

**(G) NATIONAL CADET CORPS (Code No. 076)
SYLLABUS (2017-18)**

1. The training curriculum of the NCC is primarily focused on character building, inculcating leadership qualities and skill enhancement through structured academic syllabi, practical training and opportunity for exposure/interaction beyond a cadets' immediate environment, and thereby enabling them for a brighter and progressive future.
2. The Aims of NCC:
 - (a) To develop character, comradeship, discipline, secular outlook, spirit of adventure and the ideals of selfless service amongst the youth of the country.
 - (b) To create a human resource of organized, trained and motivated youth to provide leadership in all walks of life and always available for the service of the nation.
 - (c) To provide a suitable environment to motivate the youth to take up a career in the Armed Forces.
3. Conduct of NCC Training Curriculum
 - (a) Institutional Training: Conducted in respective schools/ colleges by Associate NCC Officers (ANO), Permanent Instructional (PI) staff as part of the school curriculum.
 - (b) Annual Training Camps (ATC): To provide practical outdoor training, each NCC cadet attends 10 days camp in the second year of junior and senior division. These camps are conducted by respective NCC units.
 - (c) Centrally Organized Camps (COC): These camps are conducted at all India level, as National Integration Camps, attended by cadets from all states.
 - (d) Adventure Training: To inculcate a spirit of adventure and team work, NCC cadets undergo various adventure activities such as para jumps, para sailing, trekking, mountaineering and sailing expeditions.
 - (e) Attachment Camps: To give the cadets exposure to interact with Regular Army, Navy and Air Force units, attachment camps are conducted, where cadets are attached with these units. To motivate cadets to join the Armed Forces attachment of cadets with Indian Military Academy is also conducted.
 - (f) Youth Exchange Programme (YEP): Selected cadets also get an opportunity to visit various foreign countries as part of YEP. In one year approximately 100 cadets visit 10 -11 countries.
 - (g) Social Service Activities: The cadets also undertake various social service activities, by conduct of rallies to bring awareness and participate in various relief programmes/activities whenever called for.

4. Trainers : To conduct and implement the NCC training curriculum, there are three tiers of trainers.
- First Tier: Regular defence officers of the rank of Colour equivalent rank in Air Force and Navy, Whole Time Lady Officers (WTLO) and Civilian Gliding Instructors (CGI). They are responsible for coordination and supervision of training and conduct of camps.
 - Second Tier: Professors and teachers nominated by respective schools and colleges and trained by NCC at its NCC Officers Training Academy and on completion of Pre-Commission Course, commissioned as Associated NCC Officer (ANO) form the most important link between the cadets and NCC.
They conduct most of the theory classes of non-specialized subjects. Besides, the Pre Commission training they attend refresher courses.
 - Third Tier: The Junior Commissioned Officers (JCO) and Non-Commissioned Officers (NCO) from the three services and Girl Cadet Instructors (GCI) and Ship Model Instructors (SMI) conduct the specialized training of the cadets.
5. Eligibility for Enrolment as Cadet.
- Should be a citizen of India or a subject of Nepal.
 - Should be on the roll of the school or college which has an NCC Unit or part thereof.
 - The cadet should be within the age as mentioned below:-
 - Junior Division - Not less than 13 years and below 18 years and 6 months.
 - Senior Division - Should be below 26 years.
6. NCC Syllabus. The syllabus includes common subjects for all three wings and specialized subjects with respect to Army, Air Force and Navy. The common subjects comprise of approximately 70% and specialized service is 30% of the curriculum. Detailed syllabus is as follows:

S. No.	Subject	No of Periods			
		First Year	Second Year	Third Year	Total
Senior Division Wing					
(i)	Common Subjects	66	72	72	210
(ii)	Specialised Subjects	24	33	33	90
	Total	90	105	105	300
Junior Division Wing					
(a)	Common Subjects	85	85	--NA--	170
(b)	Specialised Subject	35	35		70
	Total	120	120		240

7. In addition to this syllabus, cadets attend one Annual Training Camp in the second year of junior and senior division to be eligible to appear in Part A and Part B certificate examination.
- 8 Cadets willing to pursue Part C Certificate will have to attend the third year senior division in the college.

Evaluation System

9. NCC presently conducts three certificate examinations, these evaluations are conducted as a written paper for theory and practical in the second year of junior division for Part 'A' and in the second and third year of senior division for Part 'B' and 'C'. The setting of papers and evaluation for Part 'A' and 'B' examinations are done by a board of officers at NCC Group Head Quarters headed by an officer of the rank of Brigadier and Part 'C' Examination at NCC state Directorate level headed by a officer of the rank of Major General.
10. Recommended evaluation pattern for NCC as an additional / elective subject in the schools affiliated to CBSE is as follows:
 - (a) Internal Examinations for class IX (JD) and class XI (SD) be conducted by respective ANO's and PI staff under the supervision of respective Commanding Officers of the NCC unit. Marks to be included in the cadets' report card by the concerned school.
 - (b) Part 'A' examination paper to be set at state Directorate level and evaluated by Board of Officers at Group Headquarters. Copy of the result in respect of CBSE schools be forwarded to CBSE Board as performance evaluation of class X cadet.
 - (c) Part 'B' examination paper be set at HQ DG NCC level and evaluated by the Board of Officers at the Group Headquarters. A copy of the result in respect of CBSE schools to be forwarded to CBSE Board as performance evaluation of class XII cadets. The result sheet in addition to the NCC cadet number will also have the CBSE roll number. The marks obtained to be included in the CBSE Board certificate and 'C' Certificate to be issued by the concerned State Directorate.
 - (d) Part 'A' and 'B' exams to be conducted in the month of February, before the commencement of the main exams of the students. Respective exams to be conducted on a same date all over India. The schedule of examination to be approved by HQ, DG, NCC and forwarded to CBSE for inclusion in the examination schedule.
11. Study Material
 - (a) Textbooks
 - (i) Cadet Hand Book (Common Subjects), published by DG NCC.
 - (ii) Cadet Hand Book (Specialized Subjects), published by DG NCC.
 - (iii) ANO Précis

- (b) Reference Books
- (i) Grooming Tomorrow's Leaders, published by DG, NCC.
 - (ii) Youth in Action, published by DG, NCC.
 - (iii) The Cadet, Annual Journal of the NCC.
 - (iv) Précis Issued by respective Service Headquarters on specialized subject available to PI Staff as reference material.

JUNIOR DIVISION SYLLABUS FOR CLASS IX AND X

Rationale

1. The NCC training curriculum is structured in a manner to instil in the cadets qualities like nationalism, patriotism, discipline, team spirit, esprit-de-corps, leadership, self confidence, national integration and improve their personality. The training is conducted with the following specific purpose:-
 - (a) To expose young cadets to a regimental way of life, which is essential to inculcate in them the values of discipline, duty, punctuality, orderliness, smartness, and respect for authority, correct work ethos and self-confidence.
 - (b) To generate interest in cadets by including and laying emphasis on those aspects of institutional training which attract youth and provide them an element of thrill and excitement.
 - (c) To inculcate Defence Services work ethos, which is characterized by hard work, sincerity of purpose, honesty, ideals of selfless service, dignity of labour, secular outlook, comradeship, spirit of adventure and sportsmanship.

Objectives

- Motivate young dynamic youth to serve the nation.
- Inculcate unity and discipline amongst citizens.
- Promote leadership and make self-reliant citizens.
- Prepare a volunteer force to participate during national disasters.
- Raise awareness to live with principles and values.
- Gain a glimpse and overview of armed forces.
- Develop a sense of national integration.
- Create awareness about social causes and community development.
- Inculcate sportsmanship and spirit of adventure.
- Learn about road safety and traffic control
- Learn about life saving and first aid.

CLASS - IX
Block Syllabus

Sl No.	Unit	Marks	Periods
Part 1: Common Subjects			
1	The NCC	08	03
2	National Integration and Awareness		07
3	Civil Affairs		04
4	Drill	25	19
5	Weapon Training		16
6	Adventure Training and Obstacle		8
7	Personality Development and Leadership	16	10
8	Social Awareness and Community Development		08
9	Health and Hygiene		06
10	Environment Awareness and Conservation		02
	Total	49	83
Part 2 A: Special Subjects (Army)		Marks	Periods
1	Armed Forces	04	04
2	Military History		06
3	Map Reading	17	13
4	Field Craft and Battle Craft		09
5	Communication		03
	Total	21	35
Part 2 B: Special Subjects (Navy)		Marks	Periods
1	Naval Orientation	11	17
2	Naval communication		04
3	Seamanship	10	12
4	Ship and Boat Modelling		02
	Total	21	35
Part 2 C: Special Subjects (Air Force)		Marks	Periods
1	General Service Knowledge	12	05
2	Air Campaigns		02
3	Aero Modelling		08
4	Principle of Flight	09	09
5	Parts of Aircraft		02
6	Aircraft Particulars		01
7	Air Field Layout		01
8	RT Procedure		02
	Total	21	30

COMMON SUBJECTS (Detailed Syllabus)

Total Marks: 49

Total Periods: 83

Unit 1: The NCC

03 Periods

Aim: To acquaint cadets with the aims and objectives of NCC

Scope: Introduction, aims, organization and general information about NCC.

- Aims and Objectives of NCC.
- Organisation and Training and NCC Song
- Incentives of Joining NCC

Unit 2: National Integration and Awareness

07 Periods

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.

- Religions, Culture, Traditions and Customs of India
- National Integration: Importance and Necessity
- Freedom Struggle and Nationalist Movement in India.
- Problems/ Challenges of National Integration.
- Unity in Diversity.
- Famous Leaders of India
- Images/ Slogans for National Integration
- Contribution of Youth to Nation Building

Unit 3: Civil Affairs

04 Periods

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

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

- Civil Defence Organization and its duties/ NDMA
- Types of emergencies/ Natural Hazards
- Role of NCC during Natural Hazards/ Calamities
- Civil Administrative Set up at District/Taluk/Village
- Fire service and fire Fighting
- Essential services and their maintenance

Unit 4: Drill**19 Periods**

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

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

Drill without Arms

- General and Words of Command
- Attention, Stand at Ease and Stand Easy, turning and inclining at the halt
- Sizing, forming up in three ranks and numbering, open and close order march and dressing
- Saluting at the halt
- Getting on parade, dismissing and falling out
- Marching, length of pace and time of marching in quick time and halt, slow march and halt
- Turning on the march and wheeling
- Saluting on the March Individual word of command

Unit 5: Weapon Training**16 Periods**

Aim: To give elementary knowledge about rifles.

Scope: Basic Knowledge about rifle and firing.

- Characteristics of a rifle/ rifle ammunition and its fire power
- Stripping, assembling, care and cleaning and sight setting
- Loading, cocking and unloading
- The lying position and Holding
- Aiming, range and figure target
- Trigger control and firing a shot
- Range precautions and safety precautions
- Short range firing

Unit 6: Adventure Training**08 Periods**

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

Scope: To expose cadets to various adventure activities.

- Trekking including selection of route and administration planning
- Cycle expedition including selection of route and administration planning
- Rock climbing

Unit 7: Personality Development and Leadership**10 Periods**

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.

- Introduction to Personality development
- Factors influencing/shaping personality: Physical, Social, Psychological and philosophical
- Self Awareness - know yourself
- Critical and creative thinking
- Communication skills: group discussions/lectures
- Self confidence, courage & self conviction
- Effects of leadership with historical examples
- Problem solving skills
- Interview skills
- Importance of group and team work
- Effective use of time
- Coping with stress / emotions
- Sociability: social skills
- Characteristics of healthy personalities - ethics/values

Unit 8: Social Awareness Community Development**08 Periods**

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.

- Basics of Social service, and its needs
- Social/ Rural Development Projects: MNREGA, SGSY, NSAP etc.
- Literacy enhancement and poverty alleviation
- Contribution of youth towards social welfare
- Civic responsibilities
- Drug abuse and trafficking
- Causes and prevention of HIV/AIDS, Role of Youth
- Corruption
- Social evils viz dowry/female foeticide/child abuse and trafficking etc

- Traffic control organization and anti drunken driving
- Provisions of child Act

Unit 9: Health and Hygiene

06 Periods

Aim: To instil respect and responsibility towards personal health and hygiene.

Scope: Basic information of the human body, maintenance of health, hygiene, sanitation, disease and an elementary knowledge of First Aid and Nursing.

- Structure and functioning of the human body
- Hygiene and sanitation (Personal and Food Hygiene)
- Physical and mental health
- Infectious and contagious diseases and its prevention
- Basics of first aid in common medical emergencies
- Wounds and fractures
- Introduction to yoga and exercise

Unit 10: Environment Awareness and Conservation

02 Periods

Aim: To sensitise 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.

- Natural resources - conservation and management
- Water conservation and rain water harvesting
- Waste management
- Pollution control, water, air, noise, soil
- Wildlife conservation: projects in India

SPECIALISED SUBJECTS (ARMY)

Total Marks: 21

Total Periods: 35

Unit 1: Armed Forces

04 Periods

Aim: To acquaint cadets with the Armed Forces

Scope: Introductory and general information about the Armed Forces

- Basic organization of Armed Forces
- Organisation of the Army
- Badges and Ranks
- Honours and Awards
- Modes of entry into Army
- Fighting Arms
- Supporting Arms and Services

Unit 2: Military History

06 Periods

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)
- Indian Army War Heroes
- Study of battles of Indo-Pak war 1965, 1971 and Kargil
- War movies

Unit 3: Map Reading

13 Periods

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
- Relief, contours and gradients
- Cardinal points and Types of North

Unit 4: Field Craft and Battle Craft

09 Periods

Aim: To teach cadets elementary field craft and battle craft

Scope: Basic field craft and battle craft

- Introduction

- Judging distance
- Description of ground
- Recognition, description and indication of land marks and targets
- Observation, camouflage and concealment
- Field signals
- Use of ground and movement
- Selection of formations
- Knots and Lashing

Unit 5: Communication**03 Periods**

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

Scope: Types of communications and future trends

- Importance of communication
- Means of communication
- Modern methods of communication

SPECIALIZED SUBJECTS (NAVY)

Total Marks: 21 Total

Periods: 35

Unit 1: Naval Orientation**17 Periods**

Aim: To impart training on Naval Organization.

Scope: History of Indian Naval Organizations, Rank structure, Indo-Pak War- 1971 etc.

- History of the Indian Navy (Gallantry Award Winners)
- Organization of IN - NHQ, Commands and Ships
- Main Parts of a Ship
- Types of Warships and Role - A/C Carriers, Submarines, Destroyers, and Frigates
- Organization on Board a Ship
- Survival and Rescue - Life Safety Items on board Ship, Life Raft, Life Boats and Distress Signals

Unit 2: Naval Communication**04 Periods**

Aim: To impart basic knowledge of Naval Communication.

Scope: Introduction to visual communication.

- Introduction to Naval Communication
- Semaphore, use of semaphore, introduction of various letter position, Reading of semaphore message, Transmission of semaphore message
- Phonetic Alphabet - Introduction and use

Unit 3: Seamanship**12 Periods**

Aim: To impart basic knowledge about Seamanship.

Scope: Introduction to rigging, anchor work, parts of boats and accessories etc.

- Rigging
- Bends and Hitches: Reef Knot, Half Hitch, Clove Hitch, Rolling Hitch, Timber Hitch, Bow line, Round Turn and Two Half Hitches and Bow Line on the Bight and its basic element
- Anchor and Anchor Cable- Types of anchors and cable its use

Unit 4: Ship and Boat Modelling**02 Periods**

Aim: To provide knowledge about Ship Modelling

Scope: Materials used in different types of models

- Principles of Ship Modelling
- Reading of a Ship Drawing of a Model
- Views in blue print
- Measurement of superstructure and hull

SPECIALIZED SUBJECTS (AIR FORCE)

Total Marks: 20 Total

Periods: 30

Unit 1: General Service Knowledge**05 Periods**

Aim: To impart basic knowledge of IAF

Scope: History and Organization of IAF

- Development of Aviation.
- History of IAF

Unit 2: Air Campaigns**02 Periods**

Aim: To impart basic knowledge of Air Campaigns

Scope: History and Motivation.

- Indo-Pak War-1971
- Operation Safed Sagar
- Motivational Movies

Unit 3: Aero-modelling**08 Periods**

Aim: To provide knowledge about Aero Modelling

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

- History of Aero-modelling

- Materials used in Aero-modelling
- Types of Aero-models
- Building /Flying of Aero-models

Unit 4: Principles of Flight

09 Periods

Aim: To introduce principles of flight

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

- Introduction
- Laws of Motion
- Glossary of Terms

Unit 5: Parts of Aircraft

02 Periods

Aim: To provide knowledge of Aircraft Parts

Scope: Knowledge about the parts of aircraft to be flown

- Parts of Aircraft

Unit 6: Aircraft Particulars

01 Periods

Aim: To provide knowledge of Aircraft Instruments

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

- Aircraft Particular Type, Specific

Unit 7: Airfield Layout

01 Periods

Aim: To provide knowledge of Airfields

Scope: Knowledge about the airfields to be flown including checks and procedures
Airfield Layout

Unit 8: RT Procedure

02 Periods

Aim: To provide knowledge of wireless communication.

Scope: Knowledge about the communication is required for flying aircraft

- RT Procedure

Class - X (Block Syllabus)

Sl No.	Unit	Marks	Periods
Part 1: Common Subjects			
1	The NCC	07	01
2	National Integration and Awareness		08
3	Disaster Management		04
4	Drill	27	21
5	Weapon Training		14
6	Adventure Training and Obstacle		04
7	Personality Development and Leadership	15	14
8	Social Awareness and Community Development		07
9	Health and Hygiene		07
10	Environment Awareness and Conservation		03
	Total	49	83
Part 2 A: Special Subjects (Army)		Marks	Periods
1	Armed Forces	04	05
2	Military History		05
3	Map Reading	17	11
4	Field Craft and Battle Craft		11
5	Communication		03
	Total	21	35
Part 2 B: Special Subjects (Navy)		Marks	Periods
1.	Naval Orientation	07	07
2.	Naval Communication		04
3.	Seamanship	14	12
4.	Navigation		06
5.	Ship and Boat Modelling		06
	Total	21	35
Part 2 C: Special Subjects (Air Force)		Marks	Periods
1	Air Campaigns	13	06
2	Aircraft Recognition		03
3	Aeromodeling		24
4	Atmosphere	08	01
5	Maps		01
	Total	21	35

COMMON SUBJECTS (Detailed Syllabus)

Total Marks: 49 Total

Periods: 83

Unit 1: The NCC

01 Periods

Aim: To acquaint cadets with the aims and objectives of NCC

Scope: Introduction, aims, organization and general information about NCC.

- Aims and Objectives of NCC.
- Organization and Training and NCC Song
- Incentives of Joining NCC

Unit 2: National Integration and Awareness

08 Periods

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.

- Religions, Culture, Traditions and Customs of India
- National Integration: Importance and Necessity
- Freedom Struggle and Nationalist Movement in India.
- Problems/ Challenges of National Integration.
- Unity in Diversity.
- Famous Leaders of India
- Images/ Slogans for National Integration
- Contribution of Youth in Nation Building

Unit 3: Disaster Management /Civil Affairs

04 Periods

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

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

- Civil Defence Organisation and its duties/ NDMA
- Types of emergencies/ Natural Hazards
- Role of NCC during Natural Hazards/ Calamities
- Civil Administrative Set up at District/Taluk/Village
- Fire service and fire fighting
- Essential services and their maintenance

Unit 4: Drill**21 Periods**

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 without Arms

- General and Words of Command
- Attention, Stand at Ease and Stand Easy, turning and inclining at the halt
- Sizing, forming up in three ranks and numbering, open and close order march and dressing
- Saluting at the halt,
- Getting on parade, dismissing and falling out
- Marching, Length of Pace and time of marching in quick time and halt, slow march and halt
- Turning on the march and wheeling
- Saluting on the March
- Individual word of command

Unit 5: Weapon Training**14 Periods**

Aim: To give elementary knowledge about rifles.

Scope: Basic Knowledge about rifle and firing.

- Characteristics of a rifle/ rifle ammunition and its fire power
- Stripping, assembling, care and cleaning and sight setting
- Loading, cocking and unloading
- The lying position and Holding
- Aiming, range and figure target
- Trigger control and firing a shot
- Range precautions and safety precautions
- Short range firing

Unit 6: Adventure Training**04 Periods**

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

Scope: To expose cadets to various adventure activities.

- Trekking including selection of route and administration planning

- Cycle expedition including selection of route and administration planning
- Rock climbing

Unit 7: Personality Development and Leadership

14 Periods

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.

- Introduction to Personality development
- Factors influencing/shaping personality: Physical, Social, Psychological and philosophical
- Self Awareness - know yourself
- Critical and creative thinking
- Communication skills: group discussions/lectures
- Self confidence, courage & self conviction
- Effects of leadership with historical examples
- Problem solving skills
- Interview skills
- Importance of group and team work
- Effective use of time
- Coping with stress / emotions
- Sociability: social skills
- Characteristics of healthy personalities - ethics/values

Unit 8: Social Awareness Community Development

7 Periods

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.

- Basics of Social service, and its needs
- Social/ Rural Development Projects: MNREGA, SGSY, NSAP etc.
- Literacy enhancement and poverty alleviation
- Contribution of youth towards social welfare
- Civic responsibilities
- Drug abuse and trafficking

- Causes and prevention of HIV/AIDS, Role of Youth
- Corruption
- Social evils viz. dowry/female foeticide/child abuse and trafficking etc.
- Traffic control organization and anti drunken driving
- Provisions of child act

Unit 9: Health and Hygiene

07 Periods

Aim: To instil respect and responsibility towards personal health and hygiene.

Scope: Basic information of the human body, maintenance of health, hygiene, sanitation, disease and an elementary knowledge of First Aid and Nursing.

- Structure and functioning of the human body
- Hygiene and sanitation (Personal and Food Hygiene)
- Physical and mental health
- Infectious and contagious diseases and its prevention
- Basics of first aid in common medical emergencies
- Wounds and fractures
- Introduction to yoga and exercise

Unit 10: Environment Awareness and Conservation

03 Periods

Aim: To sensitise 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.

- Natural resources - conservation and management
- Water conservation and rain water harvesting
- Waste management
- Pollution control, water, air, noise, soil
- Wildlife conservation: projects in India

SPECIALISED SUBJECTS (ARMY)

Total Marks: 21 Total

Periods: 35

Unit 1: Armed Forces

05 Periods

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
- Badges and Ranks
- Honours and Awards
- Modes of entry into Army
- Fighting Arms
- Supporting Arms and Services

Unit 2: Military History

05 Periods

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)
- Indian Army War Heroes
- Study of battles of indo Pak war 1965, 1971 and Kargil
- War movies

Unit 3: Map Reading

11 Periods

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
- Relief, contours and gradients
- Cardinal points and Types of North
- Types of bearings and use of service protractor

Unit 4: Field Craft and Battle Craft**11 Periods**

Aim: To teach cadets elementary field craft and battle craft

Scope: Basic field craft and battle craft

- Introduction
- Judging distance
- Description of ground
- Recognition, description and indication of land marks and targets
- Observation, camouflage and concealment
- Field signals
- Use of ground and movement
- Selection of formations
- Knots and Lashing

Unit 5: Communication**03 Periods**

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

Scope: Types of communications and future trends

- Importance of communication
- Means of communication

SPECIALIZED SUBJECTS (NAVY)

Total Marks: 21

Total Periods: 35

Unit 1: Naval Orientation**Periods 07**

Aim: To impart training on Naval Organisation.

Scope: History of Indian Naval Organizations, Rank structure, Indo-Pak War- 1971 etc.

- Indo Pak War -1971
- Rank Structure and Badges - PBOR to MCPO and Equivalent
- Rank Structure and Badges - Officers and equivalent
- Mode of entry into IN

Unit 2: Naval Communication**Periods 04**

Aim: To impart basic knowledge to Naval Communication.

Scope: Introduction to visual communication.

- Semaphore, Use of semaphore, introduction of various letter position, Reading of semaphore message, Transmission of semaphore message
- Introduction to radio telephony procedure

Unit 3: Seamanship**Periods 12**

Aim: To impart basic knowledge about Seamanship.

Scope: Introduction to rigging, anchor work, parts of boats and accessories etc.

- Fundamentals of Steering - Steering orders, reports and alteration of course
- Parts of a Sail- types of sails
- Parts of Whaler and Oar- Pulling orders
- Parts of a Cadet Class Dingy- sailing terms
- Throwing a Heaving Line- Use of Heaving line on board
- Use of Boatswain Call (Piping)- Parts of Pipe

Unit 4: Navigation**Periods 06**

Aim: To impart basic knowledge to Naval Communication.

Scope: Introduction to visual communication.

- Uses of Maps and Charts and its purpose
- Instruments required for chart work
- Markings on Chart, Light houses, buoys
- Introduction to Map reading and Navigation Aids to include GPS

Unit 5: Ship and Boat Modelling**Periods 06**

Aim: To impart basic knowledge about Ship Modelling to cadets.

Scope: Basic knowledge about reading of Diagrams and construction of Ship Models.

- Practical Training on Static Models
- Preparation of hull construction
- Preparation of super structure
- Chemical work and finishing of model
- Stability and Operation of model

SPECIALIZED SUBJECTS (AIR FORCE)

Total Marks: 21

Total Periods: 35

Unit 1: Air Campaigns

06 Periods

Aim: To introduce Air Campaigns of Air Force

Scope: An overview of important campaigns

- Indo-Pak War-1971
- Operation Safed Sagar
- Motivational Movies

Unit 2: Aircraft Recognition

03 Periods

Aim: To introduce various aircrafts of the Air Force

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

- Fighters
- Transport
- Helicopters.

Subject 3: Aero-modelling

24 Periods

Aim: To provide knowledge about Aero Modelling

Scope: Materials used in different types of models

- History of Aero-modelling
- Materials used in Aero-modelling
- Types of Aero-modelling
- Flying/Building of Aero-models

Unit 4: Atmosphere

01 Periods

Aim: To give basic knowledge of Atmosphere

Scope: Use of basic knowledge of Atmosphere

- Atmosphere

Subject 5: Maps

01 Periods

Aim: To give basic knowledge of Air Navigation

Scope: Use of Maps and fundamentals of Map Reading from the air

- Maps