

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

Class XII (2024-25) Max Marks - 70

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: To acquaint cadets with the Armed Forces Scope: Introductory and general information about the Armed Forces • Modes of entry in to army • 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 Warfare 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 Safed Sagar

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

Whole Unit deleted

Unit-9 : Air frames

Whole Unit deleted

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