



Karmaveer Bhaurao Patil University, Satara

Faculty of Science and Technology

## B. Sc. (Military Science and NCC)

Programme and Credit Structure as per NEP 2020 (NEP 2.0)

{Ref. Government of Maharashtra letter no. □□□□□.□□□□/□□□□.□.□□/□□□□-□□□ □□ □□ □□□□□□: □□  
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The degree shall be titled as 'Bachelor of Science (Military Science and NCC) under the Faculty of  
Science and Technology

**B. Sc. Sem. I & II from Academic Year 2024-25**

**B. Sc. Sem. III & IV from Academic Year 2025-26**

**B. Sc. Sem. V & VI from Academic Year 2026-27**

### Programme Outcomes for B. Sc. (Military Science and NCC)

PO. No.	Programme Outcomes After completing B. Sc. Programme the students will be able to.....
PO-1	acquire a comprehensive understanding of the fundamental concepts, theories, and principles in the discipline.
PO-2	use critical thinking and reasoning to interpret data, identify patterns, and draw conclusions.
PO-3	engage in scientific inquiry and research, using appropriate methodologies to investigate questions and generate new knowledge
PO-4	gain proficiency in the use of modern tools, techniques, and technologies relevant to the scientific field
PO-5	develop the ability to effectively communicate scientific ideas and findings, both orally and in writing, to a variety of audiences.
PO-6	recognize the societal and environmental implications of scientific work and act responsibly.
PO-7	engage in interdisciplinary learning and research to address complex issues.
PO-8	foster a commitment to continuous learning and professional development
	<b>Programme Specific Outcomes</b>
PSO. NO	<b>After completing B. Sc. (Military Science and NCC) Programme the students will be able to...</b>
PSO-1	understand and apply various military tactics and operations in different scenarios.
PSO-2	use the theoretical knowledge gained in military science to excel in NCC training and

	activities.
PSO-3	critically evaluate national security concerns and understand their implications for defense planning.
PSO-4	plan, organize, and execute military drills and exercises efficiently.
PSO-5	gain knowledge of military weaponry and equipment, including their operation and maintenance.
PSO-6	develop strategic thinking abilities, enabling them to contribute to defense planning and operations.
PSO-7	well-equipped to conduct research on military and defense-related topics, contributing to academic and practical advancements.
PSO-8	well-prepared for careers in defense services, leveraging their knowledge and training in military science and NCC.

### Semester, Credit Framework, NSQF Level and Exit Points

Sr. No.	Semester	Year	Year	Credits	Level	Exit Points & Award
1	Sem. I & II	2024-25	1Year	44	4.5	UG Certificate in Military Science and NCC
2	Sem. III & IV	2025-26	2Year	88	5.0	UG Diploma in Military Science and NCC
3	Sem. V & VI	2026-27	3Year	132	5.5	B. Sc. in Military Science and NCC (UG Three Year Degree)

### Credit Distribution

Sr. No.	Course	3 Year Degree Programme			4 Year Honors Degree Programme			4 Year Honors with Research Degree Programme		
		Courses	Credits	%	Courses	Credits	%	Courses	Credits	%
		(3 Yr)	(3 Yr)		(4 Yr)	(4 Yr)		(4 Yr)	(4 Yr)	
1	Major	26	52	39.39	34	80	45.45	32	72	40.91
2	Elective	04	08	6.06	08	16	9.09	08	16	9.09
3	IKS	02	04	3.03	02	04	2.27	02	04	2.27
4	VSC	04	08	6.06	04	08	4.55	04	08	4.55
5	FP	01	02	1.52	01	02	1.14	01	02	1.14
6	OJT	01	04	3.03	02	08	4.55	01	04	2.27
7	RP	00	00	0.00	00	00	00	02	12	6.82
8	SEC	03	06	4.55	03	06	3.41	03	06	3.41
9	CEP	01	02	1.52	01	02	1.14	01	02	1.14

Total ( Major) (A)		42	86	65.15	55	126	71.59	54	126	71.59
1	Minor & RM	12	24	18.18	13	28	15.91	13	28	15.91
Total (Minor) (B)		12	24	18.18	12	28	15.91	13	28	15.91
1	OE	04	08	6.06	04	08	4.55	04	08	4.55
2	AEC	04	08	6.06	04	08	4.55	04	08	4.55
3	VEC	02	04	3.03	02	04	2.27	02	04	2.27
4	CC	01	02	1.52	01	02	1.14	01	02	1.14
Total (C)		11	22	16.67	11	22	12.50	11	22	12.50
Grand Total (A+B+C)		65	132	100	79	176	100	78	176	100

**Duration:**

- The program shall be a full-time program.
- The duration of the program shall be three years for Bachelor of Science.
- Every year students will have exist option with:
- (1<sup>st</sup> Year: Certificate, 2<sup>nd</sup> Year: Diploma, 3<sup>rd</sup> Year: Degree)
- These students are allowed to re-enter the degree program within three years and complete the degree program within the stipulated maximum period of Seven Years.

**Eligibility:** 12<sup>th</sup> Pass with Science, or equivalent.

**Medium of Instruction:** The medium of instructions shall be in English, Roman English.

**Scheme of Examination & Standard of Passing (CCE and ESE):**

- End Semester Exam (ESE): 30 Marks (Min 12 Marks for Passing)
- Continuous Comprehensive Evaluation (CCE): 20 Marks (Min 08 Marks for Passing)
- Total Marks = 50 Marks
- Minimum 40% Marks Required for Passing and there is separate head of Passing for End Semester Examination (ESE) and Continuous Comprehensive Evaluation (CCE).
- A candidate who acquire 32 credits or more during semester – I & II shall be admitted to B. Sc. II (appear for semester – III & IV examination).
- However the candidate shall not be admitted to B.Sc. III (Semester - V) unless he/she passed in all the subjects at B.Sc. I (Semester - I & Semester - II) and acquire 32 credits or more during semester – III & IV.
- However under the National Education Policy the rules extended by KBP University, time to time regarding ATKT will be applicable.

**Eligibility of the Core Faculty:**

- As per rules and regulations of Karmaveer Bhaurao Patil University, Satara and Govt. of

Maharashtra.

**Eligibility for Professor of Practice or Professional Trainer:**

- Any other eligibility as per the guidelines and regulations passed by concern board of studies, academic council of the autonomous college and rules & regulations of Karmaveer Bhaurao Patil University, Satara and Government of Maharashtra and UGC norms.



**Karmaveer Bhaurao Patil University, Satara**  
**Faculty of Science and Technology**  
**B. Sc. (Military Science and NCC)**

**B. Sc. (Military Science and NCC) Part-I**

<b>Semester I</b>				
<b>Sr. No.</b>	<b>Components</b>	<b>Course Code</b>	<b>Course</b>	<b>Credits</b>
1	Course-I	BNCCT111	Fundamentals of Military Science	02
		BNCCT112	National Cadets Corps and Nation Development	02
		BNCCP113	Military Science and NCC Practical Lab - I (Practical Based on BNCCT111 and BNCCT112)	02
2	Course-II	-	DSC I, DSC II, DSP I	06
3	Course-III	-	DSC I, DSC II, DSP I	06
4	OE	BNCCTOE1	Human Psychology P-I	02
5	IKS	BNCCTIKS1	Introduction to Indian Knowledge System	02
			<b>Total</b>	<b>22</b>
<b>Semester II</b>				
<b>Sr. No.</b>	<b>Components</b>	<b>Course Code</b>	<b>Course</b>	<b>Credits</b>
1	Course-I	BNCCT121	National Security of India	02
		BNCCT122	Organization of Infantry Battalion and Weapons	02
		BNCCP123	Military Science and NCC Practical Lab - II (Practical Based on BNCCT121 and BNCCT122)	02
2	Course-II	-	DSC III, DSC IV, DSP II	06
3	Course-III	-	DSC III, DSC IV, DSP II	06
4	OE	BNCCTOE2	Human Psychology P-II	02
5	VEC	BNCCTVEC1	Democracy, Election and Indian Constitution	02
			<b>Total</b>	<b>22</b>
<b>EXIT OPTION:</b> Award of UG Certificate in Major <b>with 44 credits</b> & an additional 4 credits core NSQF Course/Internship OR Continue with Major & Minor.				

**B. Sc. (Military Science and NCC) Part-II**

<b>Semester III</b>				
<b>Sr. No.</b>	<b>Components</b>	<b>Course Code</b>	<b>Course</b>	<b>Credits</b>

1	Major	BNCCT231	Ballistics and Tactics of Infantry Weapon Systems	02
2	Major	BNCCT232	Defence Management, Leadership and Personality Development	02
3	Major Lab-III	BNCCP233	Military Science and NCC Practical Lab - III (Practical Based on Paper V and Paper VI)	02
4	Minor	-	DSC V, DSC VI, DSP III	06
5	OE	BNCCTOE3	Human Psychology P-III	02
6	VSC	BNCCPVSC1	Military Musician	02
7	SEC	BNCCPSEC1	Communication and Leadership Skills	02
8	AEC	BETAEC1	English P-I	02
9	IKS	BNCCTIKS2	Indigenous Knowledge in Traditional Warfare and Technology	02
<b>Total</b>				<b>22</b>

#### Semester IV

Sr. No.	Components	Course Code	Course	Credits
1	Major	BNCCT241	Field Engineering and Strategic Warfare	02
2	Major	BNCCT242	Military Navigation, Terrain Analysis, and Tactics	02
3	Major Lab IV	BNCCP243	Military Science and NCC Practical Lab - IV (Practical Based on Paper VII and Paper VIII)	02
4	Minor	-	DSC VII, DSC VIII, DSP IV	06
5	OE	BNCCTOE 4	Human Psychology P-IV	02
6	VSC	BNCCPVSC2	Technical Writing and Documentation	02
7	SEC	BNCCPSEC2	Ballistics and Armament Maintenance Skills	02
8	AEC	BNCCTAEC2	English P-II	02
9	VEC	BNCCTVEC2	Environmental Studies	02
<b>Total</b>				<b>22</b>

**EXIT OPTION:** Award of UG Diploma in Major and Minor with **88 Credits** & an additional 4 credits core NSQF Course/ Internship OR Continue with Major & Minor

#### B. Sc. (Military Science and NCC) Part-III

#### Semester V

Sr. No.	Components	Course Code	Course	Credits
1	Major	BNCCT351	Operational Research for Military Strategy	02
2	Major	BNCCT352	Fundamental Military Electrical Engineering	02
3	Major	BNCCT353	Health, Hygiene and Home Nursing	02
4	Electives	BNCCT354	Field Craft and Battle Craft	02

	(Any one out of two)	BNCCT354	Introduction to Unmanned Aerial Vehicles (UAVs)	02
5	Major Lab	BNCCP355	Military Science and NCC Practical Lab – V	02
6	Elective Lab	BNCCP356	Military Science and NCC Elective Practical Lab – I	02
7	VSC	BNCCPVSC3	Radio and Signal Equipment Handling Technician	02
8	AEC	BNCCTAEC3	English P-III	02
9	OJT	BNCCPOJT1	On Job Training in Military Science and NCC I	04
10	CEP	BNCCTCEP1	Community Engagement Programme in Military Science and NCC	02
			<b>Total</b>	<b>22</b>
<b>Semester VI</b>				
<b>Sr.</b>	<b>Components</b>		<b>Course</b>	<b>Credits</b>
1	Major	BNCCT361	Statistical Data Analysis in Military Operations	02
2	Major	BNCCT362	Military Communication Engineering and Systems	02
3	Major	BNCCT363	Physiology of Military Fitness and Endurance	02
4	Electives (Any one out of two)	BNCCT364	Principles and Techniques of Tactical Training	02
		BNCCT364	Satellite Navigation Systems and Military Applications	02
5	Major Lab	BNCCP365	Military Science and NCC Practical Lab – VI	02
6	Elective Lab	BNCCP366	Military Science and NCC Practical Elective Lab – II	02
7	VSC	BNCCPVSC4	Repairing of Military Mechanical and Electronics Equipment	02
8	SEC	BNCCPSEC3	SSB (Services Selection Board) interview Skills	02
9	FP	BNCCPFP1	Field Project in Military Science and NCC	02
10	CC	BNCCTCC1	Co-curricular Course in Military Science and NCC	02
11	AEC	BNCCTAEC4	English P-IV	02
			<b>Total</b>	<b>22</b>
<b>EXIT OPTION:</b> Award of UG Degree in Major with <b>132 credits</b> OR Continue with Major & Minor.				

Chairman  
BoS in Military Science and  
NCC

Secretary  
Academic Council

Chairman  
Academic Council