

AC ITEM NO. : AC/MAR-22/3-NCC



Celebrating 63 Years of Glory

*Parle Tilak Vidyalaya Association's*  
**SATHAYE COLLEGE (AUTONOMOUS)**

NAAC accredited 'A' Grade (3<sup>rd</sup> Cycle)

Dixit Road, Vile Parle (E), Mumbai-57

Affiliated to  
**University of Mumbai**

**SYLLABUS FOR**  
**F.Y.B.A/ B.Com./B.Sc. – N.C.C Studies I & N.C.C Studies II**

As per **Choice Based Credit System** pattern of UGC  
To be implemented from Academic Year: 2022-2023

## **PREAMBLE:**

PTVA's Sathaye College (Autonomous) believes in implementing several measures to bring equity, efficiency and excellence in higher education system in conformity to the guidelines laid down by the University Grants Commission (UGC). In order to achieve these goals, all efforts are made to ensure high standards of education by implementing several steps to enhance the teaching-learning process, examination and evaluation techniques and ensuring the all-round development of students.

Immediately after independence, the Kashmir war of 1948 was a bitter pill prompting the Govt. of India to reappoint the Kunjru Committee whose recommendations were instrumental in the inception of NCC on the 16th July 1948. Chinese aggression in 1962 was an eye opener. The then Defence Minister Shri Krishna Menon resigned and the Architect of Modern Maharashtra Shri Yashwantrao Chavan was sworn in. Compulsion of NCC for youth was then felt inevitable, leading to an enrolment of 17.16 million youth. However, with voluntary enrolment recommenced in 1966, presently 1.35 million cadets are enrolled with the plans of raising the strength to 1.5 million, spread over 788 units under 95 NCC groups lead by ADG/DDG of the ranks of Major General/Brigadier equivalent in 17 Regional Directorates under the DG NCC who is of the rank of Lieutenant General. National Cadet Corps as an interface for building a sense of patriotism, secular values, national unity and social cohesion among the youth has also provided an effective channel contributing qualitatively to the Armed Forces. However, we must accept that 'NCC Studies' is not yet a part of vocabulary of the main stream of Indian Higher Education. If the practice of physical training, which is in vogue is supplemented with a pedagogy that encompasses mental & intellectual inputs, the quality of this largest uniformed voluntary youth organization in the world shall be enhanced manifold. With the introduction of 10+2+3 pattern in education, Inter Arts/Sc/Com came to an end in the University in 1977-78. Foundation Course which was introduced to enhance general awareness of the students played a good buffer. While introducing 'NCC Studies' as an optional subject for F.C. the same philosophy is adhered to, where the syllabus apart from having social relevance in the Indian milieu has emphasis on the overall development of personality.

Moreover, with the academic acknowledgement, the cadets will be better equipped to take up careers in civil services, defence, paramilitary, police and security forces further prompting

increased demand by the students, augmenting recruitment standards of NCC. Above all the students will get an opportunity to select credits of their own choice thus making a humble beginning of the 'choice based credit system' in its true sense the facility of 'credit transfer'. Educating people is not done by instant fiat. It requires time; and a variety of different processes of learning and teaching are involved into it vis-à-vis instruction, indoctrination, conditioning and learning by experience. Amongst many other ways the best suited approach is to provide for integrated studies by unifying various aspects ultimately resulting into wholeness for the essence of education. It is a subtle integration where no one aspect is stressed to the exclusion of another.

The students are thus provided with quality learning experience through meticulously planned curriculum with a perfect blend of theoretical knowledge & practical skills. The University of Mumbai with this pioneering effort in the State is poised to full-fill the motto of NCC "Unity and Discipline". Many of the advanced countries at some or the other point of time had military service mandatory for a recommended period. This democratic country with a wide diversity which is otherwise blessed with talents and resources can become a superpower only when each of the youth is an evolved personality who is a true patriot with national fervour and above all a good citizen with civic sense endorsing the need of NCC in the curriculum further.

#### **OBJECTIVES:**

- To create evolved youth, who will be equipped to contribute in the development of the nation.
- To train students so as to achieve their physical, mental, psychological and emotional development.
- To inculcate spirit of adventure, undertake adventure activities, to hone leadership qualities and risk taking abilities.
- To impart elementary knowledge about rifles and firing.
- To impart basic military training, to develop awareness about the defence forces and expose learners to military ethos / values.
- To make the students apply the knowledge in specialized military subject/ social topics/ cultural endeavours.

**Structure of the Course:**

The Board of Studies in NCC Studies in its meeting held on 2<sup>nd</sup> March 2022 has discussed, finalized and unanimously accepted the revised syllabus (as per CBCS pattern) prepared by committee. The titles of the papers for F.Y.B.A/ B.Com./B.Sc. – N.C.C Studies are given below;

<b>Semester</b>	<b>Course Code</b>	<b>Course Title</b>	<b>No of Credits</b>	<b>No of Lectures</b>
I	UGSC1NCC0122	NCC Studies – I	2	60
	UGBA1NCC0122			
	UGCO1NCC0122			
II	UGSC2NCC0122	NCC Studies - II	2	60
	UGBA2NCC0122			
	UGCO2NCC0122			

**SEMESTER-I**

**NCC Studies I**

**Course code: UGSC1NCC0122 / UGBA1NCC0122 / UGCO1NCC0122**

**Title: - NCC Studies I**

**Pre-requisites:**

Knowledge of Basic Concepts of NCC, its organization, Drill and Special Subjects

**Course Objectives:**

1. To create evolved youth, who will be equipped to contribute in the development of the nation.
2. To train students so as to achieve their physical, mental, psychological and emotional development.
3. To understand and develop life skills and soft skills and cultivate leadership qualities among the youth.
4. To impart basic military training, to develop awareness about the defence forces and expose learners to military ethos / values.

**Course Outcomes:**

On successful completion of this course students will be able to:

1. The training shall instil patriotism, commitment and passion to serve the nation motivating the youth to join the defence forces.
2. The students will demonstrate the sense of discipline, improve bearing, smartness, turnout, develop the quality of immediate and implicit obedience of orders, with good reflexes.
3. The student will be aware of the conservation of natural resources and protection of environment.

**Course Content :**

<b>UNIT</b>	<b>Description</b>	<b>Lectures</b>
<b>I</b>	<b>Introduction to NCC</b>	<b>12</b>
	Genesis and History	
	Aims, Objectives of NCC	
	NCC Song	
	Organisation & Training	
	Incentives & Benefits	
	<b>Reference Book:</b> <b>1. Cadet's Hand book – Common subject..all wings. BY DG NCC, New Delhi, Page No. 6-39</b> <b>2. Cadet's Hand book – Specialised Subjects, Army, Navy, Air-force BY DG NCC, New Delhi</b> <b>3. NCC OTA Precise BY DG NCC, New Delhi</b>	

<b>II</b>	<b>Personality Development</b>	<b>12</b>
	Introduction to Personality Development	
	Factors Influencing /Shaping Personality: Physical, Social, Physiological, Philosophical and Psychological	
	Self-Awareness Know yourself/ Insight , Change Your Mind Set	
	Communication Skills: Group Discussion / Lecurettes (Public Speaking)	
	Interview Skills	
	<b>Reference Book:</b> 1. <b>Cadet's Hand book – Common subject..all wings. BY DG NCC, New Delhi. Page No. 243-246 &amp; 316-339.</b> 2. <b>Cadet's Hand book – Specialised Subjects, Army, Navy, Air-force BY DG NCC, New Delhi</b> 3. <b>NCC OTA Precise BY DG NCC, New Delhi</b>	
<b>III</b>	<b>National Integration &amp; Awareness</b>	<b>12</b>
	Freedom Struggle & Nationalist movement in India.	
	Religions, Culture, Traditions and Customs of India , Unity in Diversity	
	National Integration: Importance and Necessity	
	National interests, Objectives, Threats and Opportunities.	
	Problems/ Challenges of National Integration.	
	<b>Reference Book:</b> 1. <b>Cadet's Hand book – Common subject..all wings. BY DG NCC, New Delhi. Page No. 342 – 352.</b> 2. <b>Cadet's Hand book – Specialised Subjects, Army, Navy, Air-force BY DG NCC, New Delhi</b> 3. <b>NCC OTA Precise BY DG NCC, New Delhi</b>	
<b>IV</b>	<b>Foot Drill</b>	<b>12</b>
	General and Words of Command	
	Attention, Stand at Ease and Stand Easy, Turning and Inclining at the Halt	
	Sizing, Forming Up in Three Ranks and Numbering, Open and Close Order March and Dressing	
	Saluting on the March, Saluting at the Halt, Getting On Parade, Dismissing and Falling Out	
	Marching, Length of Pace and Time of Marching in Quick Time and Halt, Slow March and Halt & Turning on the March and Wheeling.	

	<b>Reference Book:</b> <b>1. Cadet's Hand book – Common subject..all wings. BY DG NCC, New Delhi. Page No. 94-111.</b> <b>2. Cadet's Hand book – Specialised Subjects, Army, Navy, Air-force BY DG NCC, New Delhi</b> <b>3. NCC OTA Precise BY DG NCC, New Delhi</b>	
<b>V</b>	<b>A. Special Subject : Army</b>	<b>12</b>
	<b>Weapon Training - .22 Rifle &amp; 303 Rifle</b>	
	Characteristics of a Rifle / Rifle Ammunition and its Fire Power of .22 rifle.	
	Stripping, Assembling, Care and Cleaning and Sight Setting of .22 rifle	
	Characteristics of a Rifle / Rifle Ammunition and its Fire Power of. 303 Rifle	
	Stripping, Assembling, Care and Cleaning and Sight Setting of 303 Rifle	
	Practical	
	<b>B. Special Subject : Navy</b>	
	<b>Naval Communication(NC)</b>	
	Duties of various communication sub-departments	
	Introduction to naval modern communication	
	Phonetic Alphabets	
	Radio Telephony procedure	
	Wearing of flags	
	Semaphore	
	<b>C. Special Subject: Air Force</b>	
	<b>Aero modelling(AM)</b>	
	History	
	Materials used	
	Types of aero models	
	Flying/ building of aero models	
	Aero modelling capsule	
	<b>Reference Book:</b> <b>1. Cadet's Hand book – Common subject..all wings. BY DG NCC, New Delhi. Page No. 112-115.</b> <b>2. Cadet's Hand book – Specialised Subjects, Army, Navy, Air-force BY DG NCC, New Delhi</b> <b>3. NCC OTA Precise BY DG NCC, New Delhi</b>	
<b>Total</b>	<b>60</b>	
* The said contact sessions include practical and theory sessions.		

<b>Additional References Books:</b>		
Humanistic Tradition of India	N.L.Gupta	Mohit Publication, New Delhi
Social psychology	Baron & Byrne	Pearson Publication, 12 <sup>th</sup> Edition self awareness know yourself / insight (110) Group & Individuals (374) Group discussion
Chanakya's 7 Secrets of Leadership	Radhakrishanan Pillai and D.Shivnandhan	Jaico
Social Psychology: Understanding Human Interaction	Baron, Robert A.	(302/BAR/BYR),7 <sup>th</sup> Edition
Seven Habits of Highly Effective People.	Covey , Stephen	
The Habit of Winning.	Iyer , Prakash	Penguin , India ; 2011
The Goal	Goldratt , Eliyahu	The Northriver press ; 1994
Freedom Struggle	Chandra Bipin	National Book Trust 1972
Freedom of Religion and The Indian Judiciary	Bachal V.M. , Shubhada Saraswat	(362P)
India 1996- A Reference Annual Govt. of India		
Saha Soneri Pane	Vinayak D. Savarkar	
Environmental Biology and Toxicology	P.D. Sharma.	Rastogi Publication
Environmental Science	S.C. Santra	New Central Book Agency
National Cadet Corps (India)	Lambert M. Surhone, Mariam T. Tennoe, Susan F. Henssonow	Betascript Publishing, 2011
National Cadet Corps, Youth in Action (Google eBook)	National Cadet Corps (India)	Lancer Publishers, 2003
Youth in Step: History of the National Cadet Corps	V. Longer	Lancer international, 1983 Original from the University of Michigan
National Cadet Corps of India	Man Mohan Sharma	Vision Books, 1980 Original from the University of Michigan
The National Cadet Corps Act, 1948, as Modify Up to the 1 <sup>st</sup> July 1963	India	Government of India Press, 1963 (Military Law)
Cadet Corps in India: Its Evolution and Impact	Satis Chandra Maikap	Darbari Udyog, 1979 Original from the University of California



National Cadet Corps: 100 Years of Distinction	National Cadet Corps (Singapore)	NCC
The NCC	Singapore, National Cadet Corps Council	National Cadet Corps Council
Grooming Tomorrow's Leaders: National Cadet Corps, 1917-2006	R.S. Chhettri	Lancer Publishers, 2006
National Civil Defence Cadet Corps	Lambert M. Surhone, Mariam T. Tennoe, Susan F. Henssonow	Betascript Publishing, 2011
Discovery of India	Jawaharlal Nehru	
Health and Hygiene	Manoj. J.S.	Agra University Publication
Yoga for Healing	Venkateswaran P.S.	Bombay:- Jaico Publishing House 1989
Yoga Illustrated	New Delhi	Ministry of Information and Broadcasting, 1995
Yoga Practice, 1972	Shivnande Swami	Mumbai:- D.B. Taraporewala 1972
Yoga of Patanjali-1979	Yardi M.R.	Bhandarkar Oriental Research Institute- 1974
Sustainable Development ( An Alternative Paradigm)	Satpathy , N.	Karnavati Publications , Ahmedabad.
Global Partners for Sustainable Development	Pachauri R.K & Srivastava L.	Tata Energy Research Institute, New Delhi ; 1994, 1998
Ecology and the Politics of survival : Conflict over Natural Resources in India	Shiva , Vandana	Sage Publications , California , 1991

**SEMESTER-II**

**NCC Studies II**

**Course code: UGSC1NCC0122 / UGBA1NCC0122 / UGCO1NCC0122**

**Title : NCC Studies II**

**Pre-requisites:**

Knowledge of Basic Concepts of NCC, its organization, Drill and Special Subjects

**Course Objectives:**

1. To empower and train youth to be responsible citizens and assist civil administration in performance of selective duties during disaster.
2. To teach the values and skills involved in providing voluntary social service
3. To instil respect and responsibility towards personal health and hygiene.
4. To impart elementary knowledge about rifles and firing.
5. To make the students apply the knowledge in specialized military subject/ social topics/ cultural endeavours

**Course Outcomes:**

On successful completion of this course students will be able to:

1. The student shall have an understanding about social service and its need, about NGOs and shall participate in community action programmes for betterment of the community.
2. The student shall be fully aware about personal health and hygiene lead a healthy life style and foster habits of restraint and self awareness.
3. It will also acquaint, expose & provide basic knowledge about armed, naval and air-force subjects.

**Course Content :**

UNIT	Description	Lectures
<b>I</b>	<b>Introduction to Army</b>	<b>12</b>
	Basic organisation of Armed Forces	
	Organisation of Army	
	Badges and Ranks	
	Biographies of renowned Generals (Carriapa / Sam Manekshaw)	
	Indian Army War Heroes- PVCs	
	<b>Reference Book:</b>	
1. <b>Cadet's Hand book – Common subject..all wings. BY DG NCC, New Delhi. Page Ni. 74-93.</b>		
2. <b>Cadet's Hand book – Specialised Subjects, Army, Navy, Air-force BY DG NCC, New Delhi</b>		
3. <b>NCC OTA Precise BY DG NCC, New Delhi</b>		

<b>II</b>	<b>Environment Awareness and Conservation</b>	<b>12</b>
	Resources and its Types	
	Conservation and Management of Resources	
	Waste management & Pollution control methods\	
	Components & Types of ecology	
	Food Chain & Food Web, Flow of energy	
	<b>Reference Book:</b> <ol style="list-style-type: none"> <li><b>Cadet's Hand book – Common subject..all wings. BY DG NCC, New Delhi. Page No. 305-315.</b></li> <li><b>Cadet's Hand book – Specialised Subjects, Army, Navy, Air-force BY DG NCC, New Delhi</b></li> <li><b>NCC OTA Precise BY DG NCC, New Delhi</b></li> </ol>	
<b>III</b>	<b>Social Awareness and Community Development:</b>	<b>12</b>
	NGOs: Role & Contribution	
	Social Evil viz. Dowry/ Female Foeticide/Child Abuse & trafficking, Drug Abuse & Trafficking etc.	
	Traffic Control Org. & Anti drunken Driving	
	Corruption	
	RTI & RTE	
	<b>Reference Book:</b> <ol style="list-style-type: none"> <li><b>Cadet's Hand book – Common subject..all wings. BY DG NCC, New Delhi. Page No. 353-362</b></li> <li><b>Cadet's Hand book – Specialised Subjects, Army, Navy, Air-force BY DG NCC, New Delhi</b></li> <li><b>NCC OTA Precise BY DG NCC, New Delhi</b></li> </ol>	
<b>IV</b>	<b>Squad Drill.</b>	<b>12</b>
	General and Words of Command	
	Formation of squad and squad drill	
	Saluting on the march	
	Side pace, pace forward and to the rear, Changing step	
	Turning on the march and Wheeling, Marking time, forward march and halt in quick time	

	<b>Reference Book:</b> <ol style="list-style-type: none"> <li><b>Cadet's Hand book – Common subject..all wings. BY DG NCC, New Delhi. Page No. 94-111.</b></li> <li><b>Cadet's Hand book – Specialised Subjects, Army, Navy, Air-force BY DG NCC, New Delhi</b></li> <li><b>NCC OTA Precise BY DG NCC, New Delhi</b></li> </ol>	
<b>V</b>	<b>A. Special Subject : Army</b>	<b>12</b>
	<b>Weapon Training - .INSAS &amp; 7.62 SLR</b> Characteristics of a Rifle / Rifle Ammunition and its Fire Power of INSAS. Stripping, Assembling, Care and Cleaning and Sight Setting of INSAS Characteristics of a Rifle / Rifle Ammunition and its Fire Power of 7.62 SLR Stripping, Assembling, Care and Cleaning and Sight Setting of 7.62 SLR Practical	
	<b>B. Special Subject: Navy</b> Introduction of position of letters and prosigns Reading of messages , Transmission of messages Navigation of Ship - basic Requirements Types of compass Chart work, Tides, Winds and Tides	
	<b>C. Special Subject: AirForce</b> Aero Engines (AE) - Introduction Types of engines - Piston engine , Jet engine Aircraft controls and parts of aircraft Turbo prop engine , Consolidation	
	<b>Reference Book:</b> <ol style="list-style-type: none"> <li><b>Cadet's Hand book – Common subject..all wings. BY DG NCC, New Delhi. Page No. 112-134</b></li> <li><b>Cadet's Hand book – Specialised Subjects, Army, Navy, Air-force BY DG NCC, New Delhi</b></li> <li><b>NCC OTA Precise BY DG NCC, New Delhi</b></li> </ol>	
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The Habit of Winning.	Iyer , Prakash	Penguin , India ; 2011
The Goal	Goldratt , Eliyahu	The Northriver press ; 1994
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Yoga for Healing	Venkateswaran P.S.	Bombay:- Jaico Publishing House 1989
Yoga Illustrated	New Delhi	Ministry of Information and Broadcasting, 1995
Yoga Practice, 1972	Shivnande Swami	Mumbai:- D.B. Taraporewala 1972
Yoga of Patanjali-1979	Yardi M.R.	Bhandarkar Oriental Research Institute- 1974
Sustainable Development ( An Alternative Paradigm)	Satpathy , N.	Karnavati Publications , Ahmedabad.
Global Partners for Sustainable Development	Pachauri R.K & Srivastava L.	Tata Energy Research Institute, New Delhi ; 1994, 1998
Ecology and the Politics of survival : Conflict over Natural Resources in India	Shiva , Vandana	Sage Publications , California , 1991

**EXAMINATION PATTERN**

**A) Continuous Internal Assessment (40 Marks):**

<b>Sr. No.</b>	<b>Particulars</b>	<b>Marks</b>
1	One Practical/Assignment/Project work/Field visit reports/ etc. to be conducted in the given semester before Semester end examination.	20
2	One online/offline class test.	10
3	Active participation in routine class instructional deliveries.	5
4	Overall conduct as a responsible learner, mannerism and articulation and exhibit of leadership qualities in organizing related academic activities	5

**B) Semester End Examination (60 Marks):**

Question Paper Pattern

1. These examinations shall be of 2 Hours duration. Maximum marks 60.
2. There shall be six questions each of 10 marks.
3. Q.1 will contain 10 marks objectives, i.e. Fill in the Blanks and True or False from all the units.
4. Q.2 – Q.6 will contain long questions from Unit no. 1 to Unit no. 5 respectively, as per the directive of BOS.
5. All questions shall be compulsory with internal choice within the questions.
6. Question may be subdivided into sub-questions a, b, c. and the allocation of marks depend on the weightage of the topic.

**NCC Studies – I**

**Instructions:**

1. Ensure that the proper question paper is given to you.
  2. All questions are compulsory.
  3. Figure to the right indicate the full marks.
  4. Draw neat diagram whenever necessary.
  5. Use of non-programmable calculator is allowed.
  6. Symbols have usual meaning unless otherwise stated.
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Q 1. A. Fill in the blanks (05)

- i. Unit I
- ii. Unit II
- iii. Unit III
- iv. Unit IV
- v. Unit V

Q 1. B. State whether following statements are True or False (05)

- i. Unit I
- ii. Unit II
- iii. Unit III
- iv. Unit IV
- v. Unit V

Q 2. Attempt any **TWO** of the following : (10)

- i. Unit I
- ii. Unit I
- iii. Unit I
- iv. Unit I

Q 3. Attempt any **TWO** of the following : (10)

- i. Unit II
- ii. Unit II
- iii. Unit II
- iv. Unit II

Q 4. Attempt any **TWO** of the following : (10)

- i. Unit III
- ii. Unit III



iii. Unit III

iv. Unit III

Q 5. Attempt any **TWO** of the following : (10)

i. Unit IV

ii. Unit IV

iii. Unit IV

iv. Unit IV

Q 6. Attempt any **ONE** of the following : (10)

A) Unit V (Army Wing) (any **TWO**)

i. Unit V

ii. Unit V

iii. Unit V

iv. Unit V

B) Unit V (Navy Wing) (any **TWO**)

i. Unit V

ii. Unit V

iii. Unit V

iv. Unit V

C) Unit V (Airforce Wing) (any **TWO**)

i. Unit V

ii. Unit V

iii. Unit V

iv. Unit V

**Board of Studies (BOS)**

Sr. No.	Name	Category	Affiliation
1	Lt Gaurang Rajwadkar	Head of the Department <b>(Chairman).</b>	PTVA's Sathaye College
2	Dr. Shrikant Ghadge,	Subject Expert outside parent university	M.S. Kakade College, Someshwar Nagar, Tal-Baramati, Dist-Pune-412306.
3	Capt Nazia Sayyad, ANO	Subject Expert outside parent university	M.D.Shah College, SNTD, B.J.Patel Road, Aadarsh Nagar, Malad, Mumbai-400 064.
4	Dr. Maj. Urmila Sarkar	Subject Expert nominated by VC	Kirti M. Doongursee College Kashinath Dhuru Road, Off. Veer Savarkar Marg, Dadar West, Mumbai 400028, Maharashtra
5	Nishant Namdev Dhuri,	Industry/corporate sector/allied area relating to placement	Police Sub-Inspector, Maharashtra Police, Room No.5, Dake Chawl, New Agripada, Santacruz (East), Mumbai
6	Shri Vinay Khaire	Postgraduate meritorious alumnus	Lecturer , B.A.Mahad College, Raigad
7	Dr. Capt. Sunil Bapu Kadam,	Experts from outside the college (parent university)	N.G. Aacharya & D.K. Marathe College of Arts, Science & Commerce, Chembur, Mumbai.
8	Lt.Preeti Jha	Experts from outside the college (parent university)	Assistant Professor, Rajasthani Sammelan's Educational Complex, Swami Vivekananda Rd, Mandlik Nagar, Sunder Nagar, Malad West, Mumbai, Maharashtra 400064
9	Lt. Kasturi Medhekar (CB)	Faculty of the Department	PTVA's Sathaye College