

Programme	Course Code	Course Title	L	T	P	C				
B. E. / B. Tech.	24NCC03	PERSONAL DEVELOPMENT AND AVIATION LEADERSHIP	1	0	0	1				
Course Objectives		1. To identify the leadership traits. 2. To understand the key components of personality and enhance the decision-making abilities. 3. To acquiring awareness about the basic obstacles and weapon system in training 4. To understand the basic structure and components of an airfield. 5. To understand the basic working principles of aero engines and aeromodelling.								
Unit	Description		Instructional Hours							
I	LEADERSHIP DEVELOPMENT		3							
Introduction to Leadership – Leadership traits – Indicators – Motivation – Moral values – Character traits – Honour code – Tenets of honour code.										
II	PERSONALITY DEVELOPMENT		3							
Self awareness – Empathy – Critical thinking – Creative thinking – Decision making and problem solving – Communication skills – Public speaking.										
III	WEAPON TRAINING AND OBSTACLES		3							
Introduction to .22 rifle – Classification of .22 ammunition – Methods of cleaning Handling of .22 rifle – Types of Firing position – Principles of firing – Standard obstacle course – Safety measures – Benefits.										
IV	AIRMANSHIP		3							
Introduction to airfield – Basic terminologies – Airfield layout – Rules of the air – Visual Flight Rules (VFR) – Instruments Flight Rules (IFR) – Circuit rules – Air Traffic Control (ATC).										
V	AERO ENGINES AND AEROMODELLING		3							
Introduction to Aero Engine – Components of Aero Engines – Principles of propulsion – Jet Engines – Principles and working of Aero Engines – History of aeromodelling – Materials used in aeromodelling – Types of aeromodelling – Building and flying of Aeromodels.										
Course Outcome:	CO1	Remember and develop the leadership qualities.								
	CO2	Remember the key concepts of self-awareness, empathy, critical thinking and effective communication.								
	CO3	Understand and execute weapon handling, firing techniques and obstacles course.								
	CO4	Understand the airfield layout, fundamental rules of the air and role of ATC.								
	CO5	Understand the principle and working of aero engines and aeromodelling procedures and flying controls.								

Text Books:

1. NCC cadet Handbook Common Subject SD/SW.
2. NCC cadet Handbook (Air Force) Specialised Subject SD/SW.
3. ANO Handbook (SD/SW) by DG NCC, Ministry of Defence, New Delhi.

Reference:

1. Digital Forum App 1.0 & 2.0, by DG NCC DG NCC, Ministry of Defence, New Delhi.