MATERIALS SCIENCE & ENGINEERING - Double Honours

	N4C-	Demonstra	Classification
Double Honours Degree Requirements (A) University Level Requirements	MCs	Remarks	Classification
General education modules:			
GER1000 Quantitative Reasoning	4		CA
GEQ1000 Asking Questions	4	Only 1 set needs to be completed for both BEng and BBA	CA
GET	4	degrees. May be replaced by selected USP, RVRC or UTCP	CA
GEH	4	modules.	CA
GES	4		CA
Sub-total for University Level Requirements	20		
(B) Engineering Programme Requirements			
Faculty requirements:			
EG2401A Engineering Professionalism	2		C1
Foundation requirements:			
MLE1001A Materials Science & Engineering Principles & Practice I	4		C1
MLE2001 Materials Science & Engineering Principles & Practice II	4		C1
MA1512 Differential Equations for Engineering	2		C1
MA1513 Linear Algebra with Differential Equations	2		C1
CS1010E Programming Methodology	4		C1
EE2211 Introduction to Machine Learning	4		C1
EG1311 Design and Make	4		C1
E2141 Systems Thinking and Dynamics	4		C1
MLE1010 Materials Engineering Principles & Practices	4		C1
MSE core modules:			C4
CM1501 Organic Chemistry for Engineers	4		C1
PC1432 Physics IIE	4		C1
MLE2101 Introduction to Structure of Materials MLE2102 Thermodynamics and Phase Diagrams	4		C1
MLE2102 Thermodynamics and Phase Diagrams MLE2103 Phase Transformation and Kinetics	4		C1 C1
MLE2103 Phase Transformation and Kinetics MLE2104 Mechanical Properties of Materials	4		C1
MLE2104 Mechanical Properties of Materials MLE2105 Electronic Properties of Materials	4		C1
MLE3101 Materials Characterization Laboratory	4		C1
MLE3111 Materials Characterization Laboratory MLE3111 Materials Properties & Processing Laboratory	4		C1
MSE project and internship modules:	-		CI
MLE4101 B.Eng. Dissertation (12 MCs)			
or MLE4101A B.Eng. Dissertation (6 MCs)		Students should take one of the following combinations:	C1
MLE4102 Design Project (4 MCs)	14 or 16	MLE4101 (12 MCs) + MLE4102 (4 MCs)	
or MLE4102A Design Project (8 MCs)		 MLE4101A (6 MCs) + MLE4102A (8 MCs) 	C1
G3611A Industrial Attachment	-	Exempted for DDP students	-
MSE pathway requirements and electives:			
MSE pathway requirement 1	4	Pathway requirement 2 is counted as Common Module.	C1
Sub-total for Engineering Programme Requirements	88 or 90		
(C) Business Programme Requirements			
Business preparatory modules:			
BPM1701 Calculus and Statistics	0	These modules must be completed within the first semester	
or with of Calculus and Statistics	0	mese modules must be completed within the mst semester	-
	0	after matriculation or first semester of commencing the DDP	
BPM1702 Microsoft Excel Skills for Business		· ·	
BPM1702 Microsoft Excel Skills for Business BPM1705 Understanding How Business Works STR1000 Career Creation Starter Workshops	0 0	after matriculation or first semester of commencing the DDP	
BPM1702 Microsoft Excel Skills for Business BPM1705 Understanding How Business Works STR1000 Career Creation Starter Workshops	0	after matriculation or first semester of commencing the DDP	-
BPM1702 Microsoft Excel Skills for Business BPM1705 Understanding How Business Works STR1000 Career Creation Starter Workshops STR2000 Career Creation Starter Clinics	0 0	after matriculation or first semester of commencing the DDP for mid-stream DDP students. May be fulfilled through student exchange, overseas	-
BPM1702 Microsoft Excel Skills for Business BPM1705 Understanding How Business Works STR1000 Career Creation Starter Workshops STR2000 Career Creation Starter Clinics Global Immersion and Study	0 0	after matriculation or first semester of commencing the DDP for mid-stream DDP students.	-
BPM1702 Microsoft Excel Skills for Business BPM1705 Understanding How Business Works STR1000 Career Creation Starter Workshops STR2000 Career Creation Starter Clinics Global Immersion and Study BBA core modules:	0 0 0 0	after matriculation or first semester of commencing the DDP for mid-stream DDP students. May be fulfilled through student exchange, overseas	-
BPM1702 Microsoft Excel Skills for Business BPM1705 Understanding How Business Works STR1000 Career Creation Starter Workshops STR2000 Career Creation Starter Clinics Global Immersion and Study BBA core modules: ACC1701 Accounting for Decision Makers	0 0 0 0 0 -	after matriculation or first semester of commencing the DDP for mid-stream DDP students. May be fulfilled through student exchange, overseas	- - - - -
BPM1702 Microsoft Excel Skills for Business BPM1705 Understanding How Business Works STR1000 Career Creation Starter Workshops STR2000 Career Creation Starter Clinics Global Immersion and Study BBA core modules: ACC1701 Accounting for Decision Makers BSP1702 Legal Environment of Business	0 0 0 0 -	after matriculation or first semester of commencing the DDP for mid-stream DDP students. May be fulfilled through student exchange, overseas	C2 C2
BPM1702 Microsoft Excel Skills for Business BPM1705 Understanding How Business Works STR1000 Career Creation Starter Workshops STR2000 Career Creation Starter Clinics Global Immersion and Study BBA core modules: ACC1701 Accounting for Decision Makers BSP1702 Legal Environment of Business BSP1703 Managerial Economics	0 0 0 0 -	after matriculation or first semester of commencing the DDP for mid-stream DDP students. May be fulfilled through student exchange, overseas	
BPM1702 Microsoft Excel Skills for Business BPM1705 Understanding How Business Works STR1000 Career Creation Starter Workshops STR2000 Career Creation Starter Clinics Global Immersion and Study BBA core modules: CCC1701 Accounting for Decision Makers BSP1702 Legal Environment of Business BSP1703 Managerial Economics BSP2701 Global Economy	0 0 0 0 - - 4 4 4 4 2	after matriculation or first semester of commencing the DDP for mid-stream DDP students. May be fulfilled through student exchange, overseas	
BPM1702 Microsoft Excel Skills for Business BPM1705 Understanding How Business Works STR1000 Career Creation Starter Workshops STR2000 Career Creation Starter Clinics Slobal Immersion and Study BBA core modules: ACC1701 Accounting for Decision Makers SEP1702 Legal Environment of Business BSP1703 Managerial Economics BSP2701 Global Economy BSP2701 Strategic Management	0 0 0 0 - - 4 4 4 4 2	after matriculation or first semester of commencing the DDP for mid-stream DDP students. May be fulfilled through student exchange, overseas	
BPM1702 Microsoft Excel Skills for Business BPM1705 Understanding How Business Works STR1000 Career Creation Starter Workshops STR2000 Career Creation Starter Clinics Global Immersion and Study BBA core modules: ACC1701 Accounting for Decision Makers BSP1702 Legal Environment of Business BSP1703 Managerial Economics BSP2701 Global Economy BSP3701 Strategic Management DAO1704 Desicion Analytics Using Spreadsheets	0 0 0 0 - - 4 4 4 4 2 4	after matriculation or first semester of commencing the DDP for mid-stream DDP students. May be fulfilled through student exchange, overseas	
BPM1702 Microsoft Excel Skills for Business BPM1705 Understanding How Business Works STR1000 Career Creation Starter Workshops STR2000 Career Creation Starter Clinics Global Immersion and Study BBA core modules: ACC1701 Accounting for Decision Makers BSP1702 Legal Environment of Business BSP1703 Managerial Economics BSP1703 Idobal Economy BSP3701 Strategic Management DAO1704 Desicion Analytics Using Spreadsheets DAO2702 Programming for Business Analytics	0 0 0 0 - - 4 4 4 4 2 2 4	after matriculation or first semester of commencing the DDP for mid-stream DDP students. May be fulfilled through student exchange, overseas	
BPM1702 Microsoft Excel Skills for Business BPM1705 Understanding How Business Works STR1000 Career Creation Starter Workshops STR2000 Career Creation Starter Clinics Global Immersion and Study BACC1701 Accounting for Decision Makers ASC1701 Accounting for Decision Makers BSP1702 Legal Environment of Business BSP1703 Managerial Economics BSP2701 Global Economy BSP3701 Strategic Management DAO1704 Desicion Analytics Using Spreadsheets DAO2702 Programming for Business Analytics DAO2703 Operations and Technology Management	0 0 0 0 - - 4 4 4 2 4 4 4 4 4	after matriculation or first semester of commencing the DDP for mid-stream DDP students. May be fulfilled through student exchange, overseas	
BPM1702 Microsoft Excel Skills for Business BPM1705 Understanding How Business Works STR1000 Career Creation Starter Workshops STR2000 Career Creation Starter Clinics Silobal Immersion and Study BBA core modules: ACC1701 Accounting for Decision Makers BSP1702 Legal Environment of Business BSP1703 Managerial Economics BSP1703 Managerial Economics BSP1701 Global Economy BSP3701 Strategic Management DAOL704 Desicion Analytics Using Spreadsheets DAOL702 Programming for Business Analytics DAOL703 Operations and Technology Management EN2704 Finance	0 0 0 0 - - 4 4 4 4 2 4 4 4 4 4 4 4 4	after matriculation or first semester of commencing the DDP for mid-stream DDP students. May be fulfilled through student exchange, overseas	
BPM1702 Microsoft Excel Skills for Business BPM1705 Understanding How Business Works STR1000 Career Creation Starter Workshops STR2000 Career Creation Starter Clinics Sidobal Immersion and Study BBA core modules: ACC1701 Accounting for Decision Makers BSP1702 Legal Environment of Business BSP1703 Managerial Economics BSP1703 Managerial Economy BSP2701 Global Economy BSP3701 Strategic Management DA01704 Desicion Analytics Using Spreadsheets DA02702 Programming for Business Analytics DA02703 Operations and Technology Management DINITYON Finance MKT1705 Principles of Marketing	0 0 0 0 - - 4 4 4 4 2 2 4 4 4 4 4 4 4 4 4 4 4 4	after matriculation or first semester of commencing the DDP for mid-stream DDP students. May be fulfilled through student exchange, overseas	
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BPM1702 Microsoft Excel Skills for Business BPM1705 Understanding How Business Works STR1000 Career Creation Starter Workshops STR2000 Career Creation Starter Clinics Slobal Immersion and Study BBA core modules: ACC1701 Accounting for Decision Makers BSP1702 Legal Environment of Business BSP1703 Managerial Economics BSP1703 Managerial Economics BSP1701 Strategic Management DAO1704 Desicion Analytics Using Spreadsheets DAO2702 Programming for Business Analytics DAO2702 Programming for Business Analytics DAO2703 Operations and Technology Management BMC1705 Principles of Marketing MMC1705 Principles of Marketing MMC1705 Organisational Behaviour MMC2705 Leadership and Decision Making under Uncertainty	0 0 0 0 	after matriculation or first semester of commencing the DDP for mid-stream DDP students. May be fulfilled through student exchange, overseas	
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BPM1702 Microsoft Excel Skills for Business BPM1705 Understanding How Business Works STR1000 Career Creation Starter Workshops STR2000 Career Creation Starter Clinics Global Immersion and Study BBA core modules: ACC1701 Accounting for Decision Makers BSP1702 Legal Environment of Business BSP1703 Managerial Economics BSP1703 Managerial Economics BSP1701 Global Economy BSP3701 Strategic Management DAO1704 Desicion Analytics Using Spreadsheets DAO2702 Programming for Business Analytics DAO2703 Operations and Technology Management FIN2704 Finance MKT1705 Principles of Marketing MKT10706 Organisational Behaviour MNO2705 Leadership and Decision Making under Uncertainty BBA elective 1 BBA elective 2	0 0 0 0 	after matriculation or first semester of commencing the DDP for mid-stream DDP students. May be fulfilled through student exchange, overseas internship, case competition, or study trip. It is not compulsory for DDP students to do a specialisation, but those who wish take up a specialisation will need to	
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