

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

Year	Semester	Course Code	Courses	Credit	Total
1	I	UHB 10100	English for Higher Education	2	19/18
		UQU 1xxx3 / UQU 10303 / UQU 1***2 / UWB 1xxx2	* Philosophy and Current Issues / ** <i>Malaysian Studies and Culture</i> * Appreciation for Ethics and Civilisation / ** <i>Malay Language</i>	3/2	
		UQI 10102 / UQI 10202 / UQI 10902 / UQI 1***2 / UQI 11102	* Islamic Studies / Moral Studies / ** <i>Islam in Malaysia</i> Appreciation for Ethics and Civilisation / ** <i>Civilizational Studies in Asia</i>	3/2	
		UQ* 1xxx1	Co-Curriculum I	1	
		BFC 10502	Civil Engineering Materials	2	
		BFC 15003	Calculus	3	
		BFC 10103	Static and Dinamic	3	
		BFC 10403	Fluid Mechanics	3	
	II	UQU 1xxx3 / UQU 10303 / UQU 1xxx2 / UWB 11002	* Philosophy and Current Issues / ** <i>Malaysia Studied and Culture</i> * Appreciation for Ethics and Civilisation / ** <i>Malay Language</i>	2	18
		UQ*1xxx1	Co-Curriculum II	1	
		UQ* 1xxx2	Foreign Language	2	
		BFC 10303	Engineering Drawing and CAD	3	
		BFC 20601	Material and Fluid Laboratory	1	
		BFC 20903	Mechanics of Materials	3	
		BFC 21103	Hydraulic	3	
BFC 25103	Engineering Mathematics	3			
2	I	UQI 10902 / UQI 1***2 /	<i>Islam in Malaysia/</i> Appreciation for Ethics and Civilisation	2	17
		UHB20102	Essential Academic English	2	
		BFC 25203	Numerical Method Mathematics	3	
		BFC 21201	Hydraulics and Mechanics of Material Laboratory	1	
		BFC 21403	Structure Analysis	3	
		BFC 21702	Geotechnic I	2	
		BFC 32002	Hydrology	2	
		BFC 31802	Highway Engineering	2	
	II	BFC 20703	Engineering Geomatic	3	18
		BFC 20802	Computer Programming	2	
		BFC 21002	Construction Engineering	2	
		BFC 21303	Geologi Kejuruteraan	3	
		BFC 35403	Geotechnic II	3	
BFC 34303		Civil Engineering Statistic	3		
III	BFC 34702	Structures Design	2	2	
	BFC 21502	Geomatic Practice	2		
I	UHB 30102	English For Technical Purpose	2	18	

Year	Semester	Course Code	Courses	Credit	Total
3		BFC 31901	Geotechnic and Structure Laboratory	1	
		BFC 32202	Engineers and Society	2	
		BFC 32302	Traffic Engineering and Safety	2	
		BFC 32403	Environmental Engineering	3	
		BFC 32602	Mechanical and Electrical System	2	
		BFC 32703	Sustainable Construction Engineering	3	
		BFC 34803	Reinforced Concrete Design	3	
	II	BFC 32501	Transportation and Environmental Laboratory	1	17
		BFC 34502	Entrepreneurship	2	
		BFC 23702	Creativity and Innovation	2	
		BFC 35303	Water System Design and Management	3	
		BFC 35503	Contract and Estimation	3	
		BFC 43201	Civil Engineering Software Application	1	
BFC 43502		Occupational Health and Safety	2		
III	BFC 44903	Structural Steel Design	3		
	BFC 32904	Industrial Training	4	4	
4	I	UHB 40102	English For Occupational Purposes	2	12
		BFC 43402	Final Year Project I (Prerequisite = Pass 96 credits)	2	
		BFC 43303	Intergrated Design Project	3	
		BFC 43103	Foundation Engineering	3	
		BFC 44602	Engineering Economy	2	
	II	BFC 43604	Final Year Project II	4	13
		BF* 4XY03	Elective I (Prerequisite = Pass 114 credits)	3	
		BF* 4XY03	Elective I (Prerequisite = Pass 114 credits)	3	
		BF* 4XY03	Elective I (Prerequisite = Pass 114 credits)	3	
		BFC 43604	Final Year Project II	4	
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List of elective courses in Bachelor of Civil Engineering with Honours (BFF)

Field	Code of courses	Elective courses	Credit
Environmental	BFA40103	Environmental Management	3
	BFA40203	Design of Water Supply	3
	BFA40303	Solid Waste and Hazardous Waste Management	3
	BFA40403	Design of Waste Water Engineering	3
Building	BFA40503	Air Pollution Prevention and Control	3
	BFB40203	Tall Building Construction	3
	BFB41003	Building Services	3
	BFB41103	Acoustics and Lighting	3
Geotechnic	BFB40903	Building Maintenance	3
	BFG40103	Advanced Foundation	3
	BFG40203	Advanced Geotechnic	3
	BFG40303	Geo-Environment	3
	BFG40403	Geo-Synthetic	3
	BFG40503	Engineering Geophysics	3
	BFG40603	Soft Soil Engineering	3
Construction	BFG40703	Applied Geomatics	3
	BFG40803	Geographical Informations Systems For Civil Engineering	3
	BFP40103	Construction Planning and Scheduling	3
Structure and Material	BFP40203	Project Financial Management	3
	BFP40603	Industrialized Building System	3
	BFS40103	Advanced Structure Analysis	3
	BFS40303	Prestressed Concrete Design	3
	BFS40603	Concrete Technology	3
	BFS40903	Advanced Structure Design	3
	BFS41003	Finite Element Analysis	3
Transportation	BFK40303	Advanced Structural Timber Design	3
	BFS41203	Data Science and Application	3
	BFT40203	Pavement Engineering	3
	BFT40303	Transportation Engineering	3
Water Resources	BFT40503	Advanced Traffic Engineering	3
	BFT40603	Road Safety Engineering	3
	BFW40103	Water Resources Engineering	3
	BFW40303	Coastal and Harbour Engineering	3
	BFW40403	Groundwater Engineering	3
	BFW40503	Urban Stormwater Management	3