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| --- |
| **Semester I** |
| S No | Sub Code | Subject Title | L\* | T\* | P\* | Total Hours | Credits |
| 1 | AM | 5101 | Engineering Mathematics-I | 3 | 1 | - | 4 | 4 |
| 2 | AP | 5101 | Engineering Physics | 3 | 1 | - | 4 | 4 |
| 3 | CS | 5101 | Object Oriented Programming | 3 | - | - | 3 | 3 |
| 4 | EE | 5101 | Basic Electrical & Electronics Engineering | 3 | 1 | - | 4 | 4 |
| 5 | IT | 5101 | Fundamentals of IT & Applications | 3 | 1 | - | 4 | 4 |
| 6 | IT | 5102 | Digital Electronic & Logic Design | 3 | 1 | - | 4 | 4 |
| 7 | AP | 5151 | Engineering Physics Lab | - | - | 2 | 2 | 1 |
| 8 | CS | 5151 | Object Oriented Programming lab | - | - | 2 | 2 | 1 |
| 9 | EE | 5151 | Basic Electrical & Electronics Engineering Lab | - | - | 2 | 2 | 1 |
| 10 | IT | 5151 | Fundamentals of IT & Applications lab | - | - | 3 | 3 | 1 |
|  |  |  | Total | 18 | 5 | 9 | 32 | 27 |
| 11 | GP | 5151 | General Proficiency | - | - | - |  | 1 |
| **Semester II** |
| S No | Sub Code | Subject Title | L\* | T\* | P\* | Total Hours | Credits |
| 1 | AC | 5201 | Engineering Chemistry | 3 | 1 | - | 4 | 4 |
| 2 | AM | 5201 | Engineering Mathematics-II | 3 | 1 | - | 4 | 4 |
| 3 | HU | 5201 | Communication Skills | 3 | - | - | 3 | 3 |
| 4 | IT | 5201 | Data Structures | 3 | 1 | - | 4 | 4 |
| 5 | IT | 5202 | Microprocessor & Interfacing | 3 | 1 | - | 4 | 4 |
| 6 | IT | 5203 | Internet Programming | 3 | - | - | 3 | 3 |
| 7 | AC | 5251 | Engineering Chemistry lab | - | - | 2 | 2 | 1 |
| 8 | HU | 5251 | Communication Skills Lab | - | - | 2 | 2 | 1 |
| 9 | IT | 5251 | Data Structures lab | - | - | 2 | 2 | 1 |
| 10 | IT | 5252 | Microprocessor & Interfacing lab | - | - | 2 | 2 | 1 |
| 11 | IT | 5253 | Internet Programming lab | - | - | 2 | 2 | 1 |
|  |  |  | Total | 18 | 4 | 10 | 32 | 27 |
| 12 | GP | 5251 | General Proficiency | - | - | - |  | 1 |
| 13 | TP | 5251 | Industrial Training (8 weeks during Summer Vacation) | - | - | - |  | 2 |
| **Semester III** |
| S No | Sub Code | Subject Title | L\* | T\* | P\* | Total Hours | Credits |
| 1 | EV | 6101 | Environmental Science & Engineering | 3 | - | - | 3 | 3 |
| 2 | HU | 6101 | Entrepreneurship & Business Management | 3 | - | - | 3 | 3 |
| 3 | IT | 6101 | Operating System Concepts | 3 | 1 | - | 4 | 4 |
| 4 | IT | 6102 | Data Communication Systems | 3 | 2 | - | 5 | 5 |
| 5 | IT | 6103 | Interactive Computer Graphics | 3 | 2 | - | 5 | 5 |
| 6 | IT | 6104 | Computer Architecture & Organization | 3 | 1 | - | 4 | 4 |
| 7 | IT | 6151 | Operating System Concepts lab | - | - | 4 | 4 | 2 |
| 8 | IT | 6152 | Data Communication Systems lab | - | - | 2 | 2 | 1 |
| 9 | IT | 6153 | Interactive Computer Graphics lab | - | - | 2 | 2 | 1 |
|  |  |  | Total | 18 | 6 | 8 | 32 | 28 |
| 10 | GP | 6151 | General Proficiency | - | - | - |  | 1 |
| **Semester IV** |
| S No | Sub Code | Subject Title | L\* | T\* | P\* | Total Hours | Credits |
| 1 | AM | 6201 | Numerical Methods | 3 | - | - | 3 | 3 |
| 2 | IT | 6201 | Relational Database Management System | 3 | 2 | - | 5 | 5 |
| 3 | MS | 6201 | Material Science & Engineering | 3 | - | - | 3 | 3 |
| 4 | IT | 6202 | Computer Networks & Security | 3 | 2 | - | 5 | 5 |
| 5 | IT | 6203 | Multimedia Technology | 3 | 2 | - | 5 | 5 |
| 6 | OP | \*\*P62\*\* | Open Elective | 3 | - | - | 3 | 3 |
| 7 | AM | 6251 | Numerical Methods lab | - | - | 2 | 2 | 1 |
| 8 | IT | 6251 | Relational Database Management System lab | - | - | 2 | 2 | 1 |
| 9 | MS | 6251 | Material Science & Engineering Lab | - | - | 2 | 2 | 1 |
| 10 | IT | 6252 | Computer Networks & Security lab | - | - | 2 | 2 | 1 |
|  |  |  | Total | 18 | 6 | 8 | 32 | 28 |
| 11 | GP | 6251 | General Proficiency | - | - | - |  | 1 |
| **Semester V** |
| **S No** | **Sub Code** | **Subject Title** | **L\*** | **T\*** | **P\*** | **Total Hours** | **Credits** |
| 1 | IT | 7101 | Software Project Management | 3 | 1 | - | 4 | 4 |
| 2 | IT | 7102 | Web Application Engineering | 3 | 1 | - | 4 | 4 |
| 3 | IT | 7103 | Enterprise Resource Planning | 3 | 1 | - | 4 | 4 |
| 4 | IT | 7104\* | Elective-I | 3 | 1 | - | 4 | 4 |
| 5 | IT | 7105\* | Elective-II | 3 | 1 | - | 4 | 4 |
| 6 | IT | 7151 | Software Project Management lab | - | - | 2 | 2 | 1 |
| 7 | IT | 7152 | Web Application Engineering lab | - | - | 2 | 2 | 1 |
| 8 | IT | 7160 | Seminar & Group Discussion | - | - | 2 | 2 | 1 |
| 9 | IT | 7170 | Minor Project | - | - | 4 | 4 | 2 |
|  |  |  | Total | 15 | 5 | 10 | 30 | 25 |
| 10 | GP | 7151 | General Proficiency | - | - | - |  | 1 |
|  |  |  |  |  |  |  |  |  |
| **ELECTIVE-I** |
|  | **Sub Code** | **(any one of the following)** | **L** | **T** | **P** | **Credits** |
| 1 | CS | 7104A | Advance Database Management Systems | 3 | 1 | - | 4 |
| 2 | CS | 7104B | Cryptography | 3 | 1 | - | 4 |
| 3 | IT |  7104A | Object Oriented Modeling and Design | 3 | 1 | - | 4 |
| 4 | CS | 7104D | Embedded Systems | 3 | 1 | - | 4 |
| 5 | CS | 7104E | Natural Language Processing | 3 | 1 | - | 4 |
|  |  |  |  |  |  |  |  |  |
| **ELECTIVE-II** |
|  | **Sub Code** | **(any one of the following)** | **L** | **T** | **P** | **Credits** |
| 1 | CS | 7105A | Operating System Internals | 3 | 1 | - | 4 |
| 2 | IT | 7105A | Distributed Computing | 3 | 1 | - | 4 |
| 3 | CS | 7105B | Real Time Systems | 3 | 1 | - | 4 |
| 4 | IT | 7105B | Client Server Architecture | 3 | 1 | - | 4 |
| 5 | CS | 7105C | Fault Tolerant Computing | 3 | 1 | - | 4 |
|  |  |  |  |  |  |  |  |  |
| **Semester VI** |
| **S No** | **Sub Code** | **Subject Title** | **L\*** | **T\*** | **P\*** | **Total Hours** | **Credits** |
| 1 | IT | 7201 | Intelligent Information System | 3 | 1 | - | 4 | 4 |
| 2 | IT | 7202 | Cyber Laws & IPR | 3 | 1 | - | 4 | 4 |
| 3 | IT | 7203\* | Elective-III | 3 | 1 | - | 4 | 4 |
| 4 | IT | 7204\* | Elective-IV | 3 | 1 | - | 4 | 4 |
| 5 | IT | 7251 | Intelligent Information System lab | - | - | 4 | 4 | 4 |
| 6 | IT | 7260 | Seminar | - | - | 2 | 2 | 2 |
| 7 | IT | 7270 | Major Project | - | - | 8 | 8 | 1 |
|  |  |  | Total | 12 | 4 | 14 | 30 | 23 |
| 8 | GP | 7251 | General Proficiency | - | - | - |  | 1 |
|  |
| **ELECTIVE-III** |
| **S No** | **Sub Code** | **(any one of the following)** | **L** | **T** | **P** | **Credits** |
| 1 | CS | 7203A | Digital Image Processing | 3 | 1 | - | 4 |
| 2 | CS | 7203B | Software Reliability & Testing | 3 | 1 | - | 4 |
| 3 | IT | 7203A | Data Mining & Warehousing | 3 | 1 | - | 4 |
| 4 | IT | 7203B | Visual Programming | 3 | 1 | - | 4 |
| 5 | CS | 7203C | Network Programming | 3 | 1 | - | 4 |
|  |
| **ELECTIVE-IV** |
| **S No** | **Sub Code** | **(any one of the following)** | **L** | **T** | **P** | **Credits** |
| 1 | CS | 7204A | Mobile and Cellular Technologies | 3 | 1 | - | 4 |
| 2 | CS | 7204B | Simulation & Modeling | 3 | 1 | - | 4 |
| 3 | CS | 7204C | Operations Research | 3 | 1 | - | 4 |
| 4 | CS | 7204D | Distributed Operating Systems | 3 | 1 | - | 4 |
| 5 | CS | 7204E | Soft Computing | 3 | 1 | - | 4 |
|  |  |  |  |  |  |  |  |
| **LIST OF OPEN ELECTIVES** |
| S No | Sub Code | Subject Title | L\* | T\* | P\* | Credits |
| 1 | EC | P6201 | Introduction to Digital Signal Processing | 3 | - | - | 3 |
| 2 | EC | P6202 | Principles of Digital Communications | 3 | - | - | 3 |
| 3 | EC | P6203 | Analog and Digital Electronics | 3 | - | - | 3 |
| 4 | EC | P6204 | Microprocessors Principles | 3 | - | - | 3 |
| 5 | FT | P6201 | Separation Technology | 3 | - | - | 3 |
| 6 | FT | P6202 | Bioinstrumentation | 3 | - | - | 3 |
| 7 | IE | P6201 | Fundamentals of Measurements and Instrumentation | 3 | - | - | 3 |
| 8 | IE | P6202 | Sensors and signal processing | 3 | - | - | 3 |
| 9 | IE | P6203 | Elements of power systems | 3 | - | - | 3 |
| 10 | IE | P6204 | Biosensors and MEMS | 3 | - | - | 3 |
| 11 | ME | P6201 | Industrial Engineering | 3 | - | - | 3 |
| 12 | ME | P6202 | Production planning and control | 3 | - | - | 3 |
| 13 | ME | P6203 | Plant layout and material Handling | 3 | - | - | 3 |
| 14 | ME | P6204 | Non Destructive resting& Failure Analysis | 3 | - | - | 3 |
| 15 | CS | P6201 | Interactive Computer Graphics | 3 | - | - | 3 |
| 16 | CS | P6202 | Computer Network | 3 | - | - | 3 |
| 17 | CS | P6203 | Simulation & Modelling | 3 | - | - | 3 |
| 18 | CS  | P6204 | Software Engineering | 3 | - | - | 3 |
| 19 | AP | P6201 | Laser and its Applications | 3 | - | - | 3 |
| 20 | AP | P6202 | Semiconductor Physics and Devices | 3 | - | - | 3 |
| 21 | AP | P6203 | Plasma and its Applications | 3 | - | - | 3 |
| 22 | AM | P6201 | Advanced Mathematics | 3 | - | - | 3 |
| 23 | AM  | P6202 | Statistical & Optimization Techniques | 3 | - | - | 3 |
| 24 | AM | P6203 | Fourier & Wavelet Methods | 3 | - | - | 3 |
| 25 | AM | P6204 | Industrial Mathematics | 3 | - | - | 3 |
| 26 | CH | P6201 | Environmental impact & Assessment | 3 | - | - | 3 |
| 27 | Ch | P6202 | Non Conventional Energy & Systems | 3 | - | - | 3 |