

**Pt. Ravi Shankar Shukla University,
Raipur (C.G.)**

DEPARTMENT OF DEFENCE STUDIES

SYLLABUS

**M. Sc.
(1st and 2nd Semester System)**

2024-2025

DEPARTMENT OF DEFENCE STUDIES
M.Sc. I SEM. 2024-25
SYLLABUS AND MARKING SCHEME
2024-25 SEMESTER

Paper No.	Title of the Paper	Marks Allotted in Theory		Marks Allotted in Internal Assessment		Credits
		Max.	Min.	Max.	Min.	
I	Area Study of The Indian Ocean	80	16	20	04	4
II	Evaluation of Strategic Thoughts	80	16	20	04	4
III	Science Of War	80	16	20	04	4
IV	Indian Art of War	80	16	20	04	4
V	Lab Course –I	100				2
VI	Lab Course –II	100				2
Total		520	--	80	--	20

	Total Marks	Total Credits Marks
Theory Papers	320	16
Internal Assessment	80	--
Lab Course	200	04
Grand Total	600	20

Signature-
H.O.D.

External Subject Experts-

- 1.
- 2.
- 3.

Student Member -

Principal
Govt. N.P.G. College of Science,
Raipur (C.G.)

M.Sc. I SEM. 2024-25
DEPARTMENT OF Military Science/ Defence Studies

COURSE CURRICULUM

PART- A: Introduction			
Program: Masters in Science		Semester – I	Session: 2024-2025
1	Course Code	DS -01T	
2	Course Title	Area Study of the Indian Ocean	
3	Course Type	Theory	
4	Pre-requisite (if, any)	<i>As per requirement</i>	
5	Course Learning Outcomes (CLO)	After undergoing this course a student will be in a position to – 1.To understand the historical importance of Indian Ocean. 2.To understand the littoral states. 3.To discuss the Gulf, Seas, bays, Straits, Channels, Island and routes of Indian ocean. 4. To understand the power interest in the Indian ocean.	
6	Credit Value	4 Credits	<i>Credit =60 Hours Study, Learning & Observation</i>
7	Total Marks	Max. Marks: 100	Min Passing Marks: 40
PART -B: Content of the Course			
Total No. of learning-Training/performance Periods: 60 Periods (60 Hours)			
Module	Topics (Course contents)		No. of Period
Unit 1	Historical survey of sea power in the Indian Ocean : i. Indian Ocean :- location, Area Expansion, importance. ii. India and Indian Ocean :- Indian supremacy, Maratha Navy. iii. The dominance of other powers in the Indian Ocean Past and Present.		15
Unit 2	A. Geographical regions of littoral states : i. Rep. of South Africa ii. East African States iii. North- East African States iv. Arabian States v. South Asian States vi. South East Asian States vii. Australian regions. B. Location and physical setting of the Indian Ocean : i. Important Gulfs, Seas, Bays. ii. Important Strait, Channels, Routes.		15
Unit 3	A. Important islands of the Indian Ocean : i. Diago Garcia ii. Socotra iii. Srilanka iv. Zanzibar B. Hot spot in the Indian Ocean		15
Unit 4	Indian Ocean: A. Power interest and revelry in the Indian Ocean. B. Peace Zone Proposal and the Indian Ocean C. Ingredients of sea power.		15
Keywords	Historical survey, Sea power, Area Expansion, Indian supremacy, Dominance, Geographical regions, Physical setting, Important islands, Hot spot.		

Signature of Convener & Members (CBoS) :

PART-C: Learning Resources

Text Books, Reference Books and Others

- | | | |
|--|---|----------------------------|
| 1. The Indian Ocean in Global Politics | : | Larry W. Bowman, Ian Clark |
| 2. The Atlas of World Geography | : | Prof. Enrys Jones |
| 3. A World Atlas of Military History (1945-1984) | : | Tom Hartman, Jihn Mitchell |
| 4. World Atlas of Weapons and War | : | John Willians |

Online Resources–

Ministry of Defence - <https://mod.gov.in>,
SWAYAM - <https://swayam.gov.in/>
SWAYAM PRABHA - <https://swayamprabha.gov.in/>
NIOS - <https://nios.ac.in/online-course-material/>

PART -D: Assessment and Evaluation

Suggested Continuous Evaluation Methods:

Maximum Marks: 100 Marks Continuous Internal Assessment (CIA): 20 Marks

End Semester Exam (ESE): 80 Marks

Continuous Internal Assessment (CIA): (By Course Teacher)	Internal Test / Quiz-(2): - 10 Assignment/Seminar +Attendance - 10 Total Marks - 20	Better marks out of the two Test / Quiz + obtained marks in Assignment shall be considered against 20 Marks
End Semester Exam (ESE):	Three Section – A, B & C Section A: Objective – 8 x1= 8 Mark; Section B: Short answer type- 4x6 =24 Marks Section C: Descriptive answer type - 4x12=48 Marks Note:- Questions will be asked from each Unit.	

Name and Signature of Convener & Members of CBoS:

M.Sc. I SEM. 2024-25
DEPARTMENT OF Military Science/ Defence Studies

COURSE CURRICULUM

PART- A: Introduction			
Program: Masters in Science		Semester – I	Session: 2024-2025
1	Course Code	DS -02T	
2	Course Title	Evaluation of Strategic Thoughts	
3	Course Type	Theory	
4	Pre-requisite (if, any)	<i>As per requirement</i>	
5	Course Learning Outcomes (CLO)	After undergoing this course a student will be in a position to – 1. Define strategic thinking and its key components. 2. Explain the differences between strategic thinking and strategic planning. 3. Identify frameworks for evaluating strategic thoughts, 4. Recognize the importance of considering both internal and external factors when evaluating strategic options.	
6	Credit Value	4 Credits	<i>Credit =60 Hours Study, Learning & Observation</i>
7	Total Marks	Max. Marks: 100	Min Passing Marks: 40
PART -B: Content of the Course			
Total No. of learning-Training/performance Periods: 60 Periods (60 Hours)			
Module	Topics (Course contents)		No. of Period
Unit 1	Strategic Thinkers : i. Kautilya ii. Suntzu iii. Che-Gvevara iv. Machiavelli		15
Unit 2	Strategic Thinkers : i. Gustavous Adolphus ii. Nepolean Bonapart iii. Jomini iv. Fredrick The Great.		15
Unit 3	Strategic Thinkers : i. Clausewitz ii. Captain B. M. Liddeil Hart iii. General J. F. C. Fuller iv. Adolf Hitler		15
Unit 4	Strategic Thinkers : i. Admiral Alfred Thayer Mahan ii. Giulio Douhet iii. Mao Tse Tung iv. Mahatma Gandhi		15
<i>Keywords</i>	Strategic Thinkers, Strategic Thought, Tactics, War Strategy		

Signature of Convener & Members (CBoS) :

PART-C: Learning Resources

Text Books, Reference Books and Others

- | | | |
|--------------------------|---|--|
| 1. Strategic Thinkers | : | Dr. Baburam Pandey & Dr. Ramsurat Pandey |
| 2. Kautilya Arthashastra | : | K.P. Kanbley |
| 3. आधुनिक सैन्य चिन्तक | : | डॉ. लल्लन जी सिंह |

Online Resources-

Ministry of Defence - <https://mod.gov.in>,
SWAYAM - <https://swayam.gov.in/>
SWAYAM PRABHA - <https://swayamprabha.gov.in/>
NIOS - <https://nios.ac.in/online-course-material/>

PART -D: Assessment and Evaluation

Suggested Continuous Evaluation Methods:

Maximum Marks: 100 Marks Continuous Internal Assessment (CIA): 20 Marks

End Semester Exam (ESE): 80 Marks

Continuous Internal Assessment (CIA): (By Course Teacher)	Internal Test / Quiz-(2): - 10	Better marks out of the two Test / Quiz + obtained marks in Assignment shall be considered against 20 Marks
	Assignment/Seminar +Attendance - 10 Total Marks - 20	
End Semester Exam (ESE):	Three Section – A, B & C Section A: Objective – 8 x1= 8 Mark; Section B: Short answer type- 4x6 =24 Marks Section C: Descriptive answer type -4x12=48 Marks Note:- Questions will be asked from each Unit.	

Name and Signature of Convener & Members of CBoS:

M.Sc. I SEM. 2024-25
DEPARTMENT OF Military Science/ Defence Studies

COURSE CURRICULUM

PART- A: Introduction			
Program: Masters in Science		Semester – I	Session: 2024-2025
1	Course Code	DS -03T	
2	Course Title	Science of War	
3	Course Type	Theory	
4	Pre-requisite (if, any)	<i>As per requirement</i>	
5	Course Learning Outcomes (CLO)	After undergoing this course a student will be in a position to – 1. Define the concept of "Science of War" and its historical development across different cultures. 2. Analyze the theoretical foundations of war and conflict, including causes, types, and philosophical perspectives. 3. Identify and explain key principles of military strategy and tactics from historical and contemporary theorists. 4. Recognize the influence of technological advancements on the nature of warfare throughout history.	
6	Credit Value	4 Credits	<i>Credit =60 Hours Study, Learning & Observation</i>
7	Total Marks	Max. Marks: 100	Min Passing Marks: 40
PART -B: Content of the Course			
Total No. of learning-Training/performance Periods: 60 Periods (60 Hours)			
Module	Topics (Course contents)		No. of Period
Unit 1	Technology in war : 1. Gradual development of Science and Technology in war : Ancient Age, Age of Gun Powder, Age of Steam, Age of Oil, Modern Age. 2. Interdependence of war, science and technology. 3. Cyber security, Artificial intelligence. 4. Changing nature of war technology.		15
Unit 2	Nuclear Weapons : 1. Nuclear Weapons : Fission and Fusions, differences between fission and fusions, Atomic Reactor. 2. Atom Bomb, Hydrogen Bomb, Neutron Bomb and effects of atomic explosion. 3. Spread and Impact of nuclear weapons.		15
Unit 3	Missiles and Rockets : 1. Missiles and Rockets : Types, Function, Components, Fuels and Engine, Stages, Missile Family, Guidance System of Missile. 2. Space Technology : Satellites and Launching Vehicles, Launching facilities. 3. Possible military role of space.		15
Unit 4	Radar : 1. Radar : Structure, Function and their uses. 2. Biological warfare. 3. Chemical warfare 4. Laser Ray : Characteristic, theory, types and military applications of Laser Ray.		15
Keywords	Technology in war, Gradual development, Ancient Age, Gun Powder, Age of Steam, Cyber security, Nuclear Weapons, Fission, Fusions, Radar .		

Signature of Convener & Members (CBoS) :

PART-C: Learning Resources		
Text Books, Reference Books and Others		
1. Nuclear Weapons and Power Politics	:	Mani Shankar
2. Lasers : Theory and Applications	:	K. Thyagarajan
3. प्राक्षेपिकी	:	डॉ. इन्दु प्रकाश
4. युद्ध में विज्ञान एवं तकनीक	:	डॉ. गिरीश कांत पाण्डेय
5. पर्यावरण और रासायनिक कीटाणु युद्ध	:	डॉ. इन्दु प्रकाश
Online Resources-		
Ministry of Defence	-	https://mod.gov.in ,
SWAYAM	-	https://swayam.gov.in/
SWAYAM PRABHA	-	https://swayamprabha.gov.in/
NIOS	-	https://nios.ac.in/online-course-material/
PART -D: Assessment and Evaluation		
Suggested Continuous Evaluation Methods:		
Maximum Marks: 100 Marks Continuous Internal Assessment (CIA): 20 Marks		
End Semester Exam (ESE): 80 Marks		
Continuous Internal Assessment (CIA): (By Course Teacher)	Internal Test / Quiz-(2): - 10 Assignment/Seminar +Attendance - 10 Total Marks - 20	Better marks out of the two Test / Quiz + obtained marks in Assignment shall be considered against 20 Marks
End Semester Exam (ESE):	Three Section – A, B & C Section A: Objective – 8 x1= 8 Mark; Section B: Short answer type- 4x6 =24 Marks Section C: Descriptive answer type -4x12=48 Marks Note:- Questions will be asked from each Unit.	

Name and Signature of Convener & Members of CBoS:

M.Sc. I SEM. 2024-25
DEPARTMENT OF Military Science/ Defence Studies

COURSE CURRICULUM

PART- A: Introduction			
Program: Masters in Science		Semester – I	Session: 2024-2025
1	Course Code	DS -04T	
2	Course Title	Indian Art of War	
3	Course Type	Theory	
4	Pre-requisite (if, any)	<i>As per requirement</i>	
5	Course Learning Outcomes (CLO)	After undergoing this course a student will be in a position to – 1. Identify and explain key tenets of prominent Indian military treatises 2. Analyze the historical context and evolution of Indian military thought across different eras. 3. Compare and contrast Indian approaches to warfare with those from other prominent military traditions. 4. Explore the role of social structures, religious beliefs, and philosophical underpinnings in shaping Indian military strategies.	
6	Credit Value	4 Credits	<i>Credit =60 Hours Study, Learning & Observation</i>
7	Total Marks	Max. Marks: 100	Min Passing Marks: 40
PART -B: Content of the Course			
Total No. of learning-Training/performance Periods: 60 Periods (60 Hours)			
Module	Topics (Course contents)		No. of Period
Unit 1	Ancient Indian Military System : i. Comparative study of Indo-Greek art of war with reference to the Battle of Hydespus 326 B.C. ii. Mauran Military Systems iii. Decline of Chariots and the importance of Elephants and the Cavalry till 7th century A.D.		15
Unit 2	Medieval Indian Military System: i. Rajput and Turk pattern of warfare with reference to Battle of Somnath 1025 A.D. and Tarain. ii. Army organization during Sultanate period. iii. Mughal military system with reference to the first Battle of Panipat 1526 A.D. and the Battle of Haldighati 1576 A.D.		15
Unit 3	Later Medieval Indian Military System: i. Maratha military system and Irregular warfare of Shivaji, the third Battle of Panipat 1764 A.D. Anglo-Maratha war with reference to the Battle of Assai 1806 A.D. ii. Military organization under Guru Govind Singh and Ranjit Singh. Anglo-Sikh war with reference to the Battle of Sobaron 1846 A.D.		15
Unit 4	Modern Indian Military System: i. Indian Army under British crown - Reorganization of the army between 1857-1914. ii. Progressive Nationalization of the Indian Armed Forces. iii. Role of Indian army in the first world war 1914-1918 A.D. and the second world war 1939-1945 A.D.		15
<i>Keywords</i>	Ancient Indian, Military System, Medieval Indian, Modern Indian Military System.		

Signature of Convener & Members (CBoS) :

PART-C: Learning Resources

Text Books, Reference Books and Others

1. Military System of Ancient India	:	B.K. Majumdar
2. Generalship of Alexander the Great	:	J.F.C. Fuller
3. Kautilya Arthashastra	:	K.P. Kanbley
4. Military History of India	:	J.N. Sarkar

Online Resources-

Ministry of Defence	-	https://mod.gov.in ,
SWAYAM	-	https://swayam.gov.in/
SWAYAM PRABHA	-	https://swayamprabha.gov.in/
NIOS	-	https://nios.ac.in/online-course-material/

PART -D: Assessment and Evaluation

Suggested Continuous Evaluation Methods:

Maximum Marks: 100 Marks Continuous Internal Assessment (CIA): 20 Marks

End Semester Exam (ESE): 80 Marks

Continuous Internal Assessment (CIA): (By Course Teacher)	Internal Test / Quiz-(2): - 10	Better marks out of the two Test / Quiz + obtained marks in Assignment shall be considered against 20 Marks
	Assignment/Seminar + Attendance - 10 Total Marks - 20	
End Semester Exam (ESE):	Three Section – A, B & C Section A: Objective – 8 x1= 8 Mark; Section B: Short answer type- 4x6 =24 Marks Section C: Descriptive answer type -4x12=48 Marks Note:- Questions will be asked from each Unit.	

Name and Signature of Convener & Members of CBoS:

M.Sc. I SEM. 2024-25
DEPARTMENT OF **Military Science/ Defence Studies**

COURSE CURRICULUM

PART- A: Introduction			
Program: Bachelor in Science /Art <i>(Certificate / Diploma / Degree/Honors)</i>		Semester –I	Session: 2024-2025
1	Course Code	DS -01P	
2	Course Title	Lab Course – A	
3	Course Type	Practical	
4	Pre-requisite (if, any)	<i>As per requirement</i>	
5	Course Learning Outcomes (CLO)	After undergoing this course a student will be in a position to – 1. Define the concept of cartography and its historical development. 2. Identify and explain the different map projections and their applications. 3. Analyze the elements of a map, including scale, symbols, legend, and coordinate systems. 4. Explain the principles of map design and how they influence map readability and effectiveness.	
6	Credit Value	2 Credits	<i>Credit =30 Hours Laboratory or Field learning/Training</i>
7	Total Marks	Max. Marks: 100	Min Passing Marks: 40
PART -B: Content of the Course			
Total No. of learning-Training/performance Periods: 30 Periods (30 Hours)			
Module	Topics (Course contents)		No. of Period
Lab./Field Training/ Experiment Contents of Course	CARTOGRAPHY 1. Scale and their transformation, enlargement and reduction of maps, Representation of relief and Section drawing. 2. Map projection : Special emphasis to given to the following - Conical with one or two standard parallels, Bonne’s Polyclonal, Mercator, Zenithal - Equal distance and Zenithal Equal area. 3. Study and interpretation of topographical and weather maps with special reference to India. 4. Viva voce, Sessional Work and Record.		30
Keywords	Cartography, Scale, Transformation, Enlargement, Representation, Projection, Interpretation		

Signature of Convener & Members (CBoS) :

PART–C: Learning Resources			
Text Books, Reference Books and Others			
1.	प्रयोगात्मक भूगोल	:	डॉ. पी.आर. चौहान
2.	प्रायोगिक भूगोल	:	डॉ. पी.शर्मा
3.	प्रयोगात्मक स्थल युद्ध कला	:	चौ. नरेन्द्र सिंह

Online Resources–

Ministry of Defence - <https://mod.gov.in>,
SWAYAM - <https://swayam.gov.in/>
SWAYAM PRABHA - <https://swayamprabha.gov.in/>
NIOS - <https://nios.ac.in/online-course-material/>

PART -D:**Suggested Continuous Evaluation Methods:****Maximum Marks: 100 Marks****Continuous Internal Assessment (CIA):** (By Course Teacher)**End Semester Exam (ESE):****Laboratory / Field Skill Performance: On spot Assessment**

- A. Performed the Task based on lab. work
- B. Spotting based on tools & technology (written)
- C. Viva-voce (based on principle/technology)
Managed by Course Teacher as per lab. status

Name and Signature of Convener & Members of CBoS:

M.Sc. I SEM. 2024-25
DEPARTMENT OF **Military Science/ Defence Studies**

COURSE CURRICULUM

PART- A: Introduction			
Program: Bachelor in Science /Art <i>(Certificate / Diploma / Degree/Honors)</i>		Semester – I	Session: 2024-2025
1	Course Code	DS -02P	
2	Course Title	Lab Course – B	
3	Course Type	Practical	
4	Pre-requisite (if, any)	<i>As per requirement</i>	
5	Course Learning Outcomes (CLO)	After undergoing this course a student will be in a position to – 1. Define the fundamental principles of surveying and its role in map creation. 2. Explain different surveying techniques (e.g., total station, GPS, aerial surveying) and their applications. 3. Identify and differentiate between various types of maps used in surveying 4. Understand the concepts of coordinate systems, datum's, and map projections in the context of surveying.	
6	Credit Value	2 Credits	<i>Credit =30 Hours Laboratory or Field learning/Training</i>
7	Total Marks	Max. Marks: 100	Min Passing Marks: 40
PART -B: Content of the Course			
Total No. of learning-Training/performance Periods: 30 Periods (30 Hours)			
Module	Topics (Course contents)		No. of Period
Lab./Field Training/ Experiment Contents of Course	SURVEY AND MAPPING 1. Survey by Plane table, Prismatic, Compass and Chain 2. Mapping : Location on maps of various types of military establishment and concern. 3. Viva voce, Sessional Work and Record.		30
Keywords	Survey, Mapping, Plane, Prismatic, Compass, Chain, Location, Establishment, Concern.		

Signature of Convener & Members (CBoS) :

PART-C: Learning Resources

Text Books, Reference Books and Others

1. प्रयोगात्मक भूगोल : डॉ. पी.आर. चौहान
2. प्रायोगिक भूगोल : डॉ. पी.शर्मा
3. प्रयोगात्मक स्थल युद्ध कला : चौ. नरेन्द्र सिंह

Online Resources-

Ministry of Defence - <https://mod.gov.in>,
SWAYAM - <https://swayam.gov.in/>
SWAYAM PRABHA - <https://swayamprabha.gov.in/>
NIOS - <https://nios.ac.in/online-course-material/>

PART -D:

Suggested Continuous Evaluation Methods:

Maximum Marks: 100 Marks

Continuous Internal Assessment (CIA): (By Course Teacher)

End Semester Exam (ESE):

Laboratory / Field Skill Performance: On spot Assessment

- A. Performed the Task based on lab. work
- B. Spotting based on tools & technology (written)
- C. Viva-voce (based on principle/technology)

Managed by Course Teacher as per lab. status

Name and Signature of Convener & Members of CBoS:

DEPARTMENT OF DEFENCE STUDIES
M.Sc. II SEM. (2024-25)
SYLLABUS AND MARKING SCHEME
2024-25 SEMESTER

Paper No.	Title of the Paper	Marks Allotted in Theory		Marks Allotted in Internal Assessment		Credits
		Max.	Min.	Max.	Min.	
I	India and The Indian Ocean	80	16	20	04	4
II	Modern Warfare	80	16	20	04	4
III	Defence Mechanism of India	80	16	20	04	4
IV	Technologies of War	80	16	20	04	4
V	Lab Course –I	100				2
VI	Lab Course –II	100				2
Total		520	--	80	--	20

	Total Marks	Total Credits Marks
Theory Papers	320	16
Internal Assessment	80	--
Lab Course	200	04
Grand Total	600	20

Signature-
H.O.D.

External Subject Experts-

- 1.
- 2.
- 3.

Student Member -

Principal
Govt. N.P.G. College of Science,
Raipur (C.G.)

M.Sc. II SEM. 2024-25
DEPARTMENT OF Military Science/ Defence Studies

COURSE CURRICULUM

PART- A: Introduction			
Program: Masters in Science		Semester – II	Session: 2024-2025
1	Course Code	DS -05T	
2	Course Title	India and The Indian Ocean	
3	Course Type	Theory	
4	Pre-requisite (if, any)	<i>As per requirement</i>	
5	Course Learning Outcomes (CLO)	After undergoing this course a student will be in a position to – 1. Identify and explain key tenets of prominent Indian Interest. 2. Analyze the historical context and evolution of Indian military thought across different eras. 3 Identify and explain Maritime Boundary of India. 4.Explore the role of Indian Navy..	
6	Credit Value	4 Credits	<i>Credit =60 Hours Study, Learning & Observation</i>
7	Total Marks	Max. Marks: 100	Min Passing Marks: 40
PART -B: Content of the Course			
Total No. of learning-Training/performance Periods: 60 Periods (60 Hours)			
Module	Topics (Course contents)		No. of Period
Unit 1	Indian interest: i. Political interest ii. Economical interest iii. Antarctica expenditure		15
Unit 2	Conflict in the Indian Ocean: i. Tamil problems in Srilanka ii. Gulf War iii. Operation Cactus		15
Unit 3	Boundary of India: i. Maritime boundary of India ii. Islands of India iii. Strategic importance of Andaman Sea iv. Territorial waters, Continental shelf and EEZ		15
Unit 4	Indian Navy: i. Organization ii. Capabilities iii. Naval industries and institution iv. It's role during Indo-Pak war 1971 v. Presence of extra-regional powers		15
Keywords	Indian interest, Political interest, Economical interest, Expenditure, Strategic importance, Conflict, Indian Ocean, Boundary,		

Signature of Convener & Members (CBoS) :

PART-C: Learning Resources

Text Books, Reference Books and Others

- | | | |
|---|--|-------------------------------------|
| 1 | The Indian Ocean in Global Politics | : Larry W. Bowman, Ian Clark |
| 2 | The Atlas of World Geography | : Prof. Enrys Jones |
| 3 | A World Atlas of Military History (1945-1984) | : Tom Hartman, Jihn Mitchell |
| 4 | World Atlas of Weapons and War | : John Willians |

Online Resources–

Ministry of Defence - <https://mod.gov.in>,
SWAYAM - <https://swayam.gov.in/>
SWAYAM PRABHA - <https://swayamprabha.gov.in/>
NIOS - <https://nios.ac.in/online-course-material/>

PART -D: Assessment and Evaluation

Suggested Continuous Evaluation Methods:

Maximum Marks: 100 Marks Continuous Internal Assessment (CIA): 20 Marks

End Semester Exam (ESE): 80 Marks

Continuous Internal Assessment (CIA): (By Course Teacher)	Internal Test / Quiz-(2): - 10 Assignment/Seminar +Attendance - 10 Total Marks - 20	Better marks out of the two Test / Quiz + obtained marks in Assignment shall be considered against 20 Marks
End Semester Exam (ESE):	Three Section – A, B & C Section A: Objective – 8 x1= 8 Mark; Section B: Short answer type- 4x6 =24 Marks Section C: Descriptive answer type -4x12=48 Marks Note:- Questions will be asked from each Unit.	

Name and Signature of Convener & Members of CBoS:

M.Sc. II SEM. 2024-25
DEPARTMENT OF Military Science/ Defence Studies

COURSE CURRICULUM

PART- A: Introduction			
Program: Masters in Science		Semester – II	Session: 2024-2025
1	Course Code	DS -06T	
2	Course Title	Modern Warfare	
3	Course Type	Theory	
4	Pre-requisite (if, any)	<i>As per requirement</i>	
5	Course Learning Outcomes (CLO)	After undergoing this course a student will be in a position to – 1. Understand the impact of modern weapons on war. 2. Know the effect of warfare. 3. There will be information about the development related to Modern warfare. 4. Will understand Insurgency and counter insurgency.	
6	Credit Value	4 Credits	<i>Credit =60 Hours Study, Learning & Observation</i>
7	Total Marks	Max. Marks: 100	Min Passing Marks: 40
PART -B: Content of the Course			
Total No. of learning-Training/performance Periods: 60 Periods (60 Hours)			
Module	Topics (Course contents)		No. of Period
Unit 1	i. Types of war ii. Art of war - nature, characteristics and study of modern warfare iii. Elements of strategy and tactics		15
Unit 2	i. Logistics ii. Economic Warfare iii. Psychological War Fare		15
Unit 3	i Principle of war ii Effects of War iii Total War iv Limited War		15
Unit 4	i. Insurgency and counter insurgency ii. Naxalism iii. Cold war iv. Terrorism - treats and security		15
Keywords	War, Nature, Characteristics, Modern Warfare, Logistics, Economic, Psychological, Principle, Insurgency, Counter insurgency.		

Signature of Convener & Members (CBoS) :

PART-C: Learning Resources

Text Books, Reference Books and Others

1. युद्ध और शांति की समस्याएँ	:	डॉ. लल्लन जी सिंह
2. युद्ध और शांति के मूल तत्व	:	डॉ. बाबूराम पाण्डेय, डॉ.रामसूरत पाण्डेय
3. भारतीय सैन्य इतिहास और युद्ध के सिद्धांत	:	डॉ. लल्लन जी सिंह
4. सैन्य अध्ययन की पाठ्य पुस्तक	:	डॉ. बाबूराम पाण्डेय

Online Resources-

Ministry of Defence - <https://mod.gov.in>,
SWAYAM - <https://swayam.gov.in/>
SWAYAM PRABHA - <https://swayamprabha.gov.in/>
NIOS - <https://nios.ac.in/online-course-material/>

PART -D: Assessment and Evaluation

Suggested Continuous Evaluation Methods:

Maximum Marks: 100 Marks Continuous Internal Assessment (CIA): 20 Marks

End Semester Exam (ESE): 80 Marks

Continuous Internal Assessment (CIA): (By Course Teacher)	Internal Test / Quiz-(2): - 10 Assignment/Seminar +Attendance - 10 Total Marks - 20	Better marks out of the two Test / Quiz + obtained marks in Assignment shall be considered against 20 Marks
End Semester Exam (ESE):	Three Section – A, B & C Section A: Objective – 8 x1= 8 Mark; Section B: Short answer type- 4x6 =24 Marks Section C: Descriptive answer type -4x12=48 Marks Note:- Questions will be asked from each Unit.	

Name and Signature of Convener & Members of CBoS:

M.Sc. II SEM. 2024-25
DEPARTMENT OF Military Science/ Defence Studies

COURSE CURRICULUM

PART- A: Introduction			
Program: Masters in Science		Semester – II	Session: 2024-2025
1	Course Code	DS -07T	
2	Course Title	Defence Mechanism of India	
3	Course Type	Theory	
4	Pre-requisite (if, any)	<i>As per requirement</i>	
5	Course Learning Outcomes (CLO)	After undergoing this course a student will be in a position to – 1 Define and understand the concept of national security in the context of India. 2. Explain the components of India's defence mechanism, including the armed forces, paramilitary forces, and civilian institutions. 3. Analyze the historical development of India's defence mechanisms, including key events and milestones. 4. Describe the organization, structure, and roles of the Indian Army, Navy, and Air Force.	
6	Credit Value	4 Credits	<i>Credit =60 Hours Study, Learning & Observation</i>
7	Total Marks	Max. Marks: 100	Min Passing Marks: 40
PART -B: Content of the Course			
Total No. of learning-Training/performance Periods: 60 Periods (60 Hours)			
Module	Topics (Course contents)		No. of Period
Unit 1	i. Nationalization of Indian armed forces after independence. ii. Higher Defence organization of India. iii. Role and powers of President as supreme commander of the armed forces. iv. National Security Council of India.		15
Unit 2	i. Ministry of Defence Organization. Role inter service Organization. ii. Organization of Army head quarter, field formation static formation. Army command. iii. Infantry- Characteristics, Role. iv. Armored corps, Artillery, corps of Engineers. Signal corps, Administrative Services.		15
Unit 3	i. Organization of Naval head quarter, Naval command, Role, Limitation. ii. Organization of Air force head quarter. Air force command. Role of Indian Air force. Limitation. iii. Civil Defence Organization Importance, Role.		15
Unit 4	i. Central Armed Police force and Para Military forces- organization, Role. ii. Indian Intelligence services, organization, Role iii NIA, JIC. iv Civil-Military Relation.		15
Keywords	Nationalization, Independence, President, Supreme Commander, National Security, Intelligence services, Civil-Military Relation.		

Signature of Convener & Members (CBoS) :

PART-C: Learning Resources		
Text Books, Reference Books and Others		
1.Indian Army, A Sketch of its History & Organization	:	E.H.E. Choen
2.Defence Organization in India	:	Venkateshwarm
3.India and the Cold War	:	K.P.S. Menon
4.International Affairs	:	Norman D Pamar
5.International Relation	:	Norman D Pamar
Online Resources–		
	Ministry of Defence - https://mod.gov.in ,	
	SWAYAM - https://swayam.gov.in/	
	SWAYAM PRABHA - https://swayamprabha.gov.in/	
	NIOS - https://nios.ac.in/online-course-material/	
PART -D: Assessment and Evaluation		
Suggested Continuous Evaluation Methods:		
Maximum Marks: 100 Marks Continuous Internal Assessment (CIA): 20 Marks		
End Semester Exam (ESE): 80 Marks		
Continuous Internal Assessment (CIA): (By Course Teacher)	Internal Test / Quiz-(2): - 10 Assignment/Seminar +Attendance - 10 Total Marks - 20	Better marks out of the two Test / Quiz + obtained marks in Assignment shall be considered against 20 Marks
End Semester Exam (ESE):	Three Section – A, B & C Section A: Objective – 8 x1= 8 Mark; Section B: Short answer type- 4x6 =24 Marks Section C: Descriptive answer type -4x12=48 Marks Note:- Questions will be asked from each Unit.	

Name and Signature of Convener & Members of CBoS:

M.Sc. II SEM. 2024-25
DEPARTMENT OF Military Science/ Defence Studies

COURSE CURRICULUM

PART- A: Introduction			
Program: Masters in Science		Semester – II	Session: 2024-2025
1	Course Code	DS -08T	
2	Course Title	Technologies of War	
3	Course Type	Theory	
4	Pre-requisite (if, any)	<i>As per requirement</i>	
5	Course Learning Outcomes (CLO)	After undergoing this course a student will be in a position to – 1. Define and categorize different types of war technologies across various historical periods. 2. Explain the impact of technological advancements on warfare, including strategic and tactical implications. 3. Analyze the social, political, and ethical considerations surrounding the development and use of war technologies. 4. Describe specific examples of war technologies and their historical significance (e.g., gunpowder, nuclear weapons, drones).	
6	Credit Value	4 Credits	<i>Credit =60 Hours Study, Learning & Observation</i>
7	Total Marks	Max. Marks: 100	Min Passing Marks: 40
PART -B: Content of the Course			
Total No. of learning-Training/performance Periods: 60 Periods (60 Hours)			
Module	Topics (Course contents)		No. of Period
Unit 1	DRDO:- i. DRDO and it's Lab. ii. India's Defence Industries, iii. India's Defence Production,		15
Unit 2	Nuclear Technology and India :- i. India's nuclear policy & nuclear test, ii. Research and Development facilities, iii. Atomic Establishment of India, iv. Atomic mineral fields of India.		15
Unit 3	Missile Technology and India :- i. India's missile programme. ii. Prithvi missiles, iii. Agni missiles, iv. Brahmos missiles, v. Sagarika and Surya Programme.		15
Unit 4	Space Technology and India :- i. Indian Space Research Organization, ii. Satellite programmes of India, iii. INSAT, iv. IRS,		15
<i>Keywords</i>	DRDO, Nuclear Technology, Missile Technology, Space Technology, Research Organization, Research and Development.		

Signature of Convener & Members (CBoS) :

PART-C: Learning Resources

Text Books, Reference Books and Others

1 Nuclear Weapons and Power Politics	:	Mani Shankar
2. Lasers : Theory and Applications	:	K. Thyagarajan
3. प्राक्षेपिकी	:	डॉ. इन्दु प्रकाश
4. युध्द में विज्ञान एवं तकनीक	:	डॉ. गिरीश कांत पाण्डेय
5. पर्यावरण और रासायनिक कीटाणु युध्द	:	डॉ. इन्दु प्रकाश

Online Resources-

Ministry of Defence	-	https://mod.gov.in ,
SWAYAM	-	https://swayam.gov.in/
SWAYAM PRABHA	-	https://swayamprabha.gov.in/
NIOS	-	https://nios.ac.in/online-course-material/

PART -D: Assessment and Evaluation

Suggested Continuous Evaluation Methods:

Maximum Marks: 100 Marks Continuous Internal Assessment (CIA): 20 Marks

End Semester Exam (ESE): 80 Marks

Continuous Internal Assessment (CIA): (By Course Teacher)	Internal Test / Quiz-(2): - 10	Better marks out of the two Test / Quiz + obtained marks in Assignment shall be considered against 20 Marks
	Assignment/Seminar +Attendance - 10 Total Marks - 20	
End Semester Exam (ESE):	Three Section – A, B & C Section A: Objective – 8 x1= 8 Mark; Section B: Short answer type- 4x6 =24 Marks Section C: Descriptive answer type -4x12=48 Marks Note:- Questions will be asked from each Unit.	

Name and Signature of Convener & Members of CBoS:

M.Sc. II SEM. 2024-25
DEPARTMENT OF Military Science/ Defence Studies

COURSE CURRICULUM

PART- A: Introduction			
Program: Bachelor in Science /Art <i>(Certificate / Diploma / Degree/Honors)</i>		Semester –II	Session: 2024-2025
1	Course Code	DS -03P	
2	Course Title	Lab Course – A	
3	Course Type	Practical	
4	Pre-requisite (if, any)	<i>As per requirement</i>	
5	Course Learning Outcomes (CLO)	After undergoing this course a student will be in a position to – 1. Describe the key characteristics of different tank classes (e.g., Main Battle Tanks, Light Tanks) including armament, armor, and mobility. 2. Identify common features used for visual identification of tanks, such as turret design, gun type, and chassis configuration. 3. Explain the distinguishing characteristics of various types of aircraft (fighters, bombers, helicopters) based on wing configuration, engine placement, and overall size. 4. Utilize reference materials (field guides, identification charts) for accurate tank and aircraft classification.	
6	Credit Value	2 Credits	Credit =30 Hours Laboratory or Field learning/Training
7	Total Marks	Max. Marks: 100	Min Passing Marks: 40

PART -B: Content of the Course

Total No. of learning-Training/performance Periods: 30 Periods (30 Hours)

Module	Topics (Course contents)	No. of Period
Lab./Field Training/ Experiment Contents of Course	SPOTTING 1. Spotting of Tanks and Fighter Planes of Armed Forces of India and adjacent countries. 2. Lecture : Student shall be required to give a lecture on world affairs and current events for about 5-15 minutes. 3. Group Discussion : Conduct a group discussion on the topic of various aspects of security environment. 4. Viva voce, Sessional Work and Record.	30
Keywords	Spotting, Adjacent Countries, Lecture, Current Events, Group Discussion, Environment,	

Signature of Convener & Members (CBoS) :

PART-C: Learning Resources

Text Books, Reference Books and Others

- | | | |
|-------------------------------|---|-------------------|
| 4. प्रयोगात्मक भूगोल | : | डॉ. पी.आर. चौहान |
| 5. प्रायोगिक भूगोल | : | डॉ. पी.शर्मा |
| 6. प्रयोगात्मक स्थल युद्ध कला | : | चौ. नरेन्द्र सिंह |

Online Resources–

Ministry of Defence - <https://mod.gov.in>,
SWAYAM - <https://swayam.gov.in/>
SWAYAM PRABHA - <https://swayamprabha.gov.in/>
NIOS - <https://nios.ac.in/online-course-material/>

PART -D:**Suggested Continuous Evaluation Methods:****Maximum Marks: 100 Marks****Continuous Internal Assessment (CIA):** (By Course Teacher)**End Semester Exam (ESE):****Laboratory / Field Skill Performance: On spot Assessment**

- D. Performed the Task based on lab. work**
- E. Spotting based on tools & technology (written)**
- F. Viva-voce (based on principle/technology)**
Managed by Course Teacher as per lab. status

Name and Signature of Convener & Members of CBoS:

M.Sc. II SEM. 2024-25
DEPARTMENT OF Military Science/ Defence Studies

COURSE CURRICULUM

PART- A: Introduction			
Program: Bachelor in Science /Art <i>(Certificate / Diploma / Degree/Honors)</i>		Semester –II	Session: 2024-2025
1	Course Code	DS -04P	
2	Course Title	Lab Course – B	
3	Course Type	Practical	
4	Pre-requisite (if, any)	<i>As per requirement</i>	
5	Course Learning Outcomes (CLO)	After undergoing this course a student will be in a position to – 1. Define and differentiate between different types of maps 2. Explain the basic principles of map scale, projection, and coordinate systems. 3. Identify the components of a map (legend, title, compass rose, scale bar) and their functions. 4. Describe the history and evolution of mapmaking and its impact on geographic understanding.	
6	Credit Value	2 Credits	<i>Credit =30 Hours Laboratory or Field learning/Training</i>
7	Total Marks	Max. Marks: 100	Min Passing Marks: 40
PART -B: Content of the Course			
Total No. of learning-Training/performance Periods: 30 Periods (30 Hours)			
Module	Topics (Course contents)		No. of Period
Lab./Field Training/ Experiment Contents of Course	MAP 1. Maps- Definitions, Types, marginal Information. 2. Direction & Cardinal Point. 3. Types of North, Angle of Convergence. 4. Bearing and inter Conversion of bearing. 5. Grid System. 6. Viva voce, Sessional Work and Record..		30
Keywords	Spotting, Adjacent Countries, Lecture, Current Events, Group Discussion, Environment,		

Signature of Convener & Members (CBoS) :

PART-C: Learning Resources

Text Books, Reference Books and Others

- | | | |
|-------------------------------|---|-------------------|
| 7. प्रयोगात्मक भूगोल | : | डॉ. पी.आर. चौहान |
| 8. प्रायोगिक भूगोल | : | डॉ. पी.शर्मा |
| 9. प्रयोगात्मक स्थल युद्ध कला | : | चौ. नरेन्द्र सिंह |

Online Resources-

- | | | |
|---------------------|---|---|
| Ministry of Defence | - | https://mod.gov.in , |
| SWAYAM | - | https://swayam.gov.in/ |
| SWAYAM PRABHA | - | https://swayamprabha.gov.in/ |
| NIOS | - | https://nios.ac.in/online-course-material/ |

PART -D:

Suggested Continuous Evaluation Methods:

Maximum Marks: 100 Marks

Continuous Internal Assessment (CIA): (By Course Teacher)	Laboratory / Field Skill Performance: On spot Assessment G. Performed the Task based on lab. work H. Spotting based on tools & technology (written) I. Viva-voce (based on principle/technology) Managed by Course Teacher as per lab. status
End Semester Exam (ESE):	

Name and Signature of Convener & Members of CBoS:

DEPARTMENT OF DEFENCE STUDIES
M.Sc. III SEM. 2025-2026
SYLLABUS AND MARKING SCHEME
2025-2026 SEMESTER

Paper No.	Title of the Paper	Marks Allotted in Theory		Marks Allotted in Internal Assessment		Credits
		Max.	Min.	Max.	Min.	
I	Security Studies	80	16	20	04	4
II	Chemical in War	80	16	20	04	4
III	International Affairs of Peace & Security	80	16	20	04	4
IV	Military Geography	80	16	20	04	4
V	Lab Course –I	100				2
VI	Lab Course –II	100				2
Total		520	--	80	--	20

	Total Marks	Total Credits Marks
Theory Papers	320	16
Internal Assessment	80	--
Lab Course	200	04
Grand Total	600	20

Signature-
H.O.D.

External Subject Experts-

- 1.
- 2.
- 3.

Student Member -

Principal
Govt. N.P.G. College of Science,
Raipur (C.G.)

M.Sc. III SEM. 2025-26
DEPARTMENT OF Military Science/ Defence Studies

COURSE CURRICULUM

PART- A: Introduction			
Program: Masters in Science		Semester – III	Session: 2025-2026
1	Course Code	DS -09T	
2	Course Title	Security Studies	
3	Course Type	Theory	
4	Pre-requisite (if, any)	<i>As per requirement</i>	
5	Course Learning Outcomes (CLO)	After undergoing this course a student will be in a position to – 1 Define and explain various concepts of security, including national security, human security, and environmental security. 2. Analyze the historical evolution of security threats and the changing nature of warfare. 3. Identify and describe the key actors in the international security system 4.Explain the theoretical frameworks used to analyze security issues	
6	Credit Value	4 Credits	<i>Credit =60 Hours Study, Learning & Observation</i>
7	Total Marks	Max. Marks: 100	Min Passing Marks: 40
PART -B: Content of the Course			
Total No. of learning-Training/performance Periods: 60 Periods (60 Hours)			
Module	Topics (Course contents)		No. of Period
Unit 1	National Power i. Concept of National Power ii. Elements of National power iii Characteristics of National Power. iv National Interest		15
Unit 2	National Security Strategies i. Balance of power, ii. Collective security, iii. Regional Defence, iv. Non-alignment movement.		15
Unit 3	Principles of National Defence i. Concept and Theories of Conventional and Nuclear Deterrence. ii Essentials of National Defence. iii Transport and Communications.		15
Unit 4	Defence and Development i. Defence and Foreign Relations. ii. India's Nuclear Policy iii. India's Defence Policy.		15
<i>Keywords</i>	National Power, Security Strategies, Principles, National Defence, Balance of power, Collective security, Regional Defence		

Signature of Convener & Members (CBoS) :

PART-C: Learning Resources

Text Books, Reference Books and Others

1. National Security in Perspective	:	S.T. Das
2. राष्ट्रीय सुरक्षा और भारतीय विदेश नीति	:	डॉ. परशु राम गुप्त
3. राष्ट्रीय रक्षा और सुरक्षा	:	लल्लन जी सिंह
4. भारतीय प्रतिरक्षा का विकास	:	अरूण पटवारी
5. युद्ध और शांति की समस्याएँ	:	लल्लन जी सिंह

Online Resources-

Ministry of Defence	-	https://mod.gov.in ,
SWAYAM	-	https://swayam.gov.in/
SWAYAM PRABHA	-	https://swayamprabha.gov.in/
NIOS	-	https://nios.ac.in/online-course-material/

PART -D: Assessment and Evaluation

Suggested Continuous Evaluation Methods:

Maximum Marks: 100 Marks Continuous Internal Assessment (CIA): 20 Marks

End Semester Exam (ESE): 80 Marks

Continuous Internal Assessment (CIA): (By Course Teacher)	Internal Test / Quiz-(2): - 10 Assignment/Seminar +Attendance - 10 Total Marks - 20	Better marks out of the two Test / Quiz + obtained marks in Assignment shall be considered against 20 Marks
End Semester Exam (ESE):	Three Section – A, B & C Section A: Objective – 8 x1= 8 Mark; Section B: Short answer type- 4x6 =24 Marks Section C: Descriptive answer type -4x12=48 Marks Note:- Questions will be asked from each Unit.	

Name and Signature of Convener & Members of CBoS:

M.Sc. III SEM. 2025-26
DEPARTMENT OF Military Science/ Defence Studies

COURSE CURRICULUM

PART- A: Introduction			
Program: Masters in Science		Semester – III	Session: 2025-2026
1	Course Code	DS -010T	
2	Course Title	Chemical in War	
3	Course Type	Theory	
4	Pre-requisite (if, any)	<i>As per requirement</i>	
5	Course Learning Outcomes (CLO)	After undergoing this course a student will be in a position to – 1. Define and categorize different types of chemical weapons based on their properties and effects (e.g., nerve agents, blister agents, choking agents). 2. Explain the history and development of chemical weapons throughout different eras of warfare. 3. Analyze the international legal framework governing chemical weapons, including the Chemical Weapons Convention (CWC). 4. Describe the medical and environmental consequences of using chemical weapons.	
6	Credit Value	4 Credits	<i>Credit =60 Hours Study, Learning & Observation</i>
7	Total Marks	Max. Marks: 100	Min Passing Marks: 40
PART -B: Content of the Course			
Total No. of learning-Training/performance Periods: 60 Periods (60 Hours)			
Module	Topics (Course contents)		No. of Period
Unit 1	i. Explosive Weapons, ii. Comparison of chemical and explosive weapons, iii. Object of chemical attacks.		15
Unit 2	i. Effects of atmosphere on chemical attack, ii. Types of chemical ammunition, iii. Types of chemical agents, iv. Means of dispersion of chemical agents.		15
Unit 3	i. Difference between chemical and biological warfare, ii. Psycho-chemicals in war, iii. Smoke agents in war iv. Incendiary agents in war.		15
Unit 4	i. Protection against chemical attacks, ii. Use of chemicals in W.W. I & II, iii. Use of chemicals in war after W.W.-II, iv. Classification of chemical agents		15
Keywords	Explosive Weapons, Comparison of chemical, Chemical attacks, Atmosphere, Ammunition.		

Signature of Convener & Members (CBoS) :

PART-C: Learning Resources

Text Books, Reference Books and Others

1 Nuclear Weapons and Power Politics	:	Mani Shankar
2. Lasers : Theory and Applications	:	K. Thyagarajan
3. प्राक्षेपिकी	:	डॉ. इन्दु प्रकाश
4. युद्ध में विज्ञान एवं तकनीक	:	डॉ. गिरीश कांत पाण्डेय
5. पर्यावरण और रासायनिक कीटाणु युद्ध	:	डॉ. इन्दु प्रकाश

Online Resources–

Ministry of Defence	-	https://mod.gov.in ,
SWAYAM	-	https://swayam.gov.in/
SWAYAM PRABHA	-	https://swayamprabha.gov.in/
NIOS	-	https://nios.ac.in/online-course-material/

PART -D: Assessment and Evaluation

Suggested Continuous Evaluation Methods:

Maximum Marks: 100 Marks Continuous Internal Assessment (CIA): 20 Marks

End Semester Exam (ESE): 80 Marks

Continuous Internal Assessment (CIA): (By Course Teacher)	Internal Test / Quiz-(2): - 10 Assignment/Seminar +Attendance - 10 Total Marks - 20	Better marks out of the two Test / Quiz + obtained marks in Assignment shall be considered against 20 Marks
End Semester Exam (ESE):	Three Section – A, B & C Section A: Objective – 8 x1= 8 Mark; Section B: Short answer type- 4x6 =24 Marks Section C: Descriptive answer type -4x12=48 Marks Note:- Questions will be asked from each Unit.	

Name and Signature of Convener & Members of CBoS:

M.Sc. III SEM. 2025-26
DEPARTMENT OF Military Science/ Defence Studies

COURSE CURRICULUM

PART- A: Introduction			
Program: Masters in Science		Semester – III	Session: 2025-2026
1	Course Code	DS -011T	
2	Course Title	International Affairs of Peace & Security	
3	Course Type	Theory	
4	Pre-requisite (if, any)	<i>As per requirement</i>	
5	Course Learning Outcomes (CLO)	After undergoing this course a student will be in a position to – 1. Define and differentiate between various concepts of security, including national security, human security, and collective security. 2. Explain the historical evolution of the international security system and the changing nature of threats. 3. Identify and describe the key actors in international affairs (states, international organizations, non-state actors) and their roles in maintaining peace and security. 4. Analyze the theoretical frameworks used to understand international relations and security issues	
6	Credit Value	4 Credits	<i>Credit =60 Hours Study, Learning & Observation</i>
7	Total Marks	Max. Marks: 100	Min Passing Marks: 40
PART -B: Content of the Course			
Total No. of learning-Training/performance Periods: 60 Periods (60 Hours)			
Module	Topics (Course contents)		No. of Period
Unit 1	i. International Organisation – Definition, scope, approaches of the study. ii. Establishment of the United Nation Organisation. iii. Aims, purpose and principle of the UNO. iv. Main organs of the UNO - General Assembly. v. Security Council.		15
Unit 2	i. Economic and Social Council. ii. International Court of Justice. iii. Trusteeship System. iv. UNO Secretariat. v. Specialized Agencies of the UNO.		15
Unit 3	i. Revision in charter of UNO. ii. International Atomic Energy Agency. iii. World Trade Organisation. iv. Pacific settlement of dispute and Disarmament. v. Collective Security management.		15
Unit 4	i. Regional Security arrangement. ii. Development and Environment. iii. Stockholm conference of 1972 on the Human Environment. iv. Nairobi Declaration. v. World conference of Natural Disaster Reduction.		15
Keywords	International Organisation, Approaches, Security Council, Court of Justice, Trusteeship, Atomic Energy Agency, Security Arrangement.		

Signature of Convener & Members (CBoS) :

PART-C: Learning Resources		
Text Books, Reference Books and Others		
1. National Security in Perspective	:	S.T. Das
2. The Atlas of World Geography	:	Prof. Enrys Jones
3. राष्ट्रीय सुरक्षा और भारतीय विदेश नीति	:	डॉ. परशु राम गुप्त
4. राष्ट्रीय रक्षा और सुरक्षा	:	लल्लन जी सिंह
5. भारतीय प्रतिरक्षा का विकास	:	अरुण पटवारी
6. युद्ध और शांति की समस्याएँ	:	लल्लन जी सिंह
7. युद्ध और शांति के मूल तत्व	:	डॉ. बाबूराम पाण्डेय, डॉ.रामसूरत पाण्डेय
Online Resources-		
	Ministry of Defence	- https://mod.gov.in ,
	SWAYAM	- https://swayam.gov.in/
	SWAYAM PRABHA	- https://swayamprabha.gov.in/
	NIOS	- https://nios.ac.in/online-course-material/
PART -D: Assessment and Evaluation		
Suggested Continuous Evaluation Methods:		
Maximum Marks: 100 Marks Continuous Internal Assessment (CIA): 20 Marks		
End Semester Exam (ESE): 80 Marks		
Continuous Internal Assessment (CIA): (By Course Teacher)	Internal Test / Quiz-(2): - 10 Assignment/Seminar +Attendance - 10 Total Marks - 20	Better marks out of the two Test / Quiz + obtained marks in Assignment shall be considered against 20 Marks
End Semester Exam (ESE):	Three Section – A, B & C Section A: Objective – 8 x1= 8 Mark; Section B: Short answer type- 4x6 =24 Marks Section C: Descriptive answer type -4x12=48 Marks Note:- Questions will be asked from each Unit.	

Name and Signature of Convener & Members of CBoS:

M.Sc. III SEM. 2025-26
DEPARTMENT OF Military Science/ Defence Studies

COURSE CURRICULUM

PART- A: Introduction			
Program: Masters in Science		Semester – III	Session: 2025-2026
1	Course Code	DS -012T	
2	Course Title	Military Geography	
3	Course Type	Theory	
4	Pre-requisite (if, any)	<i>As per requirement</i>	
5	Course Learning Outcomes (CLO)	After undergoing this course a student will be in a position to – 1. Explain the fundamental principles of physical geography relevant to military operations 2. Analyze the influence of human geography factors (e.g., population distribution, infrastructure, cultural landscapes) on military strategy and tactics. 3. Describe the historical use of geography in warfare and its impact on the development of military strategies and technologies. 4. Identify and analyze the geographic challenges and opportunities presented by different regions of the world	
6	Credit Value	4 Credits	<i>Credit =60 Hours Study, Learning & Observation</i>
7	Total Marks	Max. Marks: 100	Min Passing Marks: 40
PART -B: Content of the Course			
Total No. of learning-Training/performance Periods: 60 Periods (60 Hours)			
Module	Topics (Course contents)		No. of Period
Unit 1	i. Geographical elements in war strategy ii. Geopolitics iii. Natural Resources and its Security Importance		15
Unit 2	i. Boundaries and Frontiers ii. Border problems of India with Pakistan and China iii. Importance of Himalaya		15
Unit 3	i. Geostrategic location of Laddakh ii. Geostrategic location of Arunachal Pradesh iii. Geostrategic location of Kutch		15
Unit 4	i. Geostrategic location of Andaman sea ii. Geostrategic location of Palk Striate iii. Choke points of Indian Ocean		15
Keywords	Geographical Elements, War Strategy, Geopolitics, Natural Resources, Boundaries, Frontiers, Geostrategic.		

Signature of Convener & Members (CBoS) :

PART-C: Learning Resources

Text Books, Reference Books and Others

1. National Security in Perspective	:	S.T. Das
2. The Indian Ocean in Global Politics	:	Larry W. Bowman, Ian Clark
3. The Atlas of World Geography	:	Prof. Enrys Jones
2. राष्ट्रीय सुरक्षा और भारतीय विदेश नीति	:	डॉ. परशु राम गुप्त
3. राष्ट्रीय रक्षा और सुरक्षा	:	लल्लन जी सिंह
4. भारतीय प्रतिरक्षा का विकास	:	अरुण पटवारी
5. युद्ध और शांति की समस्याएँ	:	लल्लन जी सिंह
6. युद्ध और शांति के मूल तत्व	:	डॉ. बाबूराम पाण्डेय, डॉ.रामसूरत पाण्डेय

Online Resources-

Ministry of Defence - <https://mod.gov.in>,
SWAYAM - <https://swayam.gov.in/>
SWAYAM PRABHA - <https://swayamprabha.gov.in/>
NIOS - <https://nios.ac.in/online-course-material/>

PART -D: Assessment and Evaluation

Suggested Continuous Evaluation Methods:

Maximum Marks: 100 Marks Continuous Internal Assessment (CIA): 20 Marks

End Semester Exam (ESE): 80 Marks

Continuous Internal Assessment (CIA): (By Course Teacher)	Internal Test / Quiz-(2): - 10 Assignment/Seminar +Attendance - 10 Total Marks - 20	Better marks out of the two Test / Quiz + obtained marks in Assignment shall be considered against 20 Marks
End Semester Exam (ESE):	Three Section – A, B & C Section A: Objective – 8 x1= 8 Mark; Section B: Short answer type- 4x6 =24 Marks Section C: Descriptive answer type -4x12=48 Marks Note:- Questions will be asked from each Unit.	

Name and Signature of Convener & Members of CBoS:

M.Sc. III SEM. 2025-26
DEPARTMENT OF Military Science/ Defence Studies

COURSE CURRICULUM

PART- A: Introduction			
Program: Bachelor in Science /Art <i>(Certificate / Diploma / Degree/Honors)</i>		Semester –III	Session: 2025-2026
1	Course Code	DS -05P	
2	Course Title	Lab Course – A	
3	Course Type	Practical	
4	Pre-requisite (if, any)	<i>As per requirement</i>	
5	Course Learning Outcomes (CLO)	After undergoing this course a student will be in a position to – 1. Identify and define key current affairs topics across various areas 2. Explain the historical context and background information relevant to current events. 3. Analyze the different perspectives and stakeholders involved in major current affairs issues. 4. Critically evaluate the information presented in various news sources, identifying bias and credibility.	
6	Credit Value	2 Credits	<i>Credit =30 Hours Laboratory or Field learning/Training</i>
7	Total Marks	Max. Marks: 100	Min Passing Marks: 40
PART -B: Content of the Course			
Total No. of learning-Training/performance Periods: 30 Periods (30 Hours)			
Module	Topics (Course contents)		No. of Period
Lab./Field Training/ Experiment Contents of Course	Current Affairs i. News paper cutting on national and international affairs during the session. ii. Give a 10 min. talk on current world affairs during the period. iii. Mapping - India, Asia & World. iv. Viva voce, Sessional Work and Record.		30
Keywords	Current Affairs, Mapping, National, International Affairs, India, Asia, World		

Signature of Convener & Members (CBoS) :

PART-C: Learning Resources

Text Books, Reference Books and Others

1	प्रयोगात्मक भूगोल	:	डॉ. पी.आर. चौहान
2	प्रायोगिक भूगोल	:	डॉ. पी.शर्मा
3	प्रयोगात्मक स्थल युद्ध कला	:	चौ. नरेन्द्र सिंह
4	मनोवैज्ञानिक एवं मनोमापन	:	डॉ. एन.के. सक्सेना, डॉ. महेश भार्गव
5	आधुनिक मनोवैज्ञानिक परीक्षण एवं मापन	:	डॉ. महेश भार्गव

Online Resources-

Ministry of Defence	-	https://mod.gov.in ,
SWAYAM	-	https://swayam.gov.in/
SWAYAM PRABHA	-	https://swayamprabha.gov.in/
NIOS	-	https://nios.ac.in/online-course-material/

PART -D:

Suggested Continuous Evaluation Methods:

Maximum Marks: 100 Marks

Continuous Internal Assessment (CIA): (By Course Teacher)

End Semester Exam (ESE):

Laboratory / Field Skill Performance: On spot Assessment

- J. Performed the Task based on lab. work**
 - K. Spotting based on tools & technology (written)**
 - L. Viva-voce (based on principle/technology)**
- Managed by Course Teacher as per lab. status

Name and Signature of Convener & Members of CBoS:

M.Sc. III SEM. 2025-26
DEPARTMENT OF Military Science/ Defence Studies

COURSE CURRICULUM

PART- A: Introduction			
Program: Bachelor in Science /Art <i>(Certificate / Diploma / Degree/Honors)</i>		Semester –III	Session: 2025-2026
1	Course Code	DS -06P	
2	Course Title	Lab Course – B	
3	Course Type	Practical	
4	Pre-requisite (if, any)	<i>As per requirement</i>	
5	Course Learning Outcomes (CLO)	After undergoing this course a student will be in a position to – 1. Define and differentiate between ethical and unethical research practices in the context of military psychological experiments. 2. Analyze the historical development of military psychological experiments, including key examples and their societal impact. 3. Explain the ethical codes and regulations governing human subject research, with a focus on military applications. 4. Identify the potential psychological and social consequences of unethical military psychological experiments on subjects.	
6	Credit Value	2 Credits	<i>Credit =30 Hours Laboratory or Field learning/Training</i>
7	Total Marks	Max. Marks: 100	Min Passing Marks: 40
PART -B: Content of the Course			
Total No. of learning-Training/performance Periods: 30 Periods (30 Hours)			
Module	Topics (Course contents)		No. of Period
Lab./Field Training/ Experiment Contents of Course	Military Psychological Experiment – 1. Intelligence test. 2. Fatigue test 3. Viva voce, Sessional Work and Record.		30
<i>Keywords</i>	Military Psychological Experiment, Intelligence test, Fatigue test.		

Signature of Convener & Members (CBoS) :

PART-C: Learning Resources

Text Books, Reference Books and Others

1	प्रयोगात्मक भूगोल	:	डॉ. पी.आर. चौहान
2	प्रायोगिक भूगोल	:	डॉ. पी.शर्मा
3	प्रयोगात्मक स्थल युद्ध कला	:	चौ. नरेन्द्र सिंह
4	मनोवैज्ञानिक एवं मनोमापन	:	डॉ. एन.के. सक्सेना, डॉ. महेश भार्गव
5	आधुनिक मनोवैज्ञानिक परीक्षण एवं मापन	:	डॉ. महेश भार्गव

Online Resources-

Ministry of Defence	-	https://mod.gov.in ,
SWAYAM	-	https://swayam.gov.in/
SWAYAM PRABHA	-	https://swayamprabha.gov.in/
NIOS	-	https://nios.ac.in/online-course-material/

PART -D:

Suggested Continuous Evaluation Methods:

Maximum Marks: 100 Marks

Continuous Internal Assessment (CIA): (By Course Teacher)	Laboratory / Field Skill Performance: On spot Assessment M. Performed the Task based on lab. work N. Spotting based on tools & technology (written) O. Viva-voce (based on principle/technology) Managed by Course Teacher as per lab. status
End Semester Exam (ESE):	

Name and Signature of Convener & Members of CBoS:

DEPARTMENT OF DEFENCE STUDIES
M.Sc. IV SEM. 2025-2026
SYLLABUS AND MARKING SCHEME
2025-2026 SEMESTER

Paper No.	Title of the Paper	Marks Allotted in Theory		Marks Allotted in Internal Assessment		Credits
		Max.	Min.	Max.	Min.	
I	National Security of India	80	16	20	04	4
II	Treaties and Peace Studies	80	16	20	04	4
III	Disarmament, Arms control & Peace	80	16	20	04	4
IV	International Law	80	16	20	04	4
V	Lab Course –I	100				2
VI	Lab Course –II	100				2
Total		520	--	80	--	20

	Total Marks	Total Credits Marks
Theory Papers	320	16
Internal Assessment	80	--
Lab Course	200	04
Grand Total	600	20

Signature-
H.O.D.

External Subject Experts-

- 1.
- 2.
- 3.

Student Member -

Principal
Govt. N.P.G. College of Science,
Raipur (C.G.)

M.Sc. IV SEM. 2025-26
DEPARTMENT OF Military Science/ Defence Studies

COURSE CURRICULUM

PART- A: Introduction			
Program: Masters in Science		Semester – IV	Session: 2025-2026
1	Course Code	DS -013T	
2	Course Title	National Security of India	
3	Course Type	Theory	
4	Pre-requisite (if, any)	<i>As per requirement</i>	
5	Course Learning Outcomes (CLO)	After undergoing this course a student will be in a position to – 1. Define national security and explain its various dimensions in the Indian context 2. Analyze the historical evolution of India's national security threats and strategic environment. 3. Identify and describe the key institutions responsible for India's national security 4. Explain India's foreign policy and strategic partnerships in the context of national security.	
6	Credit Value	4 Credits	<i>Credit =60 Hours Study, Learning & Observation</i>
7	Total Marks	Max. Marks: 100	Min Passing Marks: 40
PART -B: Content of the Course			
Total No. of learning-Training/performance Periods: 60 Periods (60 Hours)			
Module	Topics (Course contents)		No. of Period
Unit 1	Objective of Defence Policy : i. Instruments for the promotion of National interests. ii. Essentials of National Defence. iii. India’s strategic location on world.		15
Unit 2	Area Studies : i. Strategic importance of border states, ii. Indian Ocean & Indian Security. iii. Approaches of Peace- Diplomacy, International law & U.N.O.		15
Unit 3	Internal Threats : i. Problems of India’s Internal security. ii. Terrorism. iii. India’s Current Security Problems in Changing world Scenario. iv. Disaster & Disaster Management.		15
Unit 4	India and Neighboring Countries: i. India and Pakistan – focus on issues of dispute and efforts at normalization. ii. India and China – focus on issues of dispute and efforts at normalization. iii. India and Neighboring Countries (Nepal, Bangladesh & Shrilanka) – focus on issues of dispute and efforts at normalization. iv. India’s Look Act East Policy. v. Indo- Pacific Cooperation & Strategic Partnership		15
Keywords	Defence Policy, Instruments, Promotion, National Interests, Essentials, Strategic Importance, Internal Threats.		

Signature of Convener & Members (CBoS) :

PART-C: Learning Resources		
Text Books, Reference Books and Others		
1. National Security in Perspective	:	S.T. Das
2. राष्ट्रीय सुरक्षा और भारतीय विदेश नीति	:	डॉ. परशु राम गुप्त
3. राष्ट्रीय रक्षा और सुरक्षा	:	लल्लन जी सिंह
4. भारतीय प्रतिरक्षा का विकास	:	अरूण पटवारी
5. युद्ध और शांति की समस्याएँ	:	लल्लन जी सिंह
6. युद्ध और शांति के मूल तत्व	:	डॉ. बाबूराम पाण्डेय, डॉ.रामसूरत पाण्डेय
Online Resources-		
	Ministry of Defence	- https://mod.gov.in ,
	SWAYAM	- https://swayam.gov.in/
	SWAYAM PRABHA	- https://swayamprabha.gov.in/
	NIOS	- https://nios.ac.in/online-course-material/
PART -D: Assessment and Evaluation		
Suggested Continuous Evaluation Methods:		
Maximum Marks: 100 Marks Continuous Internal Assessment (CIA): 20 Marks		
End Semester Exam (ESE): 80 Marks		
Continuous Internal Assessment (CIA): (By Course Teacher)	Internal Test / Quiz-(2): - 10 Assignment/Seminar +Attendance - 10 Total Marks - 20	Better marks out of the two Test / Quiz + obtained marks in Assignment shall be considered against 20 Marks
End Semester Exam (ESE):	Three Section – A, B & C Section A: Objective – 8 x1= 8 Mark; Section B: Short answer type- 4x6 =24 Marks Section C: Descriptive answer type -4x12=48 Marks Note:- Questions will be asked from each Unit.	

Name and Signature of Convener & Members of CBoS:

M.Sc. IV SEM. 2025-26
DEPARTMENT OF Military Science/ Defence Studies

COURSE CURRICULUM

PART- A: Introduction			
Program: Masters in Science		Semester – IV	Session: 2025-2026
1	Course Code	DS -014T	
2	Course Title	Treaties and Peace Studies	
3	Course Type	Theory	
4	Pre-requisite (if, any)	<i>As per requirement</i>	
5	Course Learning Outcomes (CLO)	After undergoing this course a student will be in a position to – 1. Define and differentiate between various types of treaties relevant to peace studies. 2. Analyze the historical development of the treaty system in international relations and its role in conflict resolution. 3. Explain the key principles and legal frameworks governing the negotiation, ratification, and implementation of treaties. 4. Identify and describe the major international organizations and institutions involved in treaty-making and peacebuilding initiatives	
6	Credit Value	4 Credits	<i>Credit =60 Hours Study, Learning & Observation</i>
7	Total Marks	Max. Marks: 100	Min Passing Marks: 40
PART -B: Content of the Course			
Total No. of learning-Training/performance Periods: 60 Periods (60 Hours)			
Module	Topics (Course contents)		No. of Period
Unit 1	i. Antarctic Treaty (1959). ii. Biological weapon (B.W.) convention. iii. Chemical weapons (C.W.) convention.		15
Unit 2	i. Partial Test Ban Treaty. ii. Outer Space Treaty & . iii. Sea – bed Treaty. iv. International Nuclear Free Treaty in Europe and its impact		15
Unit 3	i.Strategic Arms Limitation Talks (SALT). ii.Strategic Arms Reduction Talks (START). iii.Efforts to control the proliferation of Nuclear Weapons through the nuclear nonproliferation Treaty (NPT) and its indefinite extensions. iv.Comprehensive test ban Treaty (CTBT). v.Future debate on Fissile material cut off Treaty.		15
Unit 4	i.Liddel Hart’s views on the “Pillars of Peace”. ii.Baruch plan and the emerging concept of Atom for Peace. iii.Peace and its approaches. iv.MTCR. v.Nuclear Export Control Regimes.		15
Keywords	Biological weapon convention, Chemical weapons convention, Nuclear Free Treaty, Proliferation, Nuclear Export Control Regimes.		

Signature of Convener & Members (CBoS) :

PART-C: Learning Resources

Text Books, Reference Books and Others

1. अन्तर्राष्ट्रीय राजनीति	:	डॉ. बी.एल. फड़िया
2. अन्तर्राष्ट्रीय संबंध	:	डॉ. बी.एल. फड़िया
3. अन्तर्राष्ट्रीय संबंध	:	डॉ. दीना नाथ वर्मा
4. युद्ध में विज्ञान एवं तकनीक	:	डॉ. गिरीश कांत पाण्डेय
5. सैन्य विज्ञान भाग- 1	:	डॉ. पुष्पा जैन
6. सैन्य विज्ञान भाग- 2	:	डॉ. पुष्पा जैन

Online Resources-

Ministry of Defence - <https://mod.gov.in>,
SWAYAM - <https://swayam.gov.in/>
SWAYAM PRABHA - <https://swayamprabha.gov.in/>
NIOS - <https://nios.ac.in/online-course-material/>

PART -D: Assessment and Evaluation

Suggested Continuous Evaluation Methods:

Maximum Marks: 100 Marks Continuous Internal Assessment (CIA): 20 Marks

End Semester Exam (ESE): 80 Marks

Continuous Internal Assessment (CIA): (By Course Teacher)	Internal Test / Quiz-(2): - 10 Assignment/Seminar +Attendance - 10 Total Marks - 20	Better marks out of the two Test / Quiz + obtained marks in Assignment shall be considered against 20 Marks
End Semester Exam (ESE):	Three Section – A, B & C Section A: Objective – 8 x1= 8 Mark; Section B: Short answer type- 4x6 =24 Marks Section C: Descriptive answer type -4x12=48 Marks Note:- Questions will be asked from each Unit.	

Name and Signature of Convener & Members of CBoS:

M.Sc. IV SEM. 2025-26
DEPARTMENT OF Military Science/ Defence Studies

COURSE CURRICULUM

PART- A: Introduction			
Program: Masters in Science		Semester – IV	Session: 2025-2026
1	Course Code	DS -015T	
2	Course Title	Disarmament, Arms Control & Peace	
3	Course Type	Theory	
4	Pre-requisite (if, any)	<i>As per requirement</i>	
5	Course Learning Outcomes (CLO)	After undergoing this course a student will be in a position to – 1. Define and differentiate between disarmament, arms control, and non-proliferation in the context of international security. 2. Analyze the historical evolution of disarmament and arms control efforts, including key treaties and organizations (e.g., SALT I, NPT, CTBT). 3. Explain the various types of weapons systems and technologies relevant to disarmament and arms control discussions. 4. Describe the political, strategic, and economic factors that influence disarmament and arms control negotiations.	
6	Credit Value	4 Credits	<i>Credit =60 Hours Study, Learning & Observation</i>
7	Total Marks	Max. Marks: 100	Min Passing Marks: 40
PART -B: Content of the Course			
Total No. of learning-Training/performance Periods: 60 Periods (60 Hours)			
Module	Topics (Course contents)		No. of Period
Unit 1	i. Basic concept of disarmament & Arms Control ii. Contribution of global and regional disarmament & Arms Control to international security. iii. Problem and Prospect of disarmament & Arms Control. iv. Difference between disarmament and arms control.		15
Unit 2	i. History of disarmament & Arms Control before W.W. I. ii. Disarmament & Arms Control efforts between W.W.I and W.W.II. iii. Efforts for disarmament & Arms Control after W.W.I other than U.N. iv. Role of U.N. for disarmament & Arms Control.		15
Unit 3	i. U.N.O. and World Peace. ii. Peace Keeping Forces. iii. G4 & Coffee Club iv. Settlement of International Disputes. v. QUAD.		15
Unit 4	i. NATO. ii. SAARC. iii. BIMSTEC iv. Non - alignment. v. BRICS vi. G20		15
Keywords	Disarmament, Arms Control, Global and Regional, World Peace, Peace Keeping Forces, Settlement of International Disputes.		

Signature of Convener & Members (CBoS) :

PART-C: Learning Resources

Text Books, Reference Books and Others

अन्तर्राष्ट्रीय राजनीति	:	डॉ. बी.एल. फड़िया
2. अन्तर्राष्ट्रीय संबंध	:	डॉ. बी.एल. फड़िया
3. अन्तर्राष्ट्रीय संबंध	:	डॉ. दीना नाथ वर्मा
4. युद्ध में विज्ञान एवं तकनीक	:	डॉ. गिरीश कांत पाण्डेय
5. युद्ध और शांति की समस्याएँ	:	डॉ. लल्लन जी सिंह
6. युद्ध और शांति के मूल तत्व	:	डॉ. बाबूराम पाण्डेय, डॉ.रामसूरत पाण्डेय
7. National Security in Perspective	:	S.T. Das

Online Resources-

Ministry of Defence	-	https://mod.gov.in ,
SWAYAM	-	https://swayam.gov.in/
SWAYAM PRABHA	-	https://swayamprabha.gov.in/
NIOS	-	https://nios.ac.in/online-course-material/

PART -D: Assessment and Evaluation

Suggested Continuous Evaluation Methods:

Maximum Marks: 100 Marks Continuous Internal Assessment (CIA): 20 Marks

End Semester Exam (ESE): 80 Marks

Continuous Internal Assessment (CIA): (By Course Teacher)	Internal Test / Quiz-(2): - 10 Assignment/Seminar +Attendance - 10 Total Marks - 20	Better marks out of the two Test / Quiz + obtained marks in Assignment shall be considered against 20 Marks
End Semester Exam (ESE):	Three Section – A, B & C Section A: Objective – 8 x1= 8 Mark; Section B: Short answer type- 4x6 =24 Marks Section C: Descriptive answer type -4x12=48 Marks Note:- Questions will be asked from each Unit.	

Name and Signature of Convener & Members of CBoS:

M.Sc. IV SEM. 2025-26
DEPARTMENT OF Military Science/ Defence Studies

COURSE CURRICULUM

PART- A: Introduction			
Program: Masters in Science		Semester – IV	Session: 2025-2026
1	Course Code	DS -016T	
2	Course Title	International Law	
3	Course Type	Theory	
4	Pre-requisite (if, any)	<i>As per requirement</i>	
5	Course Learning Outcomes (CLO)	After undergoing this course a student will be in a position to – 1. Define and differentiate the key concepts of international law, including sovereignty, statehood, and jurisdiction. 2. Explain the historical development of international law and its evolution from customary law to codified treaties and conventions. 3. Identify and analyze the sources of international law. 4. Describe the key institutions and actors involved in international law	
6	Credit Value	4 Credits	<i>Credit =60 Hours Study, Learning & Observation</i>
7	Total Marks	Max. Marks: 100	Min Passing Marks: 40
PART -B: Content of the Course			
Total No. of learning-Training/performance Periods: 60 Periods (60 Hours)			
Module	Topics (Course contents)		No. of Period
Unit 1	i. Definition, nature and basis of International Law. ii. Intervention. iii. Nationality. iv. Extradition.		15
Unit 2	i. <i>Asylum</i> . ii. Diplomatic Agents and Consuls. iii. Neutrality. iv. Blockade.		15
Unit 3	i. State jurisdiction. ii. Enemy character. iii. Law of Land warfare. iv. Law of Maritime warfare.		15
Unit 4	i. Law of Aerial warfare. ii. War crime , Genocide. iii. Universal protection of Human Rights. iv. Protection of Human Rights under protection of Human Rights Act-1993.		15
Keywords	Nature and basis of International Law, Intervention, Nationality, Extradition. Asylum, Neutrality.		

Signature of Convener & Members (CBoS) :

PART-C: Learning Resources

Text Books, Reference Books and Others

1. National Security in Perspective	:	S.T. Das
2. The Indian Ocean in Global Politics	:	Larry W. Bowman, Ian Clark
3. The Atlas of World Geography	:	Prof. Enrys Jones
2. राष्ट्रीय सुरक्षा और भारतीय विदेश नीति	:	डॉ. परशु राम गुप्त
3. राष्ट्रीय रक्षा और सुरक्षा	:	लल्लन जी सिंह
4. भारतीय प्रतिरक्षा का विकास	:	अरुण पटवारी
5. युद्ध और शांति की समस्याएँ	:	लल्लन जी सिंह
6. युद्ध और शांति के मूल तत्व	:	डॉ. बाबूराम पाण्डेय, डॉ.रामसूरत पाण्डेय

Online Resources-

Ministry of Defence - <https://mod.gov.in>,
SWAYAM - <https://swayam.gov.in/>
SWAYAM PRABHA - <https://swayamprabha.gov.in/>
NIOS - <https://nios.ac.in/online-course-material/>

PART -D: Assessment and Evaluation

Suggested Continuous Evaluation Methods:

Maximum Marks: 100 Marks Continuous Internal Assessment (CIA): 20 Marks

End Semester Exam (ESE): 80 Marks

Continuous Internal Assessment (CIA): (By Course Teacher)	Internal Test / Quiz-(2): - 10 Assignment/Seminar +Attendance - 10 Total Marks - 20	Better marks out of the two Test / Quiz + obtained marks in Assignment shall be considered against 20 Marks
End Semester Exam (ESE):	Three Section – A, B & C Section A: Objective – 8 x1= 8 Mark; Section B: Short answer type- 4x6 =24 Marks Section C: Descriptive answer type -4x12=48 Marks Note:- Questions will be asked from each Unit.	

Name and Signature of Convener & Members of CBoS:

M.Sc. IV SEM. 2025-26
DEPARTMENT OF Military Science/ Defence Studies

COURSE CURRICULUM

PART- A: Introduction			
Program: Bachelor in Science /Art <i>(Certificate / Diploma / Degree/Honors)</i>		Semester –IV	Session: 2025-2026
1	Course Code	DS -07P	
2	Course Title	Lab Course – A	
3	Course Type	Practical	
4	Pre-requisite (if, any)	<i>As per requirement</i>	
5	Course Learning Outcomes (CLO)	After undergoing this course a student will be in a position to – 1. Explain the Military Decision Making Process (MDMP) and its application to tactical situations at the BN level. 2. Identify and analyze the elements of terrain, enemy, troops available, weather, time available, civilian considerations (METT-TC) in the context of a BN-level exercise. 3. Describe the capabilities and limitations of friendly and enemy forces relevant to a BN-level exercise scenario. 4. Explain the tasking and mission orders typically issued to a BN in various operational environments.	
6	Credit Value	2 Credits	<i>Credit =30 Hours Laboratory or Field learning/Training</i>
7	Total Marks	Max. Marks: 100	Min Passing Marks: 40
PART -B: Content of the Course			
Total No. of learning-Training/performance Periods: 30 Periods (30 Hours)			
Module	Topics (Course contents)		No. of Period
Lab./Field Training/ Experiment Contents of Course	i. Appreciation of military situation up to BN level of exercise on rescue operation. ii. Give a 25 min. talk on current world affairs during the period. iii. Mapping. vi. Viva voce, Sessional Work and Record.		30
Keywords	Current Affairs, Mapping, National, International Affairs, India, Asia, World		

Signature of Convener & Members (CBoS) :

PART-C: Learning Resources

Text Books, Reference Books and Others

1	प्रयोगात्मक भूगोल	:	डॉ. पी.आर. चौहान
2	प्रायोगिक भूगोल	:	डॉ. पी.शर्मा
3	प्रयोगात्मक स्थल युद्ध कला	:	चौ. नरेन्द्र सिंह

Online Resources-

Ministry of Defence	-	https://mod.gov.in ,
SWAYAM	-	https://swayam.gov.in/
SWAYAM PRABHA	-	https://swayamprabha.gov.in/
NIOS	-	https://nios.ac.in/online-course-material/

PART -D:

Suggested Continuous Evaluation Methods:

Maximum Marks:

100 Marks

Continuous Internal Assessment (CIA): (By Course Teacher)

End Semester Exam (ESE):

Laboratory / Field Skill Performance: On spot Assessment

- P. Performed the Task based on lab. work**
- Q. Spotting based on tools & technology (written)**
- R. Viva-voce (based on principle/technology)**
Managed by Course Teacher as per lab. status

Name and Signature of Convener & Members of CBoS:

M.Sc. IV SEM. 2025-26
DEPARTMENT OF Military Science/ Defence Studies

COURSE CURRICULUM

PART- A: Introduction			
Program: Bachelor in Science /Art <i>(Certificate / Diploma / Degree/Honors)</i>		Semester –IV	Session: 2025-2026
1	Course Code	DS -08P	
2	Course Title	Lab Course – B	
3	Course Type	Practical	
4	Pre-requisite (if, any)	<i>As per requirement</i>	
5	Course Learning Outcomes (CLO)	After undergoing this course a student will be in a position to – 1. Define and differentiate between ethical and unethical research practices in the context of military psychological experiments. 2. Analyze the historical development of military psychological experiments, including key examples and their societal impact. 3. Explain the ethical codes and regulations governing human subject research, with a focus on military applications. 4. Identify the potential psychological and social consequences of unethical military psychological experiments on subjects.	
6	Credit Value	2 Credits	<i>Credit =30 Hours Laboratory or Field learning/Training</i>
7	Total Marks	Max. Marks: 100	Min Passing Marks: 40
PART -B: Content of the Course			
Total No. of learning-Training/performance Periods: 30 Periods (30 Hours)			
Module	Topics (Course contents)		No. of Period
Lab./Field Training/ Experiment Contents of Course	Military Psychological Experiment – 1. Learning test by mirror method. 2. Illusion test. 3. Spotting of Tanks and Aircrafts of Defence forces. 4. Viva voce, Sessional Work and Record.		30
Keywords	Military Psychological Experiment, Learning test by mirror method, Illusion test.		

Signature of Convener & Members (CBoS) :

PART-C: Learning Resources

Text Books, Reference Books and Others

- | | | |
|-------------------------------|---|-------------------|
| 1. प्रयोगात्मक भूगोल | : | डॉ. पी.आर. चौहान |
| 2. प्रायोगिक भूगोल | : | डॉ. पी.शर्मा |
| 3. प्रयोगात्मक स्थल युद्ध कला | : | चौ. नरेन्द्र सिंह |

Online Resources-

- Ministry of Defence - <https://mod.gov.in>,
SWAYAM - <https://swayam.gov.in/>
SWAYAM PRABHA - <https://swayamprabha.gov.in/>
NIOS - <https://nios.ac.in/online-course-material/>

PART -D:

Suggested Continuous Evaluation Methods:

Maximum Marks: 100 Marks

Continuous Internal Assessment (CIA): (By Course Teacher)	Laboratory / Field Skill Performance: On spot Assessment S. Performed the Task based on lab. work T. Spotting based on tools & technology (written) U. Viva-voce (based on principle/technology) Managed by Course Teacher as per lab. status
End Semester Exam (ESE):	

Name and Signature of Convener & Members of CBoS: