



GUJARAT TECHNOLOGICAL UNIVERSITY

Program Name: NCC

Level: Bachelor in Engineering

Branch: Navy Cadets

Course / Subject Code : 1013NC02

Course / Subject Name : National Cadet Corps I

w. e. f. Academic Year:	2021-22
Semester:	3 rd (ODD)
Category of the Course:	Compulsory

Theory Course Objectives:

1	(a) Acquire knowledge about the various aspects of personality development.
2	(b) Understand the concept of leadership traits, moral values and character traits.
3	(c) Develop awareness about the various types of natural disasters.
4	(d) Develop sensitivity to the changing environment and understand the importance of conservation.
5	(e) Understand the importance of hygiene and sanitation and common first aid procedures.
6	(f) Acquire awareness about various types of weapon systems in the Armed Forces.

Theory Course Outcome:

No	Course Outcomes	RBT Level
01	(a) Acquire adequate skill sets to overcome their weakness and reshape their personality.	
02	(b) Imbibe good moral values and character traits in their daily life.	
03	(c) Become useful members of the society and form part of disaster response team, if need arises.	
04	(d) Respect and make efforts to conserve natural resources	
05	(e) Follow good personal hygiene practices and provide first aid in emergencies.	
06	(f) Be motivated to join the armed forces	

**Revised Bloom's Taxonomy (RBT)*

Teaching and Examination Scheme:

Teaching Scheme (in Hours)	Total Credits	Assessment Pattern and Marks	Total Marks
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			L+T+ (PR/2)					
L	T	PR	C	Theory		Tutorial / Practical		
				ESE (E)	PA / CA (M)	PA/CA (I)	ESE (V)	
02	00	06	05	0	0	0	0	0

Theory Course Content:

Unit No.	Content	No. of Hours	% of Weightage
1.	Unit 1. Personality Development (PD) (Contact Hrs. 04). Introduction to Personality Development, Factors influencing/shaping personality, Time Management and Interview Skills.	04	12
2.	Unit 2. Leadership (LDR) (Contact Hrs. 04). Leadership Traits, Moral Values and Character Traits.	04	12
3.	Unit 3. Disaster Management (DM) (Contact Hrs. 04). Assistance during natural disasters, Do's and Don'ts for NCC Cadets performing Disaster Management Duties	04	12
4.	Unit 4. National Integration and Awareness (NIA) (Contact Hrs. 04). Water Conservation and Rain Harvesting, Waste Management and Energy Conservation	04	12
5	Unit 5. Health and Hygiene (H&H) (Contact Hrs. 04). Hygiene and Sanitation, First Aid in Common Medical Emergencies.	04	12
6	Unit 6. Infantry Weapons (IW) (Contact Hrs. 02). Characteristics of Company Support Weapons.	02	6
7	Unit 7. Weapon Training (WT) (Contact Hrs. 04). Characteristics of Point 22 Rifle and its Ammunition, Range Procedure and Safety Precautions.	04	12
8	Unit 8. Military History (MH) (Contact Hrs. 04). Guest lectures by War Veterans/decorated soldiers/veterans.	04	11
9	Unit 9. Communication (COM) (Contact Hrs. 04). Basics of communication.	04	11
Total		34	100

Practical Course Objectives:



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01	(a) Understand that drill is the foundation of discipline and command a group for a common goal.
02	(b) Understand the importance of a weapon its detailed safety precautions necessary for prevention of accidents.
03	(c) Develop awareness about different types of terrain and how it is used in Battle Craft.
04	(d) Develop the concept of various markings on the map and how they are co-related to the ground features.
05	(e) Acquire awareness about the various types of weapon systems in the Armed Forces.
06	(f) Understand the concept and importance of social service. (g) Understand the various nuances of Personality Development.
07	(g) Understand the various nuances of Personality Development.
08	(h) Understand the concept and importance of Physical Training in everyone's life.
09	(i) Acquire skill sets about various games and understand the importance of team work
10	(j) Develop awareness about different cultures and different modes of its projection in artistic forms.

Practical Course Outcomes:

01	(a) Perform foot drill, arms drill, and ceremonial drill and will be able to give out different words of command.
02	(b) Fire a weapon effectively with fair degree of marksmanship.
03	(c) Undertake point to point navigation and take part in route marches by day and night.
04	(d) Use terrain effectively for concealment, camouflage, indicate landmarks and give field signals.
05	(e) Be motivated to join the armed forces.
06	(f) Acquire adequate skill sets to overcome their weakness and enhance their personality.
07	(g) Gain adequate physical and mental endurance capabilities.
08	(h) Play team games and be able to communicate and coordinate effectively in group events or situations.



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09	(i) Respect the diversity of Indian culture and develop pride by showcasing their own culture to others.
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Practical Course Content:

Unit No.	Content	No. of Hours	% of Weightage
1.	(a) Unit 1. Drill (Drill)(Contact Hrs. 16). Drill ki Aam Hidayaten aur Words of Command, Savdhan, Vishram, Aram Se aur Mudna, Khuli Line aur Nikat Line mein march, Salute Karna Parade Par, Visarjan aur Line Tod, Tej Chal, Tham aur Dhire Chal, Tham, Dahine, Baen, Aage aur Piche Kadam lena, Tejchaal se Mudna, Tejchaal se Salute karna, Tej kadamtaal aur Tham, Tej Kadamtaal se kadam badhana, Teenon Teen se ek file Banana aur ek file se Teenon Teen Banana, Rifle Ke Saath Saavdhan, Vishram aur Aaram se, Rifle ke saath Parade par aur saaj, Rifle Ke saath visarjan aur line tod, Bhumi Sashtira aur Uthao Sashtira, Bagal Sashtira aur Baaju Shastra	16	17
2.	Unit 2. Weapon Training (WT) (Contact Hrs. 14). Stripping, Assembling, Cleaning of Point 22 rifle, Sight Setting and Sight Picture of Point 22 Rifle, Loading, Cocking and Unloading, Lying Position, Holding and Aiming of Point 22 rifle, Trigger Control and Firing of Shot, Theory of Group, Short-Range Aiming and Firing, Firing Practice I to VII.	14	15
3.	Unit 3. Field Craft & Battle Craft (FC/BC) (Contact Hrs. 06).Introduction of Field Craft & Battle craft, Judging Distance, Indication of Landmarks and Targets, Observation, Camouflage and Concealment, Field Signals, Section formations.	06	6
4.	Unit 4. Map Reading (MR) (Contact Hrs. 12). Introduction to Map and Conventional signs, Scale and Grid System, Topographical forms and technical terms, Relief, Contours and gradients, Cardinal points and types of North, Types of Bearing and use of Service Protector, Prismatic Compass and its use, setting of a map, Finding North and own Position, Map to Ground and Ground to map, Point to Point march, Route March – I, Route March -II.	12	13
5.	Unit 5. Infantry Weapons (IW) (Contact Hrs. 01). Characteristics of Battalion Support Weapons.	01	2
6.	Unit 6. Social Service and Community Development (SSCD) (Contact Hrs. 04). Basics of Social Service and its need, Rural Development Programme,	04	5



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	Civic Responsibilities: Cadets will participate in various activities throughout the camp e.g., Blood donation Camp, Swachhata Abhiyan, Constitution Day, Jan Jeevan Hariyali Abhiyan, Beti Bachao Beti Padhao etc., Road /Rail Travel Safety		
7	Unit 7. Personality Development (PD) (Contact Hrs. 06). Self-Awareness, Empathy, Critical and Creative Thinking, Decision making and problem Solving, Coping with Stress and Emotions, Time Management.	06	6
8	Unit 8. Obstacle Training (OT) (Contact Hrs. 02). OT Practice – I:- Untimed, Cadets will be familiarized with all the obstacles in the Obstacle Course and briefed about the correct method to do them, OT Practice -II: Timed practice for all the cadets and record to be maintained.	02	3
9	Unit 9. Physical Training (PT) (Contact Hrs. 09). Physical Training will be carried out on each day of the camp, except on last day, in morning hours. Training has to be progressive in degree of difficulty to improve individual stamina and endurance. Training to include warming up, running, exercises to strengthen upper body, lower body and core muscles. Two period each to be devoted to route march by day and night respectively and one period will be earmarked for trekking expedition as part of Adventure Activity.	09	10
10	Unit 10. Games Training (G)(Contact Hrs. 09). Games Training will be carried out on each day of the camp, except on last day, in evening hours. Training has to be progressive in degree of difficulty to improve individual skills, coordination, team work and desire to excel. Training to ensure that each and every boy and girl cadets participate in at least one game activity everyday.	09	10
11	Unit 11. Cultural Activity (C)(Contact Hrs. 09). Cultural Activity will be carried out on each day of the camp, except on last day, in evening hours. Cadets have to divided in Nine Groups consisting of a mix of boy and girl cadets and preferably belonging to the same geographical area. Each group has to present the unique culture, custom, tradition, folk lore, songs, drama, paintings and cuisine during one hour allotted. There will be a prize for the best group to encourage participation and to develop pride in their unique culture. This training activity should ensure that each and every boy and girl cadet participate in at least one game activity every-day.	09	10
12	Unit 12. Spare (S)(Contact Hrs. 02). Two periods in each camp will be earmarked as spare to cover disruptions in training activity due to weather or other administrative reasons.	02	3
	Total	90	100



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