

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

2021-2022

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)

| |
|--|
| <p>Unit 1: Armed Forces Aim: To acquaint cadets with the Armed Forces Scope: Introductory and general information about the Armed Forces</p> <ul style="list-style-type: none">• Basic organization of Armed Forces• Organization of the Army |
| <p>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</p> <ul style="list-style-type: none">• 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• |
| <p>Unit -3 Field Craft and Battle Craft Aim: To teach cadets elementary field craft and battle craft Scope: Basic field craft and battle craft</p> <ul style="list-style-type: none">• Judging distance• Description of ground |
| <p>Unit-6 : Communication Aim: To introduce cadets to the latest trends in the field of communications Scope: Types of communications and future trends</p> <ul style="list-style-type: none">• Types of communication• Characteristics of wireless technology (mobile, Wi-Fi etc.) |
| <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">• Biographies of renowned generals (Carriappa/Manekshaw) |
| <p>Unit-6 : Communication Aim: To introduce cadets to the latest trends in the field of communications Scope: Types of communications and future trends</p> <ul style="list-style-type: none">• Types of communication• Characteristics of wireless technology (mobile, Wi-Fi etc.) |

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">• 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 |
| <p>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</p> <ul style="list-style-type: none">• Introduction to modern naval communication, purpose and principles |

| |
|---|
| <p>Unit-3: Seamanship Aim: To impart basic knowledge about navigation Scope: Basic navigation tactics and methods</p> <ul style="list-style-type: none"> • Parts of Anchor, cable and its identification • |
| <p>Unit-4 : Rigging Aim: To impart basic knowledge about ropes, rigging and shackles Scope: Basic rope work and introduction to ropes, bends and hitches</p> <ul style="list-style-type: none"> • Types of ropes and breaking strength – stowing, maintenance and securing • Practical bends and hitches |
| <p>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</p> <ul style="list-style-type: none"> • Parts of a boat and parts of an oar • Instructions on boat pulling |
| <p>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</p> <ul style="list-style-type: none"> • Principles of Ship Modelling |
| <p>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</p> <ul style="list-style-type: none"> • SAR Organization in the Indian Ocean |

Specialized Subject (Air Force)

| |
|---|
| <p>Unit-1: General Service Knowledge Aim: To impart basic knowledge of IAF Scope: History and Organization of IAF</p> <ul style="list-style-type: none"> • Development of Aviation • History of IAF |
| <p>Unit-2 : Principles of Flight Aim: To introduce principles of flight Scope: To impart knowledge about basic principles on which aviation is based</p> <ul style="list-style-type: none"> • Laws of Motion • Glossary of Terms |
| <p>Unit-3 : Airmanship Aim: To introduce the concept of airmanship Scope: Airfield layout, Rules of the air, ATC procedures and basics of aviation medicine</p> <ul style="list-style-type: none"> • Airfield Layout • Rules of the Air • Circuit Procedure |
| <p>Unit-4 : Aero Engines Aim: To introduce basic knowledge of aero engines Scope: Introduction to aero engines</p> |
| <p>Unit-5 : Air frames Aim: To introduce basic structure of an aircraft</p> |

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) – CLASS XII – (CODE: 076)

2021-2022

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

| |
|---|
| <ul style="list-style-type: none"> • Assistance during natural/ other calamities: Flood/ cyclone/ earthquake/ accident etc. |
| <p>Unit-6 : Social Awareness Community Development</p> <p>Aim: To teach cadets the values and skills involved in providing voluntary Social Service</p> <p>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</p> <ul style="list-style-type: none"> • NGOs – Role and contribution • Drug abuse and trafficking • Corruption • Social evils viz. dowry/ female feticide/ child abuse and trafficking etc. |
| <p>Unit-7: Health and Hygiene</p> <p>Aim: To instill respect and responsibility towards personal health and hygiene</p> <p>Scope: Basic information about maintenance of health and hygiene, sanitation, disease and an elementary knowledge of First Aid and Nursing</p> <ul style="list-style-type: none"> • Hygiene and sanitation (Personal and Food Hygiene) • Basics of first aid in common medical emergencies • Wounds and fractures |
| <p>Unit-8 : Adventure Training and Obstacle Training</p> <p>Aim: To inculcate a sense of adventure and develop confidence, courage and determination</p> <p>Scope: To expose cadets to various adventure activities</p> <ul style="list-style-type: none"> • Para sailing |
| <p>Unit-9 : Environment Awareness and Conservation</p> <p>Aim: To sensitize the cadets on natural resource conservation and protection of environment</p> <p>Scope: Basic understanding of environment in general and waste management in particular, energy conservation, pollution control and wildlife conservation in particular</p> <ul style="list-style-type: none"> • Waste management • Pollution control water, air, noise, soil |

Specialized Subject (Army)

| |
|--|
| <p>Unit-1 :Armed Forces</p> <p>Aim:ToacquaintcadetswiththeArmedForces</p> <p>Scope:IntroductoryandgeneralinformationabouttheArmedForces</p> <ul style="list-style-type: none"> • Modesofentryintoarmy • Honours and awards |
| <p>Unit-2 : Map Reading</p> <p>Aim: To teach cadets elementary map reading</p> <p>Scope: Basic understanding of map sheets and map reading instruments and development of capability to use them to carry out simple map reading</p> <ul style="list-style-type: none"> • Cardinal points and types of North • Types of bearings and use of service protractor • Setting a map, finding North and own position |
| <p>Unit-3 : Field Craft and Battle Craft</p> <p>Aim: To teach cadets elementary field craft and battle craft</p> <p>Scope: Basic field craft and battle craft</p> <ul style="list-style-type: none"> • Judging distance observation, camouflage and concealment • Field signals |
| <p>Unit-4 : Introduction to Infantry Weapons and Equipment</p> <p>Aim: To introduce cadets to infantry weapon</p> <p>Scope: Introduction to characteristics and capabilities of infantry weapons</p> |

| |
|--|
| <ul style="list-style-type: none"> • Characteristics of 5.56 INSAS rifle, ammunition, firepower, stripping, assembling and cleaning • Organization of infantry battalion |
| <p>Unit-5 : Military History</p> <p>Aim: To provide knowledge of renowned Military Generals, PVCs and Indo-Pak Wars</p> <p>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</p> <p>Aim: To introduce cadets to latest trends in the field of communications</p> <p>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</p> <p>Aim: To impart basic knowledge about Navy</p> <p>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</p> <p>Aim: To impart basic knowledge about Naval Warfare</p> <p>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</p> <p>Aim: To impart basic knowledge about Naval communication</p> <p>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</p> <p>Aim: To impart basic knowledge about navigation</p> <p>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</p> <p>Aim: To impart basic knowledge about navigation</p> <p>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</p> <p>Aim: To impart basic knowledge about boats and its parts and steering of boats</p> <p>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 |
| <p>Unit-7 : Fire Fighting, flooding and damage control</p> <p>Aim: Introduction to fire-fighting, flooding and damage control</p> <p>Scope: Impart basic knowledge about fire-fighting, flooding and damage control of a ship</p> |

- 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

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