

Undergraduate Part-Time Programme

AY2019/2020 onwards

Academic Unit Requirements

Core	Major PE	GER-Core	GER-PE	Total
73	9	12	3	97

Mechanical Engineering (Part-Time) Year 1, Semester 1

COURSE CODE	COURSE TITLE	AU	Course Category	PRE-REQUISITE	Course Offering in
MH2810	Mathematics A	4	Core	Nil	Sem 1
PH1012	Physics A	4	Core	-	Sem 1
MA1002	Fundamental Engineering Materials	3	Core	Nil	Sem 1
GC0001	Sustainability: Seeing Through The Haze	1	GER-Core	Nil	Sem 1 - Online
HW0001	Introduction to Academic Communication (previously titled <i>English Proficiency</i>)	0	Core	For students who fail Qualifying English Test	Sem 1
	Total	12			

Mechanical Engineering (Part-Time) Year 1, Semester 2

COURSE CODE	COURSE TITLE	AU	Course Category	PRE-REQUISITE	Course Offering in
MA1001	Dynamics	3	Core	Having read PH1012 & MH2810	Sem 2
MA1008	Introduction to Computational Thinking	3	Core	-	Sem 2
MA2001	Mechanics of Materials	3	Core	Nil	Sem 2
MA2006	Engineering Mathematics	3	Core	(MH1810 & MH1811)/ MH2810/CY1203	Sem 2
	Total	12			

Mechanical Engineering (Part-Time) Year 2, Semester 1

COURSE CODE	COURSE TITLE	AU	Course Category	PRE-REQUISITE	Course Offering in
MA2003	Introduction to Thermo-fluids	3	Core	Nil	Sem 1
MA2004	Manufacturing Processes	3	Core	Nil	Sem 1
MA2005	Engineering Graphics	3	Core	Nil	Sem 1
MA2009	Introduction to Electrical Circuits & Electronic Devices	3	Core	Nil	Sem 1
	Total	12			

Mechanical Engineering (Part-Time) Year 2, Semester 2

COURSE CODE	COURSE TITLE	AU	Course Category	PRE-REQUISITE	Course Offering in
MA0101 EG0001	Engineers and Society	3	GER-Core	Nil	Sem 2
MA2002	Theory of Mechanism	3	Core	MA1001	Sem 2
MA3002	Solid Mechanics and Vibration	3	Core	MA2001	Sem 2
HW0188	Effective Communication	2	GER-Core	HW0001 (co-requisite)	Sem 2
HY0001	Ethics and Moral Reasoning	1	GER-Core	Nil	Sem 2 - Online
	Total	12			

Mechanical Engineering (Part-Time) Year 2, Special Term

COURSE CODE	COURSE TITLE	AU	Course Category	PRE-REQUISITE	Course Offering in
MA2071	Laboratory Experiments (ME)	1	Core	Nil	Special Term II
	Total	1			

Mechanical Engineering (Part-Time) Year 3, Semester 1

COURSE CODE	COURSE TITLE	AU	Course Category	PRE-REQUISITE	Course Offering in
MA3001	Machine Element Design	3	Core	Having read MA2001, MA2002 & MA2005	Sem 1
MA3010	Thermodynamics and Heat Transfer	3	Core	MA2003	Sem 1

MA3005	Control Theory	3	Core	Having read MA2006	Sem 1
	Total	9			

Mechanical Engineering (Part-Time) Year 3, Semester 2

COURSE CODE	COURSE TITLE	AU	Course Category	PRE-REQUISITE	Course Offering in
MA4079	Final Year Project ¹	2	Core	Year 4 standing	Sem 1 & 2, Special Term
MA3004	Mathematical Methods in Engineering	3	Core	(FE1006/MH1810/CY1201)/ (FE1007/MH1811/CY1203)/ MH2810	Sem 2
MA3006	Fluid Mechanics	3	Core	MA2003	Sem 2
MA0218	Introduction to Data Science & Artificial Intelligence	3	GER-Core	MA1008	Sem 2
HW0288	Engineering Communication	2	GER-Core	HW0188	Sem 2
	Total	13			

Mechanical Engineering (Part-Time) Year 3, Special Term

COURSE CODE	COURSE TITLE	AU	Course Category	PRE-REQUISITE	Course Offering in
MA4079	Final Year Project ¹	2	Core	Year 4 standing	Sem 1 & 2, Special Term
MA3071	Mechanical Experiments (ME)	1	Core	Nil	Special Term II
	Total	3			

Mechanical Engineering (Part-Time) Year 4, Semester 1

COURSE CODE	COURSE TITLE	AU	Course Category	PRE-REQUISITE	Course Offering in
MA4079	Final Year Project ¹	2	Core	Year 4 standing	Sem 1 & 2, Special Term
MA4001	Engineering Design	4	Core	Having read MA3001	Sem 1
MA4002	Fluid Dynamics	3	Core	MA3006	Sem 1
MA48XX	Major Prescribed Elective 1	3	Major PE	-	Sem 1 & 2

	Total	12			
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Mechanical Engineering (Part-Time) Year 4, Semester 2

COURSE CODE	COURSE TITLE	AU	Course Category	PRE-REQUISITE	Course Offering in
MA4079	Final Year Project ¹	2	Core	Year 4 standing	Sem 1 & 2, Special Term
MA48XX	Major Prescribed Elective 2	3	Major PE	-	Sem 1 & 2
MA48XX	Major Prescribed Elective 3	3	Major PE	-	Sem 1 & 2
MA8103	Human Resource Management	3	GER-PE	-	Sem 2
	Total	11			

Courses in Special Terms are **subject to vacancies** for part-time students admitted before AY2015/2016.

Course fees are payable by per AU basis.

¹ Final Year Project is 8 AUs spread over 3 semesters and 1 special term.