**THREE YEARS (2+1) DIPLOMA OF ASSOCIATE ENGINEER IN**

**ELECTRICAL AUTOMATION TECHNOLOGY**

**SCHEME OF STUDIES - 03 YEARS**

**FIRST YEAR**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Course code** | | **Course Name** | **T** | **P** | **C** |
| Gen | 111 | Islamist & Pakistan Studies | 1 | 0 | 1 |
| GenC | 112 | Chinese Language Ⅰ | 2 | 0 | 2 |
| Eng | 112 | English | 2 | 0 | 2 |
| Math | 123 | Applied Mathematics-I | 3 | 0 | 3 |
| Ch | 132 | Applied Chemistry | 1 | 3 | 2 |
| MGM | 121 | Business Management & Industrial Economics | 1 | 0 | 1 |
| Comp | 162 | Computer Applications | 1 | 3 | 2 |
| ET | 115 | Principles of Electrical Engineering | 3 | 6 | 5 |
| ET | 121 | Basic Electrical Drawing | 0 | 3 | 1 |
| ET | 133 | Basic Electronics-I | 2 | 3 | 3 |
| ET | 143 | Workshop Practice (Electrical) | 1 | 6 | 3 |
| **Total** | | | **17** | **24** | **25** |

**SECOND YEAR**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Course code** | | **Course Name** | **T** | **P** | **C** |
| Gen | 211 | Islamist & Pakistan Studies | 1 | 0 | 1 |
| Math | 233 | Applied Mathematics-II | 3 | 0 | 3 |
| GenC | 212 | Chinese Language Ⅱ | 2 | 0 | 2 |
| GenC | 222 | Understanding China | 2 | 0 | 2 |
| Phy | 232 | Applied Physics | 1 | 3 | 2 |
| ET | 203 | D.C. Machines & Batteries | 2 | 3 | 3 |
| ET | 273 | Electrical Instruments & Measurements | 2 | 3 | 3 |
| ET | 253 | AC Machine | 4 | 6 | 6 |
| ET | 261 | Applications of Computers in Electrical Tech. | 0 | 3 | 1 |
| ET | 282 | Digital Logic Design | 1 | 3 | 2 |
| **Total** | | | **18** | **21** | **25** |

**THIRD YEAR**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Course Code** | | **Course Name** | **T** | **P** | **C** |
| Gen | 311 | Islamist & Pakistan Studies | 1 | 0 | 1 |
| GenC | 312 | Chinese Synthesis -1 | 1.5 | 1.5 | 2 |
| GenC | 311 | Chinese Listening | 0 | 1.5 | 0.5 |
| GenC | 321 | Spoken Chinese | 0 | 1.5 | 0.5 |
| EAT | 311 | Electrical Chinese | 1 | 0 | 1 |
| EAT | 322 | Electronic skill training | 1 | 3 | 2 |
| EAT | 332 | Installation and maintenance of electrical control system | 1 | 3 | 2 |
| Gen | 331 | Introduction to Artificial Intelligence | 0.5 | 1.5 | 1 |
| GenC | 342 | Chinese Synthesis -2 | 1.5 | 1.5 | 2 |
| GenC | 352 | Chinese Reading and Writing | 0 | 1.5 | 0.5 |
| EAT | 342 | Industrial Robot Technology | 0.5 | 3 | 1.5 |
| EAT | 351 | The Design of Intelligent Product Based on Arduino | 0.5 | 1.5 | 1 |
| EAT | 362 | Installation and Commissioning of PLC Control System | 1 | 3 | 2 |
| EAT | 372 | Frequency Conversion and Servo System | 0.5 | 3 | 1.5 |
| EAT | 382 | Power supply and distribution technology | 1 | 1.5 | 1.5 |
| **Total** | | | **11** | **27** | **20** |