**UTB Student Exchange Programme Modules**

**Faculty of Engineering**

\*The average Credit Value (CV) that the international students should

take must comply with their respective university CV's requirements.

**Semester 1; July – November 2019**

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| **Code** | **Module Title** | **CV** |
| EC1101 | Engineering Mechanics | 10 |
| EC1501 | Surveying and Geographical Information | 20 |
| EC1502 | Engineering Drawing | 10 |
| EG1401 | Engineering Mathematic 1 | 10 |
| EC1105 | Construction Materials | 10 |
| EC2101 | Soil Mechanics | 10 |
| EC2102 | Structural Analysis 1 | 20 |
| EC2103 | Hydraulics | 20 |
| EC3102 | Steel and Composite Structure Design | 20 |
| EC3103 | Geotechnics II | 10 |
| EC3104 | Construction Management | 20 |
| EC2106 | Engineering Geology | 10 |
| EC4201 | Integrated Civil Design Project | 10 |
| EE1501 | Electrical Laboratory Skills | 10 |
| EE1101 | Principles of Computer System | 10 |
| EE1102 | Electrical Principles | 10 |
| EE2101 | Electronics Principles | 10 |
| EE2102 | Electrical Circuits | 10 |
| EE2103 | Computer Communication and Networking | 10 |
| EE3201 | Electromagnetic Fields and Waves | 10 |
| EE3202 | Communication System | 10 |
| EE3203 | Embedded System | 10 |
| EE3204 | Electrical Power Engineering | 10 |
| EE4201 | Optical Communications | 10 |
| EE4202 | Integrated Circuit Technology | 10 |
| EE4203 | Power Systems 1 | 10 |
| EM1101 | Design, Drafting and Manufacture | 20 |
| EE1102 | Electrical Principles | 10 |
| EE2101 | Electronics Principles | 10 |
| EE2102 | Electrical Circuits | 10 |
| EM2103 | Engineering Thermodynamics 1 | 10 |
| EG2501 | Professional Ethnics | 10 |
| EE3201 | Electromagnetic Fields and Waves | 10 |
| EE3203 | Embedded System | 10 |
| EM2102 | Fluid Mechanics 1 | 10 |
| EM3203 | Manufacturing Engineering | 10 |
| EE4301 | Digital Signal Processing | 10 |
| EE4210 | Mechatronics Laboratory | 10 |
| EE4211 | Industrial Automation | 10 |
| EM1101 | Design, Drafting & Manufacture | 20 |
| EM1501 | Measurement and Instrumentation | 10 |
| EM2101 | Engineering Thermodynamics 1 | 10 |
| EM2102 | Fluid Mechanics 1 | 10 |
| EM2103 | Mechanics of Materials | 10 |
| SM2101 | Engineering Mathematics 3 | 10 |
| EM3101 | Group Design Project | 10 |
| EM3201 | Engineering Thermodynamics 2 | 10 |
| EM3202 | Fluid Mechanics 2 | 10 |
| EM3203 | Manufacturing Engineering | 10 |
| EM3204 | Mechanics of Machines | 10 |
| EM4201 | Advanced Engineering Materials | 10 |
| EM4202 | Heating, Ventilation & Air Conditioning | 10 |
| EM4203 | Computer Aided Manufacturing | 10 |