



First Semester 2021/2022

| FIRST YEAR | | | | | | | | | |
|--|---------|--|-----------|----------------|------------------------|---------|--|-----------|--------------|
| First Semester | | | | | Second Semester | | | | |
| Course | | | CH | Prerequisite | Course | | | CH | Prerequisite |
| Code | No. | Name | | | Code | No. | Name | | |
| MATH110 | 1501110 | Calculus I | 3 | - | EE112 | 0810112 | Calculus II | 3 | MATH110 |
| PHYS120 | 1501120 | General Physics I | 3 | - | PHYS220 | 1501220 | General Physics II | 3 | PHYS120 |
| ME107 | 0802107 | Engineering Workshop | 1 | - | PHYS221 | 1501221 | General Physics Lab II | 1 | PHYS220** |
| PHYS121 | 1501121 | General Physics Lab I | 1 | PHYS120** | CHEM130 | 1501130 | General Chemistry | 3 | - |
| CE107 | 0805107 | Engineering Drawing | 1 | - | EE201 | 0810201 | Computer Skills II* | 3 | Skills Test |
| - | - | University Mandatory Course | 3 | - | - | - | University Mandatory Course | 3 | - |
| - | - | University Elective Course | 3 | - | - | - | - | - | - |
| Total | | | 15 | | Total | | | 16 | |
| SECOND YEAR | | | | | | | | | |
| First Semester | | | | | Second Semester | | | | |
| Course | | | CH | Prerequisite | Course | | | CH | Prerequisite |
| Code | No. | Name | | | Code | No. | Name | | |
| EE250 | 0810250 | Object Oriented Programming | 3 | EE201 | PE212 | 0809212 | Electric Circuits II | 3 | PE211 |
| EE251 | 0810251 | Object Oriented Programming Lab | 0 | EE250** | EE215 | 0810215 | Electronics | 3 | PE211 |
| EE203 | 0810203 | Advanced Engineering Math I | 3 | EE112 | EE220 | 0810220 | Engineering Analysis | 3 | EE112 |
| PE204 | 0809204 | Discrete Math and Linear Algebra | 3 | EE112 | EE271 | 0810271 | Logic Circuits Design | 3 | EE201 |
| PE211 | 0809211 | Electric Circuits I | 3 | PHYS220+EE112 | CE203 | 0805203 | Ethics & Technical Writing | 2 | ENG124 |
| PE201 | 0809201 | Renewable Energy Applications & Sustainability | 1 | - | EE202 | 0810202 | Engineering Application lab | 1 | EE201 |
| - | - | University Mandatory Course | 3 | - | PE213 | 0809213 | Electric Circuits Lab | 1 | PE212** |
| Total | | | 16 | | Total | | | 16 | |
| THIRD YEAR | | | | | | | | | |
| First Semester | | | | | Second Semester | | | | |
| Course | | | CH | Prerequisite | Course | | | CH | Prerequisite |
| Code | No. | Name | | | Code | No. | Name | | |
| EE222 | 0810222 | Electromagnetics | 3 | PHYS220+EE220 | EE302 | 0810302 | Numerical Analysis | 3 | EE201 |
| EE340 | 0810340 | Signals and Systems Analysis | 3 | EE203 | IE323 | 0803323 | Economy & Eng. Management | 3 | Pass 45 Hrs. |
| EE344 | 0810344 | Prob. & Random Variables | 3 | EE340** | PE325 | 0809325 | Machines and Electrical Power | 3 | PE212 |
| EE411 | 0810411 | Digital Electronics | 3 | EE215 | EE367 | 0810367 | Microprocessor & Computer Arch. | 3 | EE271 |
| EE272 | 0810272 | Logic Circuits Design Lab | 1 | EE271 | EE370 | 0810370 | Communications | 3 | EE340 |
| EE312 | 0810312 | Electronics Lab | 1 | EE215 | EE412 | 0810412 | Digital Electronics Lab | 1 | EE411 |
| - | - | University Mandatory Course | 3 | - | - | - | - | - | - |
| Total | | | 17 | | Total | | | 16 | |
| FOURTH YEAR | | | | | | | | | |
| First Semester | | | | | Second Semester | | | | |
| Course | | | CH | Prerequisite | Course | | | CH | Prerequisite |
| Code | No. | Name | | | Code | No. | Name | | |
| PE451 | 0809451 | Automatic Control Systems | 3 | EE340 | EE470 | 0810470 | Antennas & Wave Propagation | 3 | EE222 |
| EE443 | 0810443 | Digital Communications | 3 | EE440 | EE510 | 0810510 | Security Systems & Cryptography | 3 | EE475 |
| EE480 | 0810480 | Embedded Systems | 3 | EE367 | EE490 | 0810490 | Artificial Intelligence & Machine Learning | 3 | EE250 |
| EE475 | 0810475 | Comm. & Computer Networks | 3 | EE370 | EE481 | 0810481 | Embedded Systems Lab | 1 | EE480 |
| EE371 | 0810371 | Communications Lab | 1 | EE370 | EE444 | 0810444 | Digital Communications Lab | 1 | EE443+EE371 |
| EE368 | 0810368 | Microprocessor & Computer Arch. Lab. | 1 | EE367 | - | - | Department Elective Course | 3 | - |
| - | - | University Mandatory Course | 3 | - | - | - | University Mandatory Course | 3 | - |
| Total | | | 17 | | Total | | | 17 | |
| Field Training*** (EE589/0810589) : 3 C.H | | | | | | | | | |
| FIFTH YEAR | | | | | | | | | |
| First Semester | | | | | Second Semester | | | | |
| Course | | | CH | Prerequisite | Course | | | CH | Prerequisite |
| Code | No. | Name | | | Code | No. | Name | | |
| EE532 | 0810532 | Wireless & Mobile Communications | 3 | EE443 | EE545 | 0810545 | Communication Electronics | 3 | EE443 |
| EE547 | 0810547 | Fiber Optic Communications | 3 | EE370+EE222 | EE562 | 0810562 | Operating Systems and Security | 3 | EE367 |
| EE471 | 0810471 | Antennas & Wave Propagation Lab. | 1 | EE470 | PE452 | 0809452 | Automatic Control Systems Lab | 1 | PE451 |
| EE585 | 0810585 | Project I*** | 1 | Dept. Approval | EE476 | 0810476 | Comm. & Computer Networks Lab. | 1 | EE475 |
| - | - | Department Elective Course | 3 | - | EE587 | 0810587 | Project II | 2 | EE585 |
| - | - | University Elective Course | 3 | - | - | - | Department Elective Course | 3 | - |
| Total | | | 14 | | Total | | | 13 | |

* Passing level Test

**simultaneously with

*** Department approval

C.H.: Credit Hour