

Curriculum

Table 1. Summary of curriculum for Bachelor of Civil Engineering with Honours (BFF)

Year	Semester	Course Code	Courses	Credit	Total
1	I	UWB 10102	Academic English	2	17/18
		UWS 10103/202	* Nationhood and Current Development of Malaysia/ Ethic Relation	3/2	
		UWA 10102 /202/302	* Islamic Studies / Moral Studies/ Islamic and Asian Civilisation	2	
		BFC 10502 / UQ* 1xxx2	* Civil Engineering Materials / Foreign Language	2	
		UQ* 1xxx1	Co-Curriculum I	1	
		BFC 13903	Civil Engineering Mathematic I	3	
		BFC 10103	Static and Dinamic	3	
	BFC 10202	Nature Conservation	2		
	II	UWS 10103/202	* Nationhood and Current Development of Malaysia/ Ethic Relation	3/2	17/18
		UWA 10102 /202/302	* Islamic Studies / Moral Studies/ Islamic and Asian Civilisations	2	
		BFC 10502 / UQ* 1xxx2	* Civil Engineering Materials / Foreign Language	2	
		UWB 10202	Effective Communication	2	
		BFC 14003	Civil Engineering Mathematic II	3	
		BFC 10303	Engineering Drawing and CAD	3	
BFC 10403		Fluids Mechanics	3		
2	I	UWB 20302	Technical Writing	2	17
		BFC 20601	Material and Fluid Laboratory	1	
		UQ*1xxx1	Co-Curriculum II	1	
		BFC 23702	Creativity and Innovation	2	
		BFC 24103	Civil Engineering Mathematic III	3	
		BFC 20703	Engineering Geomatic	3	
		BFC 20802	Computer Programming	2	
	BFC 20903	Mechanics of Material	3		
	II	BFC 24203	Civil Engineering Mathematic IV	3	17
		BFC 21002	Construction Engineering	2	
BFC 21103		Hydraulic	3		
III	BFC 21201	Hydraulic and Mechanics of Materials	1	2	
	BFC 21303	Engineering Geology	3		
	BFC 21403	Structural Analysis	3		
	BFC 21702	Geotechnics I	2		
BFC 21502	Geomatics Practice	2	2		
3	I	BFC 34303	Statistics of Civil Engineering	3	16
		BFC 31602	Contract and Estimation	2	
		BFC 34402	Geotechnics II	2	
		BFC 31802	Highway Engineering	2	
		BFC 31901	Geotechnic and Structure Laboratory	1	
		BFC 32002	Hydrology	2	
		BFC 32102	Reinforced Concrete Design I	2	
	BPK 20802	Entrepreneurship	2		
	II	BFC 32302	Traffic Engineering and Safety	2	14
		BFC 32403	Environmental Engineering	3	
		BFC 32501	Transportation and Environmental Engineering Laboratory	1	
		BFC 32602	Mechanical and Electrical System	2	
		BFC 32703	Sustainable Construction Engineering	3	
BFC32803	Reinforced Concrete Design II	3			
III	BFC 32904	Industrial Training	4		

Year	Semester	Course Code	Courses	Credit	Total
4	I	BFC 43003 BFC 43103 BFC 43201 BFC 43502 BFC 43402 BPK 30902	Structural Steel and Timber Design Foundation Engineering Civil Engineering Software Occupational Safety and Health Final Year Project I Engineering Economy	3 3 1 2 2 2	15
		BFC 43604 BFC 43303 BF* 4XY03 BF* 4XY03 BF* 4XY03	Final Year Project II Intergrated Design Project Elective I Elective II Elective III	4 3 3 3 3	16
Total Credit					136

Table 2. List of elective courses in Bachelor of Civil Engineering with Honours (BFF)

Field	Code of courses	Elective courses	Credit
Structure and Material	BFS40103	Advanced Structure Analysis	3
	BFS40303	Prestressed Concrete Design	3
	BFS40603	Concrete Technology	3
	BFS40903	Advanced Structure Design	3
	BFS41003	Finite Element Analysis	3
Environmental	BFK40303	Advanced Timber Structural Design	3
	BFA40103	Environmental Management	3
	BFA40203	Design of Water Supply	3
	BFA40303	Solid Waste and Hazardous Waste Management	3
Water Resources	BFA40403	Design of Waste Water Engineering	3
	BFW40103	Water Resources Engineering	3
	BFW40303	Coastal and Harbour Engineering	3
	BFW40403	Groundwater Engineering	3
Geotechnic	BFW40503	Urban Stormwater Management	3
	BFG40103	Advanced Foundation	3
	BFG40203	Advanced Geotechnic	3
Transportation	BFG40403	Geo-Synthetic	3
	BFT40203	Pavement Engineering	3
	BFT40303	Transportation Engineering	3
	BFT40503	Advanced Traffic Engineering	3
Building	BFT40603	Road Safety Engineering	3
	BFB40603	Building Services I	3
	BFB40703	Building Services II	3
	BFB40803	Building Construction	3
Construction	BFB40903	Building Maintenance	3
	BFP40103	Construction Planning and Scheduling	3
	BFP40203	Project Financial Management	3
	BFP40403	Construction Plant Management	3
	BFP40503	Structure Rehabilitation and Repair	3
BFP40603	Industrialized Building System	3	