AU Required for Mechanical Engineering with Second Major in Business (MEBM) Mainstream Students admitted from AY2018/2019

Year	Year Number of Academic Units (AUs)											
of	Major Requirements General Education Requirement (GER)											
Study	iviajoi Red	Juli ements		GER Prescribed Electives								
	Core	Major PE	GER Core	BM LA STS Any Category (BM, LA, STS)				UE	Total			
1	22/23*	0	3					14	39/40*			
2	27	0	8	8				6	41			
3	26	0	2				4	32				
4	15	12	1	1				8	36			
Total	90/91*	12	14	14 0					148/149*			

^{*}Poly Direct Entry Students and JC students without A Level Physics ONLY

Course Code and Title	Туре	AU	Pre-requisite/ Remarks
YEAR 1 SEMESTER 1	7,7		,
MH1810 Mathematics I	С	3	
MA1008 Introduction to Computational Thinking	С	3	
PH1011 Physics	С	3	A Level Physics
OR PH1012 Physics A		OR 4	Only for Poly Direct Entry Students and JC students without A Level Physics
FE1073 Introduction to Engineering and Practices	С	1	
HW0188 Engineering Communication I	GC	2	HW0001 (co-requisite)
GC0001 Introduction to Sustainability: Multidisciplinary Approaches & Solutions	GC	1	Online, Sem 1 only
AD1101 Financial Management	UE	4	
AB1201 Financial Management	UE	3	
Total		20	
YEAR 1 SEMESTER 2			
MH1811 Mathematics II	С	3	
MA1001 Dynamics	С	3	Having read PH1011/PH1012/CY1305 and MH1810/MH2812/ CY1201
MA1002 Fundamental Engineering Materials	С	3	
MA2001 Mechanics of Materials	С	3	
AB1501 Marketing	UE	3	
BE1401 Business Operations and Processes	UE	4	
Total		19	
YEAR 2 SEMESTER 1			
MA2002 Theory of Mechanism	С	3	MA1001
MA2003 Introduction to Thermo-fluids	С	3	
MA2004 Manufacturing Process	С	3	
MA2006 Engineering Mathematics	С	3	FE1006/MH1810 and FE1007/MH1811 or CY1201 and CY1203 or MA1003/MH2812
MA2009 Introduction to Electrical Circuits and Electronics	С	3	
HY0001 Ethics and Moral Reasoning	GC	1	Online, Sem 1 only
ML0003 Career Course	GC	1	Online
AB1301 Business Law	UE	3	
Total		20	
YEAR 2 SEMESTER 2			
MA2005 Engineering Graphics	С	3	
MA2007 Thermodynamics	C C	3 1	MA2003
MA2071 Laboratory Experiments (ME) MA2079 Engineering Innovation and Design	С	2	Semester 2 with 1 week in
		າ	Special Term
MA3006 Fluid Mechanics MA0101 Engineers & Society	C GC	3	MA2003
Data Science and Artificial Intelligence	GC	3	
AB1601 Organisation Behaviour & Design	UE	3	
Total	J.	21	

Curriculum for Mechanical Engineering with Second Major in Business (MEBM) Mainstream Students admitted from AY2018/2019

YEAR 3 SEMESTER 1			
		2	Having read MA2001 &
MA3001 Machine Element Design	С	3	MA2002
MA3002 Solid Mechanics and Vibration	С	3	MA2001
MA3003 Heat Transfer	С	3	MA2007
			MH1810 & MH1811 /
			CY1203 / MH2812 / FE1006
MA3004 Mathematical Methods in Engineering	С	3	& FE1007 / FE1006 &
			MH1811 / CY1602 /
			MH2810
MA3005 Control Theory	С	3	Having Read MA2006
MA3071 Engineering Experiments (ME)	С	1	
HW0288 Engineering Communication II	GC	2	HW0188
Advanced/General Business Course 1	UE	4	
Total		22	
YEAR 3 SEMESTER 2			
MA3080 Professional Internship	С	10	ML0003
Total		10	
YEAR 4 SEMESTER 1			
MA4079 Final Year Project	С	4	Year 4 standing, 2 semesters
MA4001 Engineering Design	С	4	Having Read MA3001
MA48XX Major-PE 1	PE	3	
MA48XX Major-PE 2	PE	3	
ET0001 Entrepreneurship and Innovation	GC	1	Online, Sem 1 only
Advanced/General Business Course 2	UE	4	
Total		19	
YEAR 4 SEMESTER 2			
TEAR 4 SERVESTER 2			
MA4079 Final Year Project	С	4	Year 4 standing, 2 semesters
MA4002 Fluid Dynamics	С	3	MA3006
MA48XX Major-PE 3	PE	3	
MA48XX Major-PE 4	PE	3	
Advanced/General Business Course 3	UE	4	
Total		17	
GRAND TOTAL (Year 1 to 4)		148	

Advanced/General Business Courses: Choose 3
BF2201 Investments
BM2501 Market Behaviour
BM2502 Market Intelligence
BE2601 Management Principles, Skills and Competencies

AU Required for Mechanical Engineering with Second Major in Business (MEBM) Design Stream Students admitted from AY2018/2019

Year	Year Number of Academic Units (AUs)											
of	Major Requirements General Education Requirement (GER)											
Study	iviajoi Red	uli ements		GER Prescribed Electives								
	Core	Major PE	GER Core	BM LA STS Any Category (BM, LA, STS)				UE	Total			
1	22/23*	0	3					14	39/40*			
2	27	0	8					6	41			
3	29	0	2	2				0	31			
4	12	12	1	1				12	37			
Total	90/91*	12	14	14 0					148/149*			

^{*}Poly Direct Entry Students and JC students without A Level Physics ONLY

Course Code and Title	Type	AU	Pre-requisite/ Remarks
YEAR 1 SEMESTER 1			
MH1810 Mathematics I	С	3	
MA1008 Introduction to Computational Thinking	С	3	
PH1011 Physics	С	3	A Level Physics
OR PH1012 Physics A		OR 4	Only for Poly Direct Entry Students and JC students without A Level Physics
FE1073 Introduction to Engineering and Practices	С	1	
HW0188 Engineering Communication I	GC	2	HW0001 (co-requisite)
GC0001 Introduction to Sustainability: Multidisciplinary Approaches	GC	1	Online Som 1 only
& Solutions	GC	1	Online, Sem 1 only
AD1101 Financial Management	UE	4	
AB1201 Financial Management	UE	3	
Total		20	
YEAR 1 SEMESTER 2			
MH1811 Mathematics II	С	3	
MA1001 Dynamics	С	3	Having read PH1011/PH1012/CY1305 and MH1810/MH2812/ CY1201
MA1002 Fundamental Engineering Materials	С	3	
MA2001 Mechanics of Materials	С	3	
AB1501 Marketing	UE	3	
BE1401 Business Operations and Processes	UE	4	
Total		19	
YEAR 2 SEMESTER 1			
MA2002 Theory of Mechanism	С	3	MA1001
MA2003 Introduction to Thermo-fluids	С	3	
MA2004 Manufacturing Process	С	3	
MA2006 Engineering Mathematics	С	3	FE1006/MH1810 and FE1007/MH1811 or CY1201 and CY1203 or MA1003/MH2812
MA2014 Product Presentation	С	3	
MA2071 Laboratory Experiments (ME)	С	1	
HY0001 Ethics and Moral Reasoning	GC	1	Online, Sem 1 only
ML0003 Career Course	GC	1	Online
AB1301 Business Law	UE	3	
Total		21	
	-		
YEAR 2 SEMESTER 2			
MA2005 Engineering Graphics	С	3	
MA2009 Introduction to Electrical Circuits and Electronics	С	3	
MA2013 Creative Thinking and Design	С	3	
MA2079 Engineering Innovation and Design	С	2	Semester 2 with 1 week in Special Term
MA0101 Engineers & Society	GC	3	
Data Science and Artificial Intelligence	GC	3	
AB1601 Organisation Behaviour & Design	UE	3	
Total		20	
		-	

Curriculum for Mechanical Engineering with Second Major in Business (MEBM) Design Stream Students admitted from AY2018/2019

YEAR 3 SEMESTER 1			
MA3001 Machine Element Design	С	3	Having read MA2001 & MA2002
MA3002 Solid Mechanics and Vibration	С	3	MA2001
MA3004 Mathematical Methods in Engineering	С	3	MH1810 & MH1811 / CY1203 / MH2812 / FE1006 & FE1007 / FE1006 & MH1811 / CY1602 / MH2810
MA3005 Control Theory	С	3	Having Read MA2006
MA3006 Fluid Mechanics	С	3	MA2003
MA3010 Thermodynamics & Heat Transfer	С	3	MA2003
MA3071 Engineering Experiments (ME)	С	1	
HW0288 Engineering Communication II	GC	2	HW0188
Total		21	
	•		
YEAR 3 SEMESTER 2			
MA3080 Professional Internship	С	10	ML0003
Total		10	
YEAR 4 SEMESTER 1		<u> </u>	
MA4079 Final Year Project	С	4	Year 4 standing, 2 semesters
MA4011 Engineering Product Design	С	4	Having Read MA3001
MA48XX Major-PE 1	PE	3	
MA48XX Major-PE 2	PE	3	
ET0001 Entrepreneurship and Innovation	GC	1	Online, Sem 1 only
Advanced/General Business Course 1	UE	4	
Total		19	
YEAR 4 SEMESTER 2			
MA4079 Final Year Project	С	4	Year 4 standing, 2 semesters
MA48XX Major-PE 3	PE	3	
MA48XX Major-PE 4	PE	3	
Advanced/General Business Course 2	UE	4	
Advanced/General Business Course 3	UE	4	
Total		18	
GRAND TOTAL (Year 1 to 4)		148/149	

Advanced/General Business Courses: Choose 3
BF2201 Investments
BM2501 Market Behaviour
BM2502 Market Intelligence
BE2601 Management Principles, Skills and Competencies

AU Required for Mechanical Engineering with Second Major in Business (MEBM) Robotics and Mechatronics Stream Students admitted from AY2018/2019

Year	Number of Academic Units (AUs)										
of	Major Dog	General Education Requirement (GER)									
Study	iviajoi Red	Major Requirements GER Prescribed Electives									
	Core	Major PE	GER Core	DIFE BM LA STS Any Category (BM, LA, STS)				UE	Total		
1	22/23*	0	3					14	39/40*		
2	27	0	8					6	41		
3	29	0	2	2				0	31		
4	12	12	1	1				12	37		
Total	90/91*	12	14	14 0					148/149*		

^{*}Poly Direct Entry Students and JC students without A Level Physics ONLY

Course Code and Title	Туре	AU	Pre-requisite/ Remarks
YEAR 1 SEMESTER 1	1 2.		
MH1810 Mathematics I	С	3	
MA1008 Introduction to Computational Thinking	С	3	
PH1011 Physics	С	3	A Level Physics
OR PH1012 Physics A		OR 4	Only for Poly Direct Entry Students and JC students without A Level Physics
FE1073 Introduction to Engineering and Practices	С	1	
HW0188 Engineering Communication I	GC	2	HW0001 (co-requisite)
GC0001 Introduction to Sustainability: Multidisciplinary Approaches	GC	1	Online, Sem 1 only
& Solutions			
AD1101 Financial Management	UE	4	
AB1201 Financial Management	UE	3	
Total		20	
YEAR 1 SEMESTER 2			
MH1811 Mathematics II	С	3	
WHISTI Mathematics II	C	3	
MA1001 Dynamics	С	3	Having read PH1011/PH1012/CY1305 and MH1810/MH2812/ CY1201
MA1002 Fundamental Engineering Materials	С	3	
MA2001 Mechanics of Materials	С	3	
AB1501 Marketing	UE	3	
BE1401 Business Operations and Processes	UE	4	
Total		19	
YEAR 2 SEMESTER 1	1		
MA2002 Theory of Mechanism	С	3	MA1001
MA2003 Introduction to Thermo-fluids	С	3	
MA2004 Manufacturing Process	С	3	
MA2006 Engineering Mathematics	С	3	FE1006/MH1810 and FE1007/MH1811 or CY1201 and CY1203 or MA1003/MH2812
MA2011 Mechatronics Systems Interfacing	С	3	·
MA2071 Laboratory Experiments (ME)	С	1	
HY0001 Ethics and Moral Reasoning	GC	1	Online, Sem 1 only
ML0003 Career Course	GC	1	Online
AB1301 Business Law	UE	3	
Total		21	
YEAR 2 SEMESTER 2			
MA2005 Engineering Graphics MA2009 Introduction to Electrical Circuits and Electronics	C	3	
MA2012 Introduction to Mechatronics System Design	С	3	
MA2079 Engineering Innovation and Design	С	2	Semester 2 with 1 week in Special Term
MA0101 Engineers & Society	GC	3	apecial refini
Data Science and Artificial Intelligence	GC	3	
			
AB1601 Organisation Behaviour & Design	UE	3	

Curriculum for Mechanical Engineering with Second Major in Business (MEBM) Robotics and Mechatronics Stream Students admitted from AY2018/2019

YEAR 3 SEMESTER 1			
MA3001 Machine Element Design	С	3	Having read MA2001 & MA2002
MA3002 Solid Mechanics and Vibration	С	3	MA2001
			MH1810 & MH1811 /
			CY1203 / MH2812 / FE1006
MA3004 Mathematical Methods in Engineering	С	3	& FE1007 / FE1006 &
			MH1811 / CY1602 /
			MH2810
MA3005 Control Theory	С	3	Having Read MA2006
MA3006 Fluid Mechanics	С	3	MA2003
MA3010 Thermodynamics & Heat Transfer	С	3	MA2003
MA3071 Engineering Experiments (ME)	С	1	
HW0288 Engineering Communication II	GC	2	HW0188
Total		21	
YEAR 3 SEMESTER 2			
MA3080 Professional Internship	С	10	ML0003
Total		10	
YEAR 4 SEMESTER 1	1	1	
MA4079 Final Year Project	С	4	Year 4 standing, 2 semesters
MA48XX Major-PE 1	PE	3	
MA48XX Major-PE 2	PE	3	
ET0001 Entrepreneurship and Innovation	GC	1	Online, Sem 1 only
Advanced/General Business Course 1	UE	4	
Advanced/General Business Course 2	UE	4	
Total		19	
YEAR 4 SEMESTER 2			
MA4079 Final Year Project	С	4	Year 4 standing, 2 semesters
MA4012 Mechatronics Engineering Design	С	4	Having read MA3001, Sem 2 only
MA48XX Major-PE 3	PE	3	Join y
MA48XX Major-PE 4	PE	3	
Advanced/General Business Course 3	UE	4	
Total	- J-	18	
GRAND TOTAL (Year 1 to 4)		148/149	

Advanced/General Business Courses: Choose 3

BF2201 Investments

BM2501 Market Behaviour

BM2502 Market Intelligence

BE2601 Management Principles, Skills and Competencies