

<b>22NC301</b>	<b>NCC COURSE-II</b>				<b>SEMESTER III</b>			
<b>PRE-REQUISITE:</b>			<b>CATEGORY</b>		<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
			<b>NC</b>		<b>3</b>	<b>0</b>	<b>0</b>	<b>3</b>
<b>Course Objectives:</b>								
1.	To maintain the unity and disciplines to the students							
<b>UNIT I</b>	<b>SOCIAL SERVICE &amp; COMMUNITY DEVELOPMENT</b>				<b>9</b>	<b>0</b>	<b>0</b>	<b>9</b>
Basic of social service and it's need - Rural Development Program – NGOs Roles & Contribution – Drug abuse and Trafficking – Civic Responsibilities – Causes & prevention of AIDS/HIV – Counter Terrorism – Corruption – Social Evil – RTI & RTE – Traffic Control Organization – Anti Drunken Driving.								
<b>UNIT II</b>	<b>GENERAL AWARENESS &amp; ADVENTURE</b>				<b>9</b>	<b>0</b>	<b>0</b>	<b>9</b>
General Knowledge – Logical & Analytical Reasoning - Modes of Entry to Army, CAPF, Police – SSB Procedure; Para Sailing – Slithering – Rock climbing – Cycling and Trekking.								
<b>UNIT III</b>	<b>AEROENGINES &amp; NAVIGATION</b>				<b>9</b>	<b>0</b>	<b>0</b>	<b>9</b>
Introduction to aero engines and its type – Components of aero engines – Principles of Propulsion – Basic Terminology – Jet engines – Brayton Cycle – Turbo prop engines and its types; Requirements of Navigation - Lines on Earth – Maps and its Types - Symbols Used in Map – Scales of Map – Map Reading Procedure and Its Aids.								
<b>UNIT IV</b>	<b>AIRFRAME &amp; METEOROLOGY</b>				<b>9</b>	<b>0</b>	<b>0</b>	<b>9</b>
Aircraft Control – Primary and Secondary –Fuselage – Main Plain and Tail Plain – Ailerons, Elevators & Rudders –Landing Gear; Importance of METT in Aviation – Atmosphere – Clouds and Precipitation – Flying Hazards.								
<b>UNIT V</b>	<b>FLIGHT INSTRUMENTS &amp; AEROMODELLING</b>				<b>9</b>	<b>0</b>	<b>0</b>	<b>9</b>
Airspeed Indicator – Altimeter – Artificial Horizon – Radar and Its Type – Instruments Battery Test, Compass; History of Aero Modeling – Basic Materials & Tools – Types of Aero Modelling – Flying/Building of Aero Models – General Safety Procedure.								
<b>Total (45L) = 45 Periods</b>								

<b>COURSE OUTCOMES:</b>		<b>Bloom's Taxonomy Mapped</b>
<b>Upon completion of the course, the students will be able to:</b>		
<b>CO1</b>	Acquired knowledge about social and legal responsibilities.	Understanding
<b>CO2</b>	Understand the adventure activities and verbal training on defence examinations.	Remembering and Understanding
<b>CO3</b>	Understand the technical knowledge on aero engines and map reading.	Understanding
<b>CO4</b>	Understand the structure and control of an aircraft.	Understanding
<b>CO5</b>	Understand and learn the importance of avionic instruments on aircraft control.	Remembering and Understanding

**COURSE ARTICULATION MATRIX**

<b>CO/POs</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>
<b>CO1</b>	3	1	0	0	0	0	0	0	0	0	0	0	3	1	1
<b>CO2</b>	3	3	2	3	0	0	0	0	0	0	0	0	3	2	1
<b>CO3</b>	3	2	3	1	0	2	0	0	0	0	0	0	3	2	1
<b>CO4</b>	3	2	2	2	0	0	0	0	0	0	0	0	3	2	1
<b>CO5</b>	3	0	0	0	0	1	0	0	0	0	0	0	3	3	1
<b>Avg</b>	<b>3</b>	<b>1.6</b>	<b>1.4</b>	<b>1.2</b>	<b>0</b>	<b>0.6</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>2</b>	<b>1</b>

3 / 2 / 1 – indicates strength of correlation (3 – High, 2 – Medium, 1 – Low)