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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 | | |