Instrumentation :	Microcontroller & Applications	(45649)
	10) Electronics & Tele Com.	Digital Signal Processing	(45692)
	11) Computer Sci. & Engg.:	-----	
	12) Information Tech. :	Database Engineering	(45679)
	13) Biotechnology:	Industrial Economics, Management & Entrepreneurship	(45709)
Saturday 19.05.2012	1) Civil	Geotechnical Engineering-II	(45543)
	2) Environmental	Solid Waste Management	(43684)
	3) Mechanical	Renewable Energy Engineering	(45569)
	4)Automobile:	Industrial Organization & Management	(45665)
	5) Electrical:	Control System Design	(45584)
	6) Electronics:	Digital Communication	(45596)
	7) Chemical:	Plant Utility & Pollution Control	(45637)
	8) Production:	Industrial Management	(45623)
	9) Instrumentation:	Industrial Automation-I	(45650)
	10) Electronics & Tele Com.	Digital Communication	(45693)
	11) Computer Sci. & Engg.:	Operating System-II	(45609)
	12) Information Tech.:	Operating System-II	(45680)
	13) Bio-Technology:	Microbial Technology	(45707)
Tuesday 22.05.2012	1) Civil:	Engineering Management	(45544)
	2) Environmental:	Environmental Management	(43685)
	3) Mechanical:	I.C. Engines	(45570)
	4) Automobile:	I.C. Engines	(45666)
	5) Electrical:	Power Electronics	(45585)
	6) Electronics:	Power Electronics	(45597)
	7) Chemical:	Mass Transfer-II	(45638)
	8) Production:	Industrial Hydraulics and Pneumatics	(45624)
	9) Instrumentation:	Process Control	(45651)
	10) Electronics & Tele Com.:	VLSI Design	(45694)
	11) Computer Sci. & Engg.:	Database Engineering	(45610)
	12) Information Technology:	Software Testing and Quality Assurance	(45681)
	13) Bio-Technology:	Bio Instrumentation	(45705)

T.E. SEM. – VI (New Course) From May 2010**(Time: 02.30 pm. To 05.30 pm.)**

Day & Date	Paper with Branches	
Thursday 24.05..2012	1) Civil:	Water Resource Engineering-II (45545)
	2) Environmental:	Noise Pollution Control (43686)
	3) Mechanical:	Industrial Fluid Power (45571)
	4) Automobile:	Automotive Chassis (45667)
	5) Electrical:	Microcontroller & Its Applications (45586)
	6) Electronics:	Digital Signal Processing (45598)
	7) Chemical:	Process Dynamics & Control (45639)
	8) Production:	Design of Jigs Fixtures and Dies (45625) (Time: 01.30 pm. to 05.30 pm.)
	9) Instrumentation:	Signals & Systems (45652)
	10) Electronics & Tele Com.:	Industrial & Power Electronics (45695)
	11) Computer Sci. & Engg.	Object Oriented Modeling and Design (45611)
		Written- 01.30 pm to 03.30 pm Online- 04.00 pm to 05.00 pm O M R- 05.00 pm to 06.00 pm
	12) Information Tech.:	Internet Technology (45682)
13) Bio-Technology:	Medical Bio Technology (45706)	
Saturday 26.05.2012	1) Civil:	Environmental Engineering-II (45546)
	2) Environmental:	Quality Surveying & Valuation (43687) (Time: 01.30 pm. to 05.30 pm.)
	3) Mechanical:	Computer Integrated Manufacturing (45572)
	4) Automobile:	Vehicle Body Engineering (45668)
	5) Electrical:	Communication Engineering (45587)
	6) Electronics:	Industrial Management & Operation Research (45599)
	7) Chemical:	Chemical Reaction Engineering-I (45640)
	8) Production:	Quality Management (45626)
	9) Instrumentation:	Industrial Management (45653)
	10) Electronics & Tele Com.:	Industrial Management & Operation Research (45696)
	11) Computer Sci. & Engg.	Information Security (45612)
	12) Information Tech.:	Information System Security (45683)
	13) Bio-Technology:	Drug Development and Gene Therapy (45708)

T.E. SEM. – VI (New Course) From May 2010
(Time: 02.30 pm. To 05.30 pm.)

Tuesday 29.05.2012	1) Civil:	----
	2) Environmental:	----
	3) Mechanical:	Industrial Management Operation Research (45573)
	4) Automobile:	Hydraulics & Pneumatics (45669)
	5) Electrical:	----
	6) Electronics	----
	7) Chemical:	----
	8) Production:	Machine Tools & Product Design (45627)
	9) Instrumentation:	----
	10) Electronics & Tele Comm.	----
	11) Computer Sci. & Engg.	Compiler Construction (45608) Written- 01.30 pm to 03.30 pm Online- 04.00 pm to 05.00 pm O M R- 05.00 pm to 06.00 pm
	12) Information Tech.:	----
	13) Bio-Technology:	----
Workshop Practice-VI		

B.E. SEM. – VII (New Course) From Dec. 2010**(Time: 02.30 pm to 05.30 pm.)**

Day & Date	Paper with Branches		
Monday 07.05.2012	1) Civil	Design of Concrete Structure-I	(47901)
	2) Environmental	Industrial Waste Treatment	(45953)
	3) Mechanical:	Refrigeration & Air Conditioning	(47979)
	4) Automobile:	Engine & Machine Design	(47864)
	5) Electrical:	Electrical Drives and Control	(47935)
	6) Electronics:	Embedded System Design	(47946)
	7) Chemical:	Chemical Reaction Engg.-II	(47888)
	8) Production:	Operation Research	(47993)
	9) Instrumentation:	Advanced Process Instrumentation	(47961)
	10) Electronics & Tele Com.:	Computer Communication Network	(47926)
	11) Computer Sci. & Engg.	Advanced Computer Architecture	(47917)
	12) Information Tech.:	Mobile Technology	(47971)
	13) Biotechnology:	Bioreaction Engineering	(47876)
Tuesday 08.05.2012	1) Civil:	Transportation Engineering	(47904)
	2) Environmental:	Air Pollution - II	(45952)
	3) Mechanical:	Mechanical System Design	(47980)
	4) Automobile:	Vehicle Dynamics	(47865)
	5) Electrical:	1 High Voltage Engineering (47936) 2 *Non Linear and Digital Control Systems (39134) *Subject continued for old course repeater students till passes	
	6) Electronics:	Power Electronics and Drives	(47947)
	7) Chemical:	Chemical Process & Synthesis	(47889)
	8) Production:	Mechatronic Systems	(47994)
	9) Instrumentation:	Instrumentation System Design	(47962)
	10) Electronics & Tele Com.	Wireless Communication	(47927)
	11) Computer Sci. & Engg.	Distributed System	(47918)
	12) Information Tech.:	Advanced Database Systems	(47972)
	13) Biotechnology:	Protein Engineering	(47877)

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B.E. SEM. – VII (New Course) From Dec. 2010**(Time: 02.30 pm to 05.30 pm)**

Day & Date	Paper with Branches	
Friday 11.05.2012	1) Civil: Elective-I	i) Advanced Geo-technical Engineering (39055) ii) Traffic Engineering and Control (39057) iii) Behavioral Science (39061) iv) Managerial Techniques (39062) v) Computer Application in Civil Engg. (39064) As per old course chances up to May 2012 above i to v
	2) Environmental: Elective-I	i) Optimization Techniques (45956) ii) Environmental Biotechnology (45957) iii) Disaster Planning & Risk Analysis (45958) iv) Clean Development Mechanism (45959)
	3) Mechanical: Elective-I	1. Experimental Mechanics (47982) 2. Noise & Vibration (47983) 3. Automobile Engineering (47984) 4. Jigs and Fixture Design (47985) 1 * Operation Research (38445) (*Subject for Old course repeater students)
	4) Automobile:	===
	5) Electrical: Elective-I	i) EHVAC (38752) ii) DSP (38753) iii) Electrical System Modeling (38754) iv) Neural Network & Fuzzy Logic (38755)
	6) Electronics:	===
	7) Chemical: Elective-I	i) Polymer and Rubber Technology (39088) ii) Biotechnology (39089) iii) Petroleum Refinery Engineering (39090) iv) Pharmaceutical Technology-I (38635) v) Introduction to Cryogenic Engineering (38636) vi) Energy System and Design (38637) vii) Optimization Techniques in Chemical Engg. (39091) (As per old course – up to May 2012) All i to vii Sub.
	8) Production:	Computer Aided Design & Analysis (47997)
	9) Instrumentation: Elective-I	i) *VLSI Design (38394) ii) *Information Technology (38396) *(As per old course – up to May 2012)
	10) Electronics & Tele Com.:	Digital Communication (38406)
	11) Computer Sci. & Engg.:	Information Technology Concepts (50394) *(Replace subject for Information Technology 38620)
	12) Information Tech.	===
	13) Biotechnology:	===

B.E. SEM. – VII (New Course) From Dec. 2010**(Time: 02.30 pm to 05.30 pm)**

Day & Date	Paper with Branches	
Saturday 12.05..2012	1) Civil: Elective-I	
	1. Advanced Structural Analysis	(47905)
	2. Experimental Stress Analysis	(47906)
	3. Finite Element Method	(47907)
	4. Advanced Foundation Engineering	(47908)
	5. Transportation Infrastructure Planning and Demand Estimation	(47909)
	6. Advanced Engineering Geology	(47910)
	7. Open Channel Hydraulics	(47911)
	8. Human Resource Development	(47912)
	9. Project Appraisal	(47913)
	10. Solid Waste Management	(47914)
	2) Environmental: Elective-I	
	3) Mechanical: Elective-II	
	1. Total Quality Management	(47986)
	2. Nano Technology	(47987)
	3. Industrial Product Design	(47988)
	4. Human Values and Professional Ethics	(47989)
	4) Automobile: Elective-I	
	1. Noise and Vibration	(47868)
	2. Energy Engineering	(47869)
	3. Computer Integrated Manufacturing Systems	(47870)
	4. Industrial Product Design	(47871)
	5. Production Management	(47872)
	5) Electrical: Elective-I	
	1. FACTS	(47939)
	2. Digital Control System	(47940)
	3. Embedded System	(47941)
	4. Electrical Engineering Materials	(47942)
	5. Thermal Engineering	(47943)
	6) Electronics: Elective-I	
1. Fiber Optic Communication	(47950)	
2. Satellite Communication	(47951)	
3. Biomedical Instrumentation	(47952)	
4. Low Power VLSI Design	(47953)	
5. High Speed Digital Design	(47954)	
6. Digital Image Processing	(47955)	
7. Real Time Systems	(47956)	
8. Robotics	(47957)	
9. Advance Control Engineering	(47958)	
10. Fuzzy Logic & Applications	(47959)	

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B.E. SEM. – VII (New Course) From Dec. 2010**(Time: 02.30 pm to 05.30 pm)**

Day & Date	Paper with Branches
Saturday 12.05..2012	7) Chemical: Elective-I 1. Petroleum Refinery Engineering (47892) 2. Bio-Technology (47893) 3. Information To Cryogenic Engineering (47894) 4. Pharmaceutical Technology P I (47895) 5. Optimization Technique in Chemical Engineering (47896)
	8) Production: = = = = =
	9) Instrumentation: Elective-I 1. Virtual Instrumentation (47965) 2. Neural & Fuzzy Based Control (47966) 3. Optimal & Robust Control (47967) 4. Safety and Environmental Control (47968)
	10) Electronics & Tele Comm.: Elective-I 1. Digital Signal Processors (47930) 2. Integrated Communication System (47931) 3. Satellite Communication (47932) 4. Remote Sensing & GIS (47933) a *VLSI Technology (Subject for old course students) (38410) b *Fuzzy Logic (Subject for old course students) (38412)
	11) Computer Sci. and Engg.: Elective-I 1. Soft Computing (47921) 2. Project Management (47922) 3. Cyber Laws (47923) 4. * Modern Information Retrieval (50395) *(Replace subject for Information Retrieval 38741)
	12) Information Technology: Elective-I: 1. Project Management (47976) 2. Cyber Laws (47977) 3. Discrete Event System Simulations * (50653) *(Replace subject for Discrete Event System Simulator and modeling (38607)
	13) Biotechnology: Elective-I: 1. Biomedical Engineering (47880) 2. Plant Biotechnology (47881) 3. Good Manufacturing Practices (47882) 4. Environmental Biotechnology (47883) 5. Genomics and Proteomics (47884)

B.E. SEM. – VII (New Course) From Dec. 2010**(Time: 02.30 pm to 05.30 pm)**

Day & Date	Paper with Branches	
Monday 14.05.2012	1. Civil:	Quantity Survey and Valuation (47902) (Time: 01.30 pm to 05.30 pm)
	2. Environmental:	Advanced Water & Wastewater Treatment (45954)
	3. Mechanical:	Finite Element Analysis (47981)
	4. Automobile:	Finite Element Analysis (47866)
	5. Electrical:	1 Advanced Switchgear and Protection (47937) 2 *Micro Controller & Applications (39131) *Subject for old course repeater students till passes
	6. Electronics:	Video Engineering (47948)
	7. Chemical:	Chemical Process Design (47890) (Time: 01.30 pm to 05.30 pm)
	8. Production:	Process Engineering (47995)
	9. Instrumentation:	Industrial Automation-II (47963)
	10. Electronics & Tele Com.:	Microwave Engineering (47928)
	11. Computer Sci. & Engg.:	Advanced Database System (47919)
	12) Info. Technology.:	Real Time Systems (47973)
	13) Biotechnology:	Pharmaceutical Biotechnology (47878)
Tuesday 15.05.2012	1) Civil:	Earthquake Engineering (47903)
	2) Environmental:	1 Environmental Impact Assessment (45955) 2 *Environmental Chemistry and Microbiology (50548) (*Subject for old course repeater students)
	3) Mechanical:	= = = = =
	4) Automobile:	Alternative Fuels & Emission (47867)
	5) Electrical:	Renewable Energy Sources (47938)
	6) Electronics:	Information Theory & Coding (47949)
	7) Chemical:	Modeling & Simulation in Chemical Engg. (47891)
	8) Production:	Production & Operations Management (47996)
	9) Instrumentation:	Digital Signal Processing (47964)
	10) Electronics & Tele Com.:	Embedded System (47929)
	11) Computer Sci. & Engg.:	= = =
	12) Information Tech	= = =
	13) Biotechnology:	Bioprocesses (47879)

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B.E. SEM. – VIII (Old Course)
(Time: 02.30 pm. To 05.30 pm.)**Subject continued from old course as per equivalence**

Day & Date	Branch	Paper and Paper Code No.
Monday 28.05.2012	Civil Elective-II	iii) Reliability Engineering (39067) v) Hazardous Waste Management (39069) iii) & v) Up to Dec., 2012
"	Environmental	As per equivalence
"	Mechanical Elective-III	i) Material Management (38454) iii) Costing & Cost Optimization (38456) Same subjects for equivalence
"	Electrical Elective-II	i) H.V.D.C. (38476) ii) Power System Harmonics (38477) iii) Electrical & Electronic Materials (38478) Same subjects for equivalence
"	Electronics Elective II	Information Technology (38385)
"	Chemical Elective II	i) Computer Aided Design (38760) ii) Energy Conservation & Recovery (38761) iii) Distillation (38762) iv) Enterprise Resource Planning (38763) v) Artificial Intelligence in Process Industries (38638) vi) Membranes Separation Process & Design (38739) vii) Nuclear Engineering (38740) As per old course up to Dec 2012 (For above i to vii)
"	Production	Quality Management (39138) As per old course Up to May 2012
"	Instrumentation Elective-II	i) Optimal & Robust Control (38402) ii) Instrumentation for Pollution Control (38404) As per old course up to Dec 2012
"	Computer Sci. & Engg.	Component Based Technology (51325) Replaced subject for Component Technology (38623)
"	Information Tech. Elective II	i) Multimedia Storage (51328) ii) GS & Remote Sensing Concept (51329) Replace subjects as per equivalence
"	Biotechnology Elective-II	i) Biomedical Fluid Dynamics (38512) ii) Biotechnology for crop Improvement (38513) As per old course Up to Dec. 2012

B.E. SEM. – VIII (Old Course)
(Time: 02.30 pm. To 05.30 pm.)**Subject continued from old course as per equivalence**

Day & Date	Branch	Paper and Paper Code No.
Thursday 31.05.2012	Civil	Transportation Engineering II (51324)
"	Mechanical Elective-VI	Marketing Management (38458)
"	Automobile	Vehicle Performance(Pre-revised) (38430) Vehicle Performance(Revised) (43689)
"	Electrical	Electrical M/S Design (38474) Subject continued till students passes
"	Electronics	1 Advance Digital Signal Processing. (40335) 2. Modern Control Engg. (40336)
"	Chemical Elective-III	i) Polymer Reaction Engineering (39149) ii) Biochemical Engineering (39150) iii) Petrochemical Technology (39151) iv) New & Renewable Energy Engg. (39152) v) Pharmaceutical Technology-II (38767) vi) Multiphase Reactor Design (38768) vii) Mass Transfer with Chemical Reaction (38769) As per old course Up to Dec 2012 (i to vii)
"	Computer Sci. & Engg.	Web Essentials (41589) Replace Subject for Pre-revised Repeater Candidates Only

Day & Date	Branch	Paper and Paper Code No.
Saturday 02.06.2012	Computer Sci & Engg. Elective-II	1 Mobile Technology & System (51326) 2 Image Processing (51327) Replace subjects as per equivalence

B.E. SEM. – VIII (New Course) From May 2011**(Time: 02.30 pm to 05.30 pm)**

Day & Date	Paper with Branches	
Wednesday 16.05.2012	1) Civil	Town Planning & Transporting Engineering (49173)
	2) Environmental	Environmental Management System (46422)
	4) Mechanical:	Mechatronics (49417)
	4) Automobile:	Refrigeration and Air Conditioning (49499)
	5) Electrical:	Electrical Utilization & Transaction (49428)
	6) Electronics:	Computer Network (49434)
	7) Chemical:	Chemical Process & Green Technology (49473)
	8) Production:	Costing and Cost Control (49455)
	9) Instrumentation:	Field Instrumentation & Network (49491)
	10) Electronics & Tele Com.:	Audio & Video Engineering (49516)
	11) Computer Sci. & Engg.	Grid Technology (49447)
	12) Information Tech.:	Distributed Computing (49509)
	13) Biotechnology:	Bio separation Processes (49524)
Friday 18.05.2012	1) Civil:	Construction Practice (49174)
	2) Environmental:	Environmental Policy & Legislation (46423)
	3) Mechanical:	Industrial Engineering (49418)
	4) Automobile:	Automotive Electronics (49500)
	5) Electrical:	HVDC System (49429)
	6) Electronics:	Operating System (49435)
	7) Chemical:	Transport Phenomena (49474)
	8) Production:	Computer Integrated Manufacturing System (49456)
	9) Instrumentation:	Process Modeling & Simulation (49492)
	10) Electronics & Tele Com.	Broadband Communication (49517)
	11) Computer Sci. & Engg.	Storage Networks (49448)
	12) Information Tech.:	Information Technology & Business Methodology (49510)
	13) Biotechnology:	Bioprocess Modeling and Simulation (49525)

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B.E. SEM. – VIII (New Course) From May 2011**(Time: 02.30 pm to 05.30 pm)**

Day & Date	Paper with Branches	
Monday 21.05.2012	1) Civil:	Design of Concrete Structure - II (49175)
	2) Environmental:	Industrial Health & Safety (46424)
	3) Mechanical:	Power Engineering (49419)
	4) Automobile:	Automotive System Design (49501)
	5) Electrical:	Electrical Initialization, Testing and Maintenance (49430)
	6) Electronics:	Microwave Engineering (49436)
	7) Chemical:	P.E.P.E. (49475)
	8) Production:	Advanced Industrial Engineering (49457)
	9) Instrumentation:	Project Planning Estimation & Assessment (49493)
	10) Electronics & Tele Com.:	Image Processing (49518)
	11) Computer Sci. & Engg.:	Real Time Operating System (49449)
	12) Info. Technology.:	Storage Network (49511)
	13) Biotechnology:	Bioprocess Engineering & Economics (49526)
Wednesday 23.05.2012	1) Civil:	Elective – II 1 Advance Concrete Design (49176) 2 Design Of Industrial Structure (49177) 3 Analysis and Design of Earthquake Resisting Structure (49178) 4 Structural Design of Foundation and Retaining Structures (49179) 5 Pavement Analysis, Design and Evaluation (49180) 6 Remote sensing applications in civil engineering (49181) 7 Hydrology and Watershed Management (49182) 8 Site investigation methods and practices (49183) 9 Entrepreneurships (49184) 10 Air Pollution & Control (49185)
	2) Environmental:	Hazardous Waste Management (46425)
	3) Mechanical:	Elective – III 1 Production Management (49420) 2 MEMS (49421) 3 Machine Tools Design (49422) 4 Computational Fluid Dynamics (49423)
	4) Automobile:	Vehicle Performance (49502)
	5) Electrical:	Elective – II 1 EHVAC (49431) 2 Electrical Machine Design Laboratory (49432) 3 Computer Aided Power System (49534) 4 Advanced Digital Signal Processing (49535) 5 Restructured Power System (49536)

(P.T.O)

B.E. SEM. – VIII (New Course) From May 2011**(Time: 02.30 pm to 05.30 pm)**

Wednesday 23.05.2012	6) Electronics:	Elective-II 1 Broad Band Communication (49437) 2 Wireless Communication Network (49438) 3 Biomedical Control & Instrumentation (49439) 4 CMOS VLSI Design (49440) 5 Advanced Digital Signal Processors (49441) 6 System On Chip (49442) 7 Mechatronics (49443) 8 Process Instrumentation (49444) 9 Neural Network & Applications (49445)
	7) Chemical:	Elective-II 1 Bio-Chemical Engineering (49476) 2 Petrochemical Technology (49477) 3 Computer Aided Design (49478) 4 Distillation (49479) 5 Enterprise Resource Planning (49480) 6 Artificial Intelligence in Process Engineering (49481) 7 Member Separation Process and Design (49482) 8 Nuclear Engineering (49483)
	8) Production:	Elective – I 1 Marketing Management (49458) 2 Material Management (49459) 3 Data base Engineering (49460) 4 Entrepreneurship Development (49461) 5 Financial Management (49462) 6 Environment & Pollution Control (49463) 7 Organizational Behaviour (49464)
	9) Instrumentation:	Elective – II 1 Power Plant Instrumentation (49494) 2 Biomedical Instrumentation (49495) 3 Advanced Digital Signal Processing (49496) 4 Embedded System (49497)
	10) Electronics & Tele Com.:	Elective – II 1 Speech Processing (49519) 2 Pattern Recognition (49520) 3 Mobile Communication (49521) 4 Real Time Systems (49522)
	11) Computer Sci. & Engg.:	Elective – II 1 Data Mining (49451) 2 Adhoc Wireless Network (49452) 3 Business Intelligence System (49453)
	12) Information Tech.:	Elective – II 1 Business Intelligent System (49513) 2 ANN & Genetic Algorithm (49514)
	13) Biotechnology:	Animal Biotechnology (49527)

B.E. SEM. – VIII (Contd..) (New Course) From May 2011**(Time: 02.30 pm to 05.30 pm)**

Day & Date	Paper with Branches	
Friday 25.05.2012	1) Civil:	Elective – III 1 Advance Prestressed Concrete Design (49186) 2 Design of Bridges (49187) 3 Dynamics of Structure (49188) 4 Ground Improvement (49189) 5 Project Planning, Economics and Financing (49190) 6 Rock Mechanics (49191) 7 Water Power Engineering (49192) 8 Advance Construction Techniques (49193) 9 Optimization technique (49413) 10 Industrial Waste Treatment (49414)
	2) Environmental:	1) Managerial Techniques (46426) 2) Watershed Management (46427) 3) Environmental Modeling & Simulation (46428) 4) Occupational Health & Safety Management Systems (46429)
	3) Mechanical:	Elective-IV 1 Industrial Automation and Robotics (49546) 2 Enterprise Resource Planning (49424) 3 Cryogenics (49425) 4 P.I.C. & SCADA Programming (49426)
	4) Automobile:	Elective – III 1 Transport Management (49503) 2 Entrepreneurship Development (49504) 3 Tractor and Farm Equipment (49505) 4 Maintenance Management (49506) 5 Operation Research (49507)
	5) Electrical:	== =
	6) Electronics:	== =
	7) Chemical:	Elective – II 1 Energy Conservation and Recovery 49484 2 Polymer Reaction Engineering 49485 3 Pharmaceutical Technology-II 49486 4 Multiphase Reactor Design 49487 5 Mass Transfer with Chemical Reaction 49488
	8) Production:	Elective – II 1 Flexible Manufacturing Systems (49465) 2 Artificial Intelligence (49466) 3 Industrial Robotics (49467) 4 Low Cost Automation (49468) 5 Material Handling System (49469) 6 Advanced Foundry Technology (49470) 7 Advanced Tool & Die Design (49471)
	13) Biotechnology:	Elective – II 1 Applied Genetic Engineering (49528) 2 Food and Dairy Technology (49529) 3 Metabolic Engineering (49530) 4 Advanced Biomaterials (49531)

NOTE:

- 1) The candidates are permitted to use stencils at the Examination.
- 2) The candidates for examination are expected to provide themselves with Slide Rules.
- 3) The exchange or loan of slide rules, drawing instruments or other material used in the examination is not permitted while the examination is in progress. Candidates must bring their own instruments.
- 4) The candidates are allowed to use the electronic calculators for numerical calculations at their own cost. University will not supply such calculators.
- 5) The Practical and Oral Examinations will take place before starting of the theory examination. The examiners will notify the day, date and place on the notice Board of the concerned Colleges. Students must be present at the time and place appointed for their practical examination. Those who fail to present themselves at the appointed time and place will not be examined in Practical and oral.
- 6) The Examination Programme is subject to change. If there is any change in the programme of the examination, it will be communicated in time, however the University is not responsible for any loss or inconvenience caused to the candidate.
- 7) The seating arrangement is made date-wise & subject-wise; therefore candidates are requested to see their seating arrangement one day before the date of Examination.
- 8) All the students should verify the customized time table printed on their hall ticket with the final program sent to their college (also available at our web site) at least two days prior to the date of examinations.
- 9) The cellular Phone, Pager, Scientific Calculator, Digital Diary or any means, which can be used for unfair practices, are not allowed in the examination hall.
- 10) The attention of the candidate is specially drawn to the change in timings on the dates mentioned below:

Date: 13-05-2012

Vidyanagar,

KOLHAPUR - 416 004.

Dr. B. M. Hirdekar
Controller of Examinations

(P.T.O)