

UNIT DISTRIBUTION

a) PRODUCTION & INDUSTRIAL ENGINEERING

YEAR ONE SEMESTER ONE		
UNIT CODE	UNIT TITLE	HOURS
ECU600	Research Methodology	45
ECU601	Project Design And Management	45
AMS630	Optimization Techniques	45
AMS631	Operations Research	45
EMT600	Facilities Planning And Design	45
SUB-TOTAL		225

YEAR ONE SEMESTER TWO		
UNIT CODE	UNIT TITLE	HOURS
EMT601	Rapid Prototyping And Reverse Engineering	45
EMT602	Advanced Metrology And Computer Aided Inspection	45
EMT603	Reliability Engineering	45
EMT604	Industrial Automation	45
EMT605	Advanced Production Engineering	45
SUB-TOTAL		225

YEAR TWO SEMESTER ONE & TWO		
UNIT CODE	UNIT TITLE	HOURS
EMT624	Research & Thesis Writing	270
GRAND TOTAL		720

b) ADVANCED MANUFACTURING

YEAR ONE SEMESTER ONE		
UNIT CODE	UNIT TITLE	HOURS
ECU600	Research Methodology	45
ECU601	Project Design And Management	45
AMS630	Optimization Techniques	45
EMT606	Mechanical Vibrations	45
EMT607	Manufacturing Systems And Economics	45
SUB-TOTAL		225

YEAR ONE SEMESTER TWO		
UNIT CODE	UNIT TITLE	HOURS
EMT608	Casting And Welding	45
EMT609	Advanced Machining Processes	45
EMT610	Advanced Robotics	45
EMT611	Computer Integrated Manufacturing	45
EMT612	Micro Fabrication Techniques And Nano Technology	45
SUB-TOTAL		225

YEAR TWO SEMESTER ONE & TWO		
UNIT CODE	UNIT TITLE	HOURS
	Research & Thesis Writing	270
GRAND TOTAL		720

c) MATERIAL SCIENCE AND METALLURGY

YEAR ONE SEMESTER ONE		
UNIT CODE	UNIT TITLE	HOURS
ECU600	Research Methodology	45
ECU601	Project Design And Management	45
AMS630	Optimization Techniques	45
EMT613	Phase Transformation And Microstural Control	45
EMT614	Finite Element Method	45
SUB-TOTAL		225

YEAR ONE SEMESTER TWO		
UNIT CODE	UNIT TITLE	HOURS
EMT615	Fracture Mechanics And Fatigue	45
EMT616	Advanced Composite Materials And Plastics	45
EMT617	Materials Structures And Characterization	45
EMT618	Material Selection And Failure Analysis	45
EMT619	Tribology	45
SUB-TOTAL		225

YEAR TWO SEMESTER ONE & TWO		
UNIT CODE	UNIT TITLE	HOURS
	Research & Thesis Submission	270
GRAND TOTAL		720