AY2024-25 CURRICULUM FOR BACHELOR OF ENGINEERING (MECHANICAL ENGINEERING - MAINSTREAM) WITH CN YANG SCHOLARS PROGRAMME SECOND MAJOR IN DATA ANALYTICS (MEDA) (FIRST YEAR ADMISSION)

				•					
						Last updated:	4-Jul-24		
	SUMMARY OF ACADEMIC UNIT REQUIREMENT								
Year of Study	School Core	CNYSP-Core	MPE	сс	FC	BDE	Total AU		
1	11	23	0	5	0	0	39		
2	18	10	0	8	0	3	39		
3	25	0	6	0	8	3	42		
4	15	0	0	0	0	12	27		
Total	69	33	6	13	8	18	147		

YEAR 1 SEMESTER 1				
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks
CY1001	Cell	CNY-Core	3	
CY1101	Molecule	CNY-Core	4	
CY1308	Physics	CNY-Core	3	CNYSP Courses
CY1500	Introduction to Research	CNY-Core	2	
CY1601	Mathematics I	CNY-Core	4	
EG1001	Engineers In Society	С	2	
CC0005	Healthy Living & Mental Wellbeing in an Aging Society	CC	3	
		•	21	

	YEAR 1 SEMESTER 2					
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks		
CY1007	Climate Change	CNY-Core	3	CNYSP Course		
MA1001	Dynamics	С	3	CY1308 + CY1601		
MA2003	Intro to Thermo-fluids	С	3			
MA1008^	Introduction to Computational Thinking	С	3			
CC0002	Navigating the Digital World	CC	2			
			14			

YEAR 1 SPECIAL SEMESTER					
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks	
CY2003	Research Attachment 3	CNY-Core	4	CNYSP Course	
	Overseas Learning Trip				
		•	4		

	YEAR 2 SEMESTER 1				
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks	
CY0001	Writing Across the Disciplines	CNY-Core	3	CNYSP Course	
MA2001	Mechanics of Materials	С	3		
MA2002	Theory of Mechanism	С	3	MA1001	
MA2006^	Engineering Mathematics	С	3	CY1602	
MA2009	Introduction to Electrical & Electronic Devices	С	3		
SP0061	Science & Technology for Humanity	CC	3		
			18		

	YEAR 2 SEMESTER 2				
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks	
CY0002	Ethics	CNY-Core	3	CNYSP Course	
CY2001	Research Attachment 1	CNY-Core	4	CNYSP Course 2-semester long, course registered only in Sem 2 (similar to URECA)	
MA2005	Engineering Graphics	С	3		
MA2079	Engineering Innovation and Design	С	2	Semester 2 with 1 week in Special Term	
MA2071	Laboratory Experiments	С	1		
MH1403	Algorithms and Computing	BDE	3	PS0001/ MA1008	
CC0006	Sustainability: Society, Economy & Environment	CC	3		
ML0004	Career and Entrepreneurial Development for the Future World	CC	2		

	YEAR 3 SEMESTER 1				
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks	
MA2004	Manufacturing Processes	С	3		
MA2007	Thermodynamics	С	3	MA2003	
MA3001	Machine Element Design	С	3	Having read MA2001 and MA2002 and MA2005	
MA3002	Solid Mechanics and Vibration	С	3	MA2001	
MA3004	Mathematical Methods in Engineering	С	3	CY1602	
MA4849^	Operations Research	MPE	3		
			18		

YEAR 3 SEMESTER 2				
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks
MA3003	Heat Transfer	С	3	MA2007
MA3005	Control Theory	С	3	Having read MA2006
MA3006	Fluid Mechanics	С	3	MA2003
MA3071	Engineering Experiments (ME)	С	1	
MA0218	Introduction to Data Science and Artificial Intelligence	FC	3	MA1008
MA4829^	Machine Intelligence	MPE	3	DA Elective 1
SC2207	Introduction to Database	BDE	3	MH1403
			19	

YEAR 3 SPECIAL SEMESTER				
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks
MA3910	Professional Attachment	FC	5	
			5	

	YEAR 4 SEMESTER 1				
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks	
MA4001	Engineering Design	С	4	Having read MA3001	
MA4002	Fluid Dynamics	С	3	MA3006	
XXXXXX	DA Elective 2	BDE	3		
XXXXXX	DA Elective 3	BDE	3		
SC4020	Data Analytics and Mining	BDE	3	MH1403	
SC4024	Data Visualization	BDE	3	MA1008 & MA4849	
			19		

YEAR 4 SEMESTER 2				
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks
MA4211	CNYSP Overseas Final Year Project	С	8	
			8	
	Total All for G	raduation	1/17	

^ These courses are double-counted towards both ME as well as the Second Major in Data Analytics.

	Compulsory Courses for Second Major in Data Analytics						
Course Type	Course Code	Course Title	AU	Offering Sem	Pre-req		
MPE	MA4849	Operations Research	3	1	-		
Core	MA2006	Engineering Mathematics	3	1 & 2	CY1602		
Core	MA1008	Introduction to Computational Thinking	3	2	-		
BDE	MH1403	Algorithms and Computing	3	2	MA1008		
BDE	SC2207	Introduction to Database	3	1 & 2	MH1403		
BDE	SC4020	Data Analytics and Mining	3	1	MH1403		
BDE	SC4024	Data Visualization	3	1	MA1008 & MA4849		

	Suggested Electives for Second Major in Data Analytics						
Course Type	Course Code	Course Title	AU	Offering Sem	Pre-req		
MPE	MA4829	Machine Intelligence	3	2	-		
BDE	MA4830	Real Time Software for Mechatonics System	3	1	-		
BDE	MA4832	Microprocessor System	3	1	-		

AY2024-25 CURRICULUM FOR BACHELOR OF ENGINEERING (MECHANICAL ENGINEERING - DESIGN STREAM) WITH CN YANG SCHOLARS PROGRAMME SECOND MAJOR IN DATA ANALYTICS (MEDA) (FIRST YEAR ADMISSION)

Last updated: 4-Jul-24

	SUMMARY OF ACADEMIC UNIT REQUIREMENT								
Year of Study	School Core	CNYSP-Core	MPE	сс	FC	BDE	Total AU		
1	14	23	0	5	0	0	42		
2	18	10	0	8	0	3	39		
3	25	0	6	0	8	3	42		
4	12	0	0	0	0	12	24		
Total	69	33	6	13	8	18	147		

	YEAR 1 SEMESTER 1			
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks
CY1001	Cell	CNY-Core	3	
CY1101	Molecule	CNY-Core	4	
CY1308	Physics	CNY-Core	3	CNYSP Courses
CY1500	Introduction to Research	CNY-Core	2	
CY1601	Mathematics I	CNY-Core	4	
EG1001	Engineers In Society	С	2	
CC0005	Healthy Living & Mental Wellbeing in an Aging Society	CC	3	
			21	

YEAR 1 SEMESTER 2					
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks	
CY1007	Climate Change	CNY-Core	3	CNYSP Course	
MA1001	Dynamics	С	3	CY1308 + CY1601	
MA2003	Intro to Thermo-fluids	С	3		
MA1008^	Introduction to Computational Thinking	С	3		
MA2009	Introduction to Electrical & Electronic Devices	С	3		
CC0002	Navigating the Digital World	CC	2		
			17		

	YEAR 1 SPECIAL SEMESTER						
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks			
CY2003	Research Attachment 3	CNY-Core	4	CNYSP Course			
	Overseas Learning Trip						
			4				

	YEAR 2 SEMESTER 1					
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks		
CY0001	Writing Across the Disciplines	CNY-Core	3	CNYSP Course		
MA2001	Mechanics of Materials	С	3			
MA2002	Theory of Mechanism	С	3	MA1001		
MA2006^	Engineering Mathematics	С	3	CY1602		
MA2014	Product Presentation	С	3			
SP0061	Science & Technology for Humanity	CC	3			
			18			

YEAR 2 SEMESTER 2				
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks
CY0002	Ethics	CNY-Core	3	CNYSP Course

CY2001	Research Attachment 1	CNY-Core	4	CNYSP Course 2-semester long, course registered only in Sem 2 (similar to URECA)
MA2013	Creative Thinking and Design	С	3	
MA2079	Engineering Innovation and Design	С	2	Semester 2 with 1 week in Special Term
MA2071	Laboratory Experiments	С	1	
MH1403	Algorithms and Computing	BDE	3	PS0001/ MA1008
CC0006	Sustainability: Society, Economy & Environment	CC	3	
ML0004	Career and Entrepreneurial Development for the Future World	CC	2	
			21	

	YEAR 3 SEMESTER 1					
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks		
MA2024	Engineering Materials & Manufacturing Processes	С	3			
MA3001	3001 Machine Element Design C 3	Machine Flement Design			2	Having read MA2001 and MA2002
IVIASUUI		C	5	and MA2005		
MA3002	Solid Mechanics and Vibration	С	3	MA2001		
MA3004	Mathematical Methods in Engineering	С	3	CY1602		
MA3010	Thermodynamics and Heat Transfer	С	3	MA2003		
MA4849^	Operations Research	MPE	3			
			18			

	YEAR 3 SEMESTER 2					
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks		
MA2005	Engineering Graphics	С	3			
MA3005	Control Theory	С	3	Having read MA2006		
MA3006	Fluid Mechanics	С	3	MA2003		
MA3071	Engineering Experiments (ME)	С	1			
MA0218	Introduction to Data Science and Artificial Intelligence	FC	3	MA1008		
MA4829^	Machine Intelligence	MPE	3	DA Elective 1		
SC2207	Introduction to Database	BDE	3	MH1403		
			19			

YEAR 3 SPECIAL SEMESTER				
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks
MA3910	Professional Attachment	FC	5	
			5	

	YEAR 4 SEMESTER 1					
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks		
MA4011	Engineering Product Design	С	4	Having read MA3001		
XXXXXX	DA Elective 2	BDE	3			
XXXXXX	DA Elective 3	BDE	3			
SC4020	Data Analytics and Mining	BDE	3	MH1403		
SC4024	Data Visualization	BDE	3	MA1008 & MA4849		
			16			

YEAR 4 SEMESTER 2					
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks	
MA4211	CNYSP Overseas Final Year Project	С	8		
			8		
	Total All for G	raduation	1/17		

[^] These courses are double-counted towards both ME as well as the Second Major in Data Analytics.

	Compulsory Courses for Second Major in Data Analytics							
Course Type	Course Code	Course Title	AU	Offering Sem	Pre-req			
MPE	MA4849	Operations Research	3	1	-			
Core	MA2006	Engineering Mathematics	3	1 & 2	CY1602			
Core	MA1008	Introduction to Computational Thinking	3	2	-			
BDE	MH1403	Algorithms and Computing	3	2	MA1008			
BDE	SC2207	Introduction to Database	3	1 & 2	MH1403			
BDE	SC4020	Data Analytics and Mining	3	1	MH1403			
BDE	SC4024	Data Visualization	3	1	MA1008 & MA4849			

	Suggested Electives for Second Major in Data Analytics						
Course Type	Course Code	Course Title	AU	Offering Sem	Pre-req		
MPE	MA4829	Machine Intelligence	3	2	-		
BDE	MA4830	Real Time Software for Mechatonics System	3	1	=		
BDE	MA4832	Microprocessor System	3	1	-		

AY2024-25 CURRICULUM FOR BACHELOR OF ENGINEERING (MECHANICAL ENGINEERING - ROBOTICS & MECHATRONICS STREAM) WITH CN YANG SCHOLARS PROGRAMME SECOND MAJOR IN DATA ANALYTICS (MEDA)

(FIRST YEAR ADMISSION)

Last updated:	4-Jul	-24
---------------	-------	-----

						zast apaatea.	130121		
	SUMMARY OF ACADEMIC UNIT REQUIREMENT								
Year of Study	School Core	CNYSP-Core	MPE	сс	FC	BDE	Total AU		
1	14	23	0	5	0	0	42		
2	18	10	0	8	0	3	39		
3	29	0	6	0	8	0	43		
4	8	0	0	0	0	15	23		
Total	69	33	6	13	8	18	147		

	YEAR 1 SEMESTER 1					
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks		
CY1001	Cell	CNY-Core	3			
CY1101	Molecule	CNY-Core	4			
CY1308	Physics	CNY-Core	3	CNYSP Courses		
CY1500	Introduction to Research	CNY-Core	2			
CY1601	Mathematics I	CNY-Core	4			
EG1001	Engineers In Society	С	2			
CC0005	Healthy Living & Mental Wellbeing in an Aging Society	CC	3			
			21			

	YEAR 1 SEMESTER 2					
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks		
CY1007	Climate Change	CNY-Core	3	CNYSP Course		
MA1001	Dynamics	С	3	CY1308 + CY1601		
MA2003	Intro to Thermo-fluids	С	3			
MA1008^	Introduction to Computational Thinking	С	3			
MA2009	Introduction to Electrical & Electronic Devices	С	3			
CC0002	Navigating the Digital World	CC	2			
			17			

YEAR 1 SPECIAL SEMESTER					
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks	
CY2003	Research Attachment 3	CNY-Core	4	CNYSP Course	
	Overseas Learning Trip				
			4		

	YEAR 2 SEMESTER 1					
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks		
CY0001	Writing Across the Disciplines	CNY-Core	3	CNYSP Course		
MA2001	Mechanics of Materials	С	3			
MA2002	Theory of Mechanism	С	3	MA1001		
MA2006^	Engineering Mathematics	С	3	CY1602		
MA2012	Introduction to Mechatronics Systems Design	С	3			
SP0061	Science & Technology for Humanity	CC	3			
			18			

YEAR 2 SEMESTER 2					
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks	
CY0002	Ethics	CNY-Core	3	CNYSP Course	

				CNYSP Course
CY2001	Research Attachment 1	CNY-Core	4	2-semester long, course registered only
				in Sem 2 (similar to URECA)
MA2011	Mechatronics System Interfacing	С	3	
MA2079	Engineering Innovation and Design	С	2	Semester 2 with 1 week in Special Term
MA2071	Laboratory Experiments	С	1	
MH1403	Algorithms and Computing	BDE	3	PS0001/ MA1008
CC0006	Sustainability: Society, Economy & Environment	CC	3	
ML0004	Career and Entrepreneurial Development for the Future World	CC	2	
			21	

	YEAR 3 SEMESTER 1						
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks			
MA2024	Engineering Materials & Manufacturing Processes	С	3				
NAA 2001	IA3001 Machine Element Design C	С 3	Having read MA2001 and MA2002 and				
WASUUI		C	5	MA2005			
MA3002	Solid Mechanics and Vibration	С	3	MA2001			
MA3004	Mathematical Methods in Engineering	С	3	CY1602			
MA3005	Control Theory	С	3	Having read MA2006			
MA3010	Thermodynamics and Heat Transfer	С	3	MA2003			
MA4849^	Operations Research	MPE	3				
			21				

	YEAR 3 SEMESTER 2						
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks			
MA2005	Engineering Graphics	С	3				
MA3006	Fluid Mechanics	С	3	MA2003			
MA3071	Engineering Experiments (ME)	С	1				
MA0218	Introduction to Data Science and Artificial Intelligence	FC	3	MA1008			
MA4012	Mechatronics Engineering Design	С	4	Having read MA3001			
MA4829^	Machine Intelligence	MPE	3	DA Elective 1			
			17				

	YEAR 3 SPECIAL SEMESTER						
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks			
MA3910	Professional Attachment	FC	5				
			5				

	YEAR 4 SEMESTER 1						
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks			
XXXXXX	DA Elective 2	BDE	3				
XXXXXX	DA Elective 3	BDE	3				
SC2207	Introduction to Database	BDE	3	MH1403			
SC4020	Data Analytics and Mining	BDE	3	MH1403			
SC4024	Data Visualization	BDE	3	MA1008 & MA4849			
			15				

	YEAR 4 SEMESTER 2						
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks			
MA4211	CNYSP Overseas Final Year Project	С	8				
			8				
Total AU for Graduation:		147					

[^] These courses are double-counted towards both ME as well as the Second Major in Data Analytics.

	Compulsory Courses for Second Major in Data Analytics						
Course Type	Course Code	Course Title	AU	Offering Sem	Pre-req		
MPE	MA4849	Operations Research	3	1	-		
Core	MA2006	Engineering Mathematics	3	1 & 2	CY1602		
Core	MA1008	Introduction to Computational Thinking	3	2	-		
BDE	MH1403	Algorithms and Computing	3	2	MA1008		
BDE	SC2207	Introduction to Database	3	1 & 2	MH1403		
BDE	SC4020	Data Analytics and Mining	3	1	MH1403		
BDE	SC4024	Data Visualization	3	1	MA1008 & MA4849		

	Suggested Electives for Second Major in Data Analytics						
Course Type	Course	Course Title	AU	Offering	Pre-rea		
	Code		7.0	Sem			
MPE	MA4829	Machine Intelligence	3	2	-		
BDE	MA4830	Real Time Software for Mechatonics System	3	1	-		
BDE	MA4832	Microprocessor System	3	1	-		

AY2024-25 CURRICULUM FOR BACHELOR OF ENGINEERING (MECHANICAL ENGINEERING - INTELLIGENCE MANUFACTURING STREAM) WITH CN YANG SCHOLARS PROGRAMME SECOND MAJOR IN DATA ANALYTICS (MEDA)

(FIRST YEAR ADMISSION)

Last updated: 4-Jul-24

	SUMMARY OF ACADEMIC UNIT REQUIREMENT								
Year of Study	School Core	CNYSP-Core	MPE	сс	FC	BDE	Total AU		
1	14	23	0	5	0	0	42		
2	18	10	0	8	0	3	39		
3	29	0	6	0	8	0	43		
4	8	0	0	0	0	15	23		
Total	69	33	6	13	8	18	147		

	YEAR 1 SEMESTER 1						
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks			
CY1001	Cell	CNY-Core	3				
CY1101	Molecule	CNY-Core	4				
CY1308	Physics	CNY-Core	3	CNYSP Courses			
CY1500	Introduction to Research	CNY-Core	2				
CY1601	Mathematics I	CNY-Core	4				
EG1001	Engineers In Society	С	2				
CC0005	Healthy Living & Mental Wellbeing in an Aging Society	CC	3				
			21				

YEAR 1 SEMESTER 2						
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks		
CY1007	Climate Change	CNY-Core	3	CNYSP Course		
MA1001	Dynamics	С	3	CY1308 + CY1601		
MA2003	Intro to Thermo-fluids	С	3			
MA1008^	Introduction to Computational Thinking	С	3			
MA2009	Introduction to Electrical & Electronic Devices	С	3			
CC0002	Navigating the Digital World	CC	2			
			17			

	YEAR 1 SPECIAL SEMESTER						
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks			
CY2003	Research Attachment 3	CNY-Core	4	CNYSP Course			
	Overseas Learning Trip						
			4				

YEAR 2 SEMESTER 1						
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks		
CY0001	Writing Across the Disciplines	CNY-Core	3	CNYSP Course		
MA2001	Mechanics of Materials	С	3			
MA2002	Theory of Mechanism	С	3	MA1001		
MA2006^	Engineering Mathematics	С	3	CY1602		
MA2012	Introduction to Mechatronics Systems Design	С	3			
SP0061	Science & Technology for Humanity	CC	3			
			18			

YEAR 2 SEMESTER 2						
Course Code	Course Title Type AU Pre-Requisite/Remarks					
CY0002	Ethics	CNY-Core	3	CNYSP Course		

				CNYSP Course	
CY2001	Research Attachment 1	CNY-Core	4	2-semester long, course	
C12001	Research Attachment 1	CNY-Core 4	registered only in Sem 2 (similar		
				to URECA)	
MA2011	Mechatronics System Interfacing	С	3		
MA2079	Engineering Innovation and Design	C 2	6	2	Semester 2 with 1 week in
IVIAZU79	Lingineering innovation and Design	C	2	Special Term	
MA2071	Laboratory Experiments	С	1		
MH1403	Algorithms and Computing	BDE	3	PS0001/ MA1008	
CC0006	Sustainability: Society, Economy & Environment	CC	3		
ML0004	Career and Entrepreneurial Development for the Future World	CC	2		
			21		

YEAR 3 SEMESTER 1					
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks	
MA2024	Engineering Materials & Manufacturing Processes	С	3		
MA3001	Machine Element Design	1 (1 3 1	Having read MA2001 and		
MASOUI	IMachine Element Design		3	MA2002 and MA2005	
MA3002	Solid Mechanics and Vibration	С	3	MA2001	
MA3004	Mathematical Methods in Engineering	С	3	CY1602	
MA3005	Control Theory	С	3	Having read MA2006	
MA3010	Thermodynamics and Heat Transfer	С	3	MA2003	
MA4849^	Operations Research	MPE	3		
			21		

YEAR 3 SEMESTER 2						
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks		
MA2005	Engineering Graphics	С	3			
MA3006	Fluid Mechanics	С	3	MA2003		
MA3071	Engineering Experiments (ME)	С	1			
MA0218	Introduction to Data Science and Artificial Intelligence	FC	3	MA1008		
MA4013	Manufacturing Engineering Design	С	4	Having read MA3001		
MA4829^	Machine Intelligence	MPE	3	DA Elective 1		
_			17			

YEAR 3 SPECIAL SEMESTER					
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks	
MA3910	Professional Attachment	FC	5		
			5		

YEAR 4 SEMESTER 1					
Course Code	Course Title	Pre-Requisite/Remarks			
XXXXXX	DA Elective 2	BDE	3		
XXXXXX	DA Elective 3	BDE	3		
SC2207	Introduction to Database	BDE	3	MH1403	
SC4020	Data Analytics and Mining	BDE	3	MH1403	
SC4024	Data Visualization	BDE	3	MA1008 & MA4849	
			15		

YEAR 4 SEMESTER 2					
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks	
MA4211	CNYSP Overseas Final Year Project	С	8		
			8		
	Total AU for Gr	aduation:	147		

[^] These courses are double-counted towards both ME as well as the Second Major in Data Analytics.

Compulsory Courses for Second Major in Data Analytics							
Course Type	Course Code	Course Title	AU	Offering Sem	Pre-req		
MPE	MA4849	Operations Research	3	1	=		
Core	MA2006	Engineering Mathematics	3	1 & 2	CY1602		
Core	MA1008	Introduction to Computational Thinking	3	2	=		
BDE	MH1403	Algorithms and Computing	3	2	MA1008		
BDE	SC2207	Introduction to Database	3	1 & 2	MH1403		
BDE	SC4020	Data Analytics and Mining	3	1	MH1403		
BDE	SC4024	Data Visualization	3	1	MA1008 & MA4849		

	Suggested Electives for Second Major in Data Analytics						
Course Type							
MPE	MA4829	Machine Intelligence	3	2	-		
BDE	MA4830	Real Time Software for Mechatonics System	3	1	=		
BDE	MA4832	Microprocessor System	3	1	=		