AU Requirement for Double Degree Programme (DDP)

Bachelor of Engineering (Mechanical Engineering) and Bachelor of Social Science (Economics)

Students admitted from AY2020/2021 Mainstream

		Number of Academic Units (AUs)									
Year of	ME CODE	FOOMS	ME MAJOR	ECONS	Genera	l Educa	tion Re	quirem	ent (GEI	R)	
Study	ME CORE (C)	ECONS CORE (EC)	PE	ELECTIVE	Core (GC)	Pre	escribed	d Electiv	ves	UE	Total
	(0)	OOKE (EO)	(PE)	(EPE)	Core (GC)	LA	STS	BM	BM ANY		
1	25	12	-	-	8	-	-	-	-	-	45
2	27	9	-	-	4	-	-	-	-	-	40
3	26	-	-	3	-	-	-	-	-	-	29
4	4	4	6	18	2	-	-	-	-	-	34
5	8	-	6	18	-	-	-	1	-	-	32
<u>Total</u>	90	25	12	39	14		()		0	180

MH1810 Mathematics I	Students admitted from AY2020/2021 Mainstream			
MH1810 Mathematics I	Course Code and Title	Туре	AU	Pre-requisite/ Remarks
PH1011 Physics C 3	YEAR 1 SEMESTER 1			
A	MH1810 Mathematics I	С	3	
FEIO73 Introduction to Engineering & Practices	PH1011 Physics	С	3	PH1011: 'A' level Physics
MA2003 Introduction to Thermo-fluids C 3 HE1001 Microeconomics Principles EC 3 HE1002 Macroeconomics Principles EC 3 HW0018 Effective Communication GC 2 HW0001 (co-requisite) GC0001 Sustainability: Seeing Through The Haze GC 1 1 F0001 Enterprise & Innovation GC 1 1 HY0001 Ethics and Moral Reasoning GC 1 1 Total 21 21 2 YEAR 1 SEMESTER 2 WH1811 Mathematics II C 3 Having read MA1001 Dynamics C 3 PH1011/PH1012/CY1305 and MH1810/MH2812/ CY1201 MA1008 Introduction to Computational Thinking C 3 Having read MA2001 Mechanics of Materials C 3 C 3 Engineering Fundamentals 2 C 3 C 3 EG0001 Engineers and Society GC 3 HE1005 Introduction to Probability and Statistical Inference EC 3 HE1002/AB9091/HE9091 Total 24 YEAR 2 SEME	OR PH1012 Physics A		4	
HE1001 Microeconomics Principles	FE1073 Introduction to Engineering & Practices	С	1	
HE1002 Macroeconomics Principles	MA2003 Introduction to Thermo-fluids	С	3	
HW0188 Effective Communication GC 2	HE1001 Microeconomics Principles	EC	3	
GC0001 Sustainability: Seeing Through The Haze GC	HE1002 Macroeconomics Principles	EC	3	
TOTAL TOTA	HW0188 Effective Communication	GC	2	HW0001 (co-requisite)
HY0001 Ethics and Moral Reasoning	GC0001 Sustainability: Seeing Through The Haze	GC	1	
YEAR 1 SEMESTER 2	ET0001 Enterprise & Innovation	GC	1	
WH1811 Mathematics	HY0001 Ethics and Moral Reasoning	GC	1	
MH1811 Mathematics II C 3 Having read MA1001 Dynamics C 3 PH1011/PH1012/CY1305 and MH1810/MH2812/ CY1201 MA2001 Mechanics of Materials C 3 Engineering Fundamentals 2 C 3 EG0001 Engineers and Society GC 3 HE1005 Introduction to Probability and Statistical Inference EC 3 HE2002 Intermediate Macroeconomics EC 3 HE1002/AB9091/HE9091 Total 24 PM24 PM24 PM24 YEAR 2 SEMESTER 1 MA2002 Theory of Mechanism C 3 MA1001 MA2004 Manufacturing Processes C 3 MA1001 MA2005 Engineering Mathematics C 3 MA2003 MA2007 Thermodynamics C 3 MA2003 MA2009 Introduction to Electrical Circuits & Electronic Devices C 3 MA20071 Laboratory Experiments (ME) C 1 HE2005 Principles of Econometrics EC 3 HE1005 MA2003 Kickstart Your Career Success GC 1 Semester 2	Total		21	
MH1811 Mathematics II C 3 Having read MA1001 Dynamics C 3 PH1011/PH1012/CY1305 and MH1810/MH2812/ CY1201 MA2001 Mechanics of Materials C 3 Engineering Fundamentals 2 C 3 EG0001 Engineers and Society GC 3 HE1005 Introduction to Probability and Statistical Inference EC 3 HE2002 Intermediate Macroeconomics EC 3 HE1002/AB9091/HE9091 Total 24 PM24 PM24 PM24 YEAR 2 SEMESTER 1 MA2002 Theory of Mechanism C 3 MA1001 MA2004 Manufacturing Processes C 3 MA1001 MA2005 Engineering Mathematics C 3 MA2003 MA2007 Thermodynamics C 3 MA2003 MA2009 Introduction to Electrical Circuits & Electronic Devices C 3 MA20071 Laboratory Experiments (ME) C 1 HE2005 Principles of Econometrics EC 3 HE1005 MA2003 Kickstart Your Career Success GC 1 Semester 2				
MA1001 Dynamics C All alving read PH1011/PH1012/CY1305 and MH1810/MH2812/ CY1201 MA1008 Introduction to Computational Thinking C All MA2001 Mechanics of Materials C Begineering Fundamentals 2 Begineering Fundamentals 2 Begineering Fundamentals 2 C Begineering Fundamentals 2 Begineering Fundamentals 3 Begineering Fundamentals 3 Begineering Fundamentals 4 Begineering Fundamentals 4 Begineering Mathematics C Begineering Begineering Success C Begineering Graphics Begineering Grap	YEAR 1 SEMESTER 2			
MA1001 Dynamics C 3 PH1011/PH1012/CY1305 and MH1810/MH2812/ CY1201 MA1008 Introduction to Computational Thinking C 3 MA2001 Mechanics of Materials C Engineering Fundamentals 2 E00001 Engineers and Society GC 3 HE1005 Introduction to Probability and Statistical Inference EC 3 HE2002 Intermediate Macroeconomics EC 3 HE1002/AB9091/HE9091 Total YEAR 2 SEMESTER 1 MA2002 Theory of Mechanism C MA2004 Manufacturing Processes C 3 MA2005 Engineering Mathematics C 3 MA2003 MA2009 Introduction to Electrical Circuits & Electronic Devices C 3 MA2003 MA2009 Introduction to Electrical Circuits & Electronic Devices C 3 MA2003 Kickstart Your Career Success GC Total YEAR 2 SEMESTER 2 MA2005 Engineering Graphics C 3 MA2006 Engineering Mathematics C 3 MA2007 Intermediate Microeconomics C 3 MA2008 Finciples of Econometrics C 3 MA2009 Finciples of Econometrics C 3 MA2009 Finciples of Econometrics C 3 MA2009 Engineering Innovation and Design C 3 MA2009 Engineering Innovation and Design C 3 MA2009 Engineering Innovation and MA2009 Engineering MA2009 Engineering Innovation and MA2009 Engineering Innovation Element Design C 3 MA2009 Engineering Innovation Element Design C 3 MA2009 Engineering Innovation Element Design C 3 HE2001 Intermediate Microeconomics EC 3 HE2005 HE2005	MH1811 Mathematics II	С	3	
MA2001 Mechanics of Materials C 3 Engineering Fundamentals 2 C 3 E60001 Engineers and Society GC 3 HE1005 Introduction to Probability and Statistical Inference EC 3 HE2002 Intermediate Macroeconomics EC 3 HE1002/AB9091/HE9091 Total 24 Probability and Statistical Inference EC 3 HE1002/AB9091/HE9091 Total 24 Probability and Statistical Inference EC 3 HE1002/AB9091/HE9091 Total 24 Probability and Statistical Inference EC 3 HE1002/AB9091/HE9091 YEAR 2 SEMESTER 1 Probability and Statistical Inference EC 3 MA1001 MA2004 Manufacturing Processes C 3 MA1001 MA1001 MA2005 Engineering Mathematics C 3 MA2003 ME1001 ME1005 ME1005 ME1005 ME1005 ME1005 ME1005 ME1005 ME100	MA1001 Dynamics	С	3	PH1011/PH1012/CY1305 and
Engineering Fundamentals 2 C 3 EG0001 Engineers and Society GC 3 HE1005 Introduction to Probability and Statistical Inference EC 3 HE2002 Intermediate Macroeconomics EC 3 HE1002/AB9091/HE9091 Total 24 24 YEAR 2 SEMESTER 1 WA2002 Theory of Mechanism C 3 MA1001 MA2004 Manufacturing Processes C 3 (MH1810 & MH1811)/MH2812/CY1203 MA2006 Engineering Mathematics C 3 MA2003 MA2007 Thermodynamics C 3 MA2003 MA2009 Introduction to Electrical Circuits & Electronic Devices C 3 HE1005 MA2001 Laboratory Experiments (ME) C 1 HE1005 ML0003 Kickstart Your Career Success GC 1 FIGURE AND	MA1008 Introduction to Computational Thinking	С	3	
HE1005 Introduction to Probability and Statistical Inference	MA2001 Mechanics of Materials	С	3	
HE1005 Introduction to Probability and Statistical Inference HE2002 Intermediate Macroeconomics EC 3 HE1002/AB9091/HE9091 Total 24 YEAR 2 SEMESTER 1 MA2002 Theory of Mechanism C 3 MA1001 MA2004 Manufacturing Processes C 3 (MH1810 & MH1811)/ MH2812/CY1203 MA2006 Engineering Mathematics C 3 (MH2812/CY1203 MA2007 Thermodynamics C 3 MA2003 MA2009 Introduction to Electrical Circuits & Electronic Devices C 3 HE1005 MA2071 Laboratory Experiments (ME) C 1 HE2005 Principles of Econometrics MC003 Kickstart Your Career Success GC 1 Total 20 YEAR 2 SEMESTER 2 MA2079 Engineering Graphics C 3 Semester 2 with 1 week in Special Term MA3001 Machine Element Design C 3 MA2003 HE3005 Fluid Mechanics C 3 MA2003 HE2001 Intermediate Microeconomics HE3021 Intermediate Econometrics EC 3 HE2005 MA2018 Introduction to Data Science and Artificial Intelligence EC 3 HE2005	Engineering Fundamentals 2	С	3	
HE2002 Intermediate Macroeconomics EC 3 HE1002/AB9091/HE9091 Total 24 YEAR 2 SEMESTER 1 MA2002 Theory of Mechanism	EG0001 Engineers and Society	GC	3	
YEAR 2 SEMESTER 1 MA2002 Theory of Mechanism MA2004 Manufacturing Processes C MA2006 Engineering Mathematics MA2007 Thermodynamics MA2009 Introduction to Electrical Circuits & Electronic Devices C MA2009 Introduction to Electrical Circuits & Electronic Devices C MA2003 MA2003 MA2003 MA2003 MA2003 MA2003 MA2003 MA2009 Introduction to Electrical Circuits & Electronic Devices C MA2001 Laboratory Experiments (ME) HE2005 Principles of Econometrics MI0003 Kickstart Your Career Success GC Total YEAR 2 SEMESTER 2 MA2005 Engineering Graphics MA2007 Engineering Innovation and Design MA2007 Engineering Innovation and Design C MA3001 Machine Element Design C MA3006 Fluid Mechanics MA2003 HE2001 Intermediate Microeconomics HE3021 Intermediate Econometrics EC MA2005 MA2005 Intermediate Econometrics EC MA2005 HE2005 MA2018 Introduction to Data Science and Artificial Intelligence GC MA2007	HE1005 Introduction to Probability and Statistical Inference	EC	3	
YEAR 2 SEMESTER 1 MA2002 Theory of Mechanism MA2004 Manufacturing Processes C MA2006 Engineering Mathematics C MA2007 Thermodynamics C MA2009 Introduction to Electrical Circuits & Electronic Devices C MA2009 Introduction to Electrical Circuits & Electronic Devices C MA2007 Laboratory Experiments (ME) C ME2005 Principles of Econometrics ME003 Kickstart Your Career Success MA2003 Engineering Graphics C MA2005 Engineering Graphics C MA2007 Engineering Innovation and Design C MA3001 Machine Element Design C MA3006 Fluid Mechanics C MA2003 MA2005 MA2006 Intermediate Microeconomics EC MA2006 Intermediate Econometrics MA2007 Intermediate Econometrics MA2008 Introduction to Data Science and Artificial Intelligence MA2018 Introduction to Data Science and Artificial Intelligence C MA2008 MA2008 MA2008 MA2008 MA2008	HE2002 Intermediate Macroeconomics	EC	3	HE1002/AB9091/HE9091
MA2002 Theory of Mechanism MA2004 Manufacturing Processes C MA2006 Engineering Mathematics C MA2006 Engineering Mathematics C MA2007 Thermodynamics C MA2009 Introduction to Electrical Circuits & Electronic Devices MA2071 Laboratory Experiments (ME) HE2005 Principles of Econometrics ML0003 Kickstart Your Career Success GC MA2005 Engineering Graphics MA2005 Engineering Innovation and Design MA3001 Machine Element Design C MA3006 Fluid Mechanics MA2003 MA2005 MA2001 Intermediate Microeconomics MA2018 Introduction to Data Science and Artificial Intelligence MA2018 Introduction to Data Science and Artificial Intelligence C MA2004 MA2005 MA2006 Fluid Mechanics And Actificial Intelligence MA2018 Introduction to Data Science and Artificial Intelligence	Total		24	
MA2002 Theory of Mechanism MA2004 Manufacturing Processes C MA2006 Engineering Mathematics C MA2006 Engineering Mathematics C MA2007 Thermodynamics C MA2009 Introduction to Electrical Circuits & Electronic Devices MA2071 Laboratory Experiments (ME) HE2005 Principles of Econometrics ML0003 Kickstart Your Career Success GC MA2005 Engineering Graphics MA2005 Engineering Innovation and Design MA3001 Machine Element Design C MA3006 Fluid Mechanics MA2003 MA2005 MA2001 Intermediate Microeconomics MA2018 Introduction to Data Science and Artificial Intelligence MA2018 Introduction to Data Science and Artificial Intelligence C MA2004 MA2005 MA2006 Fluid Mechanics And Actificial Intelligence MA2018 Introduction to Data Science and Artificial Intelligence				
MA2004 Manufacturing Processes C 3 (MH1810 & MH1811)/ MH2812/CY1203 MA2007 Thermodynamics C 3 MA2003 MA2009 Introduction to Electrical Circuits & Electronic Devices C 3 MA2003 MA2009 Introduction to Electrical Circuits & Electronic Devices C 1 HE2005 Principles of Econometrics ML0003 Kickstart Your Career Success GC 1 Total YEAR 2 SEMESTER 2 MA2005 Engineering Graphics MA2079 Engineering Innovation and Design C 3 Semester 2 with 1 week in Special Term MA3001 Machine Element Design C 3 MA2003 MA2003 HE2001 Intermediate Microeconomics EC 3 HE2005 MA2018 Introduction to Data Science and Artificial Intelligence C 3 MA2005 MA2018 Introduction to Data Science and Artificial Intelligence C 3 MA2005 MA2018 Introduction to Data Science and Artificial Intelligence C 3 MA2005 MA2018 Introduction to Data Science and Artificial Intelligence C 3 MA2005 MA2018 Introduction to Data Science and Artificial Intelligence C 3 MA2005 MA2018 Introduction to Data Science and Artificial Intelligence C 3 MA2018 MA2018 Introduction to Data Science and Artificial Intelligence	YEAR 2 SEMESTER 1			
MA2006 Engineering Mathematics C 3 (MH1810 & MH1811)/ MH2812/CY1203 MA2007 Thermodynamics C 3 MA2003 MA2009 Introduction to Electrical Circuits & Electronic Devices C 3 MA2003 MA2009 Introduction to Electrical Circuits & Electronic Devices C 3 HE1005 MA2071 Laboratory Experiments (ME) C 1 HE2005 Principles of Econometrics EC 3 HE1005 ML0003 Kickstart Your Career Success GC 1 Total 20 YEAR 2 SEMESTER 2 MA2005 Engineering Graphics C 3 Semester 2 with 1 week in Special Term MA3001 Machine Element Design C 3 Semester 2 with 1 week in Special Term Having read MA2001 and MA2002 and MA2005 MA3006 Fluid Mechanics C 3 MA2003 HE2001 Intermediate Microeconomics EC 3 HE2005 MA0218 Introduction to Data Science and Artificial Intelligence GC 3 HE2005	MA2002 Theory of Mechanism	С	3	MA1001
MA2006 Engineering Mathematics C 3 MH2812/CY1203 MA2007 Thermodynamics C 3 MA2003 MA2009 Introduction to Electrical Circuits & Electronic Devices C 3 MA2003 MA2009 Introduction to Electrical Circuits & Electronic Devices C 1 ME2005 Principles of Econometrics EC 3 HE1005 ML0003 Kickstart Your Career Success GC 1 Total YEAR 2 SEMESTER 2 MA2005 Engineering Graphics C 3 MA20079 Engineering Innovation and Design C 2 Semester 2 with 1 week in Special Term MA3001 Machine Element Design C 3 Having read MA2001 and MA2002 and MA2005 MA3006 Fluid Mechanics C 3 MA2003 ME2001 Intermediate Microeconomics EC 3 HE2005 MA2018 Introduction to Data Science and Artificial Intelligence GC 3	MA2004 Manufacturing Processes	С	3	
MA2007 Thermodynamics C 3 MA2003 MA2009 Introduction to Electrical Circuits & Electronic Devices C 3 MA2071 Laboratory Experiments (ME) C 1 HE2005 Principles of Econometrics EC 3 HE1005 ML0003 Kickstart Your Career Success GC 1 Total 20 YEAR 2 SEMESTER 2 MA2005 Engineering Graphics C 3 MA2079 Engineering Innovation and Design C 2 MA3001 Machine Element Design C 3 MA3006 Fluid Mechanics C 3 MA2003 HE2001 Intermediate Microeconomics EC 3 HE2001 Intermediate Econometrics EC 3 MA2018 Introduction to Data Science and Artificial Intelligence GC 3 MA2018 Introduction to Data Science and Artificial Intelligence GC GC 3	MA2006 Engineering Mathematics	С	3	1'
MA2071 Laboratory Experiments (ME) HE2005 Principles of Econometrics ML0003 Kickstart Your Career Success GC 1 Total YEAR 2 SEMESTER 2 MA2005 Engineering Graphics MA2079 Engineering Innovation and Design MA3001 Machine Element Design C 3 MA3005 Fluid Mechanics MA3006 Fluid Mechanics C 3 HE2001 Intermediate Microeconomics HE3021 Intermediate Econometrics MA0218 Introduction to Data Science and Artificial Intelligence EC 3 HE1005 HE10	MA2007 Thermodynamics	С	3	MA2003
HE2005 Principles of Econometrics ML0003 Kickstart Your Career Success GC 1 Total YEAR 2 SEMESTER 2 MA2005 Engineering Graphics MA2079 Engineering Innovation and Design MA3001 Machine Element Design MA3001 Machine Element Design C 3 MA2003 HE2001 Intermediate Microeconomics HE3021 Intermediate Econometrics MA0218 Introduction to Data Science and Artificial Intelligence GC 1 HE1005 HE1005 Semester 2 with 1 week in Special Term Having read MA2001 and MA2002 and MA2005 MA2003 HE2001 Intermediate Microeconomics HE3021 Intermediate Econometrics MA0218 Introduction to Data Science and Artificial Intelligence GC 3 HE2005	MA2009 Introduction to Electrical Circuits & Electronic Devices	С	3	
ML0003 Kickstart Your Career Success Total YEAR 2 SEMESTER 2 MA2005 Engineering Graphics MA2079 Engineering Innovation and Design MA3001 Machine Element Design MA3001 Machine Element Design C BMA3006 Fluid Mechanics MA3006 Fluid Mechanics MA3001 Intermediate Microeconomics HE3021 Intermediate Econometrics MA30218 Introduction to Data Science and Artificial Intelligence GC A GC 1 Z Semester 2 with 1 week in Special Term Having read MA2001 and MA2002 and MA2005 MA2003 HE2001 Intermediate Microeconomics EC BC HE3021 Intermediate Econometrics MA0218 Introduction to Data Science and Artificial Intelligence GC 3	MA2071 Laboratory Experiments (ME)	С	1	
Total YEAR 2 SEMESTER 2 MA2005 Engineering Graphics MA2079 Engineering Innovation and Design MA3001 Machine Element Design MA3006 Fluid Mechanics C MA2005 C MA2005 C MA2005 C MA2006 C MA2006 MA2006 MA2007 MA2007 MA2007 MA2008 HE2001 Intermediate Microeconomics HE3021 Intermediate Econometrics MA2005 MA2005 MA2005 MA2005 MA2006 MA2006 MA2007 MA2008 M	HE2005 Principles of Econometrics	EC	3	HE1005
YEAR 2 SEMESTER 2 MA2005 Engineering Graphics C Semester 2 with 1 week in Special Term MA3001 Machine Element Design C MA3006 Fluid Mechanics C MA2003 HE2001 Intermediate Microeconomics HE3021 Intermediate Econometrics MA0218 Introduction to Data Science and Artificial Intelligence C MA2005 MA2005 MA2005 MA2005 MA2005 ME2005 ME2005	ML0003 Kickstart Your Career Success	GC	1	
MA2005 Engineering Graphics C MA2079 Engineering Innovation and Design C Semester 2 with 1 week in Special Term Having read MA2001 and MA2002 and MA2005 MA3006 Fluid Mechanics C MA2001 Intermediate Microeconomics HE3021 Intermediate Econometrics MA0218 Introduction to Data Science and Artificial Intelligence C Semester 2 with 1 week in Special Term Having read MA2001 and MA2002 and MA2005 EC MA2003 HE2005 HE2005	Total		20	
MA2005 Engineering Graphics C MA2079 Engineering Innovation and Design C Semester 2 with 1 week in Special Term Having read MA2001 and MA2002 and MA2005 MA3006 Fluid Mechanics C MA2001 Intermediate Microeconomics HE3021 Intermediate Econometrics MA0218 Introduction to Data Science and Artificial Intelligence C Semester 2 with 1 week in Special Term Having read MA2001 and MA2002 and MA2005 EC MA2003 HE2005 HE2005				
MA2079 Engineering Innovation and Design C 2 Semester 2 with 1 week in Special Term MA3001 Machine Element Design C 3 MA2002 and MA2001 and MA2002 and MA2005 MA3006 Fluid Mechanics C 3 MA2003 HE2001 Intermediate Microeconomics EC 3 HE3021 Intermediate Econometrics EC 3 HE2005 MA0218 Introduction to Data Science and Artificial Intelligence GC 3	YEAR 2 SEMESTER 2			
MA2079 Engineering Innovation and Design C 2 Semester 2 with 1 week in Special Term MA3001 Machine Element Design C 3 MA2002 and MA2001 and MA2002 and MA2005 MA3006 Fluid Mechanics C 3 MA2003 HE2001 Intermediate Microeconomics EC 3 HE3021 Intermediate Econometrics EC 3 HE2005 MA0218 Introduction to Data Science and Artificial Intelligence GC 3	MA2005 Engineering Graphics	С	3	
MA3001 Machine Element Design C 3 Having read MA2001 and MA2002 and MA2005 MA3006 Fluid Mechanics C 3 MA2003 HE2001 Intermediate Microeconomics EC 3 HE3021 Intermediate Econometrics EC 3 HE2005 MA0218 Introduction to Data Science and Artificial Intelligence GC 3	MA2079 Engineering Innovation and Design	С	2	
MA3006 Fluid Mechanics C 3 MA2003 HE2001 Intermediate Microeconomics EC 3 HE3021 Intermediate Econometrics EC 3 HE2005 MA0218 Introduction to Data Science and Artificial Intelligence GC 3	MA3001 Machine Element Design	С	3	Having read MA2001 and
HE3021 Intermediate Econometrics EC 3 HE2005 MA0218 Introduction to Data Science and Artificial Intelligence GC 3	MA3006 Fluid Mechanics	С	3	
MA0218 Introduction to Data Science and Artificial Intelligence GC 3	HE2001 Intermediate Microeconomics	EC	3	
MA0218 Introduction to Data Science and Artificial Intelligence GC 3	HE3021 Intermediate Econometrics			HE2005
	MA0218 Introduction to Data Science and Artificial Intelligence			
I VIVI	Total		20	

Curriculum for DDP Bachelor of Engineering (Mechanical Engineering) and Bachelor of Social Science (Economics) Students admitted from AY2020/2021 Mainstream

Students admitted from AY2020/2021 Mainstream			
YEAR 3 SEMESTER 1			
MA3002 Solid Mechanics and Vibration	С	3	MA2001
MA3003 Heat Transfer	С	3	MA2007
MA3004 Mathematical Methods in Engineering	С	3	(MH1810 & MH1811)/ MH2812/CY1203
MA3005 Control Theory	С	3	Having read MA2006
MA3071 Engineering Experiments (ME)	С	1	_
MA4002 Fluid Dynamics	С	3	MA3006
Economics Elective 1	EPE	3	
Total		19	
YEAR 3 SEMESTER 2			
MA3080 Professional Internship	C	10	Students may do MA3075 Professional Attachment in Year 2 Special Semester (5 AL and UE courses in any semester (5 AU) instead of MA3080.
Total		10	
YEAR 4 SEMESTER 1			
MA4001 Engineering Design	С	4	Having read MA3001
MA48XX Major-PE 1	PE	3	
HE4010 Singapore Economy in a Globalized World	EC	4	HE2001 & HE2002
Economics Elective 2	EPE	3	
Economics Elective 3	EPE	3	
Total		17	
YEAR 4 SEMESTER 2			
MA48XX Major-PE 2	PE	3	
Economics Elective 4	EPE	3	
Economics Elective 5	EPE	3	
Economics Elective 6	EPE	3	
Economics Elective 7	EPE	3	
HW0288 Engineering Communication	GC	2	HW0188
Total		17	
YEAR 5 SEMESTER 1			
MA4079 Final Year Project	С	4	Year 4 standing, 2 semesters
MA48XX Major-PE 3	PE	3	<u> </u>
Economics Elective 8	EPE	3	
Economics Elective 9	EPE	4	
Economics Elective 10	EPE	4	
Total		18	
YEAR 5 SEMESTER 2			
MA4079 Final Year Project	С	4	Year 4 standing, 2 semesters
MA48XX Major-PE 4	PE	3	<u> </u>
Economics Elective 11	EPE	4	
Economics Elective 12	EPE	3	
Total		14	
GRAND TOTAL (Year 1 to 5)		180	

AU Requirement for Double Degree Programme (DDP)
Bachelor of Engineering (Mechanical Engineering) and Bachelor of Social Science (Economics)
Students admitted from AY2020/2021 Design Stream

				Number o	f Academic L	Jnits (Al	Js)				
Year of	ME CODE	FOOMS	ME MAJOR	ECONS	Genera	al Educa	ation Re	quirem	ent (GEF	₹)	
Study	ME CORE (C)	ECONS CORE (EC)	PE	ELECTIVE	Core (GC)	Pro	escribed	d Electiv	ves	UE	Total
	(0)	OOKE (EO)	(PE)	(EPE)	Cole (GC)	LA	STS	BM ANY		UL	Total 45 40 29 34
1	25	12	-	-	8	-	-	-	-	-	45
2	27	9	-	-	4	-	-	-	-	-	40
3	26	-	-	3	-	-	-	-	-	-	29
4	4	4	6	18	2	-	-	-	-	-	34
5	8	-	6	18	-	-	-	-	-	-	32
<u>Total</u>	90	25	12	39	14	0				0	180

Curriculum for DDP Bachelor of Engineering (Mechanical Engineering) and Bachelor of Social Science (Economics) Students admitted from AY2020/2021 Design Stream

Students admitted from A12020/2021 Design Stream	1_ 1		la ::: /a !
Course Code and Title	Type	AU	Pre-requisite/ Remarks
YEAR 1 SEMESTER 1		2	
MH1810 Mathematics I	С	3	DUI 044 (ALL I DI :
PH1011 Physics	С	3	PH1011: 'A' level Physics
OR PH1012 Physics A		4	
FE1073 Introduction to Engineering & Practices	С	1	
MA2003 Introduction to Thermo-fluids	C	3	
HE1001 Microeconomics Principles	EC	3	
HE1002 Macroeconomics Principles	EC	3	LULY 2004 /
HW0188 Effective Communication	GC	2	HW0001 (co-requisite)
GC0001 Sustainability: Seeing Through The Haze	GC	1	
ET0001 Enterprise & Innovation	GC	1	
HY0001 Ethics and Moral Reasoning	GC	1	
Total		21	
VEAD 4 CENTETED 2			
YEAR 1 SEMESTER 2	С	2	
MH1811 Mathematics II	C	3	
MA1001 Dynamics	С	3	Having read PH1011/PH1012/CY1305 and MH1810/MH2812/ CY1201
MA1008 Introduction to Computational Thinking	С	3	
MA2001 Mechanics of Materials	С	3	
Engineering Fundamentals 2	С	3	
EG0001 Engineers and Society	GC	3	
HE1005 Introduction to Probability and Statistical Inference	EC	3	
HE2002 Intermediate Macroeconomics	EC	3	HE1002/AB9091/HE9091
Total		24	
YEAR 2 SEMESTER 1			
MA2002 Theory of Mechanism	С	3	MA1001
MA2004 Manufacturing Processes	С	3	
MA2006 Engineering Mathematics	С	3	(MH1810 & MH1811)/ MH2812/CY1203
MA2009 Introduction to Electrical Circuits & Electronic Devices	С	3	
MA2014 Product Presentation	С	3	
HE2005 Principles of Econometrics	EC	3	HE1005
ML0003 Kickstart Your Career Success	GC	1	
Total		19	
YEAR 2 SEMESTER 2			
MA2005 Engineering Graphics	С	3	
MA2013 Creative Thinking and Design	С	3	
MA2071 Laboratory Experiments (ME)	С	1	
MA2079 Engineering Innovation and Design	С	2	Semester 2 with 1 week in Special Term
MA3002 Solid Mechanics and Vibration	С	3	MA2001
HE2001 Intermediate Microeconomics	EC	3	
HE3021 Intermediate Econometrics	EC	3	HE2005
MA0218 Introduction to Data Science and Artificial Intelligence	GC	3	
Total		21	

Curriculum for DDP Bachelor of Engineering (Mechanical Engineering) and Bachelor of Social Science (Economics) Students admitted from AY2020/2021 Design Stream

YEAR 3 SEMESTER 1			
MA3001 Machine Element Design	С	3	Having read MA2001 and MA2002 and MA2005
MA3004 Mathematical Methods in Engineering	С	3	(MH1810 & MH1811)/ MH2812/CY1203
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	
Economics Elective 1	EPE	3	
Total		19	
YEAR 3 SEMESTER 2			
MA3080 Professional Internship	С	10	Students may do MA3075 Professional Attachment in Year 2 Special Semester (5 AU) and UE courses in any semester (5 AU) instead of MA3080.
Total		10	
YEAR 4 SEMESTER 1		_	
MA4011 Engineering Product Design	C	4	Having read MA3001
MA48XX Major-PE 1	PE	3	
HE4010 Singapore Economy in a Globalized World	EC	4	HE2001 & HE2002
Economics Elective 2	EPE	3	-
Economics Elective 3	EPE	3	
Total		17	
YEAR 4 SEMESTER 2			
	חר	2	
MA48XX Major-PE 2 Economics Elective 4	PE EPE	3	
Economics Elective 4 Economics Elective 5	EPE		
Economics Elective 5 Economics Elective 6	EPE	3	
Economics Elective 7	EPE	3	
HW0288 Engineering Communication	GC	2	HW0188
Total	- UC	17	11440199
Total		1/	
YEAR 5 SEMESTER 1			
MA4079 Final Year Project	С	4	Year 4 standing, 2 semesters
MA48XX Major-PE 3	PE	3	
Economics Elective 8	EPE	3	
Economics Elective 9	EPE	4	
Economics Elective 10	EPE	4	
Total		18	
YEAR 5 SEMESTER 2			
MA4079 Final Year Project	С	4	Year 4 standing, 2 semesters
MA48XX Major-PE 4	PE	3	
Economics Elective 11	EPE	4	
Economics Elective 12	EPE	3	
Total		14	
QRANDO:TD4/Q6/(19821 to 5)		180	

AU Requirement for Double Degree Programme (DDP)

Bachelor of Engineering (Mechanical Engineering) and Bachelor of Social Science (Economics)

Students admitted from AY2020/2021 Robotics and Mechatronics Stream

		Number of Academic Units (AUs)									
Year of	ME CODE	FOOMS	ME MAJOR	ECONS	Genera	al Educ	ation Re	quirem	ent (GEI	₹)	
Study	ME CORE (C)	ECONS CORE (EC)	PE	ELECTIVE	Core (GC)	Pr	escribed	l Electiv	ves	UE	Total
	(0)	CORE (EO)	(PE)	(EPE)	Core (GC)	LA	STS	BM	ANY	UE	
1	25	12	-	-	8	-	-	-	-	-	45
2	27	9	-	-	4	-	-	-	-	-	40
3	26	-	-	3	-	-	-	-	-	-	29
4	4	4	6	18	2	-	-	-	-	-	34
5	8	-	6	18	-	-	-	-	-	-	32
<u>Total</u>	90	25	12	39	14	0			0	180	

Curriculum for DDP Bachelor of Engineering (Mechanical Engineering) and Bachelor of Social Science (Economics) Students admitted from AY2020/2021 Robotics and Mechatronics Stream

Course Code and Title	-		Due no milita / Demonto
Course Code and Title	Туре	AU	Pre-requisite/ Remarks
YEAR 1 SEMESTER 1			
MH1810 Mathematics I	С	3	D14044 (A) D1 :
PH1011 Physics	С	3	PH1011: 'A' level Physics
OR PH1012 Physics A		4	
FE1073 Introduction to Engineering & Practices	С	1	
MA2003 Introduction to Thermo-fluids	С	3	
HE1001 Microeconomics Principles	EC	3	
HE1002 Macroeconomics Principles	EC	3	
HW0188 Effective Communication	GC	2	HW0001 (co-requisite)
GC0001 Sustainability: Seeing Through The Haze	GC	1	
ET0001 Enterprise & Innovation	GC	1	
HY0001 Ethics and Moral Reasoning	GC	1	
Total		21	
YEAR 1 SEMESTER 2			
MH1811 Mathematics II	С	3	
MA1001 Dynamics	С	3	Having read PH1011/PH1012/CY1305 and MH1810/MH2812/ CY1201
MA1008 Introduction to Computational Thinking	С	3	
MA2001 Mechanics of Materials	С	3	
Engineering Fundamentals 2	С	3	
EG0001 Engineers and Society	GC	3	
HE1005 Introduction to Probability and Statistical Inference	EC	3	
HE2002 Intermediate Macroeconomics	EC	3	HE1002/AB9091/HE9091
Total		24	
YEAR 2 SEMESTER 1			
MA2002 Theory of Mechanism	С	3	MA1001
MA2004 Manufacturing Processes	С	3	
MA2006 Engineering Mathematics	С	3	(MH1810 & MH1811)/ MH2812/CY1203
MA2009 Introduction to Electrical Circuits & Electronic Devices	С	3	
MA2012 Introduction to Mechatronics System Design	С	3	
HE2005 Principles of Econometrics	EC	3	HE1005
ML0003 Kickstart Your Career Success	GC	1	
Total		19	
YEAR 2 SEMESTER 2			
MA2005 Engineering Graphics	С	3	
MA2011 Mechatronics Systems Interfacing	С	3	
MA2071 Laboratory Experiments (ME)	С	1	
MA2079 Engineering Innovation and Design	С	2	Semester 2 with 1 week in Special Term
MA3002 Solid Mechanics and Vibration	С	3	MA2001
HE2001 Intermediate Microeconomics	EC	3	
HE3021 Intermediate Econometrics	EC	3	HE2005
MA0218 Introduction to Data Science and Artificial Intelligence	GC	3	
Total		21	
1000			
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Students admitted from A 1 2020/2021 Robotics and Mechatronic			
YEAR 3 SEMESTER 1			
MA3001 Machine Element Design	С	3	Having read MA2001 and MA2002 and MA2005
MA3004 Mathematical Methods in Engineering	С	3	(MH1810 & MH1811)/ MH2812/CY1203
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	
Economics Elective 1	EPE	3	
Total		19	
YEAR 3 SEMESTER 2			
MA3080 Professional Internship	С		Students may do MA3075 Professional Attachment in Year 2 Special Semester (5 AU) and UE courses in any semester (5 AU) instead of MA3080.
Total		10	
YEAR 4 SEMESTER 1			
MA48XX Major-PE 1	PE	3	
MA48XX Major-PE 2	PE	3	
HE4010 Singapore Economy in a Globalized World	EC	4	HE2001 & HE2002
Economics Elective 2	EPE	3	
Economics Elective 3	EPE	3	
Total		16	
YEAR 4 SEMESTER 2			
MA4012 Mechatronics Engineering Design	С	4	Having read MA3001
Economics Elective 4	EPE	3	
Economics Elective 5	EPE	3	
Economics Elective 6	EPE	3	
Economics Elective 7	EPE	3	
HW0288 Engineering Communication	GC	2	HW0188
Total		18	
YEAR 5 SEMESTER 1			
MA4079 Final Year Project	С	4	Year 4 standing, 2 semesters
MA48XX Major-PE 3	PE	3	
Economics Elective 8	EPE	3	
Economics Elective 9	EPE	4	
Economics Elective 10	EPE	4	
Total		18	
YEAR 5 SEMESTER 2			
MA4079 Final Year Project	С	4	Year 4 standing, 2 semesters
MA48XX Major-PE 4	PE	3	
Economics Elective 11	EPE	4	
Economics Elective 12	EPE	3	
Total		14	
GRAND TOTAL (Year 1 to 5)		180	