ME - CIVIL ENGINEERING

Study plans for commencement in Semester 1

Semester 1 start - ODD year

PARTS A2 and A3 - Compulsory

Part B - Advanced BE (Hons) electives and Part C - ME electives

Column groups: Multi disciplinary | Research | Water and Environmental | Geotechnical | Structures | Transport | Fire

	Compulsory					Semester	Multi disciplinary	Research			Water and Environmental					Geotechnical				Structures							Transport				Fire			
Odd – Semester 1	ENGG7901 Professional engineering and business environment: Global practice	Elective	Elective	Elective		Semester 1	CIVL4340 Wind Engineering				CIVL4140 Contaminant Transport Modelling	CIVL4170 Environmental Risk Assessment and Management	CIVL7135 Advanced Environmental Monitoring Techniques for Civil Engineers		CIVL7131 Urban Hydrology	MINE4000 Mine waste management and landform design	CIVL4270 Geotechnical investigating and testing	CIVL7215 Ground improvement and remediation technologies		CIVL4333 Advanced concrete design		CIVL7350 Design of composite structures					CIVL7415 Transport Data Analytics	CIVL7425 Strategic Transport Modelling		FIRE3700 Introduction to fire safety engineering	FIRE4610 Fire engineering design: Solutions for implicit safety	FIRE7660 Structural fire engineering
Odd – Semester 2	ENGG7902 Engineering innovation and leadership	CIVL7505 Research methods for civil engineers	Elective	Elective		Semester 2	CIVL4522 Analytical Methods for the Design of Construction Operations			CIVL4110° Coastal & estuarine processes ODD						CIVL4230 Advanced soil mechanics	CIVL4280 Advanced rock mechanics	CIVL7225 Dam and embankment engineering		CIVL4332 Advanced structural analysis	CIVL4334 Design of timber structures	CIVL7315 Advanced concrete structures and concrete technology	CIVL7360 Computational Design and Digital Workflows	CIVL4412 Travel behaviour and transport modelling	CIVL4450 Traffic Flow Theory and Emerging Technologies	CIVL4460 Highway geometric design	CIVL7435 Traffic Simulation				FIRE7620 Fire dynamics
Even – Semester 1	CIVL7513 Research project	Elective	Elective	Elective		Semester 1	CIVL4340 Wind Engineering	CIVL7500& Research thesis			CIVL4140 Contaminant Transport Modelling	CIVL4170 Environmental Risk Assessment and Management	CIVL7135 Advanced Environmental Monitoring Techniques for Civil Engineers	CIVL7155° Environmental Fluid Mechanics - Modelling Applications EVEN	CIVL7131 Urban Hydrology	MINE4000 Mine waste management and landform design	CIVL4270 Geotechnical investigating and testing	CIVL7215 Ground improvement and remediation technologies		CIVL4333 Advanced concrete design		CIVL7350 Design of composite structures					CIVL7415 Transport Data Analytics	CIVL7425 Strategic Transport Modelling		FIRE3700 Introduction to fire safety engineering	FIRE4610 Fire engineering design: Solutions for implicit safety	FIRE7660 Structural fire engineering
Even – Semester 2		Elective	Elective	Elective		Semester 2	CIVL4522 Analytical Methods for the Design of Construction Operations			CIVL4120° Advanced Hydraulic Engineering and Structures EVEN						CIVL4230 Advanced soil mechanics	CIVL4280 Advanced rock mechanics	CIVL7225 Dam and embankment engineering	CIVL7235° Underground structures EVEN	CIVL4332 Advanced structural analysis	CIVL4334 Design of timber structures	CIVL7315 Advanced concrete structures and concrete technology	CIVL7360 Computational Design and Digital Workflows	CIVL4412 Travel behaviour and transport modelling	CIVL4450 Traffic Flow Theory and Emerging Technologies	CIVL4460 Highway geometric design	CIVL7435 Traffic Simulation				FIRE7620 Fire dynamics

Enrol in CIVL7513 in both semesters

Enrol in CIVL7500 in both semesters

Semester 1 start - EVEN year

PARTS A2 and A3 - Compulsory

Part B - Advanced BE (Hons) electives and Part C - ME electives

	Compulsory					Semester	Multi disciplinary	Research			Water and Environmental					Geotechnical				Structures							Transport				Fire			
Even – Semester 1	ENGG7901 Professional engineering and business environment: Global practice	Elective	Elective	Elective		Semester 1	CIVL4340 Wind Engineering				CIVL4140 Contaminant Transport Modelling	CIVL4170 Environmental Risk Assessment and Management	CIVL7135 Advanced Environmental Monitoring Techniques for Civil Engineers	CIVL7155° Environmental Fluid Mechanics – Modelling Applications EVEN	CIVL7131 Urban Hydrology	MINE4000 Mine waste management and landform design	CIVL4270 Geotechnical investigating and testing	CIVL7215 Ground improvement and remediation technologies		CIVL4333 Advanced concrete design		CIVL7350 Design of composite structures					CIVL7415 Transport Data Analytics	CIVL7425 Strategic Transport Modelling		FIRE3700 Introduction to fire safety engineering	FIRE4610 Fire engineering design: Solutions for implicit safety	FIRE7660 Structural fire engineering
Even – Semester 2	ENGG7902 Engineering innovation and leadership	CIVL7505 Research methods for civil engineers	Elective	Elective		Semester 2	CIVL4522 Construction engineering management			CIVL4120° Advanced Hydraulic Engineering and Structures EVEN					CIVL7170 Pollution Control in Cities	CIVL4230 Advanced soil mechanics	CIVL4280 Advanced rock mechanics	CIVL7225 Dam and embankment engineering	CIVL7235° Underground structures EVEN	CIVL4332 Advanced structural analysis	CIVL4334 Design of timber structures	CIVL7315 Advanced concrete structures and concrete technology	CIVL7360 Computational Design and Digital Workflows	CIVL4412 Travel behaviour and transport modelling	CIVL4450 Traffic Flow Theory and Emerging Technologies	CIVL4460 Highway geometric design	CIVL7435 Traffic Simulation				FIRE7620 Fire dynamics
Odd – Semester 1	CIVL7513 Research project	Elective	Elective	Elective		Semester 1	CIVL4340 Wind Engineering	CIVL7500& Research thesis			CIVL4140 Contaminant Transport Modelling	CIVL4170 Environmental Risk Assessment and Management	CIVL7135 Advanced Environmental Monitoring Techniques for Civil Engineers		CIVL7131 Urban Hydrology	MINE4000 Mine waste management and landform design	CIVL4270 Geotechnical investigating and testing	CIVL7215 Ground improvement and remediation technologies		CIVL4333 Advanced concrete design		CIVL7350 Design of composite structures					CIVL7425 Transport models for planning	CIVL7415 Transport Data Analytics		FIRE3700 Introduction to fire safety engineering	FIRE4610 Fire engineering design: Solutions for implicit safety	FIRE7660 Structural fire engineering
Odd – Semester 2		Elective	Elective	Elective		Semester 2	CIVL4522 Construction engineering management			CIVL4110° Coastal & estuarine processes ODD					CIVL7170 Pollution Control in Cities	CIVL4230 Advanced soil mechanics	CIVL4280 Advanced rock mechanics	CIVL7225 Dam and embankment engineering		CIVL4332 Advanced structural analysis	CIVL4334 Design of timber structures	CIVL7315 Advanced concrete structures and concrete technology	CIVL7360 Computational Design and Digital Workflows	CIVL4412 Travel behaviour and transport modelling	CIVL4450 Traffic Flow Theory and Emerging Technologies	CIVL4460 Highway geometric design	CIVL7435 Traffic Simulation				FIRE7620 Fire dynamics

Enrol in CIVL7513 in both semesters

Enrol in CIVL7500 in both semesters

o Course offered in ODD years only.
e Course offered in EVEN years only.
@ Some Part C electives are available only every second year. Students may need to do them in their 1st year.
& CIVL7500 (#8 units) may be taken in lieu of CIVL7513 and two electives.

Revised: 20/01/2021