



# APOLLO ENGINEERING COLLEGE

## AERONAUTICAL DEPARTMENT

### CURRICULAM MAP – R2013

STREAMS	1 <sup>ST</sup> SEM	2 <sup>ND</sup> SEM	3 <sup>RD</sup> SEM	4 <sup>TH</sup> SEM	5 <sup>TH</sup> SEM	6 <sup>TH</sup> SEM	7 <sup>TH</sup> SEM	8 <sup>TH</sup> SEM
<b>AERO DYNAMICS</b>	PHYSICS I	PHYSICS II	FLUID MECHANICS & MACHINERY	AERO DYNAMICS I	AERODYNAMICS II		INDUSTRIAL AERODYNAMICS COMPUTATIONAL FLUID DYNAMICS	HYPERSONIC AERODYNAMICS EXPERIMENTAL AERODYNAMICS WIND TUNNEL TECHNIQUES
<b>AIRCRAFT STRUCTURES &amp; MATERIALS</b>	MATHEMATICS I ENGINEERING GRAPHICS ENGINEERING MECHANICS	MATHEMATICS II	SOLID MECHANICS MANUFACTURING TECHNOLOGY	AIRCRAFT STRUCTURES I	AIRCRAFT STRUCTURES II	COMPOSITE MATERIALS & STRUCTURES AIRCRAFT MATERIALS AND PROCESSES THEORY OF ELASTICITY FINITE ELEMENT METHODS VIBRATIONS AND ELEMENTS OF AERO ELASTICITY	FATIGUE AND FRACTURE THEORY OF PLATES AND SHELLS EXPERIMENTAL STRESS ANALYSIS	STRUCTURAL DYNAMICS
<b>PROPULSION</b>			AERO ENGINEERING THERMODYNAMICS	PROPULSION I	PROPULSION II	HEAT TRANSFER		
<b>NAVIGATION &amp; CONTROL</b>	COMPUTER PROGRAMMING	BASIC ELECTRICAL & ELECTRONICS ENGINEERING			CONTROL ENGINEERING FLIGHT DYNAMICS	SPACE MECHANICS	AVIONICS HELICOPTER THEORY UAV SYSTEM AIR TRAFFIC CONTROL & PLANNING	ROCKETS AND MISSILES
<b>AIRCRAFT MAINTENANCE</b>				AIRCRAFT SYSTEMS AND INSTRUMENTS		AIRCRAFT GENERAL ENGINEERING AND MAINTENANCE PRACTICE	AIRFRAME MAINTENANCE AND REPAIR AERO ENGINE MAINTENANCE AND REPAIR	
<b>DESIGN &amp; MODELLING</b>			ELEMENTS OF AERONAUTICS	MECHANICS OF MACHINES CAD & AIRCRAFT COMPONENT DRAWING		AIRCRAFT DESIGN PROJECT I	AIRCRAFT DESIGN PROJECT II	PROJECT