



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
	Programme Specific Outcomes
PSO. NO	After completing B. Sc. (Military Science and NCC) Programme the students will be able to...
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 (3 Yr)	Credits (3 Yr)	%	Courses (4 Yr)	Credits (4 Yr)	%	Courses (4 Yr)	Credits (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:
- (1st Year: Certificate, 2nd Year: Diploma, 3rd 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: 12th 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

Semester I				
Sr. No.	Components	Course Code	Course	Credits
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
			Total	22
Semester II				
Sr. No.	Components	Course Code	Course	Credits
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
			Total	22
EXIT OPTION: Award of UG Certificate in Major with 44 credits & an additional 4 credits core NSQF Course/Internship OR Continue with Major & Minor.				

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

Semester III				
Sr. No.	Components	Course Code	Course	Credits

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
Total				22

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
Total				22

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
			Total	22
Semester VI				
Sr.	Components		Course	Credits
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
			Total	22
EXIT OPTION: Award of UG Degree in Major with 132 credits OR Continue with Major & Minor.				

Chairman
BoS in Military Science and
NCC

Secretary
Academic Council

Chairman
Academic Council