



# G.H. RAISONI COLLEGE OF ENGINEERING, NAGPUR.

(An Autonomous Institution under UGC Act, 1956)

C.R.P.F. Gate No. 3, Hingna Road, Digdoh Hills, Nagpur, Maharashtra 440 016 (India)

## List of Sixth Semester B.E. Electives

(AUTONOMOUS)

| S.N. | Name of Branch                              | (New Scheme) Elective-I            | (Old Scheme) Elective-I                              | Open Elective (All Branches)   |
|------|---|------------------------------------|--|--|
| 1.   | Civil Engineering                           | 1. Operation Research & Management | 1. Geology & Earth Science                           | 1. Optimisation Techniques<br>2. Environmental Science<br>3. Sensors & Transducers (Except Electronics Engg. and Electronics & Telecommunication Engg.)<br>4. Intellectual Property Right<br>5. Fuzzy Logic<br>6. Foundation Course in IT Management<br>7. Nanotechnology<br>8. Unconventional Energy Systems<br>9. Material Science<br>10. Constitution of India<br>11. Genetic Engineering<br>12. Principles of Business Management<br>13. Foundation Course in Marketing Management<br>14. Foundation Course in Human Resource Management<br>15. Business Legislation<br>16. Foundation Course in Accounting<br>17. Quantitative Decision Making<br>18. Financial Management<br>19. Finance for non Financials<br>20. Bio Systems in Engineering<br>21. Reliability Engineering |
|      |   | 2. Geology & Earth Science         | 2. Advanced Concrete Design                          |  |
|      |   | 3. Advanced Structural Design      | 3. Ground Water Management                           |  |
|      |   | 4. Ground Water Management         | 4. Operation Research & Management                   |  |
|      |   | 5. Earthquake Resistant Structures | 5. Environmental Management                          |  |
|      |   | 6. Environmental Management        |  |  |
| 2.   | Mechanical Engineering                      |                                    | 1. Power Plant Engineering                           |  |
|      |   |                                    | 2. Design of Mechanical Drives                       |  |
|      |   |                                    | 3. Artificial Intelligence                           |  |
|      |   |                                    | 4. Quality & Reliability Engineering                 |  |
|      |   |                                    | 5. Mechanical Vibration                              |  |
|      |   |                                    | 6. Advanced I.C. Engines                             |  |
| 3.   | Electrical Engineering                      |                                    | 1. Microprocessor Based Systems                      |  |
|      |   |                                    | 2. Digital Signal Processing                         |  |
|      |   |                                    | 3. Industrial Instrumentation And Automation         |  |
|      |   |                                    | 4. Electrical Energy Management                      |  |
| 4.   | Electronics Engineering                     |                                    | 1. Computer Graphics & Visualization                 |  |
|      |   |                                    | 2. TV Engineering                                    |  |
|      |   |                                    | 3. Mobile Communication                              |  |
|      |   |                                    | 4. Sensors & Transducers                             |  |
|      |   |                                    | 5. Biomedical Engineering                            |  |
|      |   |                                    | 6. Verilog HDL                                       |  |
| 5.   | Electronics & Telecommunication Engineering |                                    | 1. Computer Graphics & Visualization                 |  |
|      |   |                                    | 2. CMOS VLSI Design                                  |  |
|      |   |                                    | 3. Sensors & Transducers                             |  |
|      |   |                                    | 4. Communication Protocol Design                     |  |
| 6.   | Information Technology                      | (New Scheme) Elective-II           |  |  |
|      |   | 1. E-Commerce                      | 1. Computer Graphics & Visualization                 |  |
|      |   | 2. AI and Expert System            | 2. Soft Computing                                    |  |
|      |   | 3. Data Mining And Warehousing     | 3. Scripting Languages                               |  |
|      |   | 4. Digital Image Processing        | 4. Management Information Systems                    |  |
|      |   | 5. Multimedia Systems              | 5. Cyber Laws  |  |
| 7.   | Computer Science & Engineering              |                                    | 1. E-Commerce  |  |
|      |   |                                    | 2. Computer Graphics And Visualisation               |  |
|      |   |                                    | 3. Java Programming                                  |  |
|      |   |                                    | 4. Distributed Databases & Object Oriented Databases |  |
|      |   |                                    | 5. Enerprise Resource Planning                       |  |