

Undergraduate Part-Time Programme

AY2012/2013 to AY2014/2015

Academic Unit Requirements

Core	Major PE	GER-Core	GER-PE	Total
72	12	10	3	97

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

COURSE CODE	COURSE TITLE	AU	Course Category	PRE-REQUISITE	Course Offering in
MH2812	Foundation Mathematics (replaced by MH2810 Mathematics A (4AU) from AY2016/17)	3	Core	Nil	Sem 1
PH1012	Physics A	4	Core	-	Sem 1
MA1002	Fundamental Engineering Materials	3	Core	Nil	Sem 1
HW0001	English Proficiency**	0	-	For students who fail Qualifying English Test	Sem 1
	Total	10			

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 & MH2812/MH2810	Sem 2
MA2001	Mechanics of Materials	3	Core	Nil	Sem 2
HW0210	Technical Communication (replaced by HW0288 Engineering Communication II)	2	GER-Core	Nil	Sem 2
MA8103	Human Resource Management	3	GER-PE	Nil	Sem 2
	Total	11			

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 Process	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
MA2002	Theory of Mechanism	3	Core	MA1001	Sem 2
MA2006	Engineering Mathematics	3	Core	MH2812/MH2810	Sem 2
MA2007	Thermodynamics	3	Core	MA2003	Sem 2 (last offer in AY2018/19 S2)
MA2071	Laboratory Experiments	1	Core	Nil	Sem 2 (offered in Special Term only from AY2018/19 onwards)
	Total	10			

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	Sem 1
MA3005	Control Theory	3	Core	Having read MA2006	Sem 1
MA3006	Fluid Mechanics	3	Core	MA2003	Sem 1 (offered in Sem 2 from AY2017/18 onwards)

	Total	9			
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Mechanical Engineering (Part-Time) Year 3, Semester 2

COURSE CODE	COURSE TITLE	AU	Course Category	PRE-REQUISITE	Course Offering in
MA3002	Solid Mechanics and Vibration	3	Core	MA2001	Sem 2 (from AY2016/17 onwards)
MA3003	Heat Transfer	3	Core	MA2007	Sem 2
MA3004	Mathematical Methods in Engineering	3	Core	MH2812/MH2810	Sem 2
MA3071	Mechanical Experiments	1	Core	Nil	Sem 2 (offered in Special Term only from AY2018/19 onwards)
	Total	10			

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	IP	Core	Year 4 standing	Sem 1 & 2
MA4002	Fluid Dynamics	3	Core	MA3006	Sem 1
MA48XX	Major Prescribed Elective 1	3	Major PE	-	Sem 1 & 2
MA48XX	Major Prescribed Elective 2	3	Major PE	-	Sem 1 & 2
	Total	9			

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	IP	Core	Year 4 standing	Sem 1 & 2
MA0100	Environmental Sustainability [replaced by GC0001 (1AU), HY0001 (1AU) and ET0001 (1AU)]	3	GER-Core	Nil	Sem 2
MA0101 EG0001	Engineers and Society (previously known as Singapore Studies)	3	GER-Core	Nil	Sem 2 (from AY2016/17 onwards)

HW0310	Professional Communication [replaced by ML0001 (1AU) and ML0002 (1AU)]	2	GER-Core	HW0001 Year 4 standing	Sem 2
	Total	8			

Mechanical Engineering (Part-Time) Year 5, Semester 1

COURSE CODE	COURSE TITLE	AU	Course Category	PRE-REQUISITE	Course Offering in
MA4079	Final Year Project ¹	IP	Core	Year 4 standing	Sem 1 & 2
MA4001	Engineering Design	4	Core	Having read MA3001	Sem 1 (from AY2016/17 onwards)
MA48XX	Major Prescribed Elective 3	3	Major PE	-	Sem 1 & 2
	Total	7			

Mechanical Engineering (Part-Time) Year 5, Semester 2

COURSE CODE	COURSE TITLE	AU	Course Category	PRE-REQUISITE	Course Offering in
MA4079	Final Year Project ¹	8	Core	Year 4 standing	Sem 1 & 2
MA48XX	Major Prescribed Elective 4	3	Major PE	-	Sem 1 & 2
	Total	11			

¹ Final Year Project is 8 AUs spread over 4 semesters.