**B. Chemical Engineering Course**

| **Semester – I** | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **No** | **Subjects** | **Credits** | **Hrs/Week** | | | **Marks for various Exams** | | | | |
| **L** | **T** | **P** | **C. A.** | **M.S.** | **E. S.** | **Total** | |
| CHT 1131 | Organic Chemistry-I | 4 | 3 | 1 | 0 | 20 | 30 | 50 | 100 | |
| CHT 1341 | Physical Chemistry | 3 | 2 | 1 | 0 | 10 | 15 | 25 | 50 | |
| MAT 1101 | Applied Mathematics-I | 4 | 3 | 1 | 0 | 20 | 30 | 50 | 100 | |
| PYT 1101 | Applied Physics – I | 4 | 3 | 1 | 0 | 20 | 30 | 50 | 100 | |
| GEP 1101 | Engineering Graphics-I | 4 | 2 | 0 | 6 | 50 | --- | 50 | 100 | |
| PYP 1102 | Physics Laboratory | 2 | 0 | 0 | 4 | 25 | --- | 25 | 50 | |
| CHP 1132 | Organic Chemistry Laboratory | 2 | 0 | 0 | 4 | 25 | --- | 25 | 50 | |
|  | TOTAL: | 23 | 13 | 4 | 14 |  |  |  | 550 | |
| **SEMESTER – II** | | | | | | | | | | |
| **No.** | **Subjects** | **Credits** | **Hrs/week** | | | **Marks for various Exams** | | | | |
| **L** | **T** | **P** | **C. A.** | **M. S.** | **E. S.** | | **Total** | |
| CHT 1231 | Organic Chemistry-II | 4 | 3 | 1 | 0 | 20 | 30 | 50 | | 100 | |
| CHT 1211 | Analytical Chemistry | 3 | 2 | 1 | 0 | 10 | 15 | 25 | | 50 | |
| CET 1501 | Material & Energy Balance Calculations | 4 | 3 | 1 | 0 | 20 | 30 | 50 | | 100 | |
| MAT 1102 | Applied Mathematics-II | 4 | 3 | 1 | 0 | 20 | 30 | 50 | | 100 | |
| PYT 1103 | Applied Physics – II | 3 | 2 | 1 | 0 | 10 | 15 | 25 | | 50 | |
| CHP 1342 | Physical & Analytical Chemistry Lab. | 2 | 0 | 0 | 4 | 25 | --- | 25 | | 50 | |
| HUP 1101 | Communication Skills | 2 | 0 | 0 | 4 | 50 | --- | --- | | 50 | |
|  | Total | 22 | 13 | 5 | 8 |  |  |  | | 500 | |

**B. Tech. (All Branches) Course**

| **Semester I** | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Subjects | Credits | Hrs/Week | | | Marks for various Exams | | | |
| **L** | **T** | **P** | **C. A.** | **M.S.** | **E. S.** | **Total** |
| Physical Chemistry-I CHT 1342 | 3 | 2 | 1 | 0 | 10 | 15 | 25 | 50 |
| Analytical Chemistry CHT 1211 | 3 | 2 | 1 | 0 | 10 | 15 | 25 | 50 |
| Applied Mathematics-I **MAT 1101** | 4 | 3 | 1 | 0 | 20 | 30 | 50 | 100 |
| Applied Physics-I PYT 1101 | 4 | 3 | 1 | 0 | 20 | 30 | 50 | 100 |
| Introduction to B. Tech. Branch | - | 2 | - | - | - | - | - | - |
| Physical and Analytical Chemistry Lab  CHP 1342 | 2 | 0 | 0 | 4 | 25 | - | 25 | 50 |
| Engineering Graphics **GEP 1101** | 4 | 2 | 0 | 6 | 50 | - | 50 | 100 |
| Communication Skills HUP 1101 | 2 | 0 | 0 | 4 | 50 | - | - | 50 |
| TOTAL: | 22 | 12 | 4 | 14 | - | - | - | 500 |

| **Semester II** | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Subjects** | **Credits** | **Hrs/week** | | | **Marks for various Exams** | | | |
| **L** | **T** | **P** | **C. A.** | **M.S.** | **E. S.** | **Total** |
| Physical Chemistry-II CHT 1343 | 3 | 2 | 1 | 0 | 10 | 15 | 25 | 50 |
| Organic Chemistry CHT 1133 | 4 | 3 | 1 | 0 | 20 | 30 | 50 | 100 |
| Process Calculations **CET 1507** | 4 | 3 | 1 | 0 | 20 | 30 | 50 | 100 |
| Applied Mathematics-II MAT 1103 | 4 | 3 | 1 | 0 | 20 | 30 | 50 | 100 |
| Applied Physics-II **PYT 1103** | 3 | 2 | 1 | 0 | 10 | 15 | 25 | 50 |
| Physics Laboratory PYP 1102 | 2 | 0 | 0 | 4 | 25 | - | 25 | 50 |
| Organic Chemistry Laboratory CHP1132 | 2 | 0 | 0 | 4 | 25 | - | 25 | 50 |
| Total | 22 | 13 | 5 | 8 | - | - | - | 500 |

**B.Pharm First Year**

**Semester —I**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Subject Code** | **Subjects** | **Credits** | **Hrs/Week** | | | **Marks** | | | |
| **L** | **T** | **P** | **Continuous Assessment** | **Periodic Test** | **Final Exam** | **Total** |
| PHT1101 | Inorganic Chemistry | 3 | 2 | 1 | 0 | 10 | 15 | 25 | 50 |
| PHT1102 | Organic Chemistry-I | 3 | 2 | 1 | 0 | 10 | 15 | 25 | 50 |
| PHT1201 | Pharmaceutics-I | 3 | 2 | 1 | 0 | 10 | 15 | 25 | 50 |
| PHT1601 | Mathematics & Statistics-I | 3 | 2 | 1 | 0 | 10 | 15 | 25 | 50 |
| PHT1602 | Pharmaceutical Engineering | 4 | 3 | 1 | 0 | 20 | 30 | 50 | 100 |
| PHT1603 | Communication skills and  psychology | 3 | 2 | 1 | 0 | 10 | 15 | 25 | 50 |
| PHP1101 | Organic Chemistry Laboratory-I | 2 | 0 | 0 | 4 | 25 | - | 25 | 50 |
| PHP1601 | Pharmaceutical Engineering Laboratory | 2 | 0 | 0 | 4 | 25 | - | 25 | 50 |
|  | TOTAL | 23 | 13 | 6 | 8 |  |  |  | 450 |

**Semester — II**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Subject Code** | **Subjects** | **Credits** | **Hrs/Week** | | | **Marks** | | | |
| **L** | **T** | **P** | **Continuous Assessment** | **Periodic Test** | **Final Exam** | **Total** |
| PHT1103 | Organic Chemistry-II | 3 | 2 | 1 | 0 | 10 | 15 | 25 | 50 |
| PHT1202 | Physical  Chemistry and  Physical Pharmacy | 4 | 3 | 1 | 0 | 20 | 30 | 50 | 100 |
| PHT1203 | Pharmaceutics-II | 3 | 2 | 1 | 0 | 10 | 15 | 25 | 50 |
| PHT1301 | Anatomy, Physiology & Pathology-I | 4 | 3 | 1 | 0 | 20 | 30 | 50 | 100 |
| PHT1401 | Pharmaceutical Analysis-I | 3 | 2 | 1 | 0 | 10 | 15 | 25 | 50 |
| PHT1604 | Mathematics & Statistics-II | 3 | 2 | 1 | 0 | 10 | 15 | 25 | 50 |
| PHP1201 | Pharmaceutics  Laboratory - I | 2 | 0 | 0 | 4 | 25 | - | 25 | 50 |
| PHP1202 | Physical   Pharmacy Laboratory-II | 2 | 0 | 0 | 4 | 25 | - | 25 | 50 |
| PHP1401 | Analysis Laboratory-I | 2 | 0 | 0 | 4 | 25 | - | 25 | 50 |
|  | TOTAL | 26 | 14 | 6 | 12 |  |  |  | 550 |