



# GUJARAT TECHNOLOGICAL UNIVERSITY

Program Name: Bachelor in Engineering

Level: BE

Branch: Navy Cadets

Course / Subject Code : 1012NC01

Course / Subject Name : National Cadet Corps II

|                         |                 |
|-------------------------|-----------------|
| w. e. f. Academic Year: | 2021-22         |
| Semester:               | 2 <sup>nd</sup> |
| Category of the Course: | Compulsory      |

## Theory Course Objectives:

| No | Course Objectives   |
|----|---|
| 1  | Understand the thinking & reasoning process.  |
| 2  | Understand the process to cope with Stress & emotions.  |
| 3  | Understand the importance of improving communication skills.  |
| 4  | Identify the leadership traits.   |
| 5  | Admire the qualities of great leaders.  |
| 6  | Know about different legal provisions for children & women safety and protection.   |
| 7  | Understand the various rules & measures to be taken to ensure Road/Rail safety.   |
| 8  | Understand & spread awareness about latest Government initiatives for welfare of citizens and contribute towards Nation building. |
| 9  | Understand concepts of cyber and mobile security.   |



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## Practical Course Objectives:

| No | Course Objectives  |
|----|--|
| 01 | Understand that drill as the foundation for discipline and to command a group for common goal.               |
| 02 | Appreciate grace and dignity in the performance of foot drill.   |
| 03 | Understand the importance of a weapon its detailed safety precautions necessary for prevention of accidents. |
| 04 | Use terrain effectively for concealment, camouflage, indicate landmarks and give field signals.              |

## Theory Course Outcome:

| No | Course Outcomes  |
|----|--|
| 01 | Define thinking, reasoning, critical thinking and creative thinking.               |
| 02 | To think critically about different life related issues.                           |
| 03 | Think divergently and will try to break functional fixedness.                      |
| 04 | Creatively in their real-life problems   |
| 05 | Understand the organizations related to disaster management and their functioning. |
| 06 | Appreciate the role of NCC cadets in disaster management.                          |



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## Practical Course Outcomes:

| No | Course Outcomes  |
|----|--|
| 01 | Perform foot drill gracefully.   |
| 02 | Give and follow the different word of command.   |
| 03 | Fire a weapon effectively with fair degree of marksmanship.                            |
| 04 | Use of bearing and service protractor and locate the places and objects on the ground. |
| 05 | Do the social service and feel connected with social problems.                         |

## Teaching and Examination Scheme:

| Teaching Scheme<br>(in Hours) |    |    | Total<br>Credits<br>L+T+ (PR/2) | Assessment Pattern and Marks |                |                      |         | Total<br>Marks |
|-------------------------------|----|----|---------------------------------|------------------------------|----------------|----------------------|---------|----------------|
| L                             | T  | PR | C                               | Theory                       |                | Tutorial / Practical |         |                |
|                               |    |    |                                 | ESE (E)                      | PA / CA<br>(M) | PA/CA (I)            | ESE (V) |                |
| 01                            | 00 | 02 | 02                              | 70                           | 30             | 20                   | 30      | 150            |

## Theory Course Content:

| Unit<br>No. | Content  | No. of<br>Hours | % of<br>Weightage |
|-------------|--|-----------------|-------------------|
| 1.          | <b><u>Personality Development</u></b><br>1.Thinking- Meaning and Concept of thinking, Reasoning, Process of thinking.<br>2.Critical Thinking- Meaning & concept of critical thinking, Features of critical thinking, Process of critical thinking.<br>3.Creative Thinking- Meaning & concept of creative thinking, Features of | 05              | 34                |



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|    |   |           |            |
|----|---|-----------|------------|
|    | creative thinking, Process of creative thinking, levels of Creativity, Characteristics of creative person.  |           |            |
| 2. | <p><b><u>Leadership Development</u></b></p> <p>(i) Leadership capsule.<br/>           (ii) Important Leadership traits, Indicators of leadership and evaluation.<br/>           (iii) Motivation- Meaning &amp; concept, Types of motivation. Factors affecting motivation.<br/>           (iv) Ethics and Honor codes.</p> | 05        | 33         |
| 3. | <p><b><u>Social Service and Community Development</u></b></p> <p>(i) Protection of Children &amp; Women Safety.<br/>           (ii) Road/Rail Safety.<br/>           (iii) New Government Initiatives.<br/>           (iv) Cyber and mobile Security Awareness.</p>   | 05        | 33         |
|    | <b>Total</b>  | <b>15</b> | <b>100</b> |

## Practical Course Content:

| Unit No. | Content  | No. of Hours | % of Weightage |
|----------|--|--------------|----------------|
| 1.       | <p><b><u>Drill :</u></b></p> <p>(i) Foot Drill Dahine, Baen, Aageaur Piche Kadam Lena.<br/>           (ii) Tej Chal se Murdna, Tej Chal se Salute Karna, Tej Kadam Taal aur Tham, Tej Kadam Taal se Kadam Badalna.<br/>           (iii) Teeno Teen se Ek File aur ek file se Teeno Teen Banana</p> | 12           | 40             |
| 2.       | <p><b><u>Weapon Training (WT).</u></b></p> <p>i.Range procedure &amp; Theory of group.<br/>           ii.Short Range firing.</p>   | 04           | 13             |
| 3.       | <p><b><u>Unit 3. Map Reading (MR).</u></b></p> <p>(i) Protractor Bearing and its conversion methods.<br/>           (ii) Service protractor and its uses.<br/>           (iii) Prismatic compass and its uses and GPS.<br/>           (iv) Navigation by compass and GPS.</p>                      | 05           | 17             |



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|----|---|-----------|------------|
| 4. | <b><u>Unit 4. Field Craft &amp; Battle Craft.</u></b><br>(i) Indications of landmarks and Targets.<br>(ii) Intro, Definitions, Types of Ground, Indication of Landmarks, Methods of iden of targets, difficult targets.   | 04        | 13         |
| 5. | <b><u>Unit 5. Social Service and Community Development (SSCD).</u></b> Cadets will participate in various activities throughout the semester e.g., Blood donation Camp, Swachhata Abhiyan, Constitution Day, Jan Jeevan Hariyali Abhiyan, Beti Bachao Beti Padhao etc. as per the requirement and similar announced days- National and state level. | 05        | 17         |
|    | <b>Total</b>  | <b>30</b> | <b>100</b> |

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