

**BE(Hons) in Civil Engineering with a Major — Semester 1 Start**

Year 1	1	MATH1051 Calculus & Linear Algebra	ENGG1100 Professional Engineering	ENGG1700 Statics and materials	General elective
	2	MATH1052 Multivariate Calculus & Ordinary Differential Equations	ENGG1001 Programming for engineers	Program elective	General elective
Year 2	1	CIVL2135 Environmental engineering	CIVL2330 Structural mechanics	CIVL2131 Environmental fluid mechanics	CIVL2530 Statistics and data analysis
	2	CIVL3360 Reinforced concrete design	CIVL2210 Fundamentals of soil mechanics	CIVL3155 Hydrology and free surface flows	CIVL2420 Fundamentals of transport engineering
Year 3	1	CIVL3530 Data analytics in civil engineering	CIVL3210 Geotechnical engineering	Major	Major
	2	CIVL3520 Project mgt & professional practice	Adv Civil Elective	Major	Major
Year 4	1	CIVL4170 Risk analysis and assessment	CIVL4600 Research part A or Adv Civil Elective	Major	Major
	2	CIVL4514/16 Capstone design (built <u>or</u> natural env)	CIVL4600 Research part A or CIVL4605 Research part B or Adv Civil Elective	Major	Major

General engineering	Civil specialisation	Major	General Elective
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Adv Civil Elective = Civil Engineering Advanced elective

**BE(Hons) in Civil Engineering with a Major — Semester 2 Start**

Year 1	2	MATH1051 Calculus & Linear Algebra	ENGG1100 Professional Engineering	ENGG1700 Statics and materials	General elective
	1	MATH1052 Multivariate Calculus & Ordinary Differential Equations	ENGG1001 Programming for engineers	Program elective	General elective
Year 2	2	CIVL3360 Reinforced concrete design	CIVL2210 Fundamentals of soil mechanics	CIVL3155 Hydrology and free surface flows	CIVL2420 Fundamentals of transport engineering
	1	CIVL2135 Environmental engineering	CIVL2330 Structural mechanics	CIVL2131 Environmental fluid mechanics	CIVL2530 Statistics and data analysis
Year 3	2	CIVL3520 Project mgt & professional practice	Adv Civil Elective	Major	Major
	1	CIVL3530 Data analytics in civil engineering	CIVL3210 Geotechnical engineering	Major	Major
Year 4	2	CIVL4514/16 Capstone design (built or natural env)	CIVL4600 Research part A or Adv Civil Elective	Major	Major
	1	CIVL4170 Risk analysis and assessment	CIVL4600 Research part A or CIVL4605 Research part B or Adv Civil Elective	Major	Major

General engineering	Civil specialisation	Major	General Elective
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Adv Civil Elective = Civil Engineering Advanced elective

**BE(Hons)/ME in the field of Civil Engineering — Semester 1 Start**

Year 1	1	MATH1051 Calculus & Linear Algebra	ENGG1100 Professional Engineering	ENGG1700 Statics and materials	General elective
	2	MATH1052 Multivariate Calculus & Ordinary Differential Equations	ENGG1001 Programming for engineers	Program elective	General elective
Year 2	1	CIVL2135 Environmental engineering	CIVL2330 Structural mechanics	CIVL2131 Environmental fluid mechanics	CIVL2530 Statistics and data analysis
	2	CIVL3360 Reinforced concrete design	CIVL2210 Fundamentals of soil mechanics	CIVL3155 Hydrology and free surface flows	CIVL2420 Fundamentals of transport engineering
Year 3	1	CIVL3530 Data analytics in civil engineering	CIVL3210 Geotechnical engineering	Adv Civil Elective	Adv Civil Elective
	2	CIVL3520 Project mgt & professional practice	Adv Civil Elective	Adv Civil Elective	Adv Civil Elective
Year 4	1	CIVL4170 Risk analysis and assessment	CIVL4600 Research part A	Adv Civil Elective	Adv Civil Elective
	2	CIVL4514/16 Capstone design (built or natural env)	Adv Civil Elective	Adv Civil Elective	Adv Civil Elective
Year 5	1	Adv Civil Elective	Adv Civil Elective	CIVL7500 Research Thesis	CIVL7500 Research Thesis
	2	ENGG7701 Engineering Grand Challenges	Adv Civil Elective	CIVL7501 Research Thesis	CIVL7501 Research Thesis

General engineering	Civil specialisation	Field of study elective	General Elective
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Adv Civil Elective = Civil Engineering Advanced elective

**BE(Hons)/ME in the field of Civil Engineering — Semester 2 Start**

Year 1	2	MATH1051 Calculus & Linear Algebra	ENGG1100 Professional Engineering	ENGG1700 Statics and materials	General elective
	1	MATH1052 Multivariate Calculus & Ordinary Differential Equations	ENGG1001 Programming for engineers	Program elective	General elective
Year 2	2	CIVL3360 Reinforced concrete design	CIVL2210 Fundamentals of soil mechanics	CIVL3155 Hydrology and free surface flows	CIVL2420 Fundamentals of transport engineering
	1	CIVL2135 Environmental engineering	CIVL2330 Structural mechanics	CIVL2131 Environmental fluid mechanics	CIVL2530 Statistics and data analysis
Year 3	2	CIVL3520 Project mgt & professional practice	Adv Civil Elective	Adv Civil Elective	Adv Civil Elective
	1	CIVL3530 Data analytics in civil engineering	CIVL3210 Geotechnical engineering	Adv Civil Elective	Adv Civil Elective
Year 4	2	CIVL4514/16 Capstone design (built or natural env)	CIVL4600 Research part A or Adv Civil elective	Adv Civil Elective	Adv Civil Elective
	1	CIVL4170 Risk analysis and assessment	CIVL4600 Research part A or Adv Civil elective	Adv Civil Elective	Adv Civil Elective
Year 5	2	Adv Civil Elective	Adv Civil Elective	CIVL7501 Research Thesis	CIVL7501 Research Thesis
	1	ENGG7701 Engineering Grand Challenges	Adv Civil Elective	CIVL7500 Research Thesis	CIVL7500 Research Thesis

	General engineering	Civil specialisation	Field of study elective	General Elective
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Adv Civil Elective = Civil Engineering Advanced elective