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| **No** | **Course Name** | **Course Code** | **Cr. Hrs**  (Lec+Tut+Lab) | **ECTS**  (Lec+Tut+  Lab+Home) | **Pre-requisite** | **Responsible**  **Chair/Department** | **Name of assigned Instructor** | **Assigned sections** | **Remark** |
| 1 | Applied mathematics-III | Math2033 | 4 | 6 | Math1032 | Math dept |  |  |  |
| 2 | Workshop practice | IEng2093 | 2 | 3 | None | ME Chair |  |  |  |
| 3 | Computer Programming with C++ | Comp2043 | 3 | 5 | IEng1041 | School of computing |  |  |  |
| 4 | Basic Electricity and Electronics | EEng2051 | 3 | 5 | None | School of Electrical |  |  |  |
| 5 | Machine drawing | IEng2063 | 3 | 5 | MEng1061 | SMD Chair | Michael Gebremariam | All |  |
| 6 | Strength of Material | IEng2062 | 3 | 5 | CEng1041, IEng1091 | SMD Chair | Zebenay Tamrat | All |  |
|  | **Total Semester load** | | **18 Cr. Hrs** | **29 ECTS** |

**Year II Semester I (Advisor: Goitom Desta) (4 Sections)**

**Year III Semester I (Advisor: Mengistu Ashebir) (3 Sections)**

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| **No** | **Course Name** | **Course Code** | **Cr. Hrs**  (Lec+Tut+Lab) | **ECTS**  (Lec+Tut+  Lab+Home) | **Pre-requisite** | **Responsible**  **Chair/Department** | **Name of assigned Instructor** | **Assigned Sections** | **Remark** |
|  | Electrical machines | EEng3052 | 3 | 5 | EEng2051 | School of Electrical Eng. |  |  |  |
|  | Production planning and control-I | IEng3121 | 3 | 5 | none | OQM chair |  |  |  |
|  | Design of machine elements | IEng3071 | 3 | 5 | IEng2063, IEng2062 | SMD Chair | Ekubamariam Leake | 1  1,2 to be assigned |  |
|  | Statistical quality control | IEng3112 | 3 | 5 | IEng2111 | OQM chair |  |  |  |
|  | Welding and Forming | IEng3102 | 3 | 5 | IEng2101 | ME Chair |  |  |  |
|  | Thermodynamics | IEng3082 | 3 | 5 | Math1031 | TES Chair |  |  |  |
|  | **Total Semester load** | | **18 Cr. Hrs** | **30 ECTS** |  |  |  |  |  |

**Year IV Semester I (Advisor: Alula Gebresas) (4 Sections)**

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| **No** | **Course Name** | **Course Code** | **Cr. Hrs**  (Lec+Tut+Lab) | **ECTS**  (Lec+Tut+  Lab+Home) | **Pre-requisite** | **Responsible**  **Chair/Department** | **Name of assigned Instructor** | **Assigned Sections** | **Remark** |
| 1 | Ergonomics and industrial safety | IEng4182 | 3 | 5 | None | ISE Chair |  |  |  |
| 2 | Operations Research (Stochastic Model) | IEng4132 | 3 | 5 | IEng3131 | ISE Chair |  |  |  |
| 3 | Supply chain management and logistics | IEng4123 | 3 | 5 | IEng3122, IEng2024 | OQM chair |  |  |  |
| 4 | Methods and Value engineering | IEng4124 | 3 | 5 | None | OQM chair |  |  |  |
| 5 | Maintenance Engineering and Management | IEng4142 | 3 | 5 | IEng2111 | ISE Chair |  |  |  |
| 6 | Computer integrated manufacturing | IEng4162 | 3 | 5 | IEng2043,IEng3103 | ME Chair |  |  |  |
|  | **Total Semester load** | | **18 Cr. Hrs** | **30 ECTS** |  |  |  |  |  |

**Year V Semester I (Advisor: Abebayehu Abdela) (4 Sections)**

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| **No** | **Course Name** | **Course Code** | **Cr. Hrs**  (Lec+Tut+Lab) | **ECTS**  (Lec+Tut+  Lab+Home) | **Pre-requisite** | **Responsible**  **Chair/Department** | **Name of assigned Instructor** | **Assigned Sections** | **Remark** |
| 1 | Mechatronics | IEng5161 | 3 | 5 | IEng2092 | IAC |  |  |  |
| 2 | Total Quality management | IEng5113 | 3 | 5 | IEng3112 | OQM chair |  |  |  |
| 3 | Engineering Economics &Costing | IEng5171 | 3 | 5 | Econ1023 | ISE Chair |  |  |  |
| 4 | Management Information System | IEng5181 | 3 | 5 | none | ISE Chair |  |  |  |
| 5 | System modeling and simulation | IEng5133 | 3 | 5 | IEng2043, IEng2043, IEng2111 | ISE Chair |  |  |  |
| 6 | Project Management | IEng5173 | 3 | 5 | IEng2024 | ISE Chair |  |  |  |
|  | **Total Semester load** | | **18 Cr. Hrs** | **30 ECTS** |  |  |  |  |  |