

# NATIONAL CADET CORPS (N.C.C) – CLASS XII – (CODE: 076)

## Common Subjects

### **Unit-1 : National Integration and Awareness**

Aim: To inculcate sense of patriotism, secular values and motivate cadets to contribute towards nation building through national unity and social cohesion

Scope: The concepts of national interests, objectives and integration, unity in diversity and cultural heritage of India

- National Interests, Objectives, Threats and Opportunities
- Problems/ Challenges of National Integration

### **Unit-2 : Drill**

Aim: To inculcate a sense of discipline, improve bearing, smartness, and turnout and to develop the quality of immediate and implicit obedience of orders

Scope: All important basic aspects of drill including ceremonial drill, drill with arms and words of command

#### **Drill with Arms**

- Getting on parade with rifle and dressing at the order
- Dismissing and falling out
- Gun salute, Salami Shashtra
- Squad drill
- Short/long trail from the order and vice-versa
- Examine arms

#### **Ceremonial Drill**

- Guard Mounting

### **Unit-3 : Weapon Training**

Aim: To give elementary knowledge about rifles

Scope: Basic knowledge about rifle and firing

- The lying position, holding and aiming
- Trigger operation and firing a shot
- Range precautions and safety precautions
- Theory of group and snap shooting

### **Unit-4 : Personality Development and Leadership**

Aim: To develop an all-round dynamic personality with adequate leadership traits to deal/ contribute effectively in all walks of life

Scope: Basic subjects of leadership with emphasis on self-awareness, life/soft skills, time management and character building

- Self-Awareness-know yourself/ insight
- Inter personal relationship and communication
- Communication skills: group discussions/ lectures
- Time management
- Interview Skills
- Sociability: Social Skills

### **Unit-5 : Disaster Management**

Aim: To train Cadets to assist Civil administration in performance of selective duties during disasters

Scope: Basic information about civil defense organization and its duties, maintenance of essential services and providing assistance to civil administration in various types of emergencies during national disasters

- Fire Service and Fire Fighting
- Assistance during natural/ other calamities: Flood/ cyclone/ earthquake/ accident etc.

**Unit-6 : Social Awareness Community Development**

Aim: To teach cadets the values and skills involved in providing voluntary Social Service

Scope: Understanding of social service and its needs, knowledge about the weaker sections of our society and their requirements, about NGOs and contribution of youth towards social welfare

- NGOs – Role and contribution
- Drug abuse and trafficking
- Corruption
- Social evils viz. dowry/ female feticide/ child abuse and trafficking etc.

**Unit-7: Health and Hygiene**

Aim: To instill respect and responsibility towards personal health and hygiene

Scope: Basic information about maintenance of health and hygiene, sanitation, disease and an elementary knowledge of First Aid and Nursing

- Hygiene and sanitation (Personal and Food Hygiene)
- Basics of first aid in common medical emergencies
- Wounds and fractures

**Unit-8 : Adventure Training and Obstacle Training**

Aim: To inculcate a sense of adventure and develop confidence, courage and determination

Scope: To expose cadets to various adventure activities

- Para sailing

**Unit-9 : Environment Awareness and Conservation**

Aim: To sensitize the cadets on natural resource conservation and protection of environment

Scope: Basic understanding of environment in general and waste management in particular, energy conservation, pollution control and wildlife conservation in particular

- Waste management
- Pollution control water, air, noise, soil

## **Specialized Subject (Army)**

**Unit-1 :Armed Forces**

Aim:ToacquaintcadetswiththeArmedForces

Scope:IntroductoryandgeneralinformationabouttheArmedForces

- Modesofentryintoarmy
- Honours and awards

**Unit-2 : Map Reading**

Aim: To teach cadets elementary map reading

Scope: Basic understanding of map sheets and map reading instruments and development of capability to use them to carry out simple map reading

- Cardinal points and types of North
- Types of bearings and use of service protractor
- Setting a map, finding North and own position

**Unit-3 : Field Craft and Battle Craft**

Aim: To teach cadets elementary field craft and battle craft

Scope: Basic field craft and battle craft

- Judging distance observation, camouflage and concealment
- Field signals

**Unit-4 : Introduction to Infantry Weapons and Equipment**

Aim: To introduce cadets to infantry weapon

Scope: Introduction to characteristics and capabilities of infantry weapons

- Characteristics of 5.56 INSAS rifle, ammunition, firepower, stripping, assembling and cleaning
- Organization of infantry battalion

**Unit-5 : Military History**

Aim: To provide knowledge of renowned Military Generals, PVCs and Indo-Pak Wars

Scope: Introduction to biographies, famous Indian battles and gallantry awards

- Indian Army War Heroes
- Study of Indo Pak wars of 1965, 1971 and Kargil

**Unit-6 : Communication**

Aim: To introduce cadets to latest trends in the field of communications

Scope: Types of communications and future trends

- Characteristics of walkie-talkie

### **Specialized Subject (Navy)**

**Unit-1 : Naval Orientation and Service Subjects**

Aim: To impart basic knowledge about Navy

Scope: Basic knowledge, history, current organization and role of different branches

- Organization of Ships and on board organization
- Naval customs and traditions
- Modes of entry into the Indian Navy

**Unit-2 : Naval War fare and its Components**

Aim: To impart basic knowledge about Naval Warfare

Scope: Overview of fleet operations to include aviation, submarine operations and missiles

- Introduction to anti-submarine warfare

**Unit-3 : Naval Communication**

Aim: To impart basic knowledge about Naval communication

Scope: To impart basic knowledge about naval communication organization, semaphore and wearing of flags

- Introduction to Semaphore
- Phonetic Alphabets

**Unit-4 : Navigation**

Aim: To impart basic knowledge about navigation

Scope: Basic navigation tactics and methods and equipment used for navigation

- Navigation of ships–basic requirements
- Types of compass–gyro and magnetic, types of North
- Simple chart work
- Brief characteristics of its tides and its effects on ships

**Unit-5 : Seamanship**

Aim: To impart basic knowledge about navigation

Scope: Basic navigation tactics and methods

- Types of anchor, purpose and holding ground

**Unit-6 : Boat Work**

Aim: To impart basic knowledge about boats and its parts and steering of boats

Scope: Introduction to boats and its parts including steering of boats and boat pulling

- Demonstrate rigging of a whaler and enterprise boat and parts of a sail
- Instructions in enterprise class boat including elementary sailing rules

**Unit-7 : Fire Fighting, flooding and damage control**

Aim: Introduction to fire-fighting, flooding and damage control

Scope: Impart basic knowledge about fire-fighting, flooding and damage control of a ship

- Causes of damage, flooding and damage control

**Unit-8 : Ship and boat modeling**

Aim: To impart basic knowledge about ship modeling to cadets

Scope: To impart basic knowledge about ship construction and boat modeling.

- Types of models
- Ship model competition
- Care and handling of power tools

## **Specialized Subject (Air Force)**

**Unit-1 : General Service Knowledge**

Aim: To impart basic knowledge of IAF

Scope: Organization of IAF

- Organization of Air Force
- Branches of Air Force

**Unit-2 : Air Campaigns**

Aim: To introduce Air Campaigns of Air Force

Scope: An overview of important campaigns

- Indo Pak War 1971
- OP SafedSagar

**Unit-3 :Aircraft Recognition**

Aim: To introduce various aircrafts of the Air Force

Scope: Types, roles, variants of aircraft of the IAF

- Fighters
- Transports
- Helicopters

**Unit-4 : Principles of Flight**

Aim: To introduce principles of flight

Scope: To impart knowledge about basic principles on which aviation is based

- Bernauli's theorem and Venturi Effect
- Aerofoil
- Forces on an aircraft

**Unit-5 : Airmanship**

Aim: To introduce the concept of airmanship

Scope: ATC Procedures and basics of aviation medicine

- ATC/RT Procedure
- Aviation Medicine

**Unit-6 : Navigation**

Aim: To give basic knowledge of Air navigation

Scope: Fundamentals of map reading from the air

- Requirement of navigation
- Glossary of terms

**Unit-7 : Meteorology**

Aim: To emphasize the need for knowledge of meteorology in aviation.

Scope: Importance, various phenomena of weather and its effects on aviation

- Importance of met in aviation

**Unit-8: Aero engines**

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**Unit-9 : Air frames**

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**Unit-10 : Instruments**

Aim: To provide knowledge of aircraft instruments

Scope: Introduction to Radars

**Unit-11 : Aero-modeling**

Aim: To provide knowledge about aero modeling

Scope: Materials used in different types of models.

Building /Flying of aero-models