

S-29 June, 2013 AC after Circulars from Circular No.03 & onwards

- 36 -

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY**CIRCULAR NO.ACAD/NP/Engg./NCC/Syll./Auto.Coll./32/2013**

It is hereby informed to all concerned that, on the **guidelines given by the U.G.C., the Academic Council at its meeting held on 29-06-2013 has accepted the "New Syllabus of N.C.C. as One of the Elective Paper" prepared by the N.C.C. Group, Aurangabad to Implement to the Autonomous College affiliated to this University for the Faculty of Engineering and Technology as appended herewith.**

This is effective from the **Academic Year 2013-2014** and onwards.

All concerned are requested to note the contents of this circular and bring the notice to the students, teachers and staff for their information and necessary action.

University Campus,
Aurangabad-431 004.
REF.NO.ACAD/NP/ENGG./SYLLABUS/
N.C.C./2013/30284-91

Date:- 20-08-2013.

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Director,
Board of College and
University Development.

Copy forwarded with compliments to :-

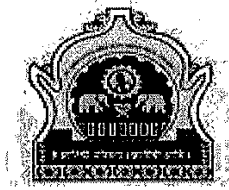
- 1] The Principals, affiliated concerned Colleges, Dr. Babasaheb Ambedkar Marathwada University.
- 2] The Director, University Network & Information Centre, UNIC, with **a request to upload the above Syllabus on University Website [www.bamu.ac.in].**

Copy to :-

- 1] The Controller of Examinations,
- 2] The Superintendent, [Engineering Unit],
- 3] The Programmer [Computer Unit-1] Examinations,
- 4] The Programmer [Computer Unit-2] Examinations,
- 5] The Superintendent, [Eligibility Unit],
- 6] The Director, [E-Suvidha Kendra], in-front of Registrar's Quarter, Dr. Babasaheb Ambedkar Marathwada University,
- 7] The Record Keeper,
Dr. Babasaheb Ambedkar Marathwada University.

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**DR. BABASAHEB AMBEDKAR
MARATHWADA UNIVERSITY,
AURANGABAD.**



NEW SYLLABUS OF

N.C.C.

AS AN ELECTIVE SUBJECT

FOR UNDER GRADUATE COURSE

IN AUTONOMOUS COLLEGE.

[Effective from academic year 2013-14 & onwards]

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

Ser No	CODE	Subject	1 st Year		2 nd Year		3 rd Year		Total Periods
			I SEM	II SEM	III SEM	IV SEM	V SEM	VI SEM	
1.	N	The NCC	02	01	00	00	00	00	03
2.	OT	Obstacle Training	02	02	02	02	00	00	08
3.	D	Drill	08	08	10	09	08	00	43
4.	WT	Weapon Training	06	09	10	09	00	00	32
5.	P	Personality Development & Leadership	05	05	08	06	08	13	45
6.	DM	Disaster Management	03	00	00	03	04	00	10
7.	SA	Social Awareness & Community Development	05	05	05	05	06	06	32
8.	H	Health & Hygiene	00	05	00	04	07	00	16
9.	ADV	Adventure	00	02	00	06	07	00	15
10.	EA	Environment Awareness and Conservation	00	04	00	04	00	04	12

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11.	NI	National Integration and Awareness	03	03	03	03	00	06	18
12	P	PAPER	00	00	00	00	06	00	06
TOTAL PERIODS			34	43	38	51	46	29	240
SPECIALISED SUBJECTS									
13	AF	Armed forces	02	02	02	02	02	00	10
14	MR	Map Reading	04	03	04	04	05	04	24
15	FC & BC	Field Craft & Battle Craft	05	00	07	00	05	04	21
16	INF	Introduction to Infantry Weapon and Equipment	00	00	02	02	02	05	11
17	MH	Military History	00	03	05	05	00	00	13
18	C	Communication	03	00	00	05	00	03	11
TOTAL PERIODS			14	08	20	18	14	16	90
GRAND TOTAL			48	51	58	69	60	45	330
MARKS			50	50	50	50	50	50	300
CAMPS (MIN TWO CAMPS)				50		50			100

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	1 st Year				2 nd Year				3 rd Year				To Per
			I SEM	Type	II SEM	Type	III SEM	Type	IV SEM	Type	V SEM	Type	VI SEM	Type	
1.	N - 1	Aims and Objectives of NCC.	1	L											
2.	N - 2	Organisation & Training and NCC Song.	1	L											
3.	N - 3	Incentives		L	1	L									
		Total	2		1										

2. 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	1 st Year				2 nd Year				3 rd Year				Total Periods
			I SEM	Type	II SEM	Type	III SEM	Type	IV SEM	Type	V SEM	Type	VI SEM	Type	
1.	OT-1	Obstacle course	1	L/D/ P	1	L/D/ P	2	L/D/ P	2	L/D/ P					6
		Total	1		1		2		2						6

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	1 st Year				2 nd Year				3 rd Year				Total Peri
			I SEM	Type	II SEM	Type	III SEM	Type	IV SEM	Type	V SEM	Type	VI SEM	Type	
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	L/P									2
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	L/P									2
5.	FD-5	Marching, Length of pace and time of marching in quick time and halt, slow march and halt	1	L/P	1	L/P									2
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	L/P											1
		Total	8		8										16

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DRILL WITH ARMS (AD)

Ser No	Code	Subject	1 st Year				2 nd Year				3 rd Year				Total Periods
			I SEM	Type	II SEM	Type	III SEM	Type	IV SEM	Type	V SEM	Type	VI SEM	Type	
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
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							1	L/P					1
		Total					8		7		4				19

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CERIMONIAL DRILL (CD)

Ser No	Code	Subject	1 st Year				2 nd Year				3 rd Year				Total Periods
			I SEM	Type	II SEM	Type	III SEM	Type	IV SEM	Type	V SEM	Type	VI SEM	Type	
21.	CD-1	Guard Mounting									2	L/P			
22.	CD-2	Guard of Honour									2	L/P			
23.	CD-3	Platoon/Coy Drill									2	L/P			
24.	CD-4	Instructional Practice									2	L/P			
		Total									8				
		Grand Total Drill				16				19	8				43

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Weapon Training (WT)**Aim** To give elementary knowledge about Rifles.**Scope** Basic knowledge about rifle and firing.

Ser No	Code	Subject	1 st Year				2 nd Year				3 rd Year				Total Period
			I SEM	Type	II SEM	Type	III SEM	Type	IV SEM	Type	V SEM	Type	VI SEM	Type	
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			1		1	L/P							2
9.	WT-9	Short range firing, Aiming II - Alteration of sight			5	P	6	P	6	P					17
		Total	6		9		10		7						32

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	1 st Year				2 nd Year				3 rd Year				Total Periods
			I SEM	Type	II SEM	Type	III SEM	Type	IV SEM	Type	V SEM	Type	VI SEM	Type	
1.	P-1	Introduction to Personality Development.	1	L											1
2.	P-2	Factors Influencing / shaping Personality: Physical, Social, Psychological and Philosophical.	1	L	1	L									2
3.	P-3	Self-Awareness - Know yourself/ Insight.	1	L/P	1	L/P	2	L/P					1	L/P	5
4.	P-4	Change your mind set.	1	L											1
5.	P-5	Interpersonal relationship and communication.	1	L	1	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

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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	5	5	8	6	8	13						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	1 st Year				2 nd Year				3 rd Year				Total Periods
			I SEM	Type	II SEM	Type	III SEM	Type	IV SEM	Type	V SEM	Type	VI SEM	Type	
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.							2	L/D	1	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

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.

Sl. No	Code	Subject	1 st Year				2 nd Year				3 rd Year				Periods
			I SEM	Type	II SEM	Type	III SEM	Type	IV SEM	Type	V SEM	Type	VI SEM	Type	
1.	SA-1	Basics of Social Service, weaker sections of our society and their needs.	2	L											2
2.	SA-2	Social / Rural Development Projects: MNREGA, SGSY, NSAP etc	2	L											2
3.	SA-3	NGOs : Role & Contribution			2	L									2
4.	SA-4	Contribution of youth towards social welfare			2	L									2
5.	SA-5	Family Planning										2	L		2
6.	SA-6	Drug Abuse & Trafficking			1	L	1	L							2
7.	SA-7	Civic Responsibilities	1	L									1	L	2
8.	SA-8	Causes & Prevention of HIV/AIDS; Role of youth					2	L							2
9.	SA-9	Counter Terrorism							2	L					2
10.	SA-10	Corruption					2	L			2	L			4
11.	SA-11	Social Evils viz Dowry/Female Foeticide/ Child abuse & trafficking etc									2	L	1	L	3
12.	SA-12	RTI & RTE							2	L					2
13.	SA-13	Traffic Control Org and Anti-drunken driving							1	L/P	2	L/P			3
14.	SA-14	Provisions of Protection of Children from Sexual Harassment Act 2012											2	L	2
		Total	5		5		5		5		6		6		32

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	1 st Year				2 nd Year				3 rd Year				T _{Per}
			I SEM	Type	II SEM	Type	III SEM	Type	IV SEM	Type	V SEM	Type	VI SEM	Type	
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.					2	L/P							2
7.	H7	Introduction to Yoga & Exercises.	2	L/D/P											2
Total			2		3		2		1		2		2		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	1 st Year				2 nd Year				3 rd Year				Total Periods	
			I SEM	Type	II SEM	Type	III SEM	Type	IV SEM	Type	V SEM	Type	VI SEM	Type		
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 -4	Cycling/ trekking							2	L/P						4
Total			2		6		2		5							15

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	1 st Year				2 nd Year				3 rd Year				Total Periods
			I SEM	Type	II SEM	Type	III SEM	Type	IV SEM	Type	V SEM	Type	VI SEM	Type	
1.	E-1	Natural Resources – Conservation & Management			2	L									2
2.	E-2	Water Conservation & Rainwater harvesting			2	L									2
3.	E-3	Waste Management.							2	L					2
4.	E-4	Pollution Control; Water, Air, Noise and Soil							2	L					2
5.	E-5	Energy Conservation										2	L		2
6.	E-6	Wildlife Conservation: Projects of India										2	L		2
Total					4				4			4		12	

11. National Integration & Awareness(NI)

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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	1 st Year				2 nd Year				3 rd Year				Total Periods
			I SEM	Type	II SEM	Type	III SEM	Type	IV SEM	Type	V SEM	Type	VI SEM	Type	
1.	NI-1	Religions, Culture, Traditions and Customs of India.	3	L											3
2.	NI-2	National Integration: Importance and Necessity			3	L									3
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.					1	L	2	L	1	L	1	L	5
5.	NI-5	Problems / Challenges of National Integration.									2	L	2	L	4
		TOTAL PERIODS	3		3		3		3		3		3		18

12. Paper / Project on NCC**Aim** To assess the cadet for the level of assimilation of the training conducted in three years.**Scope** NCC is essential for education of youth for development of the country.

Ser No	Code	Subject	1 st Year				2 nd Year				3 rd Year				Total Periods
			I SEM	Type	II SEM	Type	III SEM	Type	IV SEM	Type	V SEM	Type	VI SEM	Type	
1	P	Paper/ Project									6	L/P			6
Total											6				6

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BLOCK SYLLABUS
SPECIALISED SUBJECTS: SD/SW (ARMY)

Ser No	Subject	1 st Year		2 nd Year		3 rd Year		Total Periods
		I SEM	II SEM	III SEM	IV SEM	V SEM	VI SEM	
13.	Armed Forces	02	02	02	02	02	00	10
14	Map Reading	04	03	04	04	05	04	24
15.	Field Craft & Battle Craft	05	00	07	00	05	04	21
16	Introduction to Infantry Weapons & Equipment	00	00	02	02	02	05	11
17.	Military History	00	03	05	05	00	00	13
18.	Communication	03	00	00	05	00	03	11
	TOTAL	14	08	20	18	14	16	90

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13. Armed Forces (AF)**Aim** To acquaint cadets with the Armed Forces.**Scope** Introductory and general information about the Armed Forces.

Ser No	Code	Subject	1 st Year				2 nd Year				3 rd Year				Total Periods	
			I SEM	Type	II SEM	Type	III SEM	Type	IV SEM	Type	V SEM	Type	VI SEM	Type		
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	2		2		2		2		2					10

14. 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	1 st Year				2 nd Year				3 rd Year				Total Periods
			I SEM	Type	II SEM	Type	III SEM	Type	IV SEM	Type	V SEM	Type	VI SEM	Type	
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			2	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							1	L/P	2	L/P			3
10.	MR-9	Map to Ground, Ground to Map					2	L/P	1	L/P	2	L/P	1	L/P	6
11.	MR-10	Point to Point March									1	L/P	4	L/P	5
		Total	4		3		4		4		5		4		24

15. 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	1 st Year				2 nd Year				3 rd Year				Total Periods
			I SEM	Type	II SEM	Type	III SEM	Type	IV SEM	Type	V SEM	Type	VI SEM	Type	
1.	FC & BC-1	Introduction	1	L											1
2.	FC & BC-2	Judging Distance	2	L/P											2
3.	FC & BC-3	Description of ground	2	L/P											2
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					3	L/P							3
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											1	L/P	1
11.	FC & BC-11	Section Battle Drill											3	L/P	3
		Total	5				7				5		4		21

16. 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	1 st Year		2 nd Year		3 rd Year		Total Periods						
			I SEM	Type	II SEM	Type	III SEM	Type		IV SEM	Type	V SEM	Type	VI SEM	Type
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		2		2		5		11

17. 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	1 st Year				2 nd Year				3 rd Year				Total Periods	
			I SEM	Type	II SEM	Type	III SEM	Type	IV SEM	Type	V SEM	Type	VI SEM	Type		
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 Battles of Indo Pak war 1965, 1971 & Kargil					2	L	2	L/Di						4
4.	MH - 4	War Movies							3	M						3
		Total			3		5		5							13

18. 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	1 st Year				2 nd Year				3 rd Year				Total Periods
			I SEM	Type	II SEM	Type	III SEM	Type	IV SEM	Type	V SEM	Type	VI SEM	Type	
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				1	L/P	3
5.	C-5	Latest trends and development(Multi Media, Video Conferencing, IT)						1	L				2	L	3
		Total	3					5					3		11