

UNIVERSITY OF PUNE



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EXAMINATION SECTION
Ganeshkhind, Pune - 411 007
(Maharashtra) INDIA

Examination Circular No. 92 of 2012
Programme of B.E. 2003 (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 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 Centers and Places of the examination will be as follows :

1. **PUNE :**

| Sr. No. | College Code | Centers and Places of the Examinations |
|---------|--------------|---|
| 1 | 2 | Maharashtra Institute of Technology, Pune 411 038. |
| 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, 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 Engg., Nigdi, Pune 411044. |
| 19 | 34 | Bharati Vidyapeeth's College of Engineering for Women, Pune 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 |
| 21 | 36 | Smt. Kashibai Navale College of Engineering for Women, 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 Engg, 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. Raisonni College of Engineering, Wagholi, Pune 412 207. |

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| 31 | 48 | S.S.M.S. Padmabhushan Vasantdada Patil Inst. Of Tech, Bawadhan (Kd), Pune – 411038. |
| 32 | 49 | P.G..M.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. Rasoni Institute of Engineering & Technology, Gat No. 120 Pune-Nagar Road., Wagholi, Pune --412207 |
| 37 | 55 | Nutan Maharashtra Institute of Engg & Tech., Vishnupuri, Talegaon Station, Tal: Maval, Dist: Pune - 410507 |
| 38 | 57 | STE'S SIT * Science, Nehre Ambegaon, Pune 411041. |
| 39 | 59 | MMM'S Institute of Tech., Sr. No.35 Plot No. 516 Lohagaon, Tal: Haveli, Dist: Pune -411032 |
| 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:

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|----------|-----------|---|
| 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. |
| 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 Research, Eklahare, Nashik- 423 401 |
| 8 | 61 | Sabdeep Institute of Tech. & Research Centre, Mahirwani, Dist: Nashik |
| 9 | 62 | Nashik Gramin S.P.M's Vally, COE & Research, at Anjaneri, Tal: Trambakeshwar, Nashik. |

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

B.E. (Civil)
Time : 2.30 p.m. to 5.30 p.m.

| Day & Date | B.E. (Civil) 2003 Course | B.E. (Civil) 1997 Course |
|-------------------------|---|--|
| Tuesday, 15.05.2012 | Hydrology & Irrigation (2003-401001) | ----- |
| Thursday, 17.05.2012 | Environmental Engg. II (2003-401002) | ----- |
| Saturday 19.05.2012 | Quantity Surveying Contracts & Tenders (2003-401003) *(2. 30 p.m. to 6. 30 p.m.) | ----- |
| Tuesday 22.05.2012 | Structural Design III (2003-401004) *(2. 30 p.m. to 6. 30 p.m.) | ----- |
| Thursday, 24.05.2012 | Elective I (2003-401005) 1. Systems Approach in Civil Engg. 2. Architecture and Town Planning 3. Advanced Geotechnical Engg. 4. Finite Element Method 5. Structural Design of Bridges 6. Advanced Environ-mental Management 7. Geoinformatics | Elective I (1997-401001) 1. Matrix Methods of Structural Analysis 2. System Approach in Civil Engineering 3. Experimental Stress Analysis 4. Construction Management *5. Advanced Surveying and Remote Sensing *(2. 30 p.m. to 6. 30 p.m.) 6. Architecture and Town Planning |
| Saturday, 26.05.2012 | Dams & Hydraulic Structures (2003-401008) | ----- |
| Tuesday, 29..05.2012 | Transportation Engg. II (2003-401009) | ----- |
| Thursday, 31.05.2012 | Foundation Engg. (2003-401010) | ----- |
| Saturday, 02.06.2012 | Elective - II (2003-401007) 1) Advanced Concrete Tech 2) Earthquake Engineering *3) Adv. transportation Engineering *(2. 30 p.m. to 6. 30 p.m.) 4) Adv. Structured Design 5) Construction Management 6) Integrated Water Resources Planning & Management 7) Adv. Engineering Geology with rock Mechanics | Elective-II (1997-401008) 1. Air Pollution 2. Advanced Engineering Geology with Rock Mechanics *3. Advanced Transportation Engg. *(2. 30 p.m. to 6. 30 p.m.) 4. Advanced Analysis and Design of the Structures 5. Earth Structures 6. Concrete Composites & Precast Concrete |

** Please note the timing.*

B.E. (Mechanical)/B.E.(Mechanical Sandwich)

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

| Day & Date | B.E. (Mechanical) 2003 Course | B.E. (Mechanical) 1997 Course | B.E. (Mechanical SW) 2003 Course | B.E. (Mechanical SW) 1997 Course |
|-------------------------|--|--|---|--|
| Tuesday, 15.05.2012 | Mechanical System Design (2003-402041) *(2.30 p.m. to 6.30 p.m.) | Fluid Machinery (1997-402042) Refer T.E. Mech.2003 Course Time Table for date & time | Design Engineering (2003-402061) *(2.30 p.m. to 6.30 p.m.) | ----- |
| Thursday, 17.05.2012 | Dynamics of Machinery (2003-402042) | ----- | Dynamics of Machinery (2003-402042) | |
| Saturday 19.05.2012 | Mechatronics (2003-402043) | Industrial Mgt. II (1997-411044) Refer T.E. Mech.(2003) Time Table for date & time | ----- | Fluid Machinery & Fluid power (1997-402062) |
| Tuesday 22.05.2012 | Gas Turbines and Jet Propulsion (2003-402044) | Elective I (1997-402045) 1. Refrigeration & Air Conditioning (Refer T.E. Mech.(2003) for Date & Time table) 2. Tribology (Refer T.E. Mech.(2003)) 3. Plant Engineering | Industrial Hydraulics & Pneumatics (2003-402062) | ----- |
| Thursday, 24.05.2012 | Elective I(2003-402045) 1. Product Design & Development 2. Material Engg. And their Processing 3. Alternative Energy Sources 4. Kinematic Analysis and Synthesis 5. Operation Research 6. Costing & Cost Control | Elective I(1997-402045) 1.Microprocessor Applications | Elective I(2003-402063) 1. Refrigeration & Air Conditioning 2. Robotics 3. Tribology 4. Automobile 5. Computer Fluid Dynamics | Elective I(1997-402065) 1.Microprocessor Applications |
| Saturday, 26.05.2012 | CAD/CAM & Automation (2003-402047) | ----- | CAD/CAM & Automation (2003-402048) | Manufacturing Management (1997-402067) |
| Tuesday, 29..05.2012 | Power Plant Engg. (2003-402048) | ----- | ----- | ----- |
| Thursday, 31.05.2012 | Industrial Fluid Power (2003-402049) | ----- | ----- | ----- |
| Saturday, 02.06.2012 | Elective II(2003-402050) 1. Robotics 2. Comp. Fluid Dynamics 3. Energy Management 4. Rapid Prototyping 5. Reliability Engg. 6. Automobile Engg. | Elective II(1997-402051) 1.. Advanced M/C Design | Elective-III (2003-402065) 1. Industrial Engg. 2. Costing & Cost Control 3. Production Management 4. Machine Tools Design 5. Non-conventional Energy | Advanced M/C Designing (1997-402065) |
| Tuesday, 05.06.2012 | ----- | Applied Thermodynamics-III (1997-402043) | ----- | Applied Thermodynamics-III (1997-402043) |

* Please note the timing.

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

| Day & Date | B.E. (Industrial Engineering) 2003 Course | B.E. (Industrial Engineering) 1997 Course |
|-------------------------|---|---|
| Tuesday, 15.05.2012 | Quantitative Techniques (2003-411101) | Material Control (1997-411101) |
| Thursday, 17.05.2012 | Business Accounting & Costing (2003-411102) | ----- |
| Saturday 19.05.2012 | Human Factors Engineering (2003-411103) | Work study Applications (1997-411103) Refer T.E. (Ind. Engg.) (2003) Time Table for Date & Time |
| Tuesday 22.05.2012 | Logistics Warehousing (2003-411104) | ----- |
| Thursday, 24.05.2012 | Elective I (2003-411105) 1. Supply Chain Mgnt. 2. Simulation Modeling & Analysis 3. Units Operation 4. Project Management | Elective I (1997-411105) 1.Safety Engineering |
| Saturday, 26.05.2012 | Flexible Manufacturing System (2003-411108) | ----- |
| Tuesday, 29..05.2012 | Advanced Manufacturing Processes (2003- 411109) | Industrial Engineering Applications in service Sector (1997-411109) |
| Thursday, 31.05.2012 | Energy Management (2003-411110) | Development of Human Resources (411110) |
| Saturday, 02.06.2012 | Elective - II (2003-411111) 1. Entrepreneurship Development 2. Plastic Engineering 3. Industrial & Commercial Laws 4. Material Logistic | Elective II (1997-411111) 1. Production Design 2. Computer Aided Manufacturing 3. Environmental Engg. 4. Industrial and Commercial Laws |

B.E. (Production Engineering/) B.E. (Produ. Sandwich)
Time : 2.30 p.m. to 5.30 p.m.

| Day & Date | B.E. (Prod. Engg.) 2003 Course | B.E. (Prod. Engg.) 1997 Course | B.E. (Prod. Sandwich) 2003 Course | B.E. (Prod. Sandwich) 1997 Course |
|-------------------------|---|--|---|--|
| Tuesday, 15.05.2012 | Production Management (2003-411081) | ----- | Mechatronics & Robotics (2003-411121) | ----- |
| Thursday, 17.05.2012 | Machine Tool Design (2003-411082) | ----- | Machine Tool Design (2003-411082) | ----- |
| Saturday 19.05.2012 | Manufacturing Automation and Control (2003-411083) | ----- | Manufacturing Automation and Control (2003-411083) | ----- |
| Tuesday 22.05.2012 | Operation Research (2003-411084) | ----- | Operation Research & Management (2003-411126) | ----- |
| Thursday, 24.05.2012 | Elective I (2003-411185) 1. Reliability Engineering 2. Powder Metallurgy 3. Plant Engg. and Maintenance 4. Material Handling Technology & Equipment Design | Elective I (1997-411085) 1. Materials Management 2. Advances in Material Sciences | Elective – I (2003)(411122) 1.Ergonomics 2. Financial Mgt. 3. Die & Mould Design 4. Adv. Product Technique 5.Reliability Engineering | Elective-I (1997-411085) 1. Powder Metallurgy 2. Advances in Material Sciences 3. Plant Engineering 4. Robotics & Its Industrial Appln. |
| Saturday, 26.05.2012 | Material & Financial Management (2003-411087) | Industrial Relation & Manufacturers Management (1997-411125) | ----- | Industrial Relation & Manufacturers Management (1997-411125) |
| Tuesday, 29..05.2012 | Process Planning & Tools Selection (2003- 411088) | ----- | ----- | ----- |
| Thursday, 31.05.2012 | CAD/CAM/CIM (2003-411089) | ----- | ----- | ----- |
| Saturday, 02.06.2012 | Elective II (2003-411090) 1. Robotics 2. Ergonomics and Human Factors in Engineering 3. Adv. Material Processing 4. Adv. Production Tech. | Elective II (1997-411091) 1. Production Processes & Design 2. Case Studies in Production Management Operation Research Problems & Quality Control | Elective II (2003-411125) 1. Plant Engg. & Facility Layout 2. Supply Chain Mgnt. 3. Industrial & Commercial Law 4. Project Management | ----- |

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

| Day & Date | B.E. (Electrical) 2003 Course | B.E. (Electrical) 1997 Course | B.E. (Elect. Sandwich) 2003 Course | B.E. (Elect. Sandwich) 1997 Course |
|-------------------------|---|--|---|--|
| Tuesday, 15.05.2012 | Power System Operation & Control (2003-403141) | ----- | ----- | Microprocessor Techniques (1997-403161) |
| Thursday, 17.05.2012 | Utilization of Electrical Energy (2003-403142) | ----- | ----- | Electrical Power II (1997-403162) |
| Saturday 19.05.2012 | Industrial Drives & Control (2003-403144) | Control System I (1997-403144) Refer T.E. (Electrical) (2003) Time Table for Date & Time | ----- | Protective Systems & Switchgear (1997-403163) |
| Tuesday 22.05.2012 | Control System II (2003-403145) | Design of Electrical Machines (1997-403145) Refer T.E. (Electrical) (2003) Time Table for Date & Time | ----- | ----- |
| Thursday, 24.05.2012 | Elective I (2003-403143) 1. Robotics & Automation 2. Power Quality 3. Illumination Engineering 4. Project Management 5. Restructuring & Deregulation | ----- | ----- | Elective I (1997-403141) 1. Energy Audit and Conservation 2. Robotics & Automation 3. Electromechanical Energy Conversion 4. Modern Power System Practice |
| Saturday, 26.05.2012 | Energy Management (2003-403147) | ----- | ----- | ----- |
| Tuesday, 29.05.2012 | Switchgear & Protection (2003-403148) | ----- | ----- | ----- |
| Thursday, 31.05.2012 | Digital Control System (2003-403149) | Electrical Machine III (1997-403148) Refer T.E.(Electrical) 2003 Time Table for Date & Time | ----- | ----- |
| Saturday, 02.06.2012 | Elective II (2003-403150) 1. VLSI Design 2. High Voltage Engineering 3. Digital Signal Processing 4. ANN & Application in Electrical Engineering | Elective II (1997-403148) 1. Advanced Microprocessor Techniques | ----- | ----- |

B.E. (Electronics & Telecommunication)

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

| Day & Date | B.E. (Electro. & Telecomm.) 2003 Course | B.E. (Electro. & Telecomm.) 1997 Course |
|-------------------------|---|---|
| Tuesday, 15.05.2012 | Computer Network (2003-404214) | Computer Architecture (1997-404181) |
| Thursday, 17.05.2012 | Voice Network (2003-404215) | Digital Signal Processing (1997-404183) |
| Saturday 19.05.2012 | Electronics Product Design (2003-404216) | Radiation & Microwave Techniques (1997-404182) |
| Tuesday 22.05.2012 | VLSI Design (2003-404217) | Elective I (1997-404185) VLSI Design |
| Thursday, 24.05.2012 | Elective I (2003-404218) 1. Embedded System Design 2. Advanced Power Electronics 3. Artificial Neural Networks 4. Robotics and Industrial Automation 5. Adv. Digital Signal Processing | Elective I (1997-404185) 1. Advanced Power Electronics 2. Systems Programming 3. Robotics 4. Information Technology |
| Saturday, 26.05.2012 | Electronics Measurement System (2003-404222) | ----- |
| Tuesday, 29.05.2012 | Telecom. Networks & Management (2003-404223) | Consumer Electronics (404189) |
| Thursday, 31.05.2012 | Optical & Microwave Communication (2003-404224) | Communication Network (1997-404188) |
| Saturday, 02.06.2012 | Elective - II (2003-404225) 1. Adv. Communication System 2. Digital Image Processing 3. Biomedical Engineering 4. System Programming & Operating System | Elective II (404191) 1. Fiber Optic Communication 2. Agriculture Electronics 3. Microwave Engg. 4. Software Engg. 5. PLC & Industrial Controllers 6. Image Processing |
| Tuesday, 05.06.2012 | Elective - II (2003-404225) Audio-Video Engg. | Elective - I (1997-404185) Auto-Video Engg. |

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

| Day & Date | B.E. (Electronics) 2003 Course | B.E. (Electronics) 1997 Course |
|-------------------------|---|--|
| Tuesday, 15.05.2012 | Computer Network (2003-404201) | Electronics Communication-II (1997-404201) |
| Thursday, 17.05.2012 | Electronic Product Design (2003-404202) | ----- |
| Saturday 19.05.2012 | Advanced Power Electronics (2003-404203) | Digital Signal Processing & Application (1997-404203) |
| Tuesday 22.05.2012 | VLSI Design (2003-404204) | VLSI Design (1997-404210) |
| Thursday, 24.05.2012 | Elective I (2003-404205) 1. Embedded System Design 2. Process Instrumentation 3. Adv. D.S.P. 4. Advanced Communication Engg. 5. Software Engineering | Elective I (1997-404205) 1. Process Instrumentation 2. Microwave Techniques 3. Medical Electronics I 4. Computer Interfacing 5. Informatics Technology |
| Saturday, 26.05.2012 | Electronics Measurement System (2003-404209) | ----- |
| Tuesday, 29.05.2012 | Management Information System (2003-404210) | Modern Electronics System (1997-404208) |
| Thursday, 31.05.2012 | Biomedical Electronics (2003-404211) | Computer Based Simulation Modeling (1997-404209) |
| Saturday, 02.06.2012 | Elective - II(2003-404212) 1. Real Time Operating Sys 2. Artificial Intelligence 3. Robotics & Industrial Automation 4. System Programming & Operation System 5 Digital Image Processing | Elective II (1997-404210) 1. Optical Fiber Communication 2. Power Electronics III 3. Medical Electronics II 4. Advanced Computer Programming 5. Image Processing |
| Tuesday, 05.06.2012 | ----- | Elective-I (1997-404185) Audio-Video Engg. |

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

| Day & Date | B.E. (Industrial Electronics) 2003 Course | B.E. (Industrial Electronics) 1997 Course |
|-------------------------|--|---|
| Tuesday, 15.05.2012 | ----- | Digital Signal Processing (1997-404221) |
| Thursday, 17.05.2012 | ----- | Power Electronics Drives and Applications (1997-404222) |
| Saturday 19.05.2012 | ----- | Power Electronics-II (1997-404202) Electronic System Design (1997-404223) |
| Tuesday 22.05.2012 | ----- | Industrial Instrumentation (1997-404224) |
| Thursday, 24.05.2012 | ----- | Elective I (1997-404225) 1. Information Technology 2. Micro Controller 3. Opto. Electronics 4. Data Communication 5. Electronics Circuits Modeling & Simulation 6. Advanced Computer Programming |
| Saturday, 26.05.2012 | ----- | Computer Technique (1997-404227) |
| Tuesday, 29..05.2012 | ----- | Biomedical Engineering (1997-404228) |
| Thursday, 31.05.2012 | ----- | Robotics & C.N.C. (1997-404229) |
| Saturday, 02.06.2012 | ----- | Elective II (1997-404230) 1. A.C. Motor Drives 2. Software Engg. 3. Advanced Digital Control 4. Image Processing 5. Programmable Industrial Controllers 6. Agricultural Electronics Engineering |
| Tuesday, 05.06.2012 | ----- | Elective I (1997-404185) Audio-Video Engg. |

B.E. (Metallurgy)/ B.E.(Metallurgy Sandwich)**Time : 2.30 p.m. to 5.30 p.m.**

| Day & Date | B.E. (Metallurgy) 2003 Course | B.E. (Metallurgy) 1997 Course | B.E. (Meta.Sandwich) 2003 Course | B.E. (Meta.Sandwich) 1997 Course |
|-------------------------|--|--|---|--|
| Tuesday, 15.05.2012 | ----- | Industrial Organization & Management I (1997-405302) | ----- | Elective I (1997-405301) 1. Engineering Materials Technology 2. Corrosion & Corrosion Control 3. Energy Resources & Applications 4. Processes of Ore Formation |
| Thursday, 17.05.2012 | ----- | Advanced Manu- facturing Processes (1997-405305) | ----- | Technical Control & Management (1997-405321) |
| Saturday 19.05.2012 | ----- | ----- | ----- | Industrial Metallurgy II (1997-405322) |
| Tuesday 22.05.2012 | ----- | Selection of Materials & Failure Analysis (1997-405304) | ----- | Selection of Materials & Failure Analysis (1997-405304) |
| Thursday, 24.05.2012 | ----- | Elective II (1997-405308) 1. Metallurgy & Science of Welding 2. Powder Metallurgy 3. Composite Materials 4. Advanced Testing, Inspection and Quality Control | ----- | Furnace Technology (1997-405309) |
| Saturday, 26.05.2012 | ----- | Furnace Technology (405309) | ----- | Structure of Metallurgy (1997-405322) |
| Tuesday, 29..05.2012 | ----- | Modern Materials Technology (405310) | ----- | ----- |
| Thursday, 31.05.2012 | ----- | Industrial Organization and Management II (405311) | ----- | ----- |
| Saturday, 02.06.2012 | ----- | Structural Metallurgy (1997 - 405303) | ----- | ----- |
| Tuesday, 05.06.2012 | ----- | Elective-I(405301) 1. Engineering Materials Technology 2. Corrosion & Corrosion Control 3. Energy Resources & Applications 4. Processes of Ore Formation | ----- | ----- |

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

| Day & Date | B.E. (Instrumentation and Control) 2003 Course | B.E. (Instrumentation and Control) 1997 Course |
|-------------------------|--|---|
| Tuesday, 15.05.2012 | Process Instrumentation - I (2003-406261) | ----- |
| Thursday, 17.05.2012 | Project Engineering & Management (2003-406262) | ----- |
| Saturday 19.05.2012 | Digital Control (2003-406263) | ----- |
| Tuesday 22.05.2012 | ----- | DCS & Communication protocols (1997-406265) |
| Thursday, 24.05.2012 | Elective I (2003-406264) 1. Biomedical Instrumentation 2. Instrumentation for Environmental Engg. 3. Laser Application in Instrumentation 4. Advanced Control System 5. Building Automation – I | Elective I (1997-406261) 1. Power Electronics 2. Reliability Engineering |
| Saturday, 26.05.2012 | Process Instrumentation – II (2003-406267) | ----- |
| Tuesday, 29.05.2012 | Computer Technology & Application (2003-406268) | ----- |
| Thursday, 31.05.2012 | Industrial Automation (2003- 406269) | ----- |
| Saturday, 02.06.2012 | Elective – II (2003-406270) 1. Adv. Biomedical Instrumentation 2. Power Plant Instrumentation 3. Fiber Optic Instrumentation 4. Process Modeling & Optimization 5. Building Automation – II | Elective II (1997-406268) 1. Process Modelling and Optimization 2. Instrumentation for Agriculture & Food Processing |
| Tuesday, 05.06.2012 | ----- | Instrumentation & System Design (1997-406271) |

B.E. (Printing Engineering & Communication Technology)
Time : 2.30 p.m. to 5.30 p.m.

| Day & Date | B.E. (Printing Engineering & Communication Technology) 2003 Course | B.E. (Printing Engineering & Communication Technology) 1997 Course |
|-------------------------|--|---|
| Tuesday, 15.05.2012 | Costing & Estimating & Project Management, Operation Research (2003-408282) | ----- |
| Thursday, 17.05.2012 | Surface Preparation-II (2003-408283) | ----- |
| Saturday 19.05.2012 | Offset Machine-II (2003-408284) | ----- |
| Tuesday 22.05.2012 | Electronic Image Setting (2003-408285) | ----- |
| Thursday, 24.05.2012 | Elective I (2003-408281) 1. Newspaper Technology 2. Flexible Packaging 3. Security Printing | ----- |
| Saturday, 26.05.2012 | Technology of Grevere & Flexo Graphy. (2003-408288) | ----- |
| Tuesday, 29..05.2012 | Assembly & Maintenance of Printing Machine (2003-408289) | ----- |
| Thursday, 31.05.2012 | Substrates & Ink Technology (2003-408290) | ----- |
| Saturday, 02.06.2012 | Elective - II (2003-408287) 1. Study of Materials & Package Design 2. Image Conversion & Modification 3. Study of Advt. & Multimedia 4. Information Technology | ----- |

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

| Day & Date | B.E. (Chemical) 2003 Course | B.E. (Chemical) 1997 Course |
|-------------------------|--|---|
| Tuesday, 15.05.2012 | Process Dynamics and Control (2003-409342) | Mass Transfer II Refer to T.E. (Chemical) (309350) Time Table for Date & Time |
| Thursday, 17.05.2012 | Chemical Reaction Engg. II (2003-409343) | ----- |
| Saturday 19.05.2012 | Chemical Process Synthesis (2003-409344) | ----- |
| Tuesday 22.05.2012 | Process Equipment Design II (2003-409345) | ----- |
| Thursday, 24.05.2012 | Elective I (2003-409341) 1. Environmental Engg. 2. Bioprocess Engg. 3. Energy Conservation 4. Polymer Technology 5. Catalysts 6. Adv. Separation Processes 7. Petroleum Refining | ----- |
| Saturday, 26.05.2012 | Process Modeling & Simulation (2003-409349) | Plant Design & Project Engineering (1997-409347) |
| Tuesday, 29.05.2012 | Project Costing & Appraisal (2003-409350) | Process Modeling & Simulation (1997-409348) |
| Thursday, 31.05.2012 | Chemical Plant Engineering (2003-409351) | Transport Phenomena (1997-405344) |
| Saturday, 02.06.2012 | Elective - II (2003-409348) 1. Computer Aided process Control 2. Food Technology 3. Advanced Materials 4. Industrial Hazards & Safety 5. Piping Design & Engineering 6. Fuel Cell Technology 7. Petrochemical Engineering | Process Dynamics and Control (1997-409350) |

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

| Day & Date | B.E. (Polymer Engineering) 2003 Course | B.E. (Polymer Engineering) 1997 Course |
|-------------------------|--|---|
| Tuesday, 15.05.2012 | Polymer Structure & Property Relationship (2003-409361) | ----- |
| Thursday, 17.05.2012 | Polymer Processing Operations I (2003-409362) | ----- |
| Saturday 19.05.2012 | Polymer Composites & Blends (2003-404363) | ----- |
| Tuesday 22.05.2012 | Mould & Die Design (2003-409364) *(2.30 p.m. to 6.30 p.m.) | ----- |
| Thursday, 24.05.2012 | Elective - I (2003-409366) 1. Polymer Reaction Engg. 2. Rubber Technology 3. Surface Coating and Adhesive 4. Advanced Polymer Rheology | ----- |
| Saturday, 26.05.2012 | Product Design & Computer Application (2003-404368) | ----- |
| Tuesday, 29..05.2012 | Polymer Processing Operations II (2003-409369) | ----- |
| Thursday, 31.05.2012 | Industrial Management & Process Economics (2003-409370) | ----- |
| Saturday, 02.06.2012 | Elective - II (2003-409367) 1. Specialty Polymer 2. Fiber Technology 3. Mechanics of Composites 4. Packing Technology | ----- |

***Please note the Timing**

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

| Day & Date | B.E. (Petroleum Engineering) 2003 Course | B.E. (Petroleum Engineering) 1997 Course |
|-------------------------|---|---|
| Tuesday, 15.05.2012 | Reservoir Engineering I (2003-412381) | ----- |
| Thursday, 17.05.2012 | Petroleum Exploration (2003-412382) | ----- |
| Saturday 19.05.2012 | Formation Evaluation (2003-412383) | ----- |
| Tuesday 22.05.2012 | Natural Gas Engineering (2003-412384) | ----- |
| Thursday, 24.05.2012 | Elective I (2003-412385) 1. Refining and Petrochemical Technology 2. Applied Computational Techniques 3. Environment Safety & Health in Petroleum Industries | ----- |
| Saturday, 26.05.2012 | Reservoir Engineering II (2003-412388) | ----- |
| Tuesday, 29..05.2012 | Petroleum Production Engineering II (2003-412389) | ----- |
| Thursday, 31.05.2012 | Oil Well Drilling Engineering (2003-412390) | ----- |
| Saturday, 02.06.2012 | Elective - II (2003-412391) 1. Petroleum Economics 2. Integrated Reservoir Management 3. Deepwater Technology | ----- |

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

| Day & Date | B.E. (Petro-Chemical Engineering) 2003 Course | B.E. (Petro-Chemical Engineering) 1997 Course |
|-------------------------|--|--|
| Tuesday, 15.05.2012 | Refining Operation (2003-412401) | ----- |
| Thursday, 17.05.2012 | Petrochemical Processes (2003-412402) | ----- |
| Saturday 19.05.2012 | Reaction Engineering II (2003-412403) | ----- |
| Tuesday 22.05.2012 | Process Dynamics & Control (2003-412404) | ----- |
| Thursday, 24.05.2012 | Elective I (2003-412405) 1. Environmental Engg. 2. Novel Separation Process 3. Interface and Colloid Science | ----- |
| Saturday, 26.05.2012 | Refinery Process Design (2003-412407) | ----- |
| Tuesday, 29..05.2012 | Natural Gas Technology (2003-412408) | ----- |
| Thursday, 31.05.2012 | Process Economics & Project Engineering (2003-412409) | ----- |
| Saturday, 02.06.2012 | Elective II (2003-412411) 1. Catalysis Technology And Fluidization Engineering 2. Biochemical Engineering 3. Petroleum Exploration and Production Operation | ----- |

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

| Day & Date | B.E. (Computer Engineering) 2003 Course | B.E. (Computer Engineering) 1997 Course |
|-------------------------|--|---|
| Tuesday, 15.05.2012 | Design & Analysis of Algorithms (2003-410441) | ----- |
| Thursday, 17.05.2012 | Operating Systems (2003-410242) | ----- |
| Saturday 19.05.2012 | Object Oriented Modeling & Design (2003-410443) | ----- |
| Tuesday 22.05.2012 | Principles of Compiler Design (2003-410444) | ----- |
| Thursday, 24.05.2012 | Elective- I (2003-410445) 1. Image Processing 2. Advanced Databases 3. Artificial Intelligence 4. Multimedia System | Elective- I (1997-410245) 1. Digital System Design |
| Saturday, 26.05.2012 | Networks & Information Security (2003-410448) | ----- |
| Tuesday, 29.05.2012 | Advanced Computer Architecture & Computing (2003-410449) | Project Planning & Management (1997-410250) |
| Thursday, 31.05.2012 | Software Testing & Quality Assurance (2003-410450) | Multimedia Techniques (1997-410252) |
| Saturday, 02.06.2012 | Elective - II (2003-410451) 1. Distributed System 2. Software Architecture 3. Embedded System 4. High Performance Networks | Elective- II (1997-410251) 1. Advanced Digital Signal Processing 2. Advanced Unix Programming 3. Object oriented Component & Systems |
| Tuesday, 05.06.2012 | ----- | Computer Network (1997- 410241) |

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

| Day & Date | B.E. (Information Technology) 2003 Course | B.E. (Information Technology) 1997 Course |
|-------------------------|---|--|
| Tuesday, 15.05.2012 | Information System Security (2003-414441) | ----- |
| Thursday, 17.05.2012 | Advanced Database Management (2003-414442) | ----- |
| Saturday 19.05.2012 | Object Oriented Modeling & Design (2003-414443) | ----- |
| Tuesday 22.05.2012 | Software Testing & Quality Assurance (2003-414444) | ---- |
| Thursday, 24.05.2012 | Elective-I (2003-414445) (1) Bio-informatics (2) Mobile Computing (3) GIS & Remote Sensing (4) Org. Behaviour & Mgnt. | Elective-I (1997-410445) (1) Managerial Economics (2) ERP |
| Saturday, 26.05.2012 | System Operation and Maintenance (2003-414448) | ----- |
| Tuesday, 29..05.2012 | Distributed System (2003-414449) | ----- |
| Thursday, 31.05.2012 | Information Retrieval (2003-414450) | ----- |
| Saturday, 02.06.2012 | Elective II (2003-414451) 1. Artificial Intelligence 2. Software Architecture 3. Real Time System 4. Embedded System | Elective-II (1997-410452) 1. Object Oriented Component Application 2. Multimedia Application |

B.E. (Biotechnology)
Time : 2.30 p.m. to 5.30 p.m.

| Day & Date | B.E. (Biotechnology) 2003 Course |
|-------------------------|--|
| Tuesday, 15.05.2012 | Enzyme and Fermentation Engineering (2003 – 416282) |
| Thursday, 17.05.2012 | Chemical Reaction Engineering – II (2003 – 409343) |
| Saturday 19.05.2012 | Bioprocess Equipment Design (2003 – 416283) |
| Tuesday 22.05.2012 | Novel Separation Techniques (2003 – 416284) |
| Thursday, 24.05.2012 | Elective I – (2003 – 416281) 1) Pharmaceutical Biotechnology 2) Environmental Biotechnology 3) Cosmetic Biotechnology 4) Metabolic Engg. |
| Saturday, 26.05.2012 | Analytical Biotechnology (2003 – 416287) |
| Tuesday, 29..05.2012 | Bioinformatics and Regulations (2003 – 416288) |
| Thursday, 31.05.2012 | Plant Engineering (2003 – 409289) |
| Saturday, 02.06.2012 | Elective II – (2003 – 416286) 1) Biomaterials 2) Food Technology 3) Nano Biotechnology 4) Biothicks & Biosafety |

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.
15. Use of non-programmable battery operated electronic calculator of pocket size is allowed. The exchange of calculator is not allowed.
16. Candidates of B.E. (Part I) (1997 Courses) will have to appear for the equivalence Subject under 2003 Course wherever equivalence have been given under the concerned branches

Ganeshkhind, Pune-411007
Ref. / XCT / 470
Date : 18.04.2012

Dr. (Capt.)C.M. Chitale
Controller of Examinations.
(Additional Charge)