

Programme	Course Code	Course Title	L	T	P	C
B. E. / B. TECH	22NC104	General awareness, communication and Aero engines	1	0	0	1
Course Objectives:	1. Understand the importance of General Awareness. 2. Show Arm drill and ceremonial drill sequences. 3. Get Acquainted with the procedure to treat the wounds and fractures during emergencies. 4. Understand and knowledge about communications networks and Infantry weapons and supporting Arms. 5. Obtain Knowledge about Aero engine, Aero modeling and flying basics.					
Unit	Description					Instructional Hours
I	GENERAL AWARENESS Constitution of India - Current affairs - logical reasoning - Types of awards - Indian history and geographical structure - Indian culture - know your country - freedom fighters.					3
II	ARM DRILL AND CEREMONIAL DRILL 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 sashtra - Squad Drill with Arms – Salute - General Salute - National Salute - ceremonial Drill - Guard of Honour - Gurad mounting.					3
III	FIRST AID AND WELLBEING OF HUMAN BODY First Aid common medical Emergencies - treatment of wounds - Introduction to yoga and daily exercise - Types of Asanas - benefits of yoga and exercises - Balanced Diet food - Health monitors - Immunity development - fight against spread of diseases.					3
IV	COMMUNICATION, INFANTRY WEAPONS AND SUPPORTING ARMS Types of communications - characteristics of wireless communication - Characteristics of 7.65 m SLR - Ammunition - fire power - Stripping, Assembling and Aiming - Supporting Arms - INSAS, Rocket Launcher, Tanks - Army Defence system.					3
V	AERO ENGINES, AERO MODELING AND FLYING Introduction to Aero Engine - types of Aero Engines - Piston and Jet Engines - Principles and working of Aero Engines - history of Aeromodelling - types of Aero models - Building and flying of Aero models - Pre flight checking - Start up, taxi and take off - forced landing techniques.					3
Course Outcome:	CO1:	Keep abreast of current affairs and general awareness.				
	CO2:	Observe and practice Arm drill with rifle and General salute.				
	CO3:	Follow healthy personal hygiene practices and provide first aid in emergencies.				
	CO4:	Observe and characteristics of Radar communication, SLR characteristics and functioning of tanks.				
	CO5:	Understand the principle and working of piston engine and jet engine. Aeromodeling procedures and flying controls.				

Reference:

1. UGC and AICTE circulated syllabus.

Text Books :

1. NCC cadet Guide (SD/SW) Army
2. NCC cadet Guide (SD/SW) Air force.
3. ANOs Guide (SD/SW) by DG NCC, Ministry of Defence, New Delhi
4. Digital Forum App 1.0 & 2.0, by DG NCC DG NCC, Ministry of Defence, New Delhi