|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Type** | **Category** | **LEVEL 100** | | |  | **LEVEL 200** | | |  | **LEVEL 300** | | |  | **LEVEL 400** | | |  | |
|  |  | **SEMESTER 1** | **SEMESTER BREAK** | **SEMESTER 2** | **SEMESTER BREAK** | **SEMESTER 1** | **SEMESTER BREAK** | **SEMESTER 2** | **SEMESTER BREAK** | **SEMESTER 1** | **SEMESTER BREAK** | **SEMESTER 2** | **EAA371 INDUSTRIAL TRAINNING FOR 10 WEEK (Register in Semester 1 Year 4)** | **SEMESTER 1** | **SEMESTER BREAK** | **SEMESTER 2** |  | |
| **CORE** | **Engineering Core** | **EAA110/2**  **Civil Engineering Drawing** | **EUM114/3**  **Advanced Engineering Calculus** | **EAA211/2**  **Engineering Mathematics for Civil Engineers** | **EAP215/3 Water Supply and Treatment Engineering** | **EAP315/3 Wastewater Engineering** | **EUP222/3 Engineers in Society** | **EAA371/5**  **Industrial Training** | **EAS458/2**  **Pre-Stressed Concrete Design** |
| **EAA111/2**  **Programming for Civil Engineering** | **EAK163/4 Geomatic Engineering** | **EAH221/3 Fluid Mechanics for Civil Engineers** | **EAP216/3**  **Introduction to Environmental Engineering** | **EAL337/3**  **Pavement Engineering** | **EAH325/3 Engineering Hydrology** | **EAS457/2**  **Structural Steel Design** | **EAA 484/2 Building and Construction Technology** |
| **EUM113/3**  **Engineering Calculus** | **EAS152/3 Strength of Materials** | **EAG245/3 Soil Mechanics** | **EAH225/3 Hydraulics** | **EAG345/3 Geotechnical Analysis** | **EAL338/3**  **Transportation and Road Safety** | **EAA483/2**  **Construction Management** | **EAA492/6 (3) Final Year Project** |
| **EAG141/2**  **Geology for Civil Engineers** |  | **EAS253/3 Theory of Structures** | **EAL235/2**  **Highway and Traffic Engineering** | **EAS353/3**  **Reinforced Concrete Structural Design I** | **EAG346/2 Geotechnical Design** | **EAA492/ 6 (3) Final Year Project** |  |
| **EAS151/3**  **Statics and Dynamics** |  | **EAA273/2**  **Civil Engineering Practice** | **EAS254/3**  **Structural Analysis** |  | **EAS356/2**  **Reinforced Concrete Structural Design II** | **EAA495/4 Integrated Design Project** |  |
| **EAS153/3**  **Civil Engineering Materials** |  |  |  |  |  |  |
| **Labs.** |  |  | **EAA204/2 Structures and**  **Strength of Materials**  **Laboratory** | **EAA206/2**  **Structures, Concrete and Fluid Mechanics Laboratory** | **EAA305/2**  **Hydraulics,**  **Geotechnical and Environmental Engineering Laboratory** | **EAA304/2 Geotechnical, Highway and Traffic Engineering Laboratory** |  |  |
|  | **15** |  | **10** |  | **15** |  | **16** |  | **14** |  | **15** |  | **16** |  | **7** | **108** | |
| **University Requirement**  **(Local)** | | **Co-Curriculum (2 unit )** |  | **LKM400/2**  **Malay Language** |  | **LSP300/2**  **English Language** |  |  |  | **Co-Curriculum/ Option /Language subject (1-2 unit)** |  | **LSP404/2**  **English Language** |  |  |  |  | **15** | |
| **HFF225/2 Philosophy and Current Issues** | **WUS101/2 Core Entrepreneurship** |  |  |  |
| **HFE224/2**  **Appreciation of Ethics and Civilisations** |
| **University Requirement**  **(International)** | | **Co-Curriculum (2 unit )** | **LKM100/2 Malay Language** | **LSP300/2**  **English Language** | **SEA205E/4- Malaysian Studies** | **Co-Curriculum/ Option /Language subject (1-2 unit)** | **LSP404/2**  **English Language** |  |  | **15** | |
| **HFF225/2 Philosophy and Current Issues** |  |  |  |  |  |  |
| **ELECTIVE COURSES (SPECIALISATION)** | |  |  |  |  |  | **EAP316/2**  **Air Pollution In Civil Engineering** | **EAP415/2**  **Solid Waste Management** | **EAP414/2**  **Industrial Waste Management** | **12** | |
|  |  |  |  |  | **EAH316/2**  **Hydraulic Structure** | **EAH417/2**  **Urban Water Management** | **EAH416/2**  **River Conservation and Rehabilitation** |
|  |  |  |  |  | **EAS357/2**  **Sustainable Concrete Materials and Practices** | **EAS451/2**  **Timber and Masonry Engineering** | **EAS456/2**  **Advanced Structural Analysis** |
|  |  |  |  |  | **EAP318/2**  **Noise Pollution Control** | **EAG444/2**  **Soil Stabilization and Ground Improvement** | **EAG443/2**  **Rock Engineering and Tunneling Technology** |
|  |  |  |  |  | **EAL339/2**  **Sustainable Transport** | **EAL431/2**  **Highway Design** | **EAL434/2**  **Transport Planning Process and TIA** |
|  |  |  |  |  | **EAK382/2**  **Geographic Information System** | **EAA485/2**  **Disaster Management** | **EAA486/2**  **Project Management** |
|  | |  |  |  |  | **Total Units for Graduation** | | | | | | | | **135** |

**Curriculum Structure – Bachelor of Engineering (Honours) (Civil Engineering) Programme ACADEMIC SESSION 2020/2021**