# **UNIVERSITY OF PUNE**



Phone : 020-25601218 Fax : 020-25601206 Email : <u>coe@unipune.ac.in</u> Web : http://www.unipune.ac.in EXAMINATION SECTION Ganeshkhind, Pune - 411 007 (Maharashtra) INDIA

#### Examination Circular No. 91 of 2012 Revised Programme of B.E. 2008 Course (All Branches) Examinations, May, 2012

- 1. Candidates are required to be present at their places of examination, fifteen minutes before the time of 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 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 Centers and Places of the examination will be as follows :

#### **1. PUNE:**

P.I.E.T. College of Engineering, Shivajinagar, Pune -05. also. )922Army Institute of Technology, Dighi Hills, Pune 411015.1023Sinhgad College of Engineering, Vadgaon Bk., Pune 411041.1124Pad. Dr. D.Y. Patil Institute of Engineering & Tech., Pimpri, Pune 4110181225A.I.S.S.M.S.'s Institute of Information Tech., Kennedy Road, Pune 4110011326P.D.E.S.'s A.G. Awate College of Engineering, Hadapsar, Pune 411028.1428MAEER'S Maharashtra Academy of Engineering, Kedgaon Alandi, Dist. Pune.1530G.S. Moze College of Engineering, Balewadi, Pune.1631P.E.S.'s Modern College of Engineering, Pune 411005.1732M.E.S.'s College of Engineering, Pune 411001.1833Pimpri-Chinchwad Education Trust's College of Engg., Nigdi, Pune 411044.1934Bharati Vidyapeeth's College of Engineering for Women, Pune 411043 also. )	I. PUN Sr. No	College Code	Centers and Places of the Examinations
2       5       Pune Institute of Computer Technology, Pune 411043.         3       6       Cusrow Wadia Institute of Technology, Pune 411001.         4       7       P.V.G.'S C.O.E.T., Pune 411009.         5       8       Pad. Dr. D.Y. Patil College of Engineering, Nigdi, Pune 411044.         6       19       College of Engineering, Malegaon (Bk.), Tal. Baramati, Dist – Pune 413115.         7       20       H.S.S.S.'s Cummins College of Engineering for Women, Pune 411052.         8       21       A.I.S.S.M.S.'s Institute of Technology, Pune 411001.(Repeater Students of P.I.E.T. College of Engineering, Shivajinagar, Pune -05. also.)         9       22       Army Institute of Technology, Dighi Hills, Pune 411015.         10       23       Sinhgad College of Engineering, Vadgaon Bk., Pune 411041.         11       24       Pad. Dr. D.Y. Patil Institute of Engineering & Tech., Pimpri, Pune 411018.         12       25       A.I.S.S.M.S.'s Institute of Information Tech., Kennedy Road, Pune 411001.         13       26       P.D.E.S.'s A.G. Awate College of Engineering, Hadapsar, Pune 411028.         14       28       MAEER'S Maharashtra Academy of Engineering, Kedgaon Alandi, Dist. Pune.         15       30       G.S. Moze College of Engineering, Pune 411001.         18       33       Pimpri-Chinchwad Education Trust's College of Eng., Nigdi, Pune 411044.     <	•		
3       6       Cusrow Wadia Institute of Technology, Pune 411001.         4       7       P.V.G.'s C.O.E.T., Pune 411009.         5       8       Pad. Dr. D.Y. Patil College of Engineering, Nigdi, Pune 411044.         6       19       College of Engineering, Malegaon (Bk.), Tal. Baramati, Dist – Pune 413115.         7       20       H.S.S.S.'s Cummins College of Engineering for Women, Pune 411052.         8       21       A.I.S.S.M.S.'s Institute of Technology, Pune 411001.(Repeater Students of P.I.E.T. College of Engineering, Shivajinagar, Pune -05. also.)         9       22       Army Institute of Technology, Dighi Hills, Pune 411015.         10       23       Sinhgad College of Engineering, Vadgaon Bk., Pune 411041.         11       24       Pad. Dr. D.Y. Patil Institute of Engineering & Tech., Pimpri, Pune 411018.         12       25       A.I.S.S.M.S.'s Institute of Information Tech., Kennedy Road, Pune 411001.         13       26       P.D.E.S.'s A.G. Awate College of Engineering, Kedgaon Alandi, Dist. Pune.         14       28       MAEER'S Maharashtra Academy of Engineering, Nedgaon Alandi, Dist. Pune.         15       30       G.S. Moze College of Engineering, Pune 411005.         17       32       M.E.S.'s College of Engineering, Pune 411005.         18       33       Pimpri-Chinchwad Education Trust's College of Eng., Nigdi, Pune 411043.	1	2	Maharashtra Institute of Technology, Pune 411 038.
4       7       P.V.G.'s C.O.E.T., Pune 411009.         5       8       Pad. Dr. D.Y. Patil College of Engineering, Nigdi, Pune 411044.         6       19       College of Engineering, Malegaon (Bk.), Tal. Baramati, Dist – Pune 413115.         7       20       H.S.S.S.'s Cummins College of Engineering for Women, Pune 411052.         8       21       A.I.S.S.M.S.'s Institute of Technology, Pune 411001.(Repeater Students of P.I.E.T. College of Engineering, Shivajinagar, Pune -05. also.)         9       22       Army Institute of Technology, Dighi Hills, Pune 411015.         10       23       Sinhgad College of Engineering, Vadgaon Bk., Pune 411041.         11       24       Pad. Dr. D.Y. Patil Institute of Engineering & Tech., Pimpri, Pune 411018         12       25       A.I.S.S.M.S.'s Institute of Information Tech., Kennedy Road, Pune 411001         13       26       P.D.E.S.'s A.G. Awate College of Engineering, Hadapsar, Pune 411028.         14       28       MAEER'S Maharashtra Academy of Engineering, Kedgaon Alandi, Dist. Pune.         15       30       G.S. Moze College of Engineering, Pune 411005.         17       32       M.E.S.'s College of Engineering, Pune 411001.         18       33       Pimpri-Chinchwad Education Trust's College of Engg., Nigdi, Pune 411044.         19       34       Bharati Vidyapeeth's College of Engineering for Women, Pun 41104	2	5	Pune Institute of Computer Technology, Pune 411043.
5       8       Pad. Dr. D.Y. Patil College of Engineering, Nigdi, Pune 411044.         6       19       College of Engineering, Malegaon (Bk.), Tal. Baramati, Dist – Pune 413115.         7       20       H.S.S.S.'s Cummins College of Engineering for Women, Pune 411052.         8       21       A.I.S.S.M.S.'s Institute of Technology, Pune 411001.(Repeater Students of P.I.E.T. College of Engineering, Shivajinagar, Pune -05. also.)         9       22       Army Institute of Technology, Dighi Hills, Pune 411015.         10       23       Sinhgad College of Engineering, Vadgaon Bk., Pune 411041.         11       24       Pad. Dr. D.Y. Patil Institute of Engineering & Tech., Pimpri, Pune 411015         10       23       Sinhgad College of Engineering, Vadgaon Bk., Pune 411041.         11       24       Pad. Dr. D.Y. Patil Institute of Engineering & Tech., Pimpri, Pune 411015         12       25       A.I.S.S.M.S.'s Institute of Information Tech., Kennedy Road, Pune 411001         13       26       P.D.E.S.'s A.G. Awate College of Engineering, Hadapsar, Pune 411028.         14       28       MAEER'S Maharashtra Academy of Engineering, Kedgaon Alandi, Dist. Pune.         15       30       G.S. Moze College of Engineering, Pune 411005.         17       32       M.E.S.'s College of Engineering, Pune 411001.         18       33       Pimpri-Chinchwad Education Trust's	3	6	Cusrow Wadia Institute of Technology, Pune 411001.
6       19       College of Engineering, Malegaon (Bk.), Tal. Baramati, Dist – Pune 413115.         7       20       H.S.S.S.'S Cummins College of Engineering for Women, Pune 411052.         8       21       A.I.S.S.M.S.'s Institute of Technology, Pune 411001.(Repeater Students of P.I.E.T. College of Engineering, Shivajinagar, Pune -05. also.)         9       22       Army Institute of Technology, Dighi Hills, Pune 411015.         10       23       Sinhgad College of Engineering, Vadgaon Bk., Pune 411041.         11       24       Pad. Dr. D.Y. Patil Institute of Engineering & Tech., Pimpri, Pune 411018         12       25       A.I.S.S.M.S.'s Institute of Information Tech., Kennedy Road, Pune 411001         13       26       P.D.E.S.'s A.G. Awate College of Engineering, Hadapsar, Pune 411028.         14       28       MAEER'S Maharashtra Academy of Engineering, Kedgaon Alandi, Dist. Pune.         15       30       G.S. Moze College of Engineering, Pune 411005.         17       32       M.E.S.'s College of Engineering, Pune 411001.         18       33       Pimpri-Chinchwad Education Trust's College of Eng., Nigdi, Pune 411044.         19       34       Bharati Vidyapeeth's College of Engineering for Women, Pun 411043(Repeater Students of Bharati Vidyapeeth's COE, Dhankawaa Pune 411043 also.)         20       35       VP's College of Engineering, Vidyanagari, Bhingwan Road, Tal. Baramat Dist: Pune	4	7	P.V.G.'s C.O.E.T., Pune 411009.
413115.         7       20         H.S.S.S.'s Cummins College of Engineering for Women, Pune 411052.         8       21         A.I.S.S.M.S.'s Institute of Technology, Pune 411001.(Repeater Students of P.I.E.T. College of Engineering, Shivajinagar, Pune -05. also.)         9       22         Army Institute of Technology, Dighi Hills, Pune 411015.         10       23         Sinhgad College of Engineering, Vadgaon Bk., Pune 411041.         11       24         Pad. Dr. D.Y. Patil Institute of Engineering & Tech., Pimpri, Pune 411001         13       26         P.D.E.S.'s A.G. Awate College of Engineering, Hadapsar, Pune 411028.         14       28         MAEER'S Maharashtra Academy of Engineering, Kedgaon Alandi, Dist. Pune.         15       30         G.S. Moze College of Engineering, Pune 411005.         17       32         M.E.S.'s Modern College of Engineering, Pune 411005.         17       32         M.E.S.'s College of Engineering, Pune 411001.         18       33         Pimpri-Chinchwad Education Trust's College of Engineering for Women, Pune 411043(Repeater Students of Bharati Vidyapeeth's COE, Dhankawac Pune 411044.         19       34         Bharati Vidyapeeth's College of Engineering for Women, Pune 411043 also.)         20 </th <th>5</th> <th>8</th> <th>Pad. Dr. D.Y. Patil College of Engineering, Nigdi, Pune 411044.</th>	5	8	Pad. Dr. D.Y. Patil College of Engineering, Nigdi, Pune 411044.
720H.S.S.S.'s Cummins College of Engineering for Women, Pune 411052.821A.I.S.S.M.S.'s Institute of Technology, Pune 411001.(Repeater Students of P.I.E.T. College of Engineering, Shivajinagar, Pune -05. also.)922Army Institute of Technology, Dighi Hills, Pune 411015.1023Sinhgad College of Engineering, Vadgaon Bk., Pune 411041.1124Pad. Dr. D.Y. Patil Institute of Engineering & Tech., Pimpri, Pune 4110011326P.D.E.S.'s Institute of Information Tech., Kennedy Road, Pune 4110011326P.D.E.S.'s A.G. Awate College of Engineering, Hadapsar, Pune 411028.1428MAEER'S Maharashtra Academy of Engineering, Kedgaon Alandi, Dist. Pune.1530G.S. Moze College of Engineering, Balewadi, Pune.1631P.E.S.'s Modern College of Engineering, Pune 411005.1732M.E.S.'s College of Engineering, Pune 411001.1833Pimpri-Chinchwad Education Trust's College of Engg., Nigdi, Pune 411044.1934Bharati Vidyapeeth's College of Engineering for Women, Pun 411043(Repeater Students of Bharati Vidyapeeth's COE, Dhankawac Pune 411043 also.)2035VP's College of Engineering, Vidyanagari, Bhingwan Road, Tal. Baramat Dist: Pune2136Smt. Kashibai Navale College of Engineering Vadgaon Bk., Pune 411041	6	19	College of Engineering, Malegaon (Bk.), Tal. Baramati, Dist – Pune
8       21       A.I.S.S.M.S.'s Institute of Technology, Pune 411001.(Repeater Students of P.I.E.T. College of Engineering, Shivajinagar, Pune -05. also.)         9       22       Army Institute of Technology, Dighi Hills, Pune 411015.         10       23       Sinhgad College of Engineering, Vadgaon Bk., Pune 411041.         11       24       Pad. Dr. D.Y. Patil Institute of Engineering & Tech., Pimpri, Pune 411018         12       25       A.I.S.S.M.S.'s Institute of Information Tech., Kennedy Road, Pune 411001         13       26       P.D.E.S.'s A.G. Awate College of Engineering, Hadapsar, Pune 411028.         14       28       MAEER'S Maharashtra Academy of Engineering, Kedgaon Alandi, Dist. Pune.         15       30       G.S. Moze College of Engineering, Balewadi, Pune.         16       31       P.E.S.'s Modern College of Engineering, Pune 411005.         17       32       M.E.S.'s College of Engineering, Pune 411001.         18       33       Pimpri-Chinchwad Education Trust's College of Eng., Nigdi, Pune 411043(Repeater Students of Bharati Vidyapeeth's COE, Dhankawaa Pune 411043 (Repeater Students of Bharati Vidyapeeth's COE, Dhankawaa Pune 411043 also.)         20       35       VP's College of Engineering, Vidyanagari, Bhingwan Road, Tal. Baramat Dist: Pune         21       36       Smt. Kashibai Navale College of Engineering Vadgaon Bk., Pune 411041 <th></th> <th></th> <th>413115.</th>			413115.
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1631P.E.S.'s Modern College of Engineering, Pune 411005.1732M.E.S.'s College of Engineering, Pune 411001.1833Pimpri-Chinchwad Education Trust's College of Engg., Nigdi, Pune 411044.1934BharatiVidyapeeth's College of Engineering for Women, Pun 411043(Repeater Students of BharatiVidyapeeth's COE, Dhankawad Pune 411043 also. )2035VP's College of Engineering, Vidyanagari, Bhingwan Road, Tal. Baramat Dist: Pune2136Smt. Kashibai Navale College of Engineering Vadgaon Bk., Pune 411041			Pune.
1732M.E.S.'s College of Engineering, Pune 411001.1833Pimpri-Chinchwad Education Trust's College of Engg., Nigdi, Pune 411044.1934Bharati 411043(Repeater Students of Bharati Pune 411043 also.)2035VP's College of Engineering, Vidyanagari, Bhingwan Road, Tal. Baramat Dist: Pune2136Smt. Kashibai Navale College of Engineering Vadgaon Bk., Pune 411041	15	30	G.S. Moze College of Engineering, Balewadi, Pune.
1833Pimpri-Chinchwad Education Trust's College of Engg., Nigdi, Pune 411044.1934Bharati Vidyapeeth's College of Engineering for Women, Pun 411043(Repeater Students of Bharati Vidyapeeth's COE, Dhankawad Pune 411043 also. )2035VP's College of Engineering, Vidyanagari, Bhingwan Road, Tal. Baramat Dist: Pune2136Smt. Kashibai Navale College of Engineering Vadgaon Bk., Pune 411041	16	31	P.E.S.'s Modern College of Engineering, Pune 411005.
411044.         19       34         Bharati       Vidyapeeth's College of Engineering for Women, Pure 411043(Repeater Students of Bharati Vidyapeeth's COE, Dhankawad Pune 411043 also.)         20       35         VP's College of Engineering, Vidyanagari, Bhingwan Road, Tal. Baramat Dist: Pune         21       36	17	32	M.E.S.'s College of Engineering, Pune 411001.
1934Bharati Vidyapeeth's College of Engineering for Women, Pur 411043(Repeater Students of Bharati Vidyapeeth's COE, Dhankawad Pune 411043 also. )2035VP's College of Engineering, Vidyanagari, Bhingwan Road, Tal. Baramat Dist: Pune2136Smt. Kashibai Navale College of Engineering Vadgaon Bk., Pune 411041	18	33	Pimpri-Chinchwad Education Trust's College of Engg., Nigdi, Pune
411043(Repeater Students of Bharati Vidyapeeth's COE, Dhankawaa         Pune 411043 also. )         20       35         VP's College of Engineering, Vidyanagari, Bhingwan Road, Tal. Baramat         Dist: Pune         21       36         Smt. Kashibai Navale College of Engineering Vadgaon Bk., Pune 411041			411044.
Dist: Pune2136Smt. Kashibai Navale College of Engineering Vadgaon Bk., Pune 411041	19	34	411043(Repeater Students of Bharati Vidyapeeth's COE, Dhankawadi. Pune 411043 also.)
	20	35	VP's College of Engineering, Vidyanagari, Bhingwan Road, Tal. Baramati. Dist: Pune
2237Rajarshi Shahu College of Engineering, Tathwade, Pune 411 013.	21	36	Smt. Kashibai Navale College of Engineering Vadgaon Bk., Pune 411041
	22	37	Rajarshi Shahu College of Engineering, Tathwade, Pune 411 013.

23	38	MAEER's Maharashtra Institute of Technology, College of Engineering.
		Pune - 411038.
24	39	V.I.I.T. College of Engineering, Sr. No. 2/3/4, Kondhwa (Bk.), Pune 411
		048.(Repeater Students of V.I.T College of Engineering,Pune 411037 also)
25	40	J.S.P.M.'s Jayawantrao Sawant College of Engineering, Handewadi Road,
		Hadapsar, Pune 411028.
26	42	Sinhgad Tech. Edu. Soc.'s Sinhgad Inst. of Tech., Kusgaon (BK),
		Lonawala, Tal. Mawal
27	43	Sinhgad Academy of Engineering, Kondhwa (BK), Pune 411 048.
28	44	Siddhant College of Engineering, Chakan - Talegoan Road, Sudumbare,
		Dist: Pune - 412 109.
29	45	Marathwada Mitra Mandal College of Engineering , Pune – 411 052.
30	46	G.H. Raisoni College of Engineering, Wagholi, Pune 412 207.
31	48	S.S.M.S. Padmabhushan Vasantdada Patil Inst. Of Tech, Bawadhan (Kd),
		Pune – 411038.
32	49	P.GM.T's Parvatibai Genba Moze College of Engineering, Wagholi, Pune
		- 412012.
33	51	J.S.P.M's Imperial College of Engineering & Research, Pune Nagar Rd,
		Wagholi, Pune-412012.
34	52	S.C.E.S's Indira College of Engineering & Magt. Paranwadi Tal. Maval,
		Pune.
35	53	Z.E.S's Dnyanganga college of Engineering & Research, S.N. 39, Narhe,
		Tal. Haveli Dist – Pune 411 041.
36	54	G.H. Raisoni Institute of Engineering & Technology, Gat No. 120 Pune-
		Nagar Road., Wagholi, Pune412207
37	55	Nutan Maharashatra Institute of Engineering & Tech., Vishnupuri,
		Talegaon Station, Tal. Maval, Dist. Pune. 410 507.
38	57	STE'S SIT & Science, Nehre Ambegaon, Pune. 411 041.

39	59	MMM'S Institute of Tech., Sr. No. 35 Plot No. 516 Lohagaon, Tal. Haveli,
		Dist. Pune. 411 032.
40	60	DPE'S Dhole Patil COE, 1248 Umbalenagar, Wagholi, Tal. Haveli, Dist.
		Pune.
41	63	Al-Amin Educational & Medical Foundation's College of Engineering,
		Bhima Koregaon, Tal. Shirur, Dist. Pune. 412 216
42	65	K.J.S. Edu. Society, Trinity COE, & Research, Sr. No. 25/27, Undri-Pisoli,
		Bopdeo Ghat Tal. Haveli. Dist. Pune.

### 2. AHMEDNAGAR:

1	9	Padmashri Dr. V. Vikhe Patil College of Engineering, Ahmednagar.
2	10	Amrutvahini College of Engineering, Sangamner, Dist. Ahmednagar
3	11	Pravra Rural College of Engineering, Pravaranagar (Loni), Dist. Ahmednagar.
		, unicanagan
4	12	College of Engineering, Kopargaon, Dist. Ahmednagar.
5	64	Vishwabharti Academy's COE, Jamkhed Road, at. Sarola Baddi. Dist. A' Nagar.
6	66	SGR Edu. Foundation COE' & Management, Gat. No. 1030, at. Chas, A' Nagar.

# 3. NASHIK:

1	13	K.K. Wagh College of Engineering, Nashik,
2	27	P.R.E.S's., Sir .Vishveshwarayya Memorial College of Enggi., Chincholi,
		Tal. Sinner, Dist. Nashik.
3	29	N.D.M.V.P. Samaj's Karmaveer Adv. Baburao Ganpatrao Thakare,
		College of Engineering, Gangapur, Nashik.
4	41	S.N.J.B.'s Late Sou. Kantabai Bhavarlal Jain College of Engineering,
		Neminagar, Chandwad, Nashik 423 101.
5	47	M.E.T. College of Engineering, Adgaon, Nashik.
6	50	S.N.D. College of Engineering, Nagar – Manmad Road, Babhulgaon,
		Yeola, Dist. Nashik.
7	58	Matoshree College of Engineering and Reasearch, Eklahare, Nashik.
		423 401.
8	61	Sandeep Institute of Tech. & Research Center, Mahirwani, Dist.
		Nashilk.
9	62	Nashik Gramin S.P.M.'s Bharma Vally, COE, & Research, at. Anjaneri,
		Tal. Trambakeshwar, Nashik.

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

	<u>SEMESTER – I</u>	
Day & Date	Civil (2008 Course)	
Tuesday, 15.05.2012	Environmental Engineering – II (401001)	
Thursday, 17.05.2012	Dams and Hydraulic Structures (401002)	
Saturday 19.05.2012	Structure Design – III (401003) *(2:30 p.m. to 6:30 p.m.)	
Tuesday,	<b>Elective – I (401004)</b>	
22.05.2012	a)Structural Design in Bridges	
	b) System Approach in Civil Engineering	
	c)Air Pollution and Control	
	d)Architecture and Town Planning	
	e)Advanced Geotechnical Engineering	
Thursday,	<b>Elective – II</b> (401005)	
24.05.2012	a)Matrix Methods of Structural Analysis	
	b)Hydroinformatics	
	c)TQM & MIS in Civil Engineering	
	d)Earthquake Engineering	
	e)Advanced concrete Technology	

#### B.E. (Civil) Time: 2.30 p.m. to 5.30 p.m. <u>SEMESTER – I</u>

#### **SEMESTER – II**

Day & Date	Civil (2008 Course)
Saturday, 26.05.2012	Quantity Surveying Contracts and Tenders (401009)
Tuesday, 29.05.2012	Transportation Engineering – II (401010)
Thursday,	<u>Elective – III ( 401007)</u>
31.05.2012	a)Advanced Structural Design
	b)Advanced Foundation Engineering
	c)Advanced Engineering Geology with Rock Mechanics
	d)Advanced Environmental Management
	e)Construction Management
Saturday,	<b>Elective – IV ( 401008)</b>
02.06.2012	a)Integrated Water Resources and Planning
	b)Advaced Transportation Engineering
	c)Statistical Analysis And Computational Methods in Civil Engg.
	<b>Open Elective (401008)</b>
	a)Finite Element Method in Civil Engg.,
	b)Geoimfprmatics
	c)Hydropower Engineering
	d)Industrial Waste Water Management
	e)Mechanics of Waves

\* Please note the Timing

### B.E. (Mechanical) Time: 2.30 p.m. to 5.30 p.m. <u>SEMESTER – I</u>

Day & Date	Mechanical (2008 Course)
Tuesday, 15.05.2012	CAD/CAM Automation (402041)
Thursday, 17.05.2012	Dynamics of Machinery (402042)
Saturday 19.05.2012	Industrial Fluid Power (402043
Tuesday, 22.05.2012	Elective – I (402044)a) Energy Audit and Managementb) Product Design and Developmentc)Design of Pumps, Blowers and Compressorsd)Tribology
Thursday, 24.05.2012	Elective – II (402045) a)Automobile Engineering b)Machine Tool Design c)Quantitative and decision making Techniques

# <u>SEMESTER – II</u>

Day & Date	Mechanical (2008 Course)
Saturday, 26.05.2012	Power Plant Engineering (402047)
Tuesday, 29.05.2012	Mechanical System Design ( 402048 ) *(2.30 p.m. to 6.30 p.m. )
Thursday,	<u>Elective – III ( 402049)</u>
31.05.2012	a)Computational Fluid Dynamics
	b)Finite Element Method
	c)Robotics
	d)Advanced Air Conditioning and Refrigeration
Saturday,	Elective – IV ( 402050)
02.06.2012	a) Industrial Heat Transfer Equipments
	b) Management Information System
	c)Reliability Engineering
	d)Open Elective
	i)Cryogenic Engineering
	ii)Product Lifecycle Management
	iii)Industrial Automation

\* Please note the Timing

# **B.E.** Mechanical Sandwich Time : 2.30 p.m. to 5.30 p.m.

#### <u>SEMESTER – I</u>

Day & Date	Mechanical Sandwich (2008 Course)
Tuesday, 15.05.2012	Machine & Computer Aided Design ( 402061)*(2.30 p.m. to 6.30 p.m.)
Thursday, 17.05.2012	Dynamics of Machinery (402042) (Common to Mechanical)
Saturday 19.05.2012	Industrial Hydraulics & Pneumatics (402062)
Tuesday, 22.05.2012	Elective – II ( 402063) a) Refrigeration & Air Conditioning b)Computational Fluid Dynamics c)Finite Element Method
Thursday, 24.05.2012	Elective – III(402064) a)Automobile Engineering b)Operations Research c)Robotics

#### <u>SEMESTER – II</u>

Day & Date	Mechanical Sandwich (2008 Course)
Saturday, 26.05.2012	
Tuesday, 29.05.2012	
Thursday, 31.05.2012	
Saturday, 02.06.2012	Elective – IV (402066) a)Costing & Cost Control b)Machine Tool Design c)Energy Management & Industrial Pollution

\* Please note the Timing

#### **B.E.** (Electrical) Time: 2.30 p.m. to 5.30 p.m.

#### <u>SEMESTER – I</u>

Day & Date	Electrical (2008 Course)
Tuesday, 15.05.2012	PLC and SCADA Applications (403141)
Thursday, 17.05.2012	Power System Operation and Control (403142)
Saturday 19.05.2012	Control System – II (403145)
Tuesday, 22.05.2012	Elective – I (403143) a)Robotics and Automation b)Power Quality c)Illumination Engineering d)Project Management
Thursday, 24.05.2012	Elective – II (403144) a)Restructuring and Deregulation b) Embedded System c)EHV Transmission d)Smart Grid

Day & Date	Electrical (2008 Course)
Saturday, 26.05.2012	Switchgear and Protection (403147)
Tuesday, 29.05.2012	Industrial Drives and Control (403148)
Thursday, 31.05.2012	<ul> <li><u>Elective – III (403149)</u></li> <li>a) VLSI Design</li> <li>b) High Voltage Engineering</li> <li>c) Digital Signal Processing</li> <li>d) ANN and its Applications in Electrical Engineering</li> </ul>
Saturday, 02.06.2012	Elective – IV ( 403150)a) Modeling of Electrical Systemb) Renewable Energy Systemc) Digital Control SystemOpen Elective

#### B.E. (Electronics & Telecommunications) Time: 2.30 p.m. to 5.30 p.m.

# <u>SEMESTER – I</u>

Day & Date	E & TC (2008 Course)
Tuesday, 15.05.2012	Electronics Product Design (404181)
Thursday, 17.05.2012	VLSI Design & Technology (404182)
Saturday 19.05.012	Computer Network (404183)
Tuesday, 22.05.2012	Elective – I (404184) a)Digital Image Processing b)Embedded System and RTOS c)Industrial Drives Control d)Microwave Communication and Radar
Thursday, 24.05.2012	Elective – II -( 404185 )a) Entrepreneurship Developmentb)Joint Time Frequency Analysisc) Micro-electromechanical and system on chip(MEMS and SOC)d) Mobile Communication

Day & Date	E & TC (2008 Course)
Saturday, 26.05.2012	Telecommunication & Switching System (404187)
Tuesday, 29.05.2012	Optical Fiber Communication (404188)
Thursday, 31.05.2012	Elective – III ( 404189)a) Soft Computingb) Speech Processingc) Television and Video Engineering
	d) Test and Measurement Systems
Saturday, 02.06.2012	Elective – IV ( 404190) a) Artificial Intelligence b) Automotive Electronics c)Nanotechnology d)PLC and Industrial Process Automation e)Open Elective:

#### **B.E.** (Electronics) Time: 2.30 p.m. to 5.30 p.m.

# <u>SEMESTER – I</u>

Day & Date	Electronics(2008 Course)
Tuesday, 15.05.2012	Electronics System Design (404201)
Thursday, 17.05.2012	VLSI Design (404202)
Saturday 19.05.2012	Embedded System (404203)
Tuesday,	<b>Elective – I ( 404204)</b>
22.05.2012	a) Advanced Measurement Systems
	b) Advanced Power Electronics
	c) Biomedical Instrumentation
	d Mechatronics
Thursday,	<u>Elective – II (404205)</u>
24.05.2012	a) Advanced Computer Architecture
	b) Entrepreneurship and Business Planning
	c) SOC (System on Chip)
	d) Robotics and Automation

Day & Date	Electronics (2008 Course)
Saturday, 26.05.2012	Computer Network & Security (404207)
Tuesday, 29.05.2012	Process Automation (404208)
Thursday, 31.05.2012	Elective – III (404209)a)Audio and Video Engineeringb)Image Processing and Machine Visionc)Optical and Microwave Communicationd)Soft Computing Tools
Saturday, 02.06.2012	Elective – IV (404210) a)Advanced Communication System b)Automotive Electronic Systems c)Artificial Intelligence d)Nanotechnology in Electronics e) Open Elective:

### B.E. (Production Engineering) Time: 2.30 p.m. to 5.30 p.m.

# <u>SEMESTER – I</u>

Day & Date	Production Engineering (2008 Course)
Tuesday, 15.05.2012	Machin Tool Design (411081)
Thursday, 17.05.2012	Manufacturing Automation (411082)
Saturday 19.05.2012	Operations Research (411083)
Tuesday, 22.05.2012	Elective – I (411084) a) Plastic Engineering b) Industrial Robotics c) Powder Metallurgy d) Microprocessor Applications
Thursday, 24.05.2012	Elective – II (411085) a) Ergonomics and Human Factors in Engineering b)Material & Logistic Management c) Simulatiion and Modelling d) Plant Engineering and Maintenance

Day & Date	Production Engineering (2008 Course)
Saturday, 26.05.2012	Computer Integrated Design and Manufacturing (411087)
Tuesday, 29.05.2012	Processing Planning and Tool Selection (411088)
Thursday, 31.05.2012	Elective – III( 411089) a)Automobile Engineering b)Mechatronics c)Metal Working Tribology d)Finite Element Analysis
Saturday, 02.06.2012	Elective – IV (411090)a)World Class Manufacturingb)Intelligent Manufacturing Systemsc)Total Quality Managementd)Open Elective

#### B.E. (Production –Sandwich) Time: 2.30 p.m. to 5.30 p.m.

#### <u>SEMESTER – I</u>

Day & Date	Production- Sandwich (2008 Course)
Tuesday, 15.05.2012	Operations Research & Management (411121)
Thursday, 17.05.2012	Mechatronics & Robotics (411122)
Saturday 19.05.2012	Advanced Production Technology (411123)
Tuesday, 22.05.2012	Elective – I (411124) a) Machine Tool Design b) Automobile Engineering c) Computer Integrated Manufacturing and Industrial Robotics d). Plastic Engineering
Thursday, 24.05.2012	Elective – II (411125) a) Ergonomice and Human Factors in Engineering b) Materials Management & Logistics c) Financial Management & Cost Control d) Product Development

Day & Date	Production- Sandwich (2008 Course)
Saturday, 26.05.2012	
Tuesday, 29.05.2012	
Thursday, 31.05.2012	Elective – III (411130)a) Supply Chain Managementb) Plant Engineering & Maintenancec) Industrial Relations & Human Resource Managementd) Marketing Management
Saturday, 02.06.2012	

### B.E. (Industrial Engineering) Time: 2.30 p.m. to 5.30 p.m.

#### <u>SEMESTER – I</u>

Day & Date	Industrial Engineering (2008 Course)
Tuesday, 15.05.2012	Financial Management & Costing (411101)
Thursday, 17.05.2012	Project Management (411102)
Saturday 19.05.2012	Quantitative Techniques (411103)
Tuesday, 22.05.2012	<u>Elective – I (411104)</u> a) Advanced Ergonomics b) Logistics & Warehousing Management c) Material Forming d) Human Resource Management
Thursday, 24.05.2012	Elective – II (411105) a) Industrial Laws b) World class Manufacturing c) Machine Tool Technology d) Development of Professional Skills

Day & Date	Industrial Engineering (2008 Course)
Saturday, 26.05.2012	Reliability Engineering (411108)
Tuesday, 29.05.2012	Energy Management ((411109)
Thursday, 31.05.2012	<u>Elective – III (411110)</u> a) IE applications in Service Sector b) Supply Chain Management c) Manufacturing Automation d) Process Planning & Manufacturing Engineering
Saturday, 02.06.2012	Elective - IV (41111) a) *** Open Elective b) Plastics Engineering c) Manufacturing Strategies d) Quality Management

#### **B.E.** (Printing Engineering) Time: 2.30 p.m. to 5.30 p.m.

#### <u>SEMESTER – I</u>

Day & Date	Printing Engineering (2008 Course)
Tuesday, 15.05.2012	Technology of Gravure (408283)
Thursday, 17.05.2012	Digital Imaging and Printing (408284)
Saturday 19.05.2012	Advertising and Multimedia (408285)
Tuesday, 22.05.2012	Elective - I (408281) a) Quality Control Techniques in Printing b) Commercial Graphic Design c) Screen Printing Techniques
Thursday, 24.05.2012	Elective – II ( 408282) a) Security Printing b) Newspaper Technology c) Open Elective (Self Study)

	Printing Engineering (2008 Course)
Day & Date	
Saturday,	Package Design and Technology (408289)
26.05.2012	
Tuesday,	Print Production Planning and Control (408290)
29.05.2012	
Thursday,	<b>Elective – III</b> (408287)
31.05.2012	a) Electronic Publishing
	b) Printing Machine Maintenance
	c) Image Conversion & Modification
Saturday,	<u>Elective – IV (408288)</u>
02.06.2012	a) Flexible Packaging
	b) Entrepreneurship in Printing
	c) Open Elective

### **B.E. (Information Technology)** Time: 2.30 p.m. to 5.30 p.m.

#### <u>SEMESTER – I</u>

Day & Date	Information Technology (2008 Course)
Tuesday, 15.05.2012	Information Assurance and Security (414441)
Thursday, 17.05.2012	Object Oriented Modeling & Design (410 443)
Saturday 19.05.2012	Software Testing and Quality Assurance(414442)
Tuesday, 22.05.2012	Elective – I (41443) a) Advanced Database Management b) Artificial Intelligence c) Computer Design d) Advanced Operating Systems
Thursday, 24.05.2012	Elective – II (41444) a) Embedded System b) Mobile Computing c) Multimedia Systems

Day & Date	Information Technology (2008 Course)
Saturday, 26.05.2012	Distributed System (414448)
Tuesday, 29.05.2012	Information Retrieval (414449)
Thursday,	<u>Elective – III (414450)</u>
31.05.2012	a) Real Time System
	b) Software Architecture
	c) Advanced Graphics
	d) Advanced Computer Networks
Saturday,	<b>Elective - IV (414451)</b>
02.06.2012	a) Bio Informatics
	b) Neural Network and Expert System
	c) Geo Informatics Systems
	d) Open Elective
	i) Business Intelligence

#### **B.E.** (Computer Engineering) Time: 2.30 p.m. to 5.30 p.m.

#### <u>SEMESTER – I</u>

Day & Date	Computer Engineering (2008 Course)
Tuesday, 15.05.2012	Design & Analysis of Algorithms (410441)
Thursday, 17.05.2012	Principles of Compiler Design (410442)
Saturday 19.05.2012	Object Oriented Modeling & Design (410443)
Tuesday, 22.05.2012	Elective – I (410444) a) Image Processing b) Design & Analysis of Computer Networks c) Artificial Intelligence d) Software Architecture
Thursday, 24.05.2012	Elective – II (410445) a) Multimedia Systems b) Mobile Computing c) Embedded Systems d) Software Testing & Quality Assurance

# **SEMESTER-II**

Day & Date	Computer Engineering (2008 Course)
Saturday, 26.05.2012	Distributed Operating Systems ( 410448 )
Tuesday, 29.05.2012	Advanced Computer Architecture ( 410449)
Thursday, 31.05.2012	Elective- III ( 410450) a) Pattern Recognition b) High Performance Networks c) Neural Networks d) Advanced Databases
Saturday, 02.06.2012	Elective – IV (410451) a) VLSI & Digital Systems Design b) Operations Research c) Cloud Computing d) Information Security e) Open Elective

#### B.E. (Petrochemical Engineering) Time: 2.30 p.m. to 5.30 p.m.

# <u>SEMESTER – I</u>

Day & Date	Petrochemical Engineering (2008 Course)
Tuesday, 15.05.2012	Reaction Engineering – II ( 412401)
Thursday, 17.05.2012	Process Dynamics and Control (412402)
Saturday 19.05.2012	Environmental Engineering (412403)
Tuesday, 22.05.2012	<u>Elective – I (412404)</u> a) Biochemical Engineering b) Novel Separation Processes c) Elements of Fluidization Engineering d) Green Chemistry
Thursday, 24.05.2012	Elective – II (412405)a) Optimization Techniques for Process Industriesb) Emerging feed stocks and Technologies for Petrochemicalsc) Natural Gas Technologyd) Health, Safety and Environment in Process Industry

Day & Date	Petrochemical Engineering (2008 Course)
Saturday, 26.05.2012	Refinery Process Design ( 412408)
Tuesday, 29.05.2012	Plant Design and Process Economics (412409)
Thursday,	Elective – III(412410)
31.05.2012	a) Process Modeling and Simulation
	b) Fine Chemical Industries
	c) Colloidal and Interface Science
	d) Renewable Energy Sources
Saturday,	<b>Elective – IV (412411)</b>
02.06.2012	a) Petroleum Exploration and Production Operations
	b) Catalyst Science and Technology
	c) Polymer Reaction Engineering
	d) Open Elective

#### B.E. (Petroleum Engineering) Time: 2.30 p.m. to 5.30 p.m.

#### <u>SEMESTER – I</u>

Day & Date	Petroleum Engineering (2008 Course)
Tuesday, 15.05.2012	Reservoir Engineering II (412381)
Thursday, 17.05.2012	Petroleum Formation Evaluation (412382)
Saturday 19.05.2012	Well Engineering and Design (412383)
Tuesday, 22.05.2012	<ul> <li><u>Elective - I (412384)</u></li> <li>a) Petroleum Exploration</li> <li>b) Advanced Instrumentation and Process Control in Petroleum Industry</li> <li>c) Programming Database Management and Information Systems in Petroleum Industry</li> <li>d) Mathematical Methods and Modeling in Petroleum Exploration and Production</li> </ul>
Thursday, 24.05.2012	Elective-II (412385) a) Petroleum Refining Technology b) Petroleum Product Analysis c) Non Conventional Hydrocarbon Resources d) Carbon Management in Petroleum Industry

Day & Date	Petroleum Engineering (2008 Course)
Saturday, 26.05.2012	Improved Oil Recovery and Reservoir Simulation( 412387)
Tuesday, 29.05.2012	Petroleum Production Engineering – II (412388)
Thursday,	<b>Elective – III ( 412389)</b>
31.05.2012	a) Advanced Drilling Engineering
	b) Deepwater Technology
	c) Transport of Oil and Gas
	d) Environment Technology and Safety in Petroleum Industry
Saturday,	<u>Elective – IV (412390)</u>
02.06.2012	a) Petroleum Economics
	b) Petroleum Production Enhancement and Optimization
	c) Well Control Methods
	d) Open Elective

### B.E. (Chemical Engineering) Time: 2.30 p.m. to 5.30 p.m.

#### <u>SEMESTER – I</u>

Day & Date	Chemical Engineering (2008 Course)
Tuesday, 15.05.2012	Process Dynamics and Control (409343)
Thursday, 17.05.2012	Chemical Reaction Engineering – II (409344)
Saturday 19.05.2012	Chemical Engineering Design – II (409345)
Tuesday, 22.05.2012	Elective – I (409341) a) Environmental Engineering b) Membrane Technology c) Bioprocess Engineering d) Corrosion Engineering
Thursday, 24.05.2012	Elective – II (409342)         a) Chemical Process Synthesis         b) Advanced Materials         c) Polymer Technology         d) Piping Design & Engineering         e) Advanced Separation Processes         f) Petroleum Refining

# **SEMESTER – II**

Day & Date	Chemical Engineering (2008 Course)
Saturday, 26.05.2012	Process Modelling and Simulation (409351)
Tuesday, 29.05.2012	Process Engineering Costing & Plant Design (409352)
Thursday, 31.05.2012	Elective – III ( 409349)a) Artificial Intelligence In Chemical Engineeringb) Energy Conservation In Chemical Process Industriesc) Chemical Process Safetyd) Food Technology
Saturday, 02.06.2012	<ul> <li>a) Food Feelmongy</li> <li><u>Elective – IV (409350)</u></li> <li>a) Standardization and Quality Assurance in Chemical Process Industry</li> <li>b) Catalysis</li> <li>c) Nanotechnology</li> <li>d) Fuel Cell Technology</li> <li>e) Petrochemical Engineering</li> <li>f) Computer Aided Process Control</li> <li>g) Open Elective</li> </ul>

### **B.E.** (Polymer Engineering) Time: 2.30 p.m. to 5.30 a.m.

#### <u>SEMESTER – I</u>

Day & Date	Polymer Engineering (2008 Course)
Tuesday, 15.05.2012	Polymer Compounding (409361)
Thursday, 17.05.2012	Mold & Die Design – I (409362)
Saturday 19.05.2012	Polymer Processing Operation – II (409363)
Tuesday, 22.05.2012	Elective – I (409364) a) Fiber Technology b) Mechanics of Composites c) Polymer Reaction Engineering
Thursday, 24.05.2012	Elective – II (409365) a) Production Planning and Control b) Surface Coating and Adhensives c) Packaging Technology

Day & Date	Polymer Engineering (2008 Course)
Saturday,	Product Design & Polymer Testing (409368)
26.05.2012	
Tuesday,	Mold & Die Design – II (409369)
29.05.2012	
Thursday,	<u>Elective – III (409370)</u>
31.05.2012	a) Polymer Physics and Characterization
	b) Processing of Composites
	c) Specialty Polymers & Applications
Saturday,	<u>Elective – IV (409371)</u>
02.06.2012	a) Advanced Polymer Rheology
	b) Rubber Technology
	c) Polymer Thermodynamics and Bends
	d) Open Elective

#### B.E. (Instrumentation and Control Engineering) Time: 2.30 p.m. to 5.30 p.m.

#### <u>SEMESTER – I</u>

Day & Date	Instrumentation and Control Engineering (2008 Course)
Tuesday, 15.05.2012	Process Instrumentation (406261)
Thursday, 17.05.2012	Digital Control (406262)
Saturday 19.05.2012	Project Engineering and Management (406263)
Tuesday, 22.05.2012	Elective – I (406264) a) Biomedical Instrumentation b) Laser based Instrumentation c) Advanced Control Systems d) Building Automation – I
Thursday, 24.05.2012	Elective – II (406265)         a) Environmental Instrumentation         b) Nano Instrumentation         c) Advanced Digital Signal Processing         d) Automobile Instrumentation

Day & Date	Instrumentation and Control Engineering (2008 Course)
Saturday, 26.05.2012	Process Dynamics and Control (406267)
Tuesday, 29.05.2012	Industrial Automation (406268)
Thursday, 31.05.2012	Elective – III ( 406269)a) Advanced Biomedical Instrumentationb) Fiber Optic Instrumentationc) Process Modeling and Optimizationd) Building Automation - II
Saturday, 02.06.2012	Elective – IV (406270) a) Instrumentation in Agriculture b) Micro Electro Mechanical Systems c) Digital Image Processing d) Open Elective

**B.E. Biotechnology** Time : 2.30 p.m. to 5.30 p.m.

# <u>SEMESTER – I</u>

Day & Date	Biotechnology (2008 Course)
Tuesday, 15.05.2012	Bioseparation II (415463)
Thursday, 17.05.2012	Instrumentation and Process Control (415464)
Saturday 19.05.2012	Bioprocess Equipment Design (415465)
Tuesday, 22.05.2012	Elective – I (415461) a)Environmental Biotechnology b)Chemoinformatics and Structural Biology c)Bio-therapeutics Technology
Thursday, 24.05.2012	Elective – II (415462) a) Bioenergy and Renewable Resources b) Biomaterials c) Stem Cell Biology and Regenerative Medicine

Day & Date	Biotechnology (2008 Course)
Saturday, 26.05.2012	Bioprocess Modeling and Simulation (415469)
Tuesday, 29.05.2012	Plant Engineering & Project Costing (415470)
Thursday,	<u>Elective – III (415467)</u>
31.05.2012	a) Food Biotechnology
	b) Agricultural Biotechnology
	c) Introduction to Systems Biology
Saturday,	Elective – IV (415468)
02.06.2012	a) Management and Entrepreneurship
	b) IPR,. Bioethics and Regulations
	c) Industrial Organization and Management

- 12. The Practical/Oral/Project Examination will be conducted from 24.04.2012 to 09.05.2012
- 13. Candidates are permitted to use the stencils at the time of examination.
- 14. Candidates appearing for the examination are expected to provide themselves with slide-rules. The exchange or loan of slide-rules, drawing instrument or other material in the examination hall is not permitted while the examination is in progress. Candidates must bring their own instruments and will not be allowed to borrow the same from each other under any circumstances.

Ganeshkhind, Pune-411007 Ref. / XCT/ 530 Date :30.04.2012 **Dr.(Capt.) C.M. Chitale** Controller of Examination (Additional Charge)