

**GONDWANA UNIVERSITY,  
GADCHIROLI**



(Structure and Syllabus of Four Years Multidisciplinary  
Degree Program with Multiple Entry and Exit Option)

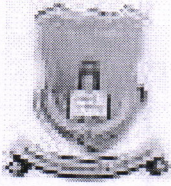
**FACULTY OF HUMANITIES**

**First Year Structure and Syllabus  
B.A. SEMESTER I TO II**

**MILITARY SCIENCE (NCC)**

Major in DSC

Effective from Academic year 2024-2025  
(As per NEP – 2020)



**GONDWANA UNIVERSITY GADCHIROLI**

**NEP 2020 CURRICUAM FRAMWORK**

**FOUR YEAR HONOURS & RESEARCH DEGREE IN MILITARY**

**SCIENCE (NCC)**

**SESSION – 2024-25**

**Members of the Board of Studies in the subject of Military Science (NCC)  
under the faculty of Humanities**

<b>Sr. No.</b>	<b>Name of the Member</b>	<b>Designation</b>	<b>Address with mail ID</b>	<b>Contact No.</b>
1	Lt. Dr.Mahesh Chand Sharma	Chairman	Gurunanak College of Science, Ballarpur <a href="mailto:dr.mcsharma@hotmail.com">dr.mcsharma@hotmail.com</a>	9673950001
2	Lt. Yogesh R Tekade	Member	Mahatma Jyotiba Fule Mahavidyalaya, Ballarpur <a href="mailto:yogeshtekade@gmail.com">yogeshtekade@gmail.com</a>	9049868001
3	Lt. Praful Bansod	Member	Rashtsant Tukdoji College, Chimur <a href="mailto:prafullbansod7@gmail.com">prafullbansod7@gmail.com</a>	9421720317
4	Lt. Sachin Shrirame	Member	Nilkanthrao Shinde College, Bhadrawati <a href="mailto:shrirame827528@gmail.com">shrirame827528@gmail.com</a>	7972439874
5	Mr. Bharatbhushan W Balbuddhe	Member	Swami Vivekanand College, Mukramabad <a href="mailto:bharatbal20@gmail.com">bharatbal20@gmail.com</a>	7588549223
7	Dr. kiran Chakre	Member	SRT college, Ambajogai <a href="mailto:kiranchakre@gmail.com">kiranchakre@gmail.com</a>	9434477009

**Gondwana University, Gadchiroli**

**NEP 2020 U.G. PROGRAMME (FROM SESSION 2024-25)**

**Faculty Name  
:  
HUMANITIE  
S**

**Programme Name: U.G. MILITARY SCIENCE (NCC)**

	<b>SEM - I</b>	<b>SEM - II</b>
<b>Major (DSC ) (2+2=4)</b>	<b>Paper Code: HMILC101 – MILITARY HISTORY OF INDIA -I</b>	<b>Paper Code: HMILC151 - MILITARY HISTORY OF INDIA - II</b>
	<b>Paper Code: HMILC102 - PRACTICAL</b>	<b>Paper Code: HMILC152 - PRACTICAL</b>
<b>Major Elective (DSE)</b>		
<b>Minor</b>		
<b>OE (2+2) 4</b>	<b>Paper Code: HMILOE101 – 1. INDIA’S INTERNAL SECURITY -I</b>	<b>Paper Code: HMILOE151 – 1. INDIA’S INTERNAL SECURITY -II</b>
	<b>PAPER CODE: HMILOE102 – 2. WAR AFTER INDEPENDENCE IN INDIA</b>	<b>Paper Code: HMILOE152 – 2. INDIAN MILITARY OPRATIONS</b>
<b>VSC (2x1) 2</b>	<b>Paper Code: HMILV101 – MILITARY SCIENCE PRACTICAL</b>	<b>Paper Code: HMILV151 – MILITARY SCIENCE PRACTICAL</b>
<b>SEC (2x1)2</b>	<b>Paper Code: HMILS102- ROAD SEFTY AND TRAFIC MANAGEMENT – I</b>	<b>Paper Code: HMILS152 – ROAD SEFTY AND TRAFIC MANAGEMENT – II</b>
<b>VEC (2x1) 2</b>		
<b>AEC (2x1) 2</b>		
<b>IKS (2x1) 2</b>		
<b>CC (2x1) 2</b>		
<b>Total Credit 22</b>		

## Question Paper Pattern and Internal Assessment: (For All Semesters)

### A. Continuous Assessment (CA) (20% of Maximum Marks):

CREDIT	Class Test I	Class Attendance II	Home Assignment	Total (1+2+3)	Average of Marks (Column 4/2=)
	1	2	3	4	5
Theory	05	05	10	20	10
Practical	05	05	10	40	20

CREDIT Practical	Theory	Viva-Vose	Practical Book	Total (1+2+3)	
	1	2	3	4	
2	10	10	10	30	

This will form 20% of the Maximum Marks and will be carried out throughout the semester.

## QUESTION PAPER PATTERN Semester I

Sr.No	Pattern of Question Paper for 2 Credits	Marks
Q.1.	Multiple choice One Long Answer Question to be answered in about (Based on Prescribed Text – Unit I)	10
Q.2.	Multiple choice One Long Answer Question to be answered in about (Based on Prescribed Text – Unit II)	10
Q.3.	Multiple choice Two Short Answer Question to be answered in about (Based on Prescribed Text – Unit I)	10
Q.4.	Multiple choice Two Short Answer Question to be answered in about (Based on Prescribed Text – Unit II)	10
	<b>Total Marks</b>	40

**GONDWANA UNIVERSITY, GADCHIROLI**

**B.A. SEMESTER I (NEP 2020)**

**MILITARY SCIENCE (NCC)**

**Major DSC-**

**Paper Code: HMILC101 - MILITARY HISTORY OF INDIA- I**

**Credit – 2**

**Hours-30**

**Course objectives:**

1. Students Introduce art of warfare in India.
2. Students introduce war strategy, tactics, Principles of war, and Indian Maratha, Sikh, Rajput empire and Generals.
3. Various Attacks on Turk, Mughal, British and they were Ruler in India.

**Course outcomes:**

1. Become familiar in evolution of art of warfare in India
2. Learn and understand the Strategy, tactics, application of principles of war and causes of defeat and victory of various Indian, Mughal, Maratha and Sikh Generals.
3. Besides, in a position to appreciate and understand evolutionary changes in the art and science of war in India through ages.

**UNIT -I-**

**1. MILITARY SYSTEM OF MUGHALS**

2. Military Organisation and Weapons System
3. First Battle of Panipat (1526AD) and their Effect
4. Rajput Military Organisation and Weapons System

**2. MILITARY SYSTEM OF MARATHA**

1. The Military Organisation if Chhatrapati Shivaji Maharaj
2. Third Battle of Panipat (1761AD) and their Effects.

**UNIT II-**

**1. MILITARY SYSTEM OF SIKHS**

2. Sikh military system under Dal Khalsa and Ranjeet Singh
3. Battle of Sobraon (Feb-1846AD)
4. Effects

## 2. MILITARY SYSTEM OF EAST INDIA COMPANY

1. The Military Organisation of East India Company
2. War Tactics and Weapons System
3. Evolution of Indian Armed Forces from 1858 to 1947 AD

### Suggested Reading:

#### English

1. Alfred, David., (1953) Indian Art of War, Delhi, Atman Ram.
2. Bajwa F.S., (1964) Military System of the Sikhs, Delhi, Moti Lal, Banarsi Dass.
3. Bruce, George., (1969) Six Battles of India, Calcutta, Rupa & Company.
4. Das, S.T., (1969) Indian Military - Its History and Development, New Delhi, Sagar publication.
5. Dikshitar, Ramachandra V. R., (1999) War in Ancient India. New Delhi, Cosmo.
6. Fuller, J.F.C., (1958) Generalship of Alexander The Great, Dehradun, Natraj Publishes.
7. Gustav, Oppert,(1967) Weapons, Army Organisation and Political Maxims of Ancient Hindus, Ahmedabad, R.F Patel Rajratan Press.
8. Kangle, R.P., (1963) Kautilya's Arth Shastra, Mumbai, University of Bombay.
9. Majumdar, B.K.,(1960) Military System in Ancient India, Calcutta, Firma K.L. Mukhopadhyoy.
10. Roy, Kaushik,(2004) India's Historic Battles From Hydaspes to Kargil, Delhi, Primus Books.
11. Roy, Kaushik,(2011) War, Culture and Society in Early Modern South Asia, 1740-1849, Delhi, Routledge.
12. Roy, Kaushik Ed.,(2011) The Indian Army in the Two World Wars, Bosten, Brill.
13. Singh, Sarva Daman,(1997) Ancient Indian Warfare: With Special Reference to the Vedic Period, New Delhi, Motilal Banarsidass.
14. Ajay and Singh, Monika, (2012) The Battles That Shaped Indian History, Delhi, Pentagon Press.

15. Nanda, S. P,(2004) Landmarks in Indian History, New Delhi, Dominant Publishers and Distributers.
16. Majumdar, B.N.,(1963) Study of Indian Military History, Delhi, Army Educational Store.
17. मिश्र, सुरेंद्रा,,(2002) संसार के प्रसिद्ध युद्ध,नई दिल्ली, ग्रंथ अकादमी,
18. मालीवाल, बी.एन., (2002) सैन्य विज्ञान भाग 1 व 2,हापुड, चंद्र प्रकाश एण्ड ब्रदर्स.
19. सिंह, लल्लनजी,(2001) भारतीय सैन्य इतिहास एवं युद्ध के सिद्धांत, बरेली, प्रकाश बुक डिपो.
20. सिंह, लल्लनजी,(2001)युद्धकला, बरेली, प्रकाश बुक डिपो.
21. सिंह, अशोक कुमार,(2004) भारतीय युद्धकला का इतिहास, बरेली, प्रकाश बुक डिपो.
22. पाण्डे, बाबूराम,(2004) सैन्य अध्ययन की पाठ्य पुस्तक,बरेली, प्रकाश बुक डिपो,
23. सिंह, लल्लनजी,(1984) कौटिल्य का युद्ध दर्शन,बरेली, प्रकाश बुक डिपो.
24. जैन, पुष्पा,(2000) सम्पूर्ण सैन्य विज्ञान भाग - 1,ग्वालियर, विश्वविद्यालय प्रकाशन.  
मराठी
1. सोनवणे, जाधव, सैंदाणे, चौधरी, पाटील, सुतार, (1995) भारतीय युद्धकला,पुणे.निराली प्राकाशन
2. तोडकर, बी.डी.,(2018) मराठयांचा इतिहास, जळगाव, प्राशांत पब्लिकेशन,
3. जाधव, साळुंखे, पाटील, चौधरी, पाटील, सुतार, (1995) भारतीय युद्धतंत्राची उत्क्रांती, जळगाव, प्राशांत पब्लिकेशन,

## **Major DSC**

### **Paper Code: HMILC102 - PRACTICAL**

**Credit – 2**

**Hours-30**

#### **Objective of the Course**

1. To develop character and comradeship, patriotism, as well as keenness for service and capacity for leadership in the youth.
2. To make students aware about the basic knowledge of Military training and Military Maps and Map reading.
3. To make aware about the basics of Military Strategies.

1. Drill without Arms
2. Maps: Definition and Features; Classification and its utility for Military; Enlargement and reduction of Maps
3. Conventional Signs: Military and Geographical
4. GRID System: Four Figure and Six figure Map References.
5. North: Types of North and finding out True North; The Pole Star Method; The equal altitude method; Watch method & Compass method.
6. Scale: Definition, Methods of representing Scale: Inter-conversion of scale into Representative Fraction, construction of simple scale line and the comparative scale lines.

- I. SHORT PRESENTATION/ LECTURE.
- II. RECORD.
- III. WRITTEN TEST
- IV. VIVA VOCE



### Suggested Readings:-

#### English-

1. Maliwal, B. N., (1994) Practical Military Science, Bareilly, Prakash Book Depo.
2. Sharma, Dr. Vishnu Kant and Sharma, Dr, Meena, (1994) N.C.C. Cadet 's Military Training, Bareilly, Prakash Book Depo.
3. Hand Book of N.C.C.

#### हिंदी-

1. चौधरी, नरेंद्र सिंह, (2001) मानचित्र अध्ययन, बरेली, प्रकाश बुक डिपो.
2. शर्मा, वाई., के., (2001) मानचित्र का अध्ययन, बरेली, प्रकाश बुक डिपो.
3. शर्मा, विष्णु कांत, (1991) एन.सी.सी. परिचय एवं प्रशिक्षण, बरेली, प्रकाश बुक डिपो.
4. श्रीवास्तव, जे. एम., (1998) प्रायोगिक सैन्य विज्ञान, बरेली, प्रकाश बुक डिपो.
5. चौधरी, नरेंद्र सिंह, (2000) प्रायोगिक सैन्य विज्ञान, बरेली, प्रकाश बुक डिपो.
6. सिंह, बलवंत एवं सिंह, अशोक कुमार, (2004) मानचित्र अध्ययन की सरल विधि, बरेली, चौधरी प्रकाश बुक डिपो.

**GE/OE-**

**Paper Code: HMILOE101 - 1. INDIA'S INTERNAL SECURITY -I**  
**Credit – 2** **Hours-30**

**Course objectives:**

- Students Introduce difference about External and Internal security
- Awareness of Internal and National Security
- Introduce the Political, Economic, Social Problems in India and its effects of National Security
- Introduce after Independent of India to start movements of Regionalism in India and its impact

**Course outcomes:**

- Students will understand about National and Internal Security.
- Student will understand and evaluate of Internal and National Security
- Students will analyze the various Social Problems in India and its effects
- Students will learn about Regionalism in India

**UNIT-I- INTERNAL SECURITY**

1. National Security of India: Introduction, Concepts and Importance
2. Understanding the nature of internal security
3. Dimensions of the Problem: Political, Economic and Soci-cultural.
4. Neighbors' Country

**UNIT-II- SOCIAL PROBLEM IN INDIA AND ITS EFFECTS**

1. Introduction
2. Poverty, Corruption, Literacy
3. It's Effects on Internal Security
4. Regionalism in India

### References-

- 1) K. Subrahmanium,(1952) Our National Security, Economic & Scientific Perspectives, Delhi, Director ESRF Federation House.
- 2) Khare Vijay, (2005) Dr. B.R. Ambedkar and India's National Security, New Delhi, Coalinga Books.
- 3) Bandopadhyaya, (1991) Making of India's Foreign Policy, Delhi, Allied Publishers.
- 4) Barry Buzan, (1983) People State & Fear, The National security Problem in International Relations, New Delhi, Trance asia Publishers.
- 5) Bajpai U.S., (1983) India's Security, Delhi, Lancer Publishers.
- 6) K. Subrahmanium *Ed. Aruna Asaf Ali.*,(1974) India's Unity and Security Challenges, safeguarding the republic, Delhi, Patriot Publishers Pvt.
- 7) K.V. Krishnarao,(1994) Prepare or Perish, Delhi, Lancer Publication.
- 8) Dr.V.Y.Jadhav, (2012) Bharatachy Rashriya Surksha, Pune, Snehvardhan Prakashan.
- 9) Shrikant Paranjpe (ed.) (2009) *India's Internal Security : Issues and Perspectives*, New Delhi, Kalinga Publication.
- 10) Samaddar, Sujeet *Defence Development and National Security : ( 2005) Linkages in the Indian Context.*, New Delhi, Gyan Publishing House.
- 11) Bhonsle, Rahul K. *India- Security Scope 2006, (2006) The New Great Game, Delhi, Kalpak Publication.*
- 12) Carpenter, William M. and Wiencek, David G., Ed., (2007) *Asian Security Handbook: New Delhi, Pentagon Press.*
- 13) Singh, Anand, K.,( 2006) *Ethnicity and Security of India*, Allahabad: Anubhav Publication.
- 14) Dr.V.Y.Jadhav,(2014)Bharatachi Antergat Surksha, Dhule, Atharv Publication

**GE/OE-**

**PAPER CODE: HMILOE102 - 2. WAR AFTER INDEPENDENCE IN  
INDIA**

**Credit – 2**

**Hours-30**

**Course objectives:**

1. Students Introduce situation in India after Independence
2. Introduce after independence Princely State of India and Problem and Merged of Union of India
3. Awareness of after Independence India defeat and victory of war.
4. After Independent Neighbors attack on India

**Course outcomes:**

1. Students awareness after Independence of India fight neighbors country.
2. Learn and understand Princely state of India and merged history.
3. India defeat and victory against war china , Pakistan, Kargil war
4. Learn and understand India's strategy, tactics of war and capability of Indian Armed forces

**UNIT-I- SITUATION OF INDIA AFTER INDEPENDENCE**

1. India and Princely State, Princely State merge in union of India
2. Hyderabad Princely State – Police Action
3. Kashmir Princely State Merge in India. Indo-Pak war 1947-48
4. India- China War-1962

**UNIT-II- INDIA-PAKISTAN WAR**

1. India-Pakistan war-1947-48, Kashmir Problem
2. India-Pakistan war-1965, Tashkand Treaty
3. India-Pakistan war-1971, Simla Treaty

#### 4. India-Pakistan war-1999, Operation Vijay

##### Suggested Readings-

- 1) K. Subrahmanium, (1952) *Our National Security, Economic & Scientific Perspectives*, Delhi, Director ESRF Federation House.
- 2) Bandopadhyaya, (1991) *Making of India's Foreign Policy*, Delhi, Allied Publishers.
- 4) Bajpai U.S., (1983) *India's Security*, Delhi, Lancer Publishers.
- 5) K. Subrahmanium *Ed. Aruna Asaf Ali.*, (1974) *India's Unity and Security Challenges, safeguarding the republic*, Delhi, Patriot Publishers Pvt.
- 7) K.V. Krishnarao, Delhi, (1994) *Prepare or Perish*, Lancer Publication.
- 8) Jadhav, V.Y., (2012) *Bharatachy Rashriya Surksha*, Pune, Snehvardhan Prakashan.
- 9) Shrikant Paranjpe (ed.) (2009) *India's Internal Security : Issues and Perspectives*, Delhi, Kalinga publication.
- 10) Samaddar, Sujeet, (2005) *Defence Development and National Security : Linkages in the Indian Context*, Delhi, Gyan Publishing House.
- 11) Roy, Kaushik, (2004) *India's Historic Battles From Hydaspes to Kargil*, Delhi, Primus Books.
- 12) Roy, Kaushik, (2011) *War, Culture and Society in Early Modern South Asia, 1740-1849*, Delhi, Rout ledge.
- 13) Roy, Kaushik, Ed., (2012) *The Indian Army in the Two World Wars*, Leiden, Boston, Brill.
- 14) Ajay and Singh, Monika, (2012) *The Battles That Shaped Indian History*, Delhi, Pentagon Press.
- 15) Nanda, S. P., (2004) *Landmarks in Indian History*, Delhi, Dominant Publishers and Distributers.
- 16) Majumdar, B.N., (1963) *Study of Indian Military History*. Army Educational Store.
- 17) Bhonsle, Rahul, K., (2006) *India- Security Scope 2006: The New Great Game*, Delhi, Kalpak Publication.
- 18) Singh, Anand, K., (2006) *Ethnicity and Security of India*, Allahabad, Anubhav Pub.
- 19) मिश्र, सुरेंद्रा, (2002) संसार के प्रसिद्ध युद्ध, नई दिल्ली, ग्रंथ अकादमी.
- 20) मालीवाल, बी.एन., (2002) सैन्य विज्ञान भाग 1 व 2, हापुड, चंद्र प्रकाश एण्ड ब्रदर्स.
- 21) सिंह, लल्लनजी, (2001) भारतीय सैन्य इतिहास एवं युद्ध के सिद्धांत, बरेली, प्रकाश बुक डिपो.
- 22) सिंह, अशोक कुमार, (2004) भारतीय युद्धकला का इतिहास, बरेली, प्रकाश बुक डिपो.
- 23) पाण्डे, बाबूराम, (2004) सैन्य अध्ययन की पाठ्य पुस्तक, बरेली, प्रकाश बुक डिपो.

24) जैन, पुष्पा, (2000) सम्पूर्ण सैन्य विज्ञान भाग - 1, ग्वालियर, विश्वविद्यालय प्रकाशन.

## VSC

**Paper Code: HMILV101 – MILITARY SCIENCE PRACTICAL**

### **(MILITARY LEADERSHIP AND LEADER)**

**Credit – 2**

**Hours-30**

#### **Course objectives:**

1. To make aware of the students about the Military Leaders.
2. To Make aware about the Military Leadership in various Battlefield

#### **Course outcomes:**

1. Students will be able to understand Military Leaders and their qualities from History
2. Students will understand types of leaders (on the Basis of Personality Developments)
3. Involving application of knowledge in solving/analyzing/exploring real life situation/difficult issues related to Defence and Strategic Studies (Project/dissertation work may be given in lieu of discipline specific elective paper.  
--Students as individual or group will choose the any Military Leader and make a Project on him.

#### **SUGGESTED READING**

1. मिश्र, सुरेंद्रा, (2002) संसार के प्रसिद्ध युद्ध, नई दिल्ली, ग्रंथ अकादमी,
2. मालीवाल, बी.एन., (2002) सैन्य विज्ञान भाग 1 व 2, हापुड, चंद्र प्रकाश एण्ड ब्रदर्स.
3. सिंह, लल्लनजी, (2001) भारतीय सैन्य इतिहास एवं युद्ध के सिद्धांत, बरेली, प्रकाश बुक डिपो.
4. सिंह, लल्लनजी, (2001) युद्धकला, बरेली, प्रकाश बुक डिपो.
5. सिंह, अशोक कुमार, (2004) भारतीय युद्धकला का इतिहास, बरेली, प्रकाश बुक डिपो.
6. सिंह, लल्लनजी, (1984) कौटिल्य का युद्ध दर्शन, बरेली, प्रकाश बुक डिपो.

मराठी

4. सोनवणे, जाधव, सैदाणे, चौधरी, पाटील, सुतार, (1995) भारतीय युध्दकला,पुणे.निराली प्राकाशन
5. तोडकर, बी.डी.,(2018) मराठ्यांचा इतिहास, जळगाव, प्राशांत पब्लिकेशन,

## SEC

**Paper Code: HMILS102- ROAD SEFTY AND TRAFIC MANAGEMENT – I**

**Credit – 2**

**Hours-30**

### **Objective of the Course**

1. To awareness about traffic rules and road accidents.
2. To impact knowledge and understanding the causes and consequences of accidents.
3. To understand role and responsibilities in ensuring road safety.

### **Course Outcomes-**

1. Learning importance of multidisciplinary approach to planning for traffic safety and rehabilitation.
2. Understand the types of Gain information and knowledge about people responsible for accidents and their duties.
3. Generate awareness about number of people dying every year in road accidents, traffic rules and characteristics of accident.
4. To understanding of the causes and consequences of accidents and responsibilities in ensuring road safety.

### **UNIT:1 - INTRODUCTION TO ROAD SAFETY**

1. Road safety and its importance
2. Traffic Rules and Driving Behavior
3. Characteristics of Accidents

### **UNIT: 2- PLANNING FOR ROAD SAFETY**

1. Awareness about rules and regulation of traffic
2. Causes of Accident- Human Factors-vehicles
3. Causes of Road Accident- Road and its Condition

### **Suggested Readings:-**

1. Kadiyali, L.R., “Traffic Engineering and Transport Planning”, Khanna Publishers, delhi,2002
2. James L Pline (Edr), “Traffic Engineering Hand Book”, Institute of Transportation Engineers, Washington DC, USA,1999
3. Thomas Curinan, “An Introduction to Traffic Engineering- A Manual for Data Collection and Analysis”, Book Cole, UK, 2001

4. Indian Roads Congress (IRC) specification: Guidelines and special publications on Traffic Planning and Management
5. Guidelines of Ministry Road Transport and Highways Government of India.

**GONDWANA UNIVERSITY, GADCHIROLI**

**B.A. SEMESTER II (NEP 2020)**

**MILITARY SCIENCE (NCC)**

**Major DSC**

**Paper Code: HMILC151 - MILITARY HISTORY OF INDIA - II**

**Credit – 2**

**Objective of the Course: -**

**After Undergoing this course, a student will be in a position to -**

1. Become familiar in evolution of art of warfare in India.
2. Learn and understand the Strategy, tactics, application of principles of war and causes of defeat and victory of various Indian, Mughal, Maratha generals.
3. Besides, in a position to appreciate and understand evolutionary changes in the art and science of war in India through ages.

**Course Outcomes:**

1. Become familiar in evolution of art of warfare in India
2. Learn and understand the Strategy, tactics, application of principles of war and causes of defeat and victory of various Indian, Vedic, Magadh Dynasties and Golden Age.
3. Besides, in a position to appreciate and understand evolutionary changes in the art and science of war in India through ages.

**UNIT-I-**

**1. MILITARY SYSTEM IN VEDIC PERIOD**

2. Introduction
3. Arya- Anarya Conflict



4. Ten King War
5. War Techniques
6. Military Training
7. Art of War

## **2. KAUTILYA PHILOSOPHY OF WAR**

1. Introduction of Mandal Theory
2. Inter-State Relation
3. Military Organisation and Weapons System
4. Intelligence System
5. Art of War

## **UNIT-II-**

### **1. INDO – GREEK ART OF WAR**

2. Background
3. Alexander and its Aims
4. Armed Forces and Weapon
5. Battle of Zhelum Hydaspers
6. Porus's Army and its failure

### **2 MILITARY SYSTEM OF RAJPUTS AND TURKS**

1. Rajput Military Organisation
2. Battle of Tarrain (1192AD) and their Effects

## **Suggested Readings:-**

### **English:**

3. Alfred, David., (1953) Indian Art of War, Delhi, Atman Ram.
4. Bajwa F.S., (1964) Military System of the Sikhs, Delhi, Moti Lal, Banarsi Dass.
5. Bruce, George., (1969) Six Battles of India, Calcatta, Rupa & Company.
6. Das, S.T., (1969) Indian Military - Its History and Development, New Delhi, Sagar publication.
7. Dikshitar, Ramachandra V. R, (1999) War in Ancient India. New Delhi, Cosmo.
8. Fuller, J.F.C., (1958) Generalship of Alexander The Great, Dehradun, Natraj

Publishes.

9. Gustav, Oppert,(1967) Weapons, Army Organisation and Political Maxims of Ancient Hindus, Ahmedabad, R.F Patel Rajratan Press.
10. Kangle, R.P., (1963) Kautilya's Arth Shastra, Mumbai, University of Bombay.
11. Majumdar, B.K.,(1960) Military System in Ancient India, Calcutta, Firma K.L. Mukhopadhyoy.
12. Roy, Kaushik,(2004) India's Historic Battles From Hydaspes to Kargil, Delhi, Primus Books.
13. Roy, Kaushik,(2011) War, Culture and Society in Early Modern South Asia, 1740-1849, Delhi, Routledge.
14. Roy, Kaushik Ed.,(2011) The Indian Army in the Two World Wars, Bosten, Brill.
15. Singh, Sarva Daman,(1997) Ancient Indian Warfare: With Special Reference to the Vedic Period, New Delhi, Motilal Banarsidass.
16. Ajay and Singh, Monika, (2012) The Battles That Shaped Indian History, Delhi, Pentagon Press.
17. Nanda, S. P,(2004) Landmarks in Indian History, New Delhi, Dominant Publishers and Distributers.
18. Majumdar, B.N.,(1963) Study of Indian Military History, Delhi, Army Educational Store.
19. मिश्र, सुरेंद्रा.,(2002) संसार के प्रसिद्ध युद्ध, नई दिल्ली, ग्रंथ अकादमी,
20. मालीवाल, बी.एन., (2002) सैन्य विज्ञान भाग 1 व 2, हापुड, चंद्र प्रकाश एण्ड ब्रदर्स.
21. सिंह, लल्लनजी,(2001) भारतीय सैन्य इतिहास एवं युद्ध के सिद्धांत, बरेली, प्रकाश बुक डिपो.
22. सिंह, लल्लनजी,(2001) युद्धकला, बरेली, प्रकाश बुक डिपो.
23. सिंह, अशोक कुमार,(2004) भारतीय युद्धकला का इतिहास, बरेली, प्रकाश बुक डिपो.
24. पाण्डे, बाबूराम,(2004) सैन्य अध्ययन की पाठ्य पुस्तक, बरेली, प्रकाश बुक डिपो,
25. सिंह, लल्लनजी,(1984) कौटिल्य का युद्ध दर्शन, बरेली, प्रकाश बुक डिपो.
26. जैन, पुष्पा,(2000) सम्पूर्ण सैन्य विज्ञान भाग - 1, ग्वालियर, विश्वविद्यालय प्रकाशन, मराठी
1. सोनवणे, जाधव, सेंदाणे, चौधरी, पाटील, सुतार, (1995) भारतीय युद्धकला, पुणे. निराली प्राकाशन
2. तोडकर, बी.डी.,(2018) मराठ्यांचा इतिहास, जळगाव, प्राशांत पब्लिकेशन,
3. जाधव, साळुंखे, पाटील, चौधरी, पाटील, सुतार, (1995) भारतीय युद्धतंत्राची उत्क्रांती, जळगाव, प्राशांत पब्लिकेशन,

## **Major DSC**

### **Paper Code: HMILC152 - PRACTICAL**

**Credit – 2**

**Hours-30**

#### **Objective of the Course**

1. To develop character and comradeship, patriotism, as well as keenness for service and capacity for leadership in the youth.
2. To make students aware about the basic knowledge of Military training and builds a ready reserve, which the Armed Forces could easily make use of in times of national emergency.
3. To make aware about the basics of Military weapons and tactics organization.

#### **Practical:**

1. Bearing: Definition, Inter conversion of Bearing in detail.
2. Liquid Prismatic Compass (LPC): Features and functions of its various parts: Attempt following exercise on the LPC: To determine magnetic north; Setting of the Map.
3. To find out the bearing of a point from other point situated on the ground.
4. To determine one's and enemy's position on the map by resection and intersection methods with the help of compass.
5. Point .22 Rifle, SLR, LMG, INSAS Rifle
6. Infantry Section Weapons.

**I. SHORT PRESENTATION/ LECTURE.**

**V. RECORD.**

## VI. WRITTEN TEST

## VII. VIVA VOCE

### Suggested Readings:-

#### English-

1. Maliwal, B. N., (1994) Practical Military Science, Bareilly, Prakash Book Depo.
2. Sharma, Dr. Vishnu Kant and Sharma, Dr, Meena, (1994) N.C.C. Cadet 's Military Training, Bareilly, Prakash Book Depo.
3. Hand Book of N.C.C.

#### हिंदी-

1. चौधरी., नरेंद्र सिंह, (2001) मानचित्र अध्ययन, बरेली, प्रकाश बुक डिपो.
2. शर्मा, वाई., के., (2001) मानचित्र का अध्ययन, बरेली, प्रकाश बुक डिपो.
3. शर्मा, विष्णु कांत, (1991) एन.सी.सी. परिचय एवं प्रशिक्षण, बरेली, प्रकाश बुक डिपो.
4. श्रीवास्तव, जे. एम., (1998) प्रायोगिक सैन्य विज्ञान, बरेली, प्रकाश बुक डिपो.
5. चौधरी, नरेंद्र सिंह, (2000) प्रायोगिक सैन्य विज्ञान, बरेली, प्रकाश बुक डिपो.
6. सिंह, बलवंत एवं सिंह, अशोक कुमार, (2004) मानचित्र अध्ययन की सरल विधि, बरेली, चौधरी प्रकाश बुक डिपो.

#### मराठी

1. मराठे, प्र. प्र., (2006) आपत्ती व्यवस्थापन, पुणे, डायमंड पब्लिकेशन.
2. सरपाते, मोहनकुमार, (2010) स्वास्था आणि योग, पुणे, डायमंड पब्लिकेशन.

GE/OE-

**Paper Code: HMILOE151 - 1. INDIA'S INTERNAL SECURITY -II**

**Credit – 2**

**Hours-30**

**Course objectives:**

1. Students Introduce about Internal security Problems of India
2. Awareness of Internal and National Security
3. Introduce the problems of Jammu and Kashmir of National Security
4. Introduce about cyber crime in India

**Course outcomes:**

1. Students will understand about Internal Security Problems of India.
2. Student will understand and evaluate of Jammu and Kashmir Problem
3. Students will analyze the various Internal Security Problems of India and its effects
4. Students will learn about Cyber Crime in India

**UNIT I- NAXALISAM AND TERRORISM**

**A. Naxalisam**

1. Meaning and Concept
2. Naxalite Movement in India
3. Causes, Effects on National Security

**B. Terrorism**

1. Meaning and Concept
2. Types of Terrorism, Causes and Effects
3. Solution on terrorism, Counter Terrorism

**UNIT 2: JAMMU AND KASHMIR PROBLEM AND NOTH EAST PROBLEM**

**A. Jammu and Kashmir Problem**

1. Historical Background
2. Causes and Challenges to Security
3. Article 370 and 35 A, Effects and Measure

**B. North East Problem**

1. Historical Back Ground
2. Insurgency
3. Counter Insurgency

**Suggested Readings:**

- 1) K. Subrahmanium,(1952) Our National Security, Economic & Scientific Perspectives, Delhi, Director ESRF Federation House.
- 2) Khare Vijay, (2005) Dr. B.R. Ambedkar and India's National Security, New Delhi, Coalinga Books.
- 3) Bandopadhyaya, (1991) Making of India's Foreign Policy, Delhi, Allied Publishers.
- 4) Barry Buzan, (1983) People State & Fear, The National security Problem in International Relations, New Delhi, Trance asia Publishers.
- 5) Bajpai U.S., (1983) India's Security, Delhi, Lancer Publishers.
- 6) K. Subrahmanium Ed. Aruna Asaf Ali.,(1974) India's Unity and Security Challenges, safeguarding the republic, Delhi, Patriot Publishers Pvt.
- 7) K.V. Krishnarao,(1994) Prepare or Perish, Delhi, Lancer Publication.
- 8) Dr.V.Y.Jadhav, (2012) Bharatachy Rashriya Surksha, Pune, Snehvardhan Prakashan.
- 9) Shrikant Paranjpe (ed.) (2009) *India' s Internal Security : Issues and Perspectives*, New Delhi, Kalinga Publication.
- 10) Samaddar, Sujeet *Defence Development and National Security : ( 2005) Linkages in the Indian Context.*, New Delhi, Gyan Publishing House.
- 11) Bhonsle, Rahul K. *India- Security Scope 2006, (2006) The New Great Game, Delhi,* Kalpak Publication.
- 12) Carpenter, William M. and Wiencek, David G., Ed., (2007) *Asian Security Handbook: New Delhi, Pentagon Press.*
- 13) Singh, Anand, K.,( 2006) *Ethnicity and Security of India*, Allahabad: Anubhav Publication.
- 14) Dr.V.Y.Jadhav,(2014)*Bharatachi Antergat Surksha, Dhule, Atharv Publication.*

**GE/OE-**

**Paper Code: HMILOE152 -2. INDIAN MILITARY OPERATIONS**

**Credit – 2**

**Hours-30**

**Course objectives:**

1. Students Introduce to Military operations conducted by Indian Armed Forces
2. Awareness of military problem

**Learning Outcomes –**

1. After undergoing this course, a student will be able to – Learn the different military operations.
2. Learn about the defence operations of India and evaluate its strengths and weaknesses.

**Unit I**

1. The Chola Incident, 1967
2. Operation Blue Star, 1984
3. Sri Lanka Mission 1987 – 1990

**Unit II**

1. Operation Cactus 1988
2. Operation Parakram (2001)
3. Surgical Strike Uri attack (2016)

**Suggested Readings:**

1. K. Subrahmanium,(1952) Our National Security, Economic & Scientific Perspectives, Delhi, Director ESRF Federation House.
2. Khare Vijay, (2005) Dr. B.R. Ambedkar and India's National Security, New Delhi, Coalinga Books.
3. Bandopadhyaya, (1991) Making of India's Foreign Policy, Delhi, Allied Publishers.

4. Barry Buzan, (1983) *People State & Fear, The National security Problem in International Relations*, New Delhi, Trance asia Publishers.
5. Bajpai U.S., (1983) *India's Security*, Delhi, Lancer Publishers.
6. K. Subrahmanium *Ed. Aruna Asaf Ali.*,(1974) *India's Unity and Security Challenges, safeguarding the republic*, Delhi, Patriot Publishers Pvt.
7. K.V. Krishnarao,(1994) *Prepare or Perish*, Delhi, Lancer Publication.
8. Dr.V.Y.Jadhav, (2012) *Bharatachy Rashriya Surksha*, Pune, Snehvardhan Prakashan.
9. Shrikant Paranjpe (ed.) (2009) *India' s Internal Security : Issues and Perspectives*, New Delhi, Kalinga Publication.
10. Samaddar, Sujeet *Defence Development and National Security : ( 2005) Linkages in the Indian Context.*, New Delhi, Gyan Publishing House.
11. Bhonsle, Rahul K. *India- Security Scope 2006, (2006) The New Great Game*, Delhi, Kalpak Publication.
12. Carpenter, William M. and Wiencek, David G., Ed., (2007) *Asian Security Handbook: New Delhi, Pentagon Press.*
13. Singh, Anand, K., (2006) *Ethnicity and Security of India*, Allahabad: Anubhav Publication.
14. Dr.V.Y.Jadhav,(2014)*Bharatachi Antergat Surksha*, Dhule, Atharv Publication.



**VSC**

**Paper Code: HMILV151 – MILITARY SCIENCE PRACTICAL  
( DEFENCE FIELD STUDY PROJECT)**

**Credit – 2**

**Hours-30**

**Objective of the Course**

1. This course will offer freelance security projects on various establishment.
2. This will help the students learned about the security environment.
3. Involving application of knowledge in solving/analyzing/exploring real life situation/difficult issues related to Defence and Strategic Studies  
(Project/dissertation work may be given in lieu of discipline specific elective paper.

SEC

**Paper Code: HMILS152 - 2. ROAD SEFTY AND TRAFIC  
MANAGEMENT – II**

**Credit – 2**

**Hours-30**

**Objective of the Course**

1. To awareness about traffic rules and road accidents.
2. To impact knowledge and understanding the causes and consequences of accidents.
3. To understand role and responsibilities in ensuring road safety.

**Course Outcomes-**

1. Students will analyze and design advance road safety measures, including the implementation of safety technologies, infrastructure improvements, and policy intervention.
2. Students will develop strategies for advanced community engagement and public awareness campaigns to promote road safety and responsible driving behavior.
3. Students will develop advanced skills in managing traffic incidents and emergencies, including accident response, disaster preparedness and post-incident recovery.

**UNIT:1 – ROAD SAFETY EQUIPMENT AND SAFETY AUDIT**

1. Anti-log Breaking System
2. Licenses System and rules
3. Speed Governors
4. Seat Belt and Helmet

**UNIT: 2- TRAFFIC CONTROL AND MANAGEMENT**

1. Traffic Signals Control

2. Developing a Road Safety Plan
3. Role of Traffic Management Unit
4. Institutional Responsibility of Road Safety

**Suggested Readings:-**

1. Indian Roads Congress, Highway Safety Code, IRC
2. Road Accidents in India Issues and Dimension, Ministry of Road Transport and Highways Government of India.
3. Kadiyali, LR, "Traffic Engineering and Transport and Transport Planning", Khanna Publication, Delhi, 2002
4. James L. Pline (Edr), "Traffic Engineering Hand Book", institute of Transportation Engineers, Washington DC, USA, 1999
5. Guidelines of Ministry Road Transport and Highways Government of India.