

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

Class XI (2024-25) Max Marks - 70

Common Subjects

Unit-1 : The NCC <ul style="list-style-type: none">• Aims and Objectives of NCC• Organization and Training and NCC Song• Incentives
Unit-2 : National Integration and Awareness <ul style="list-style-type: none">• National Integration: Importance and Necessity• Freedom Struggle and Nationalist Movement in India
Unit-3 : Drill <ul style="list-style-type: none">• Foot Drill• Arm Drill
Unit-4 : Weapon Training <ul style="list-style-type: none">• Characteristics of a rifle and its ammunition• Stripping, assembling, care and cleaning of 22 Rifle• Loading, cocking and unloading• Different positions for holding and aiming
Unit-5 : Personality Development and Leadership <ul style="list-style-type: none">• Introduction to Personality development• Communication skills• Leadership traits• Time management
Unit-6 : Disaster Management and Civil Affairs <ul style="list-style-type: none">• Types of Emergencies and Natural Disasters• Assistance during natural and other calamities: Floods, Cyclones, Earthquakes, Accidents
Unit-7 : Social Awareness Community Development <ul style="list-style-type: none">• Basics of Social Service and its needs• Contribution of youth towards social welfare• Civic responsibilities
Unit-8: Health and Hygiene <ul style="list-style-type: none">• Hygiene and sanitation• Infectious and contagious diseases and its prevention
Unit-9 : Adventure and Obstacle Training <ul style="list-style-type: none">• Obstacle training
Unit-10 : Environment Awareness and Conservation <ul style="list-style-type: none">• Natural resources – conservation and management• Water conservation and rain water harvesting

Specialized Subject (Army)

Unit 1: Armed Forces

Aim: To acquaint cadets with the Armed Forces

Scope: Introductory and general information about the Armed Forces

- Basic organization of Armed Forces
- Organization of the Army

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

- Introduction to types of Maps and conventional signs
- Scales and grid system
- Topographical forms and technical terms
- Types of bearings and use of service protractor
- Prismatic compass and its use and GPS

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
- Description of ground

Unit-6 : Communication

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

Scope: Types of communications and future trends

- Types of communication
- Characteristics of wireless technology (mobile, Wi-Fi etc.)

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

- Biographies of renowned generals (Carriappa/ Manekshaw)

Unit-6 : Communication

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

Scope: Types of communications and future trends

- Types of communication
- Characteristics of wireless technology (mobile, Wi-Fi etc.)

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

- History of the Navy – pre and post-independence, gallantry award winners
- Organization of the Navy, NHQ, commands and fleets
- Types of War ships and role
- Rank of officers and sailors and their equivalent in other services

Unit-2 : Naval Communication

Aim: To impart basic knowledge about naval communication

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

- Introduction to modern naval communication, purpose and principles

Unit-3: Seamanship

Aim: To impart basic knowledge about navigation

Scope: Basic navigation tactics and methods

- Parts of Anchor, cable and its identification

Unit-4 : Rigging

Aim: To impart basic knowledge about ropes, rigging and shackles

Scope: Basic rope work and introduction to ropes, bends and hitches

- Types of ropes and breaking strength – stowing, maintenance and securing
- Practical bends and hitches

Unit-5 : 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

- Parts of a boat and parts of an oar
- Instructions on boat pulling

Unit-6 : Ship and Boat Modeling

Aim: To impart basic knowledge about ship modelling to the cadets

Scope: To impart basic knowledge about ship construction and boat modelling

- Principles of Ship Modelling

Unit-7 : Search and Rescue

Aim: To impart basic knowledge about search and rescue

Scope: To impart knowledge about SAR organization and role of Coast Guard

- SAR Organization in the Indian Ocean

Specialized Subject (Air Force)**Unit-1: General Service Knowledge**

Aim: To impart basic knowledge of IAF

Scope: History and Organization of IAF

- Development of Aviation
- History of IAF

Unit-2 : Principles of Flight

Aim: To introduce principles of flight

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

- Laws of Motion
- Glossary of Terms

Unit-3 : Airmanship

Aim: To introduce the concept of airmanship

Score: Airfield layout, Rules of the air, ATC procedures and basics of aviation medicine

- Airfield Layout
- Rules of the Air

- Circuit Procedure

Unit-4 : Aero Engines

Aim: To introduce basic knowledge of aero engines

Scope: Introduction to aero engines

Unit-5 : Air frames

Aim: To introduce basic structure of an aircraft

Scope: Introduction to various aircraft controls and landing gear

- Aircraft Controls
- Landing Gear

Unit-6 : Instruments

Aim: To provide knowledge of aircraft instruments

Scope: To teach basics about flight instruments

- Basic flight instruments

Unit 7:AircraftParticulars

Aim: To provide knowledge of aircraft Instruments

Scope: Knowledge about the aircraft to be flown including checks and procedures

- Aircraft particular type specific

Unit-8 : Aero-modeling

Aim: To provide knowledge about aero modelling

Scope: History of aero modelling, materials used in different types of models

- History of Aero-modelling
- Types of aero-models

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 Shastra
- 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

<ul style="list-style-type: none"> • Organization of infantry battalion
<p>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</p> <ul style="list-style-type: none"> • Indian Army War Heroes • Study of Indo Pak wars of 1965, 1971 and Kargil
<p>Unit-6 : Communication Aim: To introduce cadets to latest trends in the field of communications Scope: Types of communications and future trends</p> <ul style="list-style-type: none"> • Characteristics of walkie-talkie

Specialized Subject (Navy)

<p>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</p> <ul style="list-style-type: none"> • Organization of Ships and on board organization • Naval customs and traditions • Modes of entry into the Indian Navy
<p>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</p> <ul style="list-style-type: none"> • Introduction to anti-submarine warfare
<p>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</p> <ul style="list-style-type: none"> • Introduction to Semaphore • Phonetic Alphabets
<p>Unit-4 : Navigation Aim: To impart basic knowledge about navigation Scope: Basic navigation tactics and methods and equipment used for navigation</p> <ul style="list-style-type: none"> • 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
<p>Unit-5 : Seamanship Aim: To impart basic knowledge about navigation Scope: Basic navigation tactics and methods</p> <ul style="list-style-type: none"> • Types of anchor, purpose and holding ground
<p>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</p> <ul style="list-style-type: none"> • 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