UNIT DISTRIBUTION

YEAR ONE			
SEMESTER ONE			
UNIT CODE	UNIT TITLE	No. of Credit	No. of Lecture
		Hours	Hours
AMM122	Mathematics I	3	42
EMS 100	Engineering Drawing I	4	56
UCU 100	Communication Skills	3	42
ACH 117	Chemistry I	4	56
SCS 100	Introduction to Computers and Applications	3	42
UCU 101	HIV/AIDS	3	42
APH 108	Physics I	4	56
TOTAL		22	336

YEAR ONE				
SEMESTER T	SEMESTER TWO			
UNIT CODE	UNIT TITLE	No. of Credit	No. of Lecture	
		Hours	Hours	
AMM 123	Mathematics II	3	42	
EMS 101	Engineering Drawing II	4	56	
EMS 102	Workshop Processes and Practice I	4	56	
UCU 102	Development Studies and National Cohesion	3	42	
SCS 101	Introduction to Computer Programming	3	42	
ACH 118	Chemistry II	4	56	
UCU 103	Introduction to Business and Entrepreneurship	3	42	
APH 109	Physics II	4	56	
Total		26	392	

YEAR TWO	YEAR TWO			
SEMESTER ONE				
UNIT CODE	UNIT TITLE	No. of Credit	No. of Lecture	
		Hours	Hours	
AMM 214	Mathematics III	3	42	
EMS 200	Engineering Mechanics	4	56	
EES 200	Fluid Mechanics	4	56	
EMS 201	Workshop Processes and Practice II	4	56	
EMS 202	Computer Aided Design and Manufacturing	4	56	
SCS 202	Object Oriented Programming	3	42	
EES 204	Electric Circuit Theory I	4	56	
EES 214	Physical Electronics	4	56	
AMM 214	Mathematics III	3	42	
TOTAL		30	420	

YEAR TWO SEMESTER TWO				
		Hours	Hours	
AMM 215	Mathematics IV	3	42	
EMS 203	Solid and Structural Mechanics I	4	56	
EES 202	Thermodynamics	4	56	
EES 211	Electrical Instrumentation and Measurement	4	56	
EES 207	Mechanics of Machines	4	56	
EES 208	Material Science	4	56	
EES 209	Electric Circuit Theory II	4	56	
BCE 209	Engineering Economics	3	42	
TOTAL		30	420	

YEAR TWO		
SEMESTER THREE		
EMS 204	Internal Attachment	12 Weeks

YEAR THREE					
SEMESTER O	SEMESTER ONE				
UNIT CODE	UNIT TITLE	No. of Credit	No. of Lecture		
		Hours	Hours		
AMM 318	Linear Algebra	3	42		
AMM 319	Applied Geometry	3	42		
EMS 300	Production Technology	4	56		
EMS 301	Solid and Structuring Mechanics II	4	56		
EMS 302	Metrology	4	56		
EMS 303	Mechatronic Systems Programming I	4	56		
EES 315	Electrical Machines I	4	56		
EES 314	Analogue Electronics	4	56		
TOTAL		30	420		

YEAR THREE	YEAR THREE			
SEMESTER T	SEMESTER TWO			
UNIT CODE	UNIT TITLE	No. of Credit	No. of Lecture	
		Hours	Hours	
AMM 320	Numerical Methods	3	42	
AMS 335	Probability and Statistics	3	42	
EMS 304	Mechatronics System Programming II	4	56	
EMS 305	Planar Mechanics	4	56	
EES 312	Digital Electronics	4	56	
EES 316	Electrical Machines II	4	56	
AMM 320	Numerical Methods	3	42	
AMS 335	Probability and Statistics	3	42	
TOTAL		30	420	

YEAR THREE SEMESTER THREI	E	
EMS 306	Industrial Attachment I	12 Weeks

YEAR FOUR SEMESTER ONE				
		Hours	Hours	
EMS 400	Spatial Mechanisms	4	56	
EMS 401	Jig and Fixture Design	4	56	
EMS 402	Design of Mechatronic Systems	4	56	
EMS 403	Manufacturing Process Planning	4	56	
EES 404	Control Engineering I	4	56	
EES 400	Integrated Circuits	4	56	
EES 405	Microprocessor Systems I	4	56	
EES 415	Electric Machine and Drives	4	56	
TOTAL		32	448	

YEAR FOUR	YEAR FOUR				
SEMESTER T	SEMESTER TWO				
UNIT CODE	UNIT TITLE	No. of Credit	No. of Lecture		
		Hours	Hours		
EMS 404	Mechanical Vibrations	4	56		
EMS 405	Engineering Design	4	56		
EMS 406	Electronic Product Design	4	56		
EES 411	Control Engineering II	4	56		
EES 413	Microprocessor Systems II	4	56		
EES 408	Embedded Systems	4	56		
EMS 407	Micro-electromechanical Systems	4	56		
ECU 400	Engineering Management	3	42		
TOTAL		31	434		

YEAR FOUR		
SEMESTER THRE	E	
EMS 408	Industrial Attachment II	12 Weeks

YEAR FIVE				
SEMESTER ONE				
UNIT CODE	UNIT TITLE	No. of Credit	No. of Lecture	
		Hours	Hours	
EMS 500	Electro-Hydraulic and Pneumatic System	4	56	
EMS 501	Industrial Engineering	4	56	
EMS 502	Machine Design	4	56	
EES 511	Programmable Logic Controllers	4	56	
EES 501	Digital Control	4	56	
EMS 503	Engineering Project I	4	56	
*Electives (Tw	0)		•	
EMS 504	Manufacturing Technology	4	56	
EMS 505	Advanced Automotive Electrical and	4	56	
	Electronics Systems			
EES 529	Digital Systems Design	4	56	
SCS 302	Artificial Intelligence	4	56	
TOTAL		32	448	

YEAR FIVE SEMESTER TWO			
		Hours	Hours
EMS 506	Transmission Systems	4	56
EMS 507	Experimental Stress Analysis	4	56
EMS 508	Non-conventional Machining	4	56
EMS 509	Industrial Robotics	4	56
ECU 500	Professional Engineering Practice and Ethics	4	56
EMS 510	Engineering Project II	4	56
*Electives (Two	0)	•	•
EMS 511	Composite Materials and Structures	4	56
EMS 512	Electric Vehicles	4	56
EES 525	Distributed Control Systems	4	56
EES 512	Biomedical Instrumentation and Systems	4	56
TOTAL		32	448