

**Academic Council Meeting No. and Date: 09 / July 02, 2024**

**Agenda Number : 03**

**Resolution Number : 41, 42 / 3.44, 3.45**



**Vidya Prasarak Mandal's  
B. N. Bandodkar College of  
Science (Autonomous), Thane**



**Syllabus for  
Extension Work in Vertical VI - CC  
Specific Programme: S.Y.B.Sc.  
Co-curricular Course of N.C.C.  
Level 5.0**

**CHOICE BASED GRADING SYSTEM**

**Revised Under NEP  
From academic year 2024 - 2025**

## **Preamble**

Immediately after independence, the Kashmir War of 1948 prompted the Government of India to reappoint the Kunjru Committee, whose recommendations led to the inception of the National Cadet Corps (NCC) on 16th July 1948. The 1962 Chinese aggression highlighted the need for youth preparedness, resulting in compulsory NCC enrollment of 17.16 million cadets. Since 1966, with voluntary enrollment, the NCC presently has 1.35 million cadets across 788 units under 95 groups, managed by senior officers, aiming to increase strength to 1.5 million.

NCC serves as a platform to foster patriotism, secular values, national unity, and social cohesion, while also contributing to the Armed Forces. However, NCC studies are not yet integrated into mainstream Indian higher education. Combining physical training with mental and intellectual pedagogy can greatly enhance the quality of this largest uniformed voluntary youth organization in the world.

Education requires time and varied learning processes, including instruction, experience, and integrated studies that provide a holistic approach. A well-planned curriculum blending theory and practical skills ensures quality learning experiences. The University of Mumbai's initiative aligns with the NCC motto of "Unity and Discipline," promoting evolved, patriotic, and responsible citizens. Embedding NCC in the curriculum can strengthen youth development, civic sense, and national commitment, preparing India's youth to contribute meaningfully to the nation.

### **Eligibility:**

Candidate must belong to S.Y.B.Sc. in any subject / combination of subjects

Duration : A Semester ( Semester III and IV )

Mode of conduct: Hybrid Mode ( Online / Offline )

## **PROGRAMME OUTCOMES (PO)**

*The Undergraduate Programmes of Science are intended to cater quality education and attain holistic development of learners through the following programme outcomes:*

### **➤ BACHELOR OF SCIENCE (B.Sc.)**

#### **PO1 - Disciplinary Knowledge**

Lay strong foundation of conceptual learning in science. Instil ability to apply science in professional, social and personal life.

#### **PO2 - Inculcation of Research Aptitude**

Ignite spirit of inquiry, critical thinking, analytical skills and problem-solving approach which will help learner to grasp concepts related to research methodology and execute budding research ideas.

#### **PO3 - Digital Literacy**

Enhance ability to access, select and use a variety of relevant information e-resources for curricular, co-curricular and extracurricular learning process.

#### **PO4 - Sensitization towards Environment**

Build cohesive bond with nature by respecting natural resources, encouraging eco-friendly practices and creating awareness about sustainable development.

#### **PO5 - Individuality and Team work**

Encourage learner to work independently or in collaboration for achieving effective results through practical experiments, project work and research activities.

#### **PO6 - Social and Ethical Awareness**

Foster ethical principles which will help in developing rational thinking and becoming socially aware citizens. Build attitude of unbiased, truthful actions and avoid unethical behaviour in all aspects of life.

**VPM's B.N.Bandodkar College of Science (Autonomous), Thane**  
**Co-curricular Course of NCC**

**Syllabus**

Course Code	Course Title	Credits	No. of lectures
23BU3CC602	<b>Defence and National Service Studies I</b>	<b>02</b>	<b>45</b>

CO1	Recall the fundamentals of national integration, awareness, drill procedures, and environmental conservation principles	L1
CO2	Explain the importance of personality development, leadership skills, and the role of NCC in fostering discipline and social responsibility.	L2
CO3	Demonstrate foot drills, adventure training techniques, and environmental conservation practices in real-life scenarios or field exercises.	L3
CO4	Analyze specialized subjects of the Army, Navy, and Air Force to assess their relevance to strategic training, leadership, and youth preparedness.	L4

	PO1	PO2	PO3	PO4	PO5	PO6
CO1	3	1	1	2	1	2
CO2	2	2	1	1	3	3
CO3	2	2	2	3	3	2
CO4	3	2	1	1	2	3

<b>Unit I</b>	National Integration & Awareness, Drill: Foot Drill, Adventure Training Environment Awareness and Conservation, Personality Development and Leadership, Specialized subject (ARMY / NAVY / AIRFORCE)	<b>15</b>
<b>Practicals</b>	1. Map reading 2. Field Craft and Battle Craft 3. Drill Parade	<b>30</b>

**References:**

1. NCC: Handbook of NCC Cadets for 'A', 'B' and 'C' Certificate Examinations by R.K. Gupta
2. National Cadet Corps NCC Handbook by Maj. RD Ahluwalia, Arihant Publications

Course Code	Course Title	Credits	No. of lectures
23BU4CC602	Defence and National Service Studies II	02	45

CO1	Explain the principles of disaster management, social awareness, community development, and health and hygiene for effective societal engagement.	L2
CO2	Demonstrate drill with arms, weapon handling, and map reading skills in practical field exercises and training sessions.	L3
CO3	Analyze field craft and battle craft strategies to assess tactical decision-making, situational awareness, and operational preparedness.	L4
CO4	Evaluate performance in drill parade, weapon training, and field exercises to identify strengths, weaknesses, and areas for improvement, fostering leadership and disciplined conduct.	L5

	PO1	PO2	PO3	PO4	PO5	PO6
CO1	3	2	1	3	2	3
CO2	2	2	2	1	3	2
CO3	2	3	1	1	3	3
CO4	2	2	1	1	3	3

<b>Unit I</b>	Disaster Management, Social Awareness and Community Development, Health and Hygiene, Drill with Arms, Weapon Training	<b>15</b>
<b>Practicals</b>	1. Map reading 2. Field Craft and Battle Craft 3. Drill Parade	<b>30</b>
<b>References:</b> <ol style="list-style-type: none"> <li>NCC: Handbook of NCC Cadets for 'A', 'B' and 'C' Certificate Examinations by R.K. Gupta</li> <li>National Cadet Corps NCC Handbook by Maj. RD Ahluwalia, Arihant Publications</li> </ol>		

	Course Code	SEMESTER-III	Course imparts Employability (EM), Entrepreneurship (EN), Skill Development (SD)			Course integrates with Professional Ethics (PE), Gender Equity (GE), Human Value (HV), Environmental Sustainability (ES)			
		Course Title	EM	EN	SD	PE	GE	HV	ES
CC	23BU3CC602	Defence and National Service Studies I	√	√	√	√	-	√	-
CC	23BU4CC602	Defence and National Service Studies II	√	√	√	√	-	√	-

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