Programme	Course Code	Course Title	L	T	P	C
B. E. / B.TECH.	24NCC04	COMMUNITY DEVELOPMENT AND AVIATION NAVIGATION	1	0	0	1
Course Objectives:		1. To learn about various rural development programs and their impact on community upliftment. 2. To understand the concept of social security and its role in ensuring the well-being of individuals and communities. 3. To recognize the significance of mobile security and best practices to protect personal data and devices. 4. To explore the use of maps in aviation and the importance of aviation medicine in maintaining the health. 5. To understand the importance of meteorology in aviation and explore the structure of the atmosphere.				

Unit	Description	Instructional Hours
I	**SOCIAL SERVICES CAPSULE**	3
	Basics of social services and its need – Rural development programs – NGOs in social services – Contribution of youth – Role of NCC – Swachh Bharat Abhiyan.	
II	**SOCIAL SERVICES AND COMMUNITY DEVELOPMENT**	3
	Introduction – Social security – Social evils – Beti Bachao-Beti Padhao – Mission Indradhanush – Digital India – Protection of children – Women safety.	
III	**SAFETY AND SECURITY**	3
	Road and Rail travel safety – New initiatives – Cyber security – Mobile security	
IV	**NAVIGATION AND AVIATION MEDICINE**	3
	Introduction to navigation – Requirement of navigation – Importance in aviation – Lines on earth – Maps – Introduction to aviation medicine – Hypoxia – Hyperventilation – Ear block – Flying fatigue.	
V	**METEOROLOGY AND ATMOSPHERE**	3
	Introduction to meteorology – Importance of meteorology in aviation – Composition of air – Atmosphere – Layers of atmosphere – Clouds and its classification – Precipitation and its types.	

Course Outcome:		
	CO1	Remember the fundamental concepts of social service and community engagement.
	CO2	Understand the key concepts related to social security, social evils and government welfare programs.
	CO3	Remember the fundamental principles of road and rail travel safety, cyber security and mobile security.
	CO4	Understand the fundamental concepts of navigation and significance of aviation medicine.
	CO5	Understand the fundamental concepts of meteorology and the structure of the atmosphere.

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.