

**CURRICULUM STRUCTURE – BACHELOR OF ENGINEERING (HONOURS) (CIVIL ENGINEERING) PROGRAMME
ACADEMIC SESSION 2015/2016**

Type	Category	LEVEL 100		LEVEL 200		LEVEL 300		LEVEL 400		
		SEMESTER 1	SEMESTER 2	SEMESTER 1	SEMESTER 2	SEMESTER 1	SEMESTER 2	SEMESTER 1	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 Water Treatment Engineering	EAP315/3 Wastewater Engineering	EUP222/3 Engineers in Society	EAA371/5 Industrial Training	EAS458/2 Pre-Stressed Concrete Design	108
		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 Steel Building Design	EAA484/2 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 Concrete, Structures 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	
University Requirement			LKM400/2 Malay Language	LSP300/2 English Language	HTU223/2 Asian and Islamic Civilisation	Co-Curriculum or Language subject (3 unit)	LSP404/2 English Language			15
			WUS101/2 Core Entrepreneurship							
			SHE101/2 Ethnic Study							
ELECTIVE COURSES (SPECIALISATION)							EAP316/2 Air and Noise Pollution Control	EAP415/2 Solid Waste Management	EAP414/2 Industrial waste Management	12
							EAH316/2 Hydraulic Structure	EAH417/2 River Water Management	EAH416/2 River Conservation and Rehabilitation	
							EAS358/2 Timber Engineering	EAS453/2 Sustainable Concrete Materials and Practises	EAS456/2 Advanced Structural Analysis	
							EAG348/2 Sustainable Geotechnical Methods	EAG443/2 Rock Engineering and Tunneling Technology	EAG444/2 Soil Stabilization and Ground Improvement	
							EAL338/2 Sustainable Transport	EAL431/2 Highway Design and Road Safety Audit	EAL434/2 Transport Planning Process and TIA	
							EAK382/2 Geographical Information System	EAA485/2 Disaster Management	EAA486/2 Project Management	
Total Units for Graduation										135

**EEA371 INDUSTRIAL TRAINING FOR 10 WEEK
(Register in semester 1 Year 4)**

Total Units for Graduation 135

CURRICULUM STRUCTURE – BACHELOR OF ENGINEERING (HONS.) (CIVIL ENGINEERING) FOUR YEAR PROGRAMME 2014/2015

Type	Category	LEVEL 100		LEVEL 200		LEVEL 300		LEVEL 400		
		SEMESTER 1	SEMESTER 2	SEMESTER 1	SEMESTER 2	SEMESTER 1	SEMESTER 2	SEMESTER 1	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 Water Treatment Engineering	EAP315/3 Wastewater Engineering	EUP222/3 Engineers in Society	EAA371/5 Industrial Training	EAS458/2 Pre-Stressed Concrete Design	108
		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 Highway Engineering	EAH325/3 Engineering Hydrology	EAS457/2 Steel Building 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	EAL336/3 Traffic Engineering	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 Transportation 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 Concrete, Structures 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	
University Requirement			LKM400/2 Malay Language	LSP300/2 English Language	HTU223/2 Asian and Islamic Civilisation	Co-Curriculum or Language subject (3 unit)	LSP404/2 English Language			15
			WUS101/2 Core Entrepreneurship							
			SHE101/2 Ethnic Study							
ELECTIVE COURSES (SPECIALISATION)							EAP316/2 Air and Noise Pollution Control	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	
							EAS358/2 Timber Engineering	EAS453/2 Sustainable Concrete Materials and Practises	EAS456/2 Advanced Structural Analysis	
							EAG348/2 Sustainable Geotechnical Methods	EAG443/2 Rock Engineering and Tunneling Technology	EAG444/2 Soil Stabilization and Ground Improvement	
							EAL338/2 Sustainable Transport	EAL431/2 Highway Design and Road Safety Audit	EAL434/2 Transport Planning Process and TIA	
							EAK382/2 Geographical Information System	EAA485/2 Disaster Management	EAA486/2 Project Management	
Total Units for Graduation										135

**CURRICULUM STRUCTURE – BACHELOR OF ENGINEERING (CIVIL ENGINEERING) FOUR YEAR PROGRAMME [OBE]
ACADEMIC SESSION 2013/2014**

Type	Category	LEVEL 100		LEVEL 200		LEVEL 300		LEVEL 400	
		SEMESTER 1	SEMESTER 2	SEMESTER 1	SEMESTER 2	SEMESTER 1	SEMESTER 2	SEMESTER 1	SEMESTER 2
CORE	Engineering Core	EUM 113/3 Engineering Calculus	EUM 114/3 Advanced Engineering Calculus	EAA 211/2 Engineering Mathematics for Civil Engineers	EAH 225/3 Hydraulics	EAL 334/4 Highway Engineering	EAL 335/4 Transportation, Traffic Eng.	EAA 493/3 Integrated Design Project	EAA 492/6 (3) Final Year Project (This is 2 semester subject)
		EBS 101/3 Engineering Geology	EEU 104/3 Electrical Technology	EAH 221/3 Fluid Mechanics for Civil Engineers	EAS 254/3 Structural Analysis	EAA 384/2 Construction Technology	EAH 325/3 Engineering Hydrology	EAA 483/2 Construction Management	SEMESTER BREAK
		EBB 113/3 Engineering Materials	EAS 152/3 Strength of Materials	EAS 253/3 Theory of Structures	EAG 245/3 Soil Mechanics	EAS 353/3 Reinforced Concrete Structure Design I	EAS 354/3 Timber and Steel Structural Design	EAA 455/2 Reinforced Concrete Structure Design	
		EMM 101/3 Engineering Mechanics	EAK 263/4 Geomatic Engineering	EUP 222/3 Engineers in Society	EAP 215/3 Water Supply & Water Treatment Eng.	EAG 345/3 Geotechnical Analysis	EAG 346/2 Geotechnical Design	EAA 492/6 (3) Final Year Project (This is 2 semester subject register in semester 1)	
		EEU 101/2 Computer Programming		EAA 273/2 Civil Engineering Practice		EAP 313/2 Waste Water Engineering		EAA 371/5 Industrial Training	
		EAS 181/2 Concrete Technology							
		EAA 110/2 Civil Eng. Drawing							
Labs.				EAA 204/2 Structure and Strength of Materials Laboratory	EAA 203/2 Concrete, Structure & Fluid Mechanics Eng. Laboratory	EAA 305/2 Environment, Hydraulic & Geotechnical Eng. Laboratory	EAA 304/2 Geotechnical, Highway & Traffic Eng. Laboratory		
		18	13	15	14	16	14	15	3
									108
University Requirement			LKM400/2 Malay Language	LSP404/2 English Language	HTU 223/2 Asia & Islamic Civilisation	Co-Curriculum or Language subject (1 unit)			
			LSP300/2 English Language	Co-Curriculum or Language subject (1 unit)	SHE 101/2 Ethnic Study				
			WUS 101/2 Core Entrepreneurship		Co-Curriculum or Language subject (1 unit)				
ELECTIVE	Compulsory							EAP 411/3 EIA & Solid Waste Management	
	Choice					EUP 301/3 Engineering Management	EAS 355/2 Advanced Concrete Technology	EAK 465/2 Geographical Information System	
	Program						EAA 393/2 Computation and Problem Solving in Civil Eng.	EAH 416/2 River Conservation & Rehabilitation	EAS 453/2 Pre-Stressed Concrete Design
								EAS 454/4 Advanced Structural Engineering	
								EAL 432/4 Advanced Highway & Transportation Eng.	
								EAP 412/4 Environmental Studies	
								EAH 422/4 Advanced Water Resources Eng.	
								EAG 442/4 Advanced Geotechnical Eng.	
									12
Total Units for Graduation									135