

Programme	Course Code	Course Title	L	T	P	C
B. E. / B. Tech.	24NCC02	CAREER DEVELOPMENT AND AVIATION SKILLS	1	0	0	1
Course Objectives:		1. To understand the fundamentals of group discussions and interviews. 2. To educate the importance of water conservation and energy conservation in sustainable development. 3. To learn the fundamental commands, formations and sequences of arm drill movements. 4. To understand the basic principles of flight, including the forces acting on an aircraft. 5. To understand the fundamental principles behind aircraft control systems and their role in flight stability and maneuverability.				
Unit	Description			Instructional Hours		
I	GROUP DISCUSSIONS AND INTERVIEW SKILLS			3		
Stress management techniques – Change your mindset – Time management – Principles of time management – Social skills – Interview skills – SSB procedure.						
II	ENVIRONMENTAL AWARENESS			3		
Water conservation – Rain water harvesting – Energy conservation – Pollution – Types of pollution – Disaster and its classification – Waste management – Tree plantation.						
III	ARM DRILL			3		
Arm Drill – Rifle ke sath savdhan, Vishram aur Aram se – Rifle ke saath Parade par aur Saj – Rifle ke saath Visarjan, Line Tod – Bhumi Shastra aur Uthao Shastra – Bagal Shastra aur Baju Shastra – Salami sasthra – Salute – General Salute – National Salute – Guard of Honour.						
IV	PRINCIPLE OF FLIGHT			3		
Aircrafts of IAF – Parts of an aircraft – Introduction to principle of flight – Laws of motion – Bernoulli's principle and Venturi effect – Glossary of terms – Aerofoil – Forces acting on the aircraft.						
V	AIRCRAFT CONTROLS AND FLIGHT INSTRUMENTS			3		
Basic air craft controls – Primary controls – Secondary controls – Types of wings and plane – Basic Flight Instruments – Air speed Indicator (ASI) – Altimeter – Artificial Horizon (AH).						
Course Outcome:	CO1	Understand the principles, techniques, and expectations of group discussions and interviews.				
	CO2	Understand the knowledge of environmental challenges and adopt sustainable practices to protect natural resources.				
	CO3	Remember the fundamental commands, formations and movements involved in arm drill.				
	CO4	Understand the fundamental forces of flight and their role in aircraft movement.				
	CO5	Understand the primary, secondary flight control surfaces and flight instruments and their functions in aircraft maneuvering.				

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.