**DAE IN WATER RESOURCES AND HYDROPOWER CONSTRUCTION ENGINEERING (3-YEAR COURSE)**

**SCHEME OF STUDY**

**FIRST YEAR**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **S.NO** | **Course code** | | **Course Name** | **T** | **P** | **C** |
| 1 | Gen | 111 | Islamiat and Pakistan Studies | 1 | 0 | 1 |
| 2 | GenC | 112 | Chinese I | 2 | 0 | 2 |
| 3 | Eng | 112 | English | 2 | 0 | 2 |
| 4 | Math | 113 | Applied Mathematics I | 3 | 0 | 3 |
| 5 | Ch | 112 | Applied Chemistry | 1 | 3 | 2 |
| 6 | Phy | 122 | Applied Physics | 1 | 3 | 2 |
| 7 | WRH | 112 | Engineering Mechanics | 1 | 1.5 | 1.5 |
| 8 | WRH | 122 | Building Materials and Testing | 1.5 | 1.5 | 2 |
| 9 | WRH | 132 | Water Resources Engineering Mapping and Drawing | 1 | 1.5 | 1.5 |
| 10 | WRH | 142 | Water Engineering Culture Education | 1.5 | 0 | 1.5 |
| **11** | WRH | 152 | Water Resources Engineering CAD Drawing Technology | 1.5 | 1.5 | 2 |
|  | |  | Total | **16.5** | **12** | **20.5** |

**SECOND YEAR**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| S.NO | Course code | | Course Name | T | P | C |
| 1 | Gen | 211 | Islamiat and Pakistan Studies | 1 | 0 | 1 |
| 2 | Math | 212 | Applied Mathematics II | 2 | 0 | 2 |
| 3 | MgmC | 212 | Understanding China | 2 | 0 | 2 |
| 4 | GenC | 212 | Chinese II | 3 | 6 | 5 |
| 5 | WRH | 212 | Engineering Hydrology and Water Resources Calculation | 1.5 | 1.5 | 2 |
| 6 | WRH | 223 | Hydraulic Analysis and Calculation | 2 | 1.5 | 2.5 |
| 7 | WRH | 232 | Water-saving Technology | 1.5 | 1.5 | 2 |
| 8 | WRH | 243 | Hydraulic Reinforced Concrete Structure | 2 | 1.5 | 2.5 |
| 9 | WRH | 252 | Engineering Geology and Foundation Basis | 1.5 | 1.5 | 2 |
| 10 | WRH | 262 | Water Resources Engineering Supervision | 1.5 | 1.5 | 2 |
|  | **Total** | | | **18** | **15** | **23** |

**THIRD YEAR**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| S.NO | SEMESTER | Course code | | Course Name | T | P | C |
| 1 | FIRST | Gen | 311 | Islamiat and Pakistan Studies | 1 | 0 | 1 |
| 2 | GenC | 322 | Chinese Synthesis -1 | 1 | 3 | 2 |
| 3 | GenC | 311 | Chinese Listening | 0 | 3 | 1 |
| 4 | GenC | 331 | Spoken Chinese | 0 | 3 | 1 |
| 5 | GenC | 351 | Chinese Reading and Writing | 0 | 3 | 1 |
| 6 | GenC | 341 | Chinese Culture -1 | 1 | 0 | 1 |
| 7 | GenC | 361 | Chinese Cultural Practice -1 | 0 | 1.5 | 0.5 |
| 8 | WRH | 312 | Water Resources Engineering Survey | 1 | 3 | 2 |
|  |  | |  | SUB TOTAL | **4** | **16.5** | **9.5** |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| S.NO | SEMESTER | Course code | | Course Name | T | P | C |
| 9 | SECOND | WRH | 322 | Water Resources Engineering Building | 1.5 | 1.5 | 2 |
| 10 | WRH | 332 | Organization and Management of Water Resources Engineering Construction | 1 | 1.5 | 1.5 |
| 11 | WRH | 343 | Water Resources Engineering Construction Technology | 2 | 1.5 | 2.5 |
| 12 | WRH | 353 | Cost and Bidding of Water Resources Engineering | 2 | 1.5 | 2.5 |
| 13 | WRH | 362 | Maintenance and Management of Water Resources Engineering | 1 | 1.5 | 1.5 |
| 14 | GenC | 332 | Chinese Synthesis -2 | 1.5 | 1.5 | 2 |
| 15 | GenC | 371 | Chinese Culture -2 | 1 | 0 | 1 |
| 16 | GenC | 381 | Chinese Cultural Practice -2 | 0 | 1.5 | 0.5 |
|  | | | | SUB TOTAL | **10** | **10.5** | **13.5** |
| **Total for the third year** | 14 | **27** | **23** |
| **Total for three years** | 48.5 | **54** | **66.5** |