|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **GCS - Degree in Computer Science and Engineering** | | | | | | | |
| **Semester-VI (UG)** | | | | | | | |
| **S.No** | **Sub Code** | **Subject Name** | **L** | **T** | **P** | **Hrs.** | **Credits** |
| 1 | CS-621 (A-D) | Elective-I | 3 | 0 | 0 | 3 | 3 |
| 2 | CS-622 | Automata and Formal Languages | 2 | 2 | 0 | 4 | 3 |
| 3 | CS-623 | Computer Graphics and Multimedia | 3 | 0 | 4 | 7 | 5 |
| 4 | CS-624 | Software Reliability and Testing | 3 | 0 | 2 | 5 | 4 |
| 5 | CS-625 | Simulation and Modelling | 2 | 0 | 0 | 2 | 2 |
| 6 | CS-626 | Network Programming | 2 | 0 | 4 | 6 | 4 |
| 7 | CS-627 | Emerging Technologies Lab | 0 | 0 | 4 | 4 | 2 |
|  |  | Total | 15 | 2 | 14 | 31 | 23 |
|  |  |  |  |  |  |  |  |
| **B.Tech.(Chemical Engineering)** | | | | | | | |
| **Semester-VI (UG)** | | | | | | | |
| **S.No** | **Sub Code** | **Subject Name** | **L** | **T** | **P** | **Hrs.** | **Credits** |
| 1 | CH-621 | Elective-I | 3 | 0 | 0 | 3 | 3 |
| 2 | HU-621 | Engineering Economics and Entrepreneurship | 3 | 0 | 0 | 3 | 3 |
| 3 | CH-622 | Process Dynamics & Control | 3 | 2 | 2 | 7 | 5 |
| 4 | CH-623 | Transport Phenomena | 3 | 2 | 0 | 5 | 4 |
| 5 | CH-624 | Process Equipment Design | 1 | 0 | 4 | 5 | 3 |
| 6 | CH-625 | Chemical Process Instrumentation | 3 | 0 | 2 | 5 | 4 |
| 7 | CH-626 | Environmental Testing & Analysis Lab | 0 | 0 | 2 | 2 | 1 |
|  |  | Total | 16 | 4 | 10 | 30 | 23 |
| **B.E. Electronics and Communication Engg** | | | | | | | |
| **Semester-VI (UG)** | | | | | | | |
| **S.No** | **Sub Code** | **Subject Name** | **L** | **T** | **P** | **Hrs.** | **Credits** |
| 1 | EC-621 (A-E) | Elective-I | 3 | 0 | 0 | 3 | 3 |
| 2 | EC-622 | Microcontroller & Embedded System | 3 | 0 | 2 | 5 | 4 |
| 3 | EC-623 | Antenna Wave Propagation | 3 | 0 | 2 | 5 | 4 |
| 4 | EC-624 | Industrial Electronics & Application | 3 | 0 | 2 | 5 | 4 |
| 5 | EC-625 | Wireless Communication | 3 | 0 | 0 | 3 | 3 |
| 6 | EC-626 | Microelectronics | 3 | 0 | 0 | 3 | 3 |
| 7 | EC-627 | Seminar | 0 | 0 | 2 | 2 | 1 |
|  |  | Total | 18 | 0 | 8 | 26 | 22 |
|  |  |  |  |  |  |  |  |
| **FOUR YEAR DEGREE PROGRAM IN ELECTRICAL ENGINEERING** | | | | | | | |
| **Semester-VI (UG)** | | | | | | | |
| **S.No** | **Sub Code** | **Subject Name** | **L** | **T** | **P** | **Hrs.** | **Credits** |
| 1 | EE-621(A-D) | Elective-I | 3 | 0 | 0 | 3 | 3 |
| 2 | EE-622 | Power Electronics | 3 | 2 | 2 | 7 | 5 |
| 3 | EE-623 | Non Linear and Discrete Control Systems | 3 | 2 | 0 | 5 | 4 |
| 4 | EE-624 | Microprocessor and Applications | 3 | 0 | 2 | 5 | 4 |
| 5 | EE-625 | Power System Protection | 3 | 0 | 2 | 5 | 4 |
| 6 | EE-626 | Utilization of Electrical Energy | 3 | 0 | 0 | 3 | 3 |
| 7 | EE-627 | Advance Simulation Lab-I | 0 | 0 | 2 | 2 | 1 |
|  |  | Total | 18 | 4 | 8 | 30 | 24 |
| **Course Scheme for GFT** | | | | | | | |
| **Semester-VI (UG)** | | | | | | | |
| **S.No** | **Sub Code** | **Subject Name** | **L** | **T** | **P** | **Hrs.** | **Credits** |
| 1 | **FT-621** | Elective-I | 3 | 0 | 0 | 3 | 3 |
| 2 | **HU-621** | Engineering Economics and Entrepreneurship | 3 | 0 | 0 | 3 | 3 |
| 3 | **FT-622** | Packaging Technology | 3 | 0 | 2 | 5 | 4 |
| 4 | **FT-623** | Technology of Fats and Oils | 3 | 0 | 2 | 5 | 4 |
| 5 | **FT-624** | Technology of Beverages | 3 | 0 | 2 | 5 | 4 |
| 6 | **FT-625** | Technology of Bakery and Confectionery Products | 3 | 0 | 2 | 5 | 4 |
|  |  | **Total** | **18** | **0** | **8** | **26** | **22** |
| **FOUR YEAR DEGREE PROGRAM IN INSTRUMENTATION AND CONTROL ENGINEERING** | | | | | | | |
| **Semester-VI (UG)** | | | | | | | |
| **S.No** | **Sub Code** | **Subject Name** | **L** | **T** | **P** | **Hrs.** | **Credits** |
| 1 | IE-621A-E | Elective-I | 3 | 0 | 0 | 3 | 3 |
| 2 | IE-622 | Statistical and Optimization Techniques | 3 | 2 | 0 | 5 | 4 |
| 3 | IE-623 | Data Communication and Networking | 3 | 0 | 0 | 3 | 3 |
| 4 | IE-624 | Data Acquisition System | 3 | 0 | 2 | 5 | 4 |
| 5 | IE-625 | Biomedical Instrumentation | 3 | 0 | 2 | 5 | 4 |
| 6 | IE-626 | Computer Control of Processes | 3 | 0 | 0 | 3 | 3 |
| 7 | IE-627 | Microcontroller and Embedded Systems | 3 | 0 | 2 | 5 | 4 |
|  |  | Total | 21 | 2 | 6 | 29 | 25 |
| **UG- ME(Manufacturing Engineering) to be renamed as "Mechanical Engineering"** | | | | | | | |
| **Semester-VI (UG)** | | | | | | | |
| **S.No** |  |  |  |  |  |  |  |
|  | **Sub Code** | **Subject Name** | **L** | **T** | **P** | **Hrs.** | **Credits** |
| 1 | ME-621 (A-C) | Elective-II | 3 | 0 | 2 | 5 | 4 |
| 2 | HU-621 | Engineering Economics and Entrepreneurship | 3 | 0 | 0 | 3 | 3 |
| 3 | ME-622 | Mechanical Design-II | 3 | 2 | 0 | 5 | 4 |
| 4 | ME-623 | CAD/CAM | 3 | 0 | 2 | 5 | 4 |
| 5 | ME-624 | Refrigeration & Air Conditioning | 3 | 0 | 2 | 5 | 4 |
| 6 | ME-625 | Work Study & Ergonomics | 3 | 0 | 2 | 5 | 4 |
| 7 | ME-626 | Seminar | 0 | 0 | 2 | 2 | 1 |
|  |  | Total | 18 | 2 | 10 | 30 | 24 |
| **UG- ME(Welding)** | | | | | | | |
| **Semester-VI (UG)** | | | | | | | |
| **S.No** | **Sub Code** | **Subject Name** | **L** | **T** | **P** | **Hrs.** | **Credits** |
| 1 | ME-621 (D-E) | Elective-II | 3 | 0 | 2 | 5 | 4 |
| 2 | HU-621 | Engineering Economics and Entrepreneurship | 3 | 0 | 0 | 3 | 3 |
| 3 | ME-622 | Mechanical Design-II | 3 | 2 | 0 | 5 | 4 |
| 4 | ME-623 | CAD/CAM | 3 | 0 | 2 | 5 | 4 |
| 5 | ME-624 | Refrigeration & Air Conditioning | 3 | 0 | 2 | 5 | 4 |
| 6 | ME-625 | Work Study & Ergonomics | 3 | 0 | 2 | 5 | 4 |
| 7 | ME-626 | Seminar | 0 | 0 | 2 | 2 | 1 |
|  |  | Total | 18 | 2 | 10 | 30 | 24 |