

NATIONAL CADET CORPS

INSTITUTIONAL TRAINING SYLLABUS

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NATIONAL CADET CORPS

INSTITUTIONAL TRAINING SYLLABUS

INTRODUCTION

1. Institutional Training being conducted in the Colleges and Schools is the principal means of training in the NCC. The aim of the training is to nurture core values, enhance awareness and give exposure to basic military skills and knowledge. Emphasis will be on practical training. Case studies, wherever possible will be used to facilitate active participation and better assimilation. Examples from India's freedom struggle and wars fought by India, post-independence, should supplement relevant subjects to generate secular and patriotic fervour. The instructors and the cadets must grasp the importance of this training and participate actively.

2. **Principles of Training** In keeping with the changing environment, the principles of NCC Training are:-

- (a) Senior Division (SD)/ Senior Wing (SW) will be for three years.
- (b) Syllabus for SD/SW.
- (c) Modified syllabus for professional educational institutes of repute to encourage enrolment of cadets.
- (d) Revised curriculum for training in a military environment with greater emphasis on soft skill development, awareness of social responsibilities and adventure and sports.
- (e) Uniformity in syllabus for boys and girls.
- (f) Common Syllabus for all three wings to be approximately 60 to 70% and Specialised Service Syllabus training will be 30 to 40%.

(g) Emphasis on practical training.

(h) Conduct of periodic composite training ensuring continuity for better learning assimilation and its application.

3. Common subjects will comprise about 70% of the periods and Specialised Service Subjects will be 30%. The breakdown of periods are as under:-

<u>Ser</u> <u>No</u>	<u>Subject</u>	<u>No of Periods</u>			
		<u>First</u> <u>Year</u>	<u>Second</u> <u>Year</u>	<u>Third</u> <u>Year</u>	<u>Total</u>

Senior Division/Wing

(a)	Common Subjects	66	72	72	210
(b)	Specialised Subjects	24	33	33	90
	TOTAL	90	105	105	300

4. In addition to this syllabus, State Directorates will conduct Social Service Activities in the form of rallies of any nature to carry social messages in the form of posters, street plays, placards etc.

<u>Legend</u>	
<u>Abbreviation</u>	<u>Type</u>
L	Lecture
D	Demonstration
Di	Discussion
P	Practice
V	Video

BLOCK SYLLABUS
COMMON SUBJECTS: SD/SW (ALL WINGS)

Ser No	Subject	1st Year	2nd Year	3rd Year	Total Periods
1.	The NCC	03	00	00	03
2.	National Integration and Awareness	06	06	06	18
3.	Drill	16	19	08	43
4.	Weapon Training	12	10	10	32
5.	Personality Development & Leadership	10	15	20	45
6.	Disaster Management	03	03	04	10
7.	Social Awareness & Community Development	05	05	06	16
8.	Health & Hygiene	05	04	07	16
9.	Adventure	02	06	07	15
10.	Environment Awareness and Conservation	02	02	02	06
11.	Obstacle Training	02	02	02	06
TOTAL		66	72	72	210

DETAILED SYLLABUS
COMMON SUBJECTS -SD/SW (ALL WINGS)

1. The NCC (N)

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

Scope Introduction, aims, organisation and general information about NCC.

Ser No	Code	Subject	1st yr	Type	2nd yr	Type	3rd yr	Type	Total periods
1.	N - 1	Aims and Objectives of NCC.	1	L					1
2.	N - 2	Organisation & Training and NCC Song.	1	L					1
3.	N - 3	Incentives	1	L					1
Total			3		0		0		3

2. National Integration & Awareness(NI)

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.

Ser No	Code	Subject	1st yr	Type	2nd yr	Type	3rd yr	Type	Total periods
1.	NI-1	Religions, Culture, Traditions and Customs of India.	2	L					2
2.	NI-2	National Integration: Importance and Necessity	2	L					2
3.	NI-3	Freedom Struggle and Nationalist Movement in India.	2	L/Di/ V	1	L/Di/ V			3
4.	NI-4	National Interests, Objectives, Threats and Opportunities.			2	L			2
5.	NI-5	Problems / Challenges of National Integration.			1	L/Di			1

6.	NI-6	Unity in Diversity.	2	L/Di/ V			2
7.	NI-7	National Integration Council.			1	L	1
8.	NI-8	Images/ Slogans for National Integration			3	Di/P	3
9.	NI-9	Contribution of Youth in Nation Building.			2	L/Di/ V	2
Total			6	6	6		18

Note:-Short video clips be used where applicable viz Freedom Struggle and Nationalist Movement.

3. Drill

Aim To inculcate a sense of discipline, improve bearing, smartness, 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.

Foot Drill (FD)

Ser No	Code	Subject	1st yr	Type	2nd yr	Type	3rd yr	Type	Total periods
1.	FD-1	General and words of command	1	L/P					1
2.	FD-2	Attention, stand at ease and stand easy, turning and inclining at the halt	1	L/P					1
3.	FD-3	Sizing, forming up in three ranks and numbering, open and close order march and dressing	1	L/P					1
4.	FD-4	Saluting at the halt, getting on parade, dismissing and falling out	1	L/P					1
5.	FD-5	Marching, Length of pace and time of marching in quick time and halt, slow march and halt	1	L/P					1
6.	FD-6	Side pace, pace forward and to the rear			1	L/P			1

7.	FD-7	Turning on the march and wheeling	1	L/P	1	L/P			2
8.	FD-8	Saluting on the march	1	L/P	1	L/P			2
9.	FD-9	Marking time, forward march and halt in quick time.			1	L/P			1
10.	FD-10	Changing step			1	L/P			1
11.	FD-11	Formation of squad and squad drill	1		1	L/P			2
Total			8		6		0		14

Drill with Arms (AD)

Ser No	Code	Subject	1st yr	Type	2nd yr	Type	3rd yr	Type	Total periods
12.	AD-1	Attention, stand at ease and stand easy	2	L/P					2
13.	AD-2	Getting on parade with rifle and dressing at the order	1	L/P	1	L/P			2
14.	AD-3	Dismissing and falling out	1	L/P	1	L/P			2
15.	AD-4	Ground/take up arms	1	L/P					1
16.	AD-5	Present from the order and vice-versa	1	L/P					1
17.	AD-6	Gen Salute, Salami Shastra	2	L/P	2	L/P	2	L/P	6
18.	AD-7	Squad Drill			2	L/P	2	L/P	4
19.	AD-8	Short/long trail from the order and vice-versa			1			L/P	1
20.	AD-9	Examine Arms			2	L/P			2
Total			8		9		4		21

Ceremonial Drill (CD)

Ser No	Code	Subject	1st yr	Type	2nd yr	Type	3rd yr	Type	Total periods
21.	CD-1	Guard Mounting			1	L/P		-	1
22.	CD-2	Guard of Honour			2	L/P	1	L/P	3
23.	CD-3	Platoon/Coy Drill			1		1	L/P	2
24.	CD-4	Instructional Practice					2	L/P	2
Total			0		4		4		8
Grand Total Drill			16		19		8		43

4. Weapon Training (WT)

Aim To give elementary knowledge about Rifles.

Scope Basic knowledge about rifle and firing.

Ser No	Code	Subject	1st yr	Type	2nd yr	Type	3rd yr	Type	Total periods
1.	WT-1	Characteristics of a rifle/rifle ammunition and its fire power	1	L/P					1
2.	WT-2	Stripping, assembling, care and cleaning and sight setting of .22 rifle	1	L/P					1
3.	WT-3	Stripping, assembling, care and cleaning of 7.62mm SLR	1	L/P					1
4.	WT-4	Loading, cocking, and unloading	1	L/P					1
5.	WT-5	The lying position, Holding & Aiming-I	1	L/P	1	L/P	1	L/P	3
6.	WT-6	Trigger control and firing a shot	1	L/P	1	L/P	1	L/P	3
7.	WT-7	Range procedure and safety precautions	1	L/P	1	L/P	1	L/P	3
8.	WT-8	Theory of Group and Snap shooting		L/P	1		1	L/P	2
9.	WT-9	Short range firing, Aiming II - Alteration of sight	5	P	6	P	6	P	17
Total			12		10		10		32

Note: WT-3 included to impart elementary handling of 7.62mm SLR as being used for Arms Drill.

5. Personality Development and Leadership (P)

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.

Ser No	Code	Subject	1st yr	Type	2nd yr	Type	3rd yr	Type	Total periods
1.	P-1	Introduction to Personality Development.	1	L					1
2.	P-2	Factors Influencing / shaping Personality: Physical, Social, Psychological and Philosophical.	2	L					2
3.	P-3	Self-Awareness - Know yourself/ Insight.	2	L/P	1	L/P	2	L/P	5
4.	P-4	Change your mind set.	1	L					1
5.	P-5	Interpersonal relationship and communication.			2	L/P			2
6.	P-6	Communication Skills: Group Discussions/ Lecturettes.	2	L/P	2	P	2	P	6
7.	P-7	Leadership Traits.	1	L					1
8.	P-8	Types of Leadership.	1	L					1
9.	P-9	Attitude - Assertiveness and Negotiation.					2	L/P	2
10.	P-10	Time Management.			1	L/P	2	L/P	3
11.	P-11	Effects of Leadership with historical examples.			1	L			1
12.	P-12	Stress Management Skills.					2	L/P	2
13.	P-13	Interview Skills.			2	L/P	2	P	4
14.	P-14	Conflict Motives - Resolution.			2	L/P			2
15.	P-15	Importance of Group / Team Work.					2	L/P	2

16.	P-16	Influencing Skills.			2	L/P	2
17.	P-17	Body Language.			2	L/P	2
18.	P-18	Sociability: Social Skills	2	L	2	L	4
19.	P-19	Values / Code of Ethics.	2	L			2
Total			10		15		45

6. Disaster Management (DM)

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

Scope Basic information about Civil Defence Organisation and its duties, maintenance of essential services and providing assistance to civil administration in various types of emergencies during National Disasters.

Ser No	Code	Subject	1st yr	Type	2nd yr	Type	3rd yr	Type	Total periods
1.	DM-1	Civil Defence Organisation and its duties/NDMA	1	L					1
2.	DM-2	Types of emergencies / Natural Disasters	1	L					1
3.	DM-3	Fire Services & Fire fighting			1	L/P			1
4.	DM-4	Traffic control during Disaster under Police Supervision					1	L	1
5.	DM-5	Essential services and their maintenance					1	L	1
6.	DM-6	Assistance during Natural/Other Calamities : Flood/Cyclone/Earth Quake/Accident etc.	1	L/D	2	L/D			3
7.	DM-7	Setting up of relief camp during Disaster Management					1	L/P	1
8.	DM-8	Collection & Distribution of Aid material					1	L	1
Total			3		3		4		10

Note:- Examples of assistance provided by NCC cadets in the past be used as case studies for ease of assimilation.

7. Social Awareness & Community Development (SA)

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.

Ser No	Code	Subject	1st yr	Type	2nd yr	Type	3rd yr	Type	Total periods
1.	SA-1	Basics of Social Service, weaker sections of our society and their needs.	1	L					1
2.	SA-2	Social / Rural Development Projects: MNREGA, SGSY, NSAP etc	1	L					1
3.	SA-3	NGOs : Role & Contribution			1	L			1
4.	SA-4	Contribution of youth towards social welfare	1	L					1
5.	SA-5	Family Planning					1	L	1
6.	SA-6	Drug Abuse & Trafficking			1	L			1
7.	SA-7	Civic Responsibilities	1	L					1
8.	SA-8	Causes & Prevention of HIV/AIDS; Role of youth	1	L					1
9.	SA-9	Counter Terrorism					2	L	2
10.	SA-10	Corruption			1	L			1
11.	SA-11	Social Evils viz Dowry/Female Foeticide/ Child abuse & trafficking etc			1	L			1
12.	SA-12	RTI & RTE					1	L	1
13.	SA-13	Traffic Control Org and Anti-drunken driving			1	L/P	1	L/P	2
14.	SA-14	Provisions of Protection of Children from Sexual Harassment Act 2012					1	L	1
Total			5		5		6		16

Note: Separate time will be allocated for actual Social Awareness & Community Development activities.

8. Health & Hygiene (H)

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

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

Ser No	Code	Subject	1st yr	Type	2nd yr	Type	3rd yr	Type	Total periods
1.	H1	Structure & functioning of the human body.	1	L					1
2.	H2	Hygiene & Sanitation (Personal & Food hygiene).	2	L	1	L			3
3.	H3	Physical & Mental Health					1	L	1
4.	H4	Infectious & Contagious Diseases & its prevention.	2	L					2
5.	H5	Basics of Home Nursing & First-Aid in common medical emergencies			2	L/D/P	3	L/D/P	5
6.	H6	Wounds & Fractures.			1	L/P	1	L/P	2
7.	H7	Introduction to Yoga & Exercises.					2	L/D/P	2
Total			5		4		7		16

9. Adventure Trg(ADV)

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

Scope To expose cadets to various Adventure activities.

Ser No	Code	Subject	1st yr	Type	2nd yr	Type	3rd yr	Type	Total periods
1.	ADV-1	Para Sailing			4	L/D/P			4
2.	ADV-2	Slithering	2	D/P					2
3.	ADV-3	Rock Climbing			2	L/D/P	3	L/D/P	5

4.	ADV Cycling/ trekking 4			4	L/P	4
Total		2	6	7		15

Note: Additional / Alternative adventure activities may be undertaken by Dtes/Gps/Units based on availability of resources.

10. Environment Awareness and Conservation (E)

Aim To sensitise cadets on natural resource conservation and protection of environment.

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

Ser No	Code	Subject	1st yr	Type	2nd yr	Type	3rd yr	Type	Total periods
1.	E-1	Natural Resources – Conservation & Management	1	L					1
2.	E-2	Water Conservation & Rainwater harvesting	1	L					1
3.	E-3	Waste Management.			1	L			1
4.	E-4	Pollution Control; Water, Air, Noise and Soil			1	L			1
5.	E-5	Energy Conservation					1	L	1
6.	E-6	Wildlife Conservation: Projects of India					1	L	1
Total			2		2		2		6

11. Obstacle Training (OT)

Aim To make cadets capable of crossing a standard obstacle course so as to inculcate team spirit and self-confidence.

Scope Training on a standard obstacle course.

Ser No	Code	Subject	1st yr	Type	2nd yr	Type	3rd yr	Type	Total periods
1	OT-1	Obstacle course	2	L/D/P	2	L/D/P	2	L/D/P	6
Total			2		2		2		6

Grand Total	66	72	72	210
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BLOCK SYLLABUS
SPECIALISED SUBJECTS: SD/SW (ARMY)

Ser No	Subject	1st Year	2nd Year	3rd Year	Total Periods
1.	Armed Forces	04	04	02	10
2.	Map Reading	07	08	09	24
3.	Field Craft & Battle Craft	05	07	09	21
4.	Introduction to Infantry Weapons & Equipment	02	04	05	11
5.	Military History	03	05	05	13
6.	Communication	03	05	03	11
TOTAL		24	33	33	90

DETAILED SYLLABUS
SPECIALISED SUBJECTS - SD/SW (ARMY)

1. Armed Forces (AF)

Aim To acquaint cadets with the Armed Forces.

Scope Introductory and general information about the Armed Forces.

Ser No	Code	Subject	1st yr	Type	2nd yr	Type	3rd yr	Type	Total periods
1.	AF-1	Basic organisation of Armed Forces	1	L					1
2.	AF-2	Organisation of Army	2	L					2
3.	AF-3	Badges and Ranks	1	L					1
4.	AF-4	Task & Role of Fighting Arms			2	L/V			2
5.	AF-5	Task & Role of Supporting Arms & Services					1	L/V	1
6.	AF-6	Modes of Entry to Army			1	L			1
7.	AF-7	Honours and Awards			1	L			1
8.	AF-8	Concept of Integrated Defence Staff					1	L	1
Total			4		4		2		10

Note:- Video clips be used for AF- 4 & 5.

2. Map reading (MR)

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.

Ser No	Code	Subject	1st yr	Type	2nd yr	Type	3rd yr	Type	Total periods
1.	MR-1	Introduction to types of Maps, and Conventional Signs	1	L					1
2.	MR-2	Scales & Grid System	1	L					1

3.	MR-3	Topographical forms and technical terms	1	L						1
5.	MR-4	Relief, Contours and Gradients	1	L	1	L				2
6.	MR-5	Cardinal points and Types of North	1	L/P	1	L/P				2
7.	MR-6	Types of bearings and use of Service Protractor	1	L/P	1	L/P				2
8.	MR-7	Prismatic compass and its use & GPS	1	L/P						1
9.	MR-8	Setting a Map, finding North and own position			2	L/P	1	L/P		3
10.	MR-9	Map to Ground, Ground to Map			3	L	3	L/P		6
11.	MR-10	Point to Point March					5	L/P		5
Total			7		8		9		24	

3. Field Craft and Battle Craft (FC & BC)

Aim To teach cadets elementary Field Craft and Battle Craft.

Scope Basic Field Craft and Battle Craft.

Ser No	Code	Subject	1st yr	Type	2nd yr	Type	3rd yr	Type	Total periods
1.	FC & BC-1	Introduction	1	L					1
2.	FC & BC-2	Judging Distance	1	L/P	1	L/P			2
3.	FC & BC-3	Description of ground	1	L/P					1
4.	FC & BC-4	Recognition, description and indication of landmarks & targets	2	L/P					2
5.	FC & BC-5	Observation, Camouflage and Concealment			2	L			2
6.	FC & BC-6	Field Signals			2	L/P			2
7.	FC & BC-7	Section Formations					2	L/P	2

8.	FC & BC-8	Fire Control Orders			2	L/P	2
9.	FC & BC-9	Fire and Movement			1	L/P	1
10.	FC & BC-10	Types of Knots and Lashings			2	L/P	2
11.	FC & BC-11	Section Battle Drill			4	L/P	4
Total					5		7
Total					9		21

4. Introduction to Infantry Weapons and Equipment (INF)

Aim To introduce cadets to Infantry weapons.

Scope Introduction to characteristics and capabilities of Inf weapons.

Ser No	Code	Subject	1st yr	Type	2nd yr	Type	3rd yr	Type	Total periods
1.	INF-1	Characteristics of 7.62 mm SLR rifle, ammunition, firepower, stripping, assembling & cleaning.	2	L/P					2
2.	INF-2	Characteristics of 5.56 mm INSAS rifle, ammunition, firepower, stripping, assembling & cleaning.			2	L/P			2
3.	INF-3	Organisation of Infantry Battalion.			2	L			2
4.	INF-4	Characteristics of Infantry Company Support Weapons					2	L/P	2
5.	INF-5	Characteristics of Infantry Battalion support weapons					3	L/V	3
Total			2		4		5		11

Note: Cadets will visit nearest Infantry unit where feasible.

5. Military History (MH)

Aim To provide knowledge of renowned Military Generals, PVCs & Indo-Pak battles.

Scope Biographies, famous Indian battles and war movies.

Ser No	Code	Subject	1st yr	Type	2nd yr	Type	3rd yr	Type	Total periods
1.	MH-1	Biographies of renowned Generals (Carriapa/Sam Manekshaw)	1	L	1	L			2
2.	MH-2	Indian Army War Heroes - PVCs	2	L/V	2	L/V			4
3.	MH-3	Study of Battles of Indo Pak war 1965,1971 & Kargil			2	L	2	L/Di	4
4.	MH - 4	War Movies			1	V	2	V	3
Total			3		6		4		13

6. Communication (C)

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

Scope Types of communications, current and future trends.

Ser No	Code	Subject	1st yr	Type	2nd yr	Type	3rd yr	Type	Total periods
1.	C-1	Types of communications	1	L					1
2.	C-2	Characteristics of Wireless Technology(Mobile, Wi Fi etc)	2	L					2
3.	C-3	Characteristics of Walkie/Talkie			2	L			2
4.	C-4	Basic RT Procedure			2	L/P	2	L/P	3
5.	C-5	Latest trends and development(Multi Media, Video Conferencing, IT)			1	L	2	L	3
Total			3		4		4		11
Grand Total			24		33		33		90

BLOCK SYLLABUS

SPECIALISED SUBJECTS SD/SW (NAVY)

Ser No	Subject	1 st Year	2 nd Year	3 rd Year	Total Periods
1.	Naval Orientation	08	06	03	17
2.	Naval Warfare and Its Components	00	04	03	07
3.	Naval Communication	03	04	01	08
4.	Navigation	00	06	03	09
5.	Seamanship				
	(a) Anchor Work	01	01	00	02
	(b) Rigging	03	00	00	03
	(c) Boat Work	04	05	01	10
6.	Fire Fighting, Flooding and Damage Control	00	02	02	04
7.	Ship and Boat Modelling	02	03	14	19
8.	Search and Rescue	01	00	01	02
9.	Swimming	01	03	05	09
TOTAL		24	33	33	90

DETAILED SYLLABUS
SPECIALISED SUBJECTS : SD/SW (NAVY)

1. Naval Orientation and Service Subjects (NO).

Aim: To impart Basic Knowledge about Navy.

Scope: Basic Knowledge, History, current Organisation and Role of different branches of Navy.

Ser No.	Code	Subject	Ist Year	Type	2nd Year	Type	3rd Year	Type	Total Periods
1	NO-1	History of the Indian Navy - Pre and Post-independence, gallantry award winners	2	L	-	-	-	-	2
2	NO-2	Organisation of Navy - NHQ, Commands, Fleets, Ships and shore establishments	2	L	-	-	-	-	2
3	NO-3	Types of Warships and their Role	2	L	-	-	-	-	2
4	NO-4	Organisation of Ships - Introduction on onboard organisation	-	-	2	L	-	-	2
5	NO-5	Organisation of Army & Air Force - Operational and Training Commands	1	L	-	-	-	-	1
6	NO-6	Naval Customs and Traditions	-	-	1	L	-	-	1
7	NO-7	Ranks of Officers and Sailors, Equivalent Ranks in the Three Services	1	L	-	-	-	-	1
8	NO-8	Mode of entry into IN	-	-	1	L	-	-	1
9	NO-9	Branches of the Navy and their Functions	-	-	1	L	-	-	1
10	NO-10	Role of IN in Indo Pak War - 1971 & Kargil War	-	-	-	-	2	P	2
11	NO-11	Naval Campaign (Battle of Atlantic, Pearl Harbour, Falkland War/Fleet Review/PFR/IFR)	-	-	1	P	1	P	2
TOTAL			8		6		3		17

2. Naval Warfare & Its Components (NW).

Aim: To impart Basic Knowledge about Naval Warfare.

Scope: Overview of Fleet Operations, to include Aviation, Submarines Ops, Gunnery & Missiles and ASW.

Ser No.	Code	Subject	1st Year	Type	2nd Year	Type	3rd Year	Type	Total Periods
1.	NW-4	Introduction to Anti-Submarine Warfare & Fleet Operation	-	-	2	L	-	-	2
2.	NW-1	Role of Aviation - Naval Aircraft & Helicopters	-	-	-	-	2	L	2
3.	NW-2	Types of Submarines and its role (a) ASW weapon and sensors	-	-	-	-	1	L	1
4.	NW-3	Elementary knowledge of Gunnery & Missiles - (a)Types of missiles (b) Types of Guns	-	-	2	L	-	-	2
TOTAL			-		4		3		7

3. Naval Communication (NC).

Aim: To impart basic knowledge about Naval Communication.

Scope: To impart basic knowledge about Naval Communication Organization, semaphore and wearing of flags.

Ser No.	Code	Subject	1st Year	Type	2nd Year	Type	3rd Year	Type	Total Periods
1.	NC-1	Introduction to Naval Modern Communication, Purpose & Principles (a) Introduction of Naval communication (b) Duties of various communication sub department	2	L	-	-	-	-	2
2.	NC-2	Semaphore	1	P	2	P			3

		(a) Introduction of position of letters and prosigns							
		(b) Reading of messages							
		(c) Transmission of messages							
3.	NC-3	Phonetic Alphabets			1	L		1	
4.	NC-4	Radio Telephony Procedure			1	L/P		1	
5.	NC-5	Wearing of National Flag, Ensign and Admiral's Flag	-	-	-	-	1	L	1
TOTAL			3	4	1	1	8		

4. Navigation (N).

Aim: To impart basic knowledge about Navigation.

Scope: Basic Navigation Tactics and Methods, Equipment used for Navigation, Rules of Road, Chart Work etc.

Ser No.	Code	Subject	1st Year	Type	2nd Year	Type	3rd Year	Type	Total Periods
1.	N-1	Navigation of ship - basic requirements- (Charts and Compass), Map reading, Knot and nautical mile, Lat and long, types of maps & contours	-	-	2	P	-	-	2
2.	N-2	Types of Compass - Gyro and magnetic, True north and magnetic north	-	-	1	L	-	-	1
3.	N-3	Simple Chart Work - Plotting Ship Track, Types of charts and information on charts	-	-	1	P	-	-	1
4.	N-4	Use of Electronic Navigation Aids - GPS, RACON, Radar, Log and Eco sounder	-	-	-	-	2	L	2
5.	N-5	Brief characteristics of Tides and its effect on ships- causes of tides, tidal streams	-	-	1	L	-	-	1
6.	N-6	Clouds - Types, Formation of clouds and effects	-	-	-	-	1	L	1
7.	N-7	Introduction to Astronomy	-	-	1	-	-	-	1
TOTAL			-	6	3	9			

5. Seamanship.

Aim: To impart basic knowledge about Navigation.

Scope: Basic Navigation Tactics and Methods, Equipment used for Navigation, Rules of Road, Chart Work etc.

Anchor Work (AW).

Ser No.	Code	Subject	1st Year	Type	2nd Year	Type	3rd Year	Type	Total Periods
1.	AW-1	Parts of Anchor and Cable, their identification	1	P	-	-	-	-	1
2.	AW-2	Types of Anchor, purpose and holding ground	-	-	1	P	-	-	1
TOTAL			1	-	1	-	-	-	2

Rigging (R)

Ser No.	Code	Subject	1st Year	Type	2nd Year	Type	3rd Year	Type	Total Periods
1.	R-1	Types of ropes and breaking strength- stowing, maintenance and securing of ropes	1	L	-	-	-	-	1
2.	R-2	Practical Bends & Hitches : Reef Knot, Half Hitch, Clove Hitch, Rolling Hitch, Timber Hitch, Bow line, Round Turn and Two Half Hitch and Bow Line on the Bight and its basic element and uses.	1	P	-	-	-	-	1
3.	R-3	Introduction to Shackles, Hooks, Blocks and Derricks, Coiling down and splicing of rope	1	P	-	-	-	-	1
TOTAL			3		-		-		3

Boat Work (BW).

Ser No.	Code	Subject	Ist Year	Type	2nd Year	Type	3rd Year	Type	Total Periods
1.	BW-1	Parts of a Boat and parts of an Oar	1	P	-	-	-	-	1
2.	BW-2	Instructions on Boat Pulling - Pulling orders	1	P			-	-	1
3.	BW-3	Steering of boats under oars, Practical Instructions on Boat Pulling, precautions while pulling	2	P			-	-	2
4.	BW-4	Demonstrate Rigging a Whaler and Enterprise Boat - Parts of sail and Sailing terms	-	-	2	P	-	-	2
5.	BW-5	Instructions in Enterprise Class Boat including theory of sailing, Elementary Sailing rules	-	-	2	1-L 1-P	-	-	2
6.	BW-6	Instructions in Sailing a Whaler - Types of sail	-	-	-	-	1	P	1
7.	BW-7	Types of power boats used in the Navy and their uses, Knowledge of Anchoring, Securing and Towing a boat			1	L	-	-	1
TOTAL			4		5		1		10

6. Fire Fighting, Flooding And Damage Control (DC).

Aim: Introduction to Fire Fighting , Flooding and Damage Control.

Scope: Impart basic knowledge about Fire Fighting, Flooding & Damage Control of a ship.

Ser No.	Code	Subject	Ist Year	Type	2nd Year	Type	3rd Year	Type	Total Periods
1.	DC-1	Types of fire, types of extinguishers for fire fighting - Fire Fighting Triangle & methods of fire fighting.	-	-	-	-	2	L	2
2.	DC-2	Causes of damage, Flooding & damage Control	-	-	2	L	-	-	2
TOTAL			-		2		2		4

7. Ship and Boat Modelling (SM)

Aim: Knowledge about Ship Modelling to Cadets.

Scope: To impart Basic knowledge about ship construction and construction of Static and Dynamic Ship Models.

Ser No.	Code	Subject	1st Year	Type	2nd Year	Type	3rd Year	Type	Total Periods
1.	SM-1	Principles of Ship Modelling	1	L	-	-	-	-	1
2.	SM-2	Maintenance and Care of Tools Cleaning & oiling of tools	1	L/P	-	-	-	-	1
3.	SM-3	Types of Models	-	-	1	L/P	-	-	1
4.	SM-4	Calculations of Sail area of a Model Correct reading of sail plan	-	-	-	-	2	P	2
5.	SM-5	Introduction of Ship Model Competition Types of model prepare in NSC & RDC	-	-	1	L	-	-	1
6.	SM-6	Care and Handling of Power Tools used Maintenance & purpose of tools	-	-	1	L/P	-	-	1
7.	SM-7	Repairing of Ship Models Material used for repairing of models	-	-	-	-	1	L/P	1
8.	SM-8	Handling and Operation of Remote Control Models Introduction of Transmitter, Receiver & Servers	-	-	-	-	2	L/P	1
9.	SM-9	Practical Training Construction, chemical work, stability & operation of models	-	-	-	-	9	P	9
TOTAL			2		3		14		19

8. Search & Rescue (SAR)

Aim: To impart basic knowledge about Search & Rescue.

Scope: To impart knowledge about SAR Organisation and role of ICG.

Ser No.	Code	Subject	1st Year	Type	2nd Year	Type	3rd Year	Type	Total Periods
1.	SAR-1	SAR Organization in the Indian Ocean	1	L	-	-	-	-	1
2.	SAR-2	Role of Indian coast Guard related to SAR	-	-	-	-	1	L	1
TOTAL			1		-		1		2

9. Swimming (S)

Aim: Each Cadet must be able to swim and float.

Scope: To achieve proficiency in swimming to minimum standards.

Ser No.	Code	Subject	1st Year	Type	2nd Year	Type	3rd Year	Type	Total Periods
1.	S-1	Floating and Breathing Techniques - Precautions while swimming	-	-	-	-	3	P	3
2.	S-2	Floating for three minutes and free style swimming for 50 meters	2	P	2	P	2	P	6
TOTAL			1		3		5		9
GRAND TOTAL			24		33		39		96

BLOCK SYLLABUS
SPECIALISED SUBJECTS: SD/SW (AIR)

Ser No	Subject	1st Year	2nd Year	3rd Year	Total Periods
1.	General Service Knowledge	02	02	02	06
2.	Air Campaigns	00	02	04	06
3.	Aircraft Recognition	00	04	00	04
4.	Modern Trends	00	00	02	02
5.	Principles of Flight	03	04	03	10
6.	Airmanship	06	02	02	10
7.	Navigation	00	03	02	05
8.	Meteorology	00	01	04	05
9.	Aero-Engines	01	04	01	06
10.	Airframes	02	02	02	06
11.	Instruments	02	03	02	07
13.	Aircraft Particulars	02	00	00	02
14.	Aeromodelling	06	06	09	21
TOTAL		24	33	33	90

DETAILED SYLLABUS
SPECIALISED SUBJECTS – SD/SW (AIR)

1. General Service Knowledge (GSK).

Aim: To impart basic knowledge of IAF.

Scope: History, organisation, branches of IAF and career in the IAF.

Ser No	Code	Subject	1 st yr	Type	2 nd yr	Type	3 rd yr	Type	Total periods
1.	GSK-1	Development of Aviation	1	L,F					1
2.	GSK-2	History of IAF	1	L,F					1
3.	GSK-3	Organisation of Air Force			1	L			1
4.	GSK-4	Branches of the IAF			1	L			1
5.	GSK-5	Modes of entry in the IAF					1	L	1
6.	GSK-6	Career in the IAF as an Officer/Airman					1	L	1
Total			2		2		2		6

2. Air Campaigns(AC).

Aim: To introduce Air Campaigns of the IAF.

Scope: An overview of important air campaigns and screening of motivational movies.

Ser No	Code	Subject	1 st yr	Type	2 nd yr	Type	3 rd yr	Type	Total periods
1.	AC-1	Indo Pak War 1971			1	L,F			1
2.	AC-2	Op Safed Sagar			1	L,F			1
3.	AC-3	Famous Air Heroes					2	L	2
4.	AC-4	Motivational Movies					2	F	2
Total					2		4		6

3. Aircraft Recognition (ACR)

Aim: To introduce various aircraft of the Air Force.

Scope: Types, roles, variants of aircrafts of IAF and other Air Forces.

Ser No	Code	Subject	1 st yr	Type	2 nd yr	Type	3 rd yr	Type	Total periods
1.	ACR-1	Fighters			1	L,P			1

2.	ACR-2	Transports	1	L,P					1
3.	ACR-3	Helicopters	1	L,P					1
4.	ACR-4	Foreign Aircraft	1	L,P					1
Total			4						4

4. Modern Trends (MT).

Aim: To introduce modern trends in aviation

Scope: To impart basic knowledge of modern equipment used in aviation.

Ser No	Code	Subject	1st yr	Type	2nd yr	Type	3rd yr	Type	Total periods
1.	MT-1	Modern Trends					2	L	2
Total							2		2

5. Principles of Flight (PF).

Aim: To introduce principles of flight.

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

Ser No	Code	Subject	1st yr	Type	2nd yr	Type	3rd yr	Type	Total periods
1.	PF-1	Introduction	1	L					1
2.	PF-2	Laws of Motion	1	L					1
3.	PF-3	Glossary of Terms	1	L					1
4.	PF-4	Bernoulli's Theorem and Venturi Effect			1	L			1
5.	PF-5	Aerofoil			1	L			1
6.	PF-6	Forces on an Aircraft			1	L			1
7.	PF-7	Lift & Drag			1	L			1
8.	PF-8	Flaps and Slats					1	L	1
9.	PF-9	Stalling					1	L	1
10.	PF-10	Thrust					1	L	1
Total			3		4		3		10

6. Airmanship (AR).

Aim: To introduce the concept of airmanship.

Scope: Airfield layout, Rules of the Air, ATC procedures, basics of aviation medicine and survival techniques.

Ser No	Code	Subject	1st yr	Type	2nd yr	Type	3rd yr	Type	Total periods
1.	AR-1	Introduction	1	L					1
2.	AR-2	Airfield Layout	1	L					1
3.	AR-3	Rules of the Air	1	L					1
4.	AR-4	Circuit Procedure	1	L					1
5.	AR-5	ATC/RT Procedures	1	L	1	P			2
6.	AR-6	Aviation Medicine	1	L/P	1	L,F			2
7.	AR-7	Survival					2	L,F	2
Total			6		2		2		10

7. Navigation (NV).

Aim: To give basic knowledge of Air Navigation.

Scope: Use of maps, fundamentals of map reading from air and elementary knowledge of navigation.

Ser No	Code	Subject	1st yr	Type	2nd yr	Type	3rd yr	Type	Total periods
1.	NV-1	Requirement of Navigation			1	L			1
2.	NV-2	Glossary of Terms			2	L			2
3.	NV-3	Maps					1	L	1
4.	NV-4	Map Reading					1	L,P	1
Total					3		2		5

8. Meteorology (MET).

Aim: To emphasise the need for knowledge of meteorology in aviation. **Scope:** Importance, various phenomena of weather and its effect on aviation.

Ser No	Code	Subject	1st yr	Type	2nd yr	Type	3rd yr	Type	Total periods
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1.	MET-1	Importance of Met in Aviation	1	L				1
2.	MET-2	Atmosphere			1	L		1
3.	MET-3	Clouds and Precipitation			1	L		1
4.	MET-4	Visibility			1	L		1
5.	MET-5	Humidity and Condensation			1	L		1
Total			1		4			5

9. Aero-engines (AE).

Aim: To impart basic knowledge of aero-engines.

Scope: Types of aero-engines, differences in various types and applications.

Ser No	Code	Subject	1st yr	Type	2nd yr	Type	3rd yr	Type	Total periods
1.	AE-1	Introduction to Aeroengines	1	L					1
2.	AE-2	Types of Engines			1	L			1
3.	AE-3	Piston Engines			1	L,P			1
4.	AE-4	Jet Engines			1	L			1
5.	AE-5	Turboprop Engines			1	L			1
6.	AE-6	Consolidation					1	L	1
Total			1		4		1		6

10. Airframes (AF).

Aim: To introduce basic structure of an aircraft.

Scope: Various aircraft controls, knowledge of various control surfaces, types of landing gear.

Ser No	Code	Subject	1st yr	Type	2nd yr	Type	3rd yr	Type	Total periods
1.	AF-1	Aircraft Controls	1	L,P					1
2.	AF-2	Fuselage			1	L			1
3.	AF-3	Main & Tail Plane			1	L			1
4.	AF-4	Ailerons, Elevators & Rudder					2	L	2
5.	AF-5	Landing Gear	1	L					1
Total			2		2		2		6

11. Instruments (IN).

Aim: To provide knowledge of Aircraft Instruments.

Scope: Teach basic instruments, introduce radar and introduction to INSB of PABT.

Ser No	Code	Subject	1st yr	Type	2nd yr	Type	3rd yr	Type	Total periods
1.	IN-1	Basic Flight Instruments	2	L					2
2.	IN-2	Introduction to Radar			3	L			3
3.	IN-3	Instrument Battery Test (Intro to PABT)					2	L	2
Total			2		3		2		7

12. Aircraft Particulars (AP).

Aim: To learn about Microlight of Sqn.

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

Aim:
Scope:

Ser No	Code	Subject	1st yr	Type	2nd yr	Type	3rd yr	Type	Total periods
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1.	AP-1	Aircraft Particulars (Type Specific)	2	L					2
Total			2						2

13. Aero-modelling (AM).

Aim: To impart knowledge about Aero modelling.

Scope: History of aero modelling, materials used in different types of models and flying the constructed aero models.

Ser No	Code	Subject	1st yr	Type	2nd yr	Type	3rd yr	Type	Total periods
1.	AM-1	History of Aero modelling	1	L		--		--	1
2.	AM-2	Materials used in Aero modelling	1	L		--		--	1
3.	AM-3	Types of Aero models	1	L		--		--	1
4.	AM-4	Flying/ Building of Aero models	3	D,P	6	D,P	9	D,P	18
Total			6	-	6		9		21
Grand Total			24		33		33		90

BLOCK SYLLABUS
SPECIALISED SUBJECTS: SD/SW (R & V)

Ser No	Subject	1st Year	2nd Year	3rd Year	Total Periods
1.	Organisation and Functioning of RVC	01	01	00	02
2.	Animal Management and Equitation	15	14	17	46
3.	Shoeing	05	09	08	22
4.	Saddle Fitting	03	09	08	20
TOTAL		24	33	33	90

DETAILED SYLLABUS
SPECIALISED SUBJECTS: SD/SW (R & V)

1. Organisation and Functioning of RVC (O)

Aim To acquaint cadets with the RVC Org and its functioning.

Scope RVC Organisation and its function.

Ser No	Code	Subject	1st yr	Type	2nd Yr	Type	3rd Yr	Type	Total Periods
1.	O-1	Organisation of RVC	1	L					1
2.	O-2	Functioning of RVC Units			1	L			1
Total			1		1		0		2

2. Animal Management & Equitation (AM & EQTN)

Aim To acquaint cadets with Animal Management and Equitation.

Scope Horse Management and Equitation.

Ser No	Code	Subject	1st yr	Type	2nd Yr	Type	3rd Yr	Type	Total Periods
1.	AM - 1	Aim and Definition of Equitation and Acquaintance with horse	1	L					1
2.	AM - 2	Different paces of horse	1	L/P					1
3.	AM - 3	Breeds and colours of horses	1	L					1
4.	AM - 4	Transportation of animal			1	L	1	LD/P	2
5.	AM - 5	Stable vices	1	L	1	L			2

6.	AM - 6	Horse Management	3	LD/P					3
		(a) Watering							
		(b) Feeding							
		(c) Grooming							
7.	AM - 7	Clipping			2	LD/P			2
8.	AM - 8	Minor Ailments and treatment					2	LD/P	2
9.	Eqtn-1	Rules and Regulations of Equestrian sports			2	L			2
7.	Eqtn-2	Leading/Handling of dismounted horse	1	LD/P					1
8.	Eqtn-3	Mounted and dismounted drill	1	LD/P					1
9.	Eqtn-4	Basic seat and posture of rider	2	LD/P					2
10.	Eqtn-5	Walk - (Introduction to walk and its aids)	2	L/P					2
11.	Eqtn-6	Trot - (Aids, synchronising of rising movement and trotting with/without rising)	2	LD/P	1	D/P			3
12.	Eqtn-7	Basic school movements - (Circles, fig of eight, serpentines, change of directions, halts and rein back)			3	P	3	P	6
13.	Eqtn-8	Canter - (Aids & synchronising with horse)			2	LD/P	3	D/P	5
14.	Eqtn-9	Schooling and introduction to basic dressage (Repetition of above, bending lessons, turn on haunches & transition of paces)			2	L/P	4	P	6

15.	Eqtn-10	Introduction to Show Jumps			4	P	4
Total			15	14	17		46

3. Shoeing (S)

Aim To acquaint cadets with shoeing of horses, various methods of shoeing and shoeing faults.

Scope Requirement of shoeing, their types and faults in shoeing.

Ser No	Code	Subject	Ist yr	Type	2nd Yr	Type	3rd Yr	Type	Total Periods
1.	S-1	Objective of Shoeing	1	L					1
2.	S-2	Farrier tools and their uses	1	L					1
3.	S-3	Preparation of foot & faults in preparation	1	L/D	1	L/D			2
4.	S-4	Shoes and types of shoes	1	L/P			1	L/D	2
5.	S-5	Fitting of shoes			2	LD			2
6.	S-6	Injuries due to faulty shoeing	1	L	2	L/P			3
7.	S-7	Diseases of the foot			4	L	5	LD	9
8.	S-8	Surgical Shoeing					2	L/D	2
Total			5		9		8		22

4. Saddle Fitting (SF)

Aim To acquaint cadets with various types of saddles, their maintenance, fitting and faults in fitting.

Scope Types of saddles, their maintenance, fitting and faults in fitting

Ser No	Code	Subject	Ist yr	Type	2nd Yr	Type	3rd Yr	Type	Total Periods
1.	SF-1	Types of saddle and its parts. (a) Pack saddle (b) Draught Saddle (c) Riding Saddle	2	L/D	2	P			4
2.	SF-2	Fitting of Saddles	1	L/D	2	L/D			3
3.	SF-3	Fitting of additional accessories of the saddle.			1	LD	1	L/D	2
4.	SF-4	Modifications in fitting of saddle.					1	LD	1
5.	SF-5	Defects and diseases due to ill-fitting saddles and methods to overcome them.			1	L/D	3	L/D	4
6.	SF-6	Care, maintenance and preservation of saddler and harness			3	P	3	P	6
Total			3		9		8		20
Grand Total			24		33		33		90