

**G OVT. NAGARJUNA PG COLLEGE OF SCIENCE
RAIPUR**

DEPARTMENT OF DEFENCE STUDIES

REVISED SYLLABUS

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

2019-2020

Programme Specific Outcome :-

PSO1. Develop the understanding of Indian military history, art of war, military system and war affecting chronology.

PSO2. Understand the defence mechanism of power countries, higher defence organization, Armed forces, Paramilitary force & intelligence system.

PSO3. Develop the understanding of western military history and system. War affecting chronology.

PSO4. Understand the military thoughts. Internal and external threats.

PSO5. Understand the war and peace, UNO and other peace establishment agencies. PSO6. Understand the modern warfare. Do the Lab work – Lecturing, Group discussion, section level exercises.

Programme Outcomes (POs)

For three year degree programme in Higher education, Pos in context of Govt. N.P.G. College of Sc., Raipur will be as follows :-

PO1 - Critical thinking –

Syllabus for different subject in the UG programme in prepared by central board of studies dully approved by co-ordination committee headed by Honorable Governor. The combination of different subject in the graduation level in offered by the students in a way that apart from the knowledge gathering, they must develop critical thinking about the subject and also able to checking out the assumptions and ideas from different perspectives.

PO2 - Effective communication –

Apart from science subjects, two language papers are also included in the graduation programme, must be aiming toward development of communication skills. Hence at the time of graduation students will be able to connect people, ideas. Books, media and technology.

PO3 - Social interaction –

In graduation programme of science subjects, apart from the practical practices, most of the subjects carry field practices and field studies for better exposures of students. During the exposure they interact and participate in discussion with personnel, social activities. Which help them to reach conclusion in group setting. PO4 - Effective citizenship –

During the regular three year degree programme, a student actively participate in NCC, NSS and cultural activities. The participation will help then in developing effective citizenship, awareness of issues and concern about the national development.

PO5 - Ethics –

College administration during the implementation of syllabus sees that the subject of science field given to the students in theories and practicals, in such a way that they develop value system among the students and understanding regarding the moral dimension.

PO6 - Environment and sustainability –

As per the supreme court guidelines, the graduation syllabus of this institute contains the studies related to Environmental issues in which the students are given projects pertaining to the social concern apart from this different subject like Botany, Geology, Chemistry, Zoology are included localized Environmental issues for studies. It will help students to understand the issues of Environmental context and sustainable development.

PO7 - Self-directed and Life long learning –

With the changing time and as per need of an hour the syllabus are constructed and implemented in such a way that students even after completing their graduation may acquire their ability to life long learning process. For this applied aspect of syllabus are taken for the consideration.

Course out comes [COs]

CO1. Describe the area study and strategic importance of Indian Ocean.

CO2. Understand the strategic and military thoughts.

CO3. Describe the science of war. Conventional and Unconventional warfare.

CO4. Understand the Indian military system and art of war.

CO5. Indian interest and other power countries interest in Indian Ocean.

CO6. Describe the war. Insurgency and counter insurgency.

CO7. Understand the India's defence mechanism, civil military relation and civil defence.

CO8. Describe the new technology and trends of war.

CO9. Understand the security problem. National power & National interest.

CO10. Write down the classification, characteristics and effect of chemical in war.

CO11. Understand the International affairs of peace and security, International law.

CO12. Describe the military geography, boundaries and frontiers.

CO13. Understand the military treaties for war and peace, Disarmaments and arms control.

CO14. Lab work on military psychology experiment. Sand table tactical exercises, mapping, survey and spotting of various tank and aircrafts.

DEPARTMENT OF DEFENCE STUDIES
GOVT. NPG COLLEGE OF SCIENCE RAIPUR (CG)
M.Sc. I SEM. July 2019
SYLLABUS AND MARKING SCHEME
2019-20 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.

Departmental members – 1.

2.

3.

Representative from Industry

Student Member-

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

M. Sc. (DEFENCE STUDIES)
SEMESTER - I (July – Dec. 2019)
PAPER – I

(Area Study of the Indian Ocean)

1. izR;sd iz“u i= rhu [kaM“ A B C e foÖkfr g“xkA [kaM A cgqfodYih; i“u i dk Multiple Choice Question) [kaM B yÄmRrjh; iz“u a dk (Short Answer Question) [kaM C nhÄ mRrjh; (Long Answer Question)g“xkA
2. IÖh [kaM“ e izR;sd ÄdkÄ I iz“u g“ax A [kaM A e d“Ä Öh Internal Choice ugÈ g“xh [kaM B v©j C d izR;sd i“u e Internal Choice nh tkosxhA
3. iz“u i= e dy vad“ ,oa ikB;de e mYysff[kr ÄdkÄ d vkèkij ij izR;sd [kaM e vad i dk forj fuEukulkj g“axkA

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80	4	8 x 1= 8	4 x 6= 24	4 x 12= 48

IÖh [kaM“ A B C e izR;sd ;qfuV Is iz“u iqNk tkosxk A

Unit - 1 : Historical survey of sea power in the Indian Ocean :

- i. Indian supremacy
- ii. Indians in the South-East Asia
- iii. Arab dominance
- iv. European dominance
- v. Maratha navy.

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.

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

Unit - 4 :

- A. Power interest and revelry in the Indian Ocean.
- B. Peace Zone Proposal and the Indian Ocean
- C. Ingredients of sea power.

READING LIST :

- | | | |
|--|---|----------------------------|
| 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 |

M. Sc. (DEFENCE STUDIES)
SEMESTER - I (July –Dec. 2019)
PAPER – II

(Evaluation of Strategic Thoughts)

1. izR;sd iz“u i= rhu [kaM“ A B C e foÒkfr g“xkA [kaM A cgqfodYih; i“uà dk Multiple Choice Question) [kaM B yÄmRrjh; iz“uà dk (Short Answer Question) [kaM C nhÄ mRrjh; (Long Answer Question)g“xkA
2. IÒh [kaM“ e izR;sd ÄdkÄ I iz“u g“ax A [kaM A e d“Ä Òh Internal Choice ugÈ g“xh [kaM B v©j C d izR;sd i“u e Internal Choice nh tkosxhA
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80	4	8 x 1= 8	4 x 6= 24	4 x 12= 48

IÒh [kaM“ A B C e izR;sd ;qfuV Is iz“u iqNk tkoxk A

Unit - 1

- i. Kautilya
- ii. Machiavelli
- iii. Frederick “the great”

Unit -2

- i. Gustavous Adolphus
- ii. Nepelean Bonapart
- iii. Jomini

Unit -3

- i. Clausewitz
- ii. Captain B. M. Liddeil Hart
- iii. General J. F. C. Fuller

Unit - 4

- i. Admiral Alfred Thayer Mahan
- ii. Giulio Douhet
- iii. Mao Tse Tung

READING LIST :

- | | | | |
|----|-----------------------|---|--|
| 1. | Strategic Thinkers | : | Dr. Baburam Pandey & Dr. Ramsurat Pandey |
| 2. | Kautilya Arthashastra | : | K.P. Kanbley |
| 3. | vkèkfud I; fpUrd | : | Mk- yYyu th fllag |

M. Sc. (DEFENCE STUDIES)
SEMESTER - I (July – Dec. 2019)
PAPER – III
(Science of War)

1. izR;sd iz“u i= rhu [kaM“ A B C e foÒkfr g“xkA [kaM A cgqfodYih; i“uà dk Multiple Choice Question) [kaM B yÄmRrjh; iz“uà dk (Short Answer Question) [kaM C nhÄ mRrjh; (Long Answer Question)g“xkA
2. IÒh [kaM“ e izR;sd ÄdkÄ I iz“u g“ax A [kaM A e d“Ä Òh Internal Choice ugÈ g“xh [kaM B v©j C d izR;sd i“u e Internal Choice nh tkosxhA
3. iz“u i= e dy vad“ ,oa ikB;de e mYysf[kr ÄdkÄ d vkèkkj ij izR;sd [kaM e vadà dk forj fuEukulkj g“axkA

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IÒh [kaM“ A B C e izR;sd ;qfuV Is iz“u iqNk tkoxk A

Unit - 1.

1. Search of Science and Technology in war in history : Ancient Age, Age of Gun Powder, Age of Steam, Age of Oil, Modern Age.
2. Defence and Civil Technology : Research and Development, Production Cycle.
3. Standardization of Weapon System, Obsolarence Factor, Quality Control and Cost Effectiveness.

Unit - 2.

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.

Unit - 3.

1. Missiles and Rockets : Types, Function, Components, Fuels and Engine, Stages, Missile Family, Guidance System of Missile.
3. Space Technology : Satellites and Launching Vehicles, Launching facilities.
4. Possible military role of space.

Unit - 4.

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.

READING LIST :

- | | | |
|---------------------------------------|---|-------------------------|
| 1. Nuclear Weapons and Power Politics | : | Mani Shankar |
| 2. Lasers : Theory and Applications | : | K. Thyagarajan |
| 3. izk{ksfidh | : | Mil- bUn izdk“k |
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| 5- lk;koj=k v©j jklk;fud dhVh; ;qèn | : | Mil- bUn izdk“k |

M. Sc. (DEFENCE STUDIES)
SEMESTER - I (July –Dec. 2019)
PAPER – IV
(Indian Art of War)

1. izR;sd iz“u i= rhu [kaM“ A B C e foÒkfr g“xkA [kaM A cgqfodYih; i“uà dk Multiple Choice Question) [kaM B yAmRrjh; iz“uà dk (Short Answer Question) [kaM C nhA mRrjh; (Long Answer Question)g“xkA
2. IÒh [kaM“ e izR;sd ÅdkÅ I iz“u g“ax A [kaM A e d“Å Òh Internal Choice ugÈ g“xh [kaM B v©j C d izR;sd i“u e Internal Choice nh tkosxhA
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IÒh [kaM“ A B C e izR;sd ;qfuV Is iz“u iqNk tkoxk A

Unit - 1

- Comparative study of Indo-Greek art of war with reference to the Battle of Hydaspes 326 B.C.
- Mauran Military Systems
- Decline of Chariots and the importance of Elephants and the Cavalry till 7th century A.D.

Unit -2

- Rajput and Turk pattern of warfare with reference to Battle of Somnath 1025 A.D. and Tarain.
- Army organization during Sultanate period.
- Mughal military system with reference to the first Battle of Panipat 1526 A.D. and the Battle of Haldighati 1576 A.D.

Unit - 3

- 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.
- Military organization under Guru Govind Singh and Ranjit Singh. Anglo-Sikh war with reference to the Battle of Sobaron 1846 A.D.

Unit - 4

- Indian Army under British crown - Reorganization of the army between 1857-1914.
- Progressive Nationalization of the Indian Armed Forces.
- Role of Indian army in the first world war 1914-1918 A.D. and the second world war 1939-1945 A.D.

READING LIST :

- | | | |
|---------------------------------------|---|---------------|
| 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 |

Lab Course – A

Time : 3 Hrs.

Total Marks – 100

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.

Lab Course – B

Time : 3 Hrs.

Total Marks – 100

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.

READING LIST :

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DEPARTMENT OF DEFENCE STUDIES
GOVT. NPG COLLEGE OF SCIENCE RAIPUR (CG)
M.Sc. II SEM. Jan. 2020
SYLLABUS AND MARKING SCHEME
2019-20 SEMESTER

Paper No.	Title of the Paper	Marks Allotted in Theory		Marks Allotted in Internal Assessment		Credits
		Max.	Min.	Max.	Min.	
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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
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Signature-
H.O.D.

External Subject Experts- 1.

2.

3.

Departmental members – 1.

2.

3.

Representative from Industry

Student Member-

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

M. Sc. (DEFENCE STUDIES)
SEMESTER - II (Jan.-June 2020)
PAPER – I

(India and The Indian Ocean)

1. izR;sd iz“u i= rhu [kaM“ A B C e foÒkfr g“xkA [kaM A cgqfodYih; i“uà dk Multiple Choice Question) [kaM B yÄmRrjh; iz“uà dk (Short Answer Question) [kaM C nhÄ mRrjh; (Long Answer Question)g“xkA
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80	4	8 x 1= 8	4 x 6= 24	4 x 12= 48

IÒh [kaM“ A B C e izR;sd ;qfuV Is iz“u iqNk tkoxk A

Unit - 1 : Indian interest

- i. Political interest
- ii. Economical interest
- iii. Antarctica expenditure

Unit - 2 : Conflict in the Indian Ocean

- i. Tamil problems in Srilanka
- ii. Gulf War
- iii. Operation Cactus

Unit - 3 :

- i. Maritime boundary of India
- ii. Islands of India
- iii. Strategic importance of Andaman Sea
- iv. Territorial waters, Continental shelf and EEZ

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.

READING LIST :

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

M. Sc. (DEFENCE STUDIES)
SEMESTER - II (Jan. – June 2020)
PAPER – II
(Modern Warfare)

1. izR;sd iz“u i= rhu [kaM“ A B C e foÖkfr g“xkA [kaM A cgqfodYih; iz“u i dk Multiple Choice Question) [kaM B yAmRrjh; iz“u a dk (Short Answer Question) [kaM C nhA mRrjh; (Long Answer Question)g“xkA
2. IÖh [kaM“ e izR;sd ÄdkÄ I iz“u g“ax A [kaM A e d“Ä Öh Internal Choice ugÈ g“xh [kaM B v©j C d izR;sd i“u e Internal Choice nh tkoxshA
3. iz“u i= e dy vad“ ,oa ikB;de e mYysf[kr ÄdkÄ d vkèkkj ij izR;sd [kaM e vad i dk forj fuEukulkj g“axkA

dy vad	dy ;qfuV	cgqfodYih; iz“u i ij	yAmRrjh; iz“u i ij vad	nhA mRrjh; iz“u a ij vad
80	4	8 x 1= 8	4 x 6= 24	4 x 12= 48

IÖh [kaM“ A B C e izR;sd ;qfuV Is iz“u iqNk tkoxk A

Unit - 1

- i. Types of war
- ii. Art of war - nature, characteristics and study of modern warfare
- iii. Elements of strategy and tactics

Unit - 2

- i. Logistics
- ii. Economic Warfare
- iii. Psychological War Fare

Unit – 3

- i Principle of war
- ii Effects of War
- iii Total War
- iv Limited War

Unit - 4

- i. Insurgency and counter insurgency
- ii. Naxalism
- iii. Cold war
- iv. Terrorism - treats and security

READIND LIST :

1. ;èn v©j “kkar dh leL;k,i
2. ;èn v©j “kkar d ewy rRo
3. Ökjr; IU; bfrgkI v©j ;èn d fIènkär
4. IU; vè;;u dh ikB~; iqLrd

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- MkW- ckcwjke ikMs;] Mk-jkeljr ikMs;
- MkW- yYyu th flag
- MkW- ckcwjke ikMs;

M. Sc. (DEFENCE STUDIES)
SEMESTER - II (Jan. –June 2020)
PAPER – III

(Defence Mechanism of India)

1. izR;sd iz“u i= rhu [kaM“ A B C e foÒkfr g“xkA [kaM A cgqfodYih; i“uà dk Multiple Choice Question) [kaM B yÄmRrjh; iz“uà dk (Short Answer Question) [kaM C nhÄ mRrjh; (Long Answer Question)g“xkA
2. IÒh [kaM“ e izR;sd ÄdkÄ I iz“u g“ax A [kaM A e d“Ä Òh Internal Choice ugÉ g“xh [kaM B v©j C d izR;sd i“u e Internal Choice nh tkosxhA
3. iz“u i= e dy vad“ ,oa ikB;de e mYysffkr ÄdkÄ d vkèkkj ij izR;sd [kaM e vadà dk forj fuEukulkj g“axkA

dy vad	dy ;qfuV	cgqfodYih; iz“uà ij	yAmRrjh; iz“uà ij vad	nhA mRrjh; iz“uà ij vad
80	4	8 x 1= 8	4 x 6= 24	4 x 12= 48

IÒh [kaM“ A B C e izR;sd ;qfuV Is iz“u iqNk tkoxk A

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.

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.

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.

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.

READING LIST :

- | | | |
|--|---|----------------|
| 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 |

M. Sc. (DEFENCE STUDIES)
SEMESTER - II (Jan. - June 2020)
PAPER – IV
(Technologies of War)

1. izR;sd iz“u i= rhu [kaM“ A B C e foÒkfr g“xkA [kaM A cgqfodYih; i“u“ dk Multiple Choice Question) [kaM B yÄmRrjh; iz“u“ dk (Short Answer Question) [kaM C nhÄ mRrjh; (Long Answer Question)g“xkA
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3. iz“u i= e dy vad“ ,oa ikB;de e mYysffkr ÄdkÄ d vkèkkj ij izR;sd [kaM e vad“ dk forj fuEukulkj g“axkA

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80	4	8 x 1= 8	4 x 6= 24	4 x 12= 48

IÒh [kaM“ A B C e izR;sd ;qfuV Is iz“u iqNk tkoxk A

Unit - 1 :

- i. DRDO and it's Lab.
- ii. India's Defence Industries,
- iii. India's Defence Production,

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.

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.

Unit - 4 : Space Technology and India : -

- i. Indian Space Research Organization,
- ii. Satellite programmes of India,
- iii. INSAT,
- iv. IRS,

READING LIST :

- | | | |
|---------------------------------------|---|------------------------|
| 1. Nuclear Weapons and Power Politics | : | Mani Shankar |
| 2. Lasers : Theory and Applications | : | K. Thyagarajan |
| 3. izkksfidh | : | MkW- bUnq izdk“k |
| 4- ;èn es foKku ,oa rduhd | : | MkW- fxjh“k dkar ikMs; |
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Lab Course – A**Time : 3 Hrs.****Total Marks – 100****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.

Lab Course – B**Time : 3 Hrs.****Total Marks – 100****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.

READING LIST :

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|---------------------------|---|--------------------|
| 1. iz;"xkRed Òwx"y | ¼ | MkW- ih-vkj- p@gku |
| 2. izk;"fxd Òwx"y | ¼ | MkW- ih-"kelz |
| 3. iz;"xkRed LFky ;èn dyk | ¼ | p©- ujsUnz fllag |

**GOVT. NAGARJUNA PG COLLEGE OF SCIENCE,
RAIPUR**

DEPARTMENT OF DEFENCE STUDIES

REVISED SYLLABUS

**M. Sc.
(3rd and 4th Semester System)**

2019-2020

DEPARTMENT OF DEFENCE STUDIES
GOVT. NPG COLLEGE OF SCIENCE RAIPUR (CG)
M.Sc. III SEM. July 2020
SYLLABUS AND MARKING SCHEME
2020-21 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.

Departmental members – 1.

2.

3.

Representative from Industry

Student Member-

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

M. Sc. (DEFENCE STUDIES)
SEMESTER - III (July-Dec. 2020)
PAPER – I
(Security Studies)

1. izR;sd iz“u i= rhu [kaM“ A B C e foÒkfr g“xkA [kaM A cgqfodYih; i“u d k Multiple Choice Question) [kaM B yAmRrjh; iz“u a dk (Short Answer Question) [kaM C nhA mRrjh; (Long Answer Question)g“xkA
2. IÒh [kaM“ e izR;sd ÅdkÅ i iz“u g“ax A [kaM A e d“Å Òh Internal Choice ugÈ g“xh [kaM B v©j C d izR;sd i“u e Internal Choice nh tkosxhA
3. iz“u i= e dy vad“ ,oa ikB;de e mYysf[kr ÅdkÅ d vkèkkj ij izR;sd [kaM e vad d dk forj fuEukulkj g“axkA

dy vad	dy ;qfuV	cgqfodYih; iz“u i j	yAmRrjh; iz“u i j vad	nhA mRrjh; iz“u i j vad
80	4	8 x 1= 8	4 x 6= 24	4 x 12= 48

IÒh [kaM“ A B C e izR;sd ;qfuV Is iz“u iqNk tkoxk A

Unit - 1 : National Power

- i. Concept of National Power
- ii. Elements of National power
- iii Characteristics of National Power.
- iv National Interest

Unit - 2 : National Security Strategies

- i. Balance of power,
- ii. Collective security,
- iii. Regional Defence,
- iv. Non-alignment movement.

Unit - 3 : Principles of National Defence

- i. Concept and Theories of Conventional and Nuclear Deterrence.
- ii. Essentials of National Defence.
- iii. Transport and Communications.

Unit - 4 : Defence and Development

- i. Defence and Foreign Relations.
- ii. India’s Nuclear Policy
- iii. India’s Defence Policy.

READING LIST

- | | | |
|---------------------------------------|---|--------------------|
| 1. National Security in Perspective | : | S.T. Das |
| 2. jkVah; ij/kk v©j Òkjr; fons“k uhfr | % | MKW- ij“kq jke xlr |
| 3- jkVah; jkk v©j ij/kk | % | yYyu th fllag |
| 4- Òkjr; izfrjkk dk fodk | % | v:“k iVokjh |
| 5- ;èn v©j “kkar dh leL;k,i | % | yYyu th fllag |

M. Sc. (DEFENCE STUDIES)
SEMESTER - III (July-Dec. 2020)
PAPER – II
(Chemical in War)

1. izR;d iz“u i= rhu [kaM“ A B C e foÖkfr g“xkA [kaM A cgqfodYih; i“u d k Multiple Choice Question) [kaM B yÄmRrjh; iz“u a d k (Short Answer Question) [kaM C nhÄ mRrjh; (Long Answer Question)g“xkA
2. IÖh [kaM“ e izR;sd ÄdkÄ I iz“u g“ax A [kaM A e dÄ Öh Internal Choice ugÉ g“xh [kaM B v©j C d izR;sd i“u e Internal Choice nh tkosxhA
3. iz“u i= e dy vad“ ,oa ikB;de e mYysffkr ÄdkÄ d vkèkkj ij izR;sd [kaM e vad: d k forj fuEukulkj g“axkA

dy vad	dy ;qfuV	cgqfodYih; iz“u ij	yAmRrjh; iz“u ij vad	nhA mRrjh; iz“u ij vad
80	4	8 x 1= 8	4 x 6= 24	4 x 12= 48

IÖh [kaM“ A B C e izR;sd ;qfuV Is iz“u iqNk tkoxk A

Unit - 1

- i. Explosive Weapons,
- ii. Comparison of chemical and explosive weapons,
- iii. Object of chemical attacks.

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.

Unit - 3

- i. Difference between chemical and biological warfare,
- ii. Psycho-chemicals in war,
- iii. Smoke agents in war
- iv. Incendiary agents in war.

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.

READING LIST

- | | |
|---|-------------------------|
| 1. Nuclear Weapons and Power Politics : | Mani Shankar |
| 2. ;èn es foKku ,oa rduhd | MkW- fxjh“k dkar ikmMs; |
| 3- i;kZoj“k v©j jklk;fud dhVkt ;èn | MkW- bUnq izdk“k |

M. Sc. (DEFENCE STUDIES)
SEMESTER - III (July-Dec. 2020)
PAPER – III

(International Affairs of Peace & Security)

1. izR;sd iz“u i= rhu [kaM“ A B C e foÒkfr g“xkA [kaM A cgqfodYih; i“u i dk Multiple Choice Question) [kaM B yAmRrjh; iz“u a dk (Short Answer Question) [kaM C nhA mRrjh; (Long Answer Question)g“xkA
2. IÒh [kaM“ e izR;sd ÅdkÅ i iz“u g“ax A [kaM A e d“Å Òh Internal Choice ugÈ g“xh [kaM B v©j C d izR;sd i“u e Internal Choice nh tkoxhA
3. iz“u i= e dy vad“ ,oa ikB;de e mYysf[kr ÅdkÅ d vkèkkj ij izR;sd [kaM e vad“ dk forj fuEukulkj g“axkA

dy vad	dy ;qfuV	cgqfodYih; iz“u i ij	yAmRrjh; iz“u i ij vad	nhA mRrjh; iz“u i ij vad
80	4	8 x 1= 8	4 x 6= 24	4 x 12= 48

IÒh [kaM“ A B C e izR;sd ;qfuV Is iz“u iqNk tkoxk A

Unit 1 : The Structure of the United Nations.

- i. General Assembly
- ii. Security Council
- iii. ECOSOC
- iv. Trusteeship Council
- v. International Court of Justice
- vi. Secretariat

Unit 2 : Preservation of Peace

- i. Collective Security System
- ii. Pacific Settlement
- iii. Enforcement Action
- iv. Peace Keeping
- v. Regional Security Arrangements
- vi. Disarmament

Unit 3 :

- i. Reforming the United Nations.
- ii. Conflict Ideologies :- Militarism, Nationalism, Fundamentalism
- iii. Mobilization of Resources during war & Peace
- iv. Organized crime- Money Laundering & Norco Trafficking

Unit 4 : Development and Environment

- i. Development
- ii. Environment
- iv. Stockholm Conference of 1972 on the Human Environment
- v. Nairobi Declaration
- vi. World Conference of Natural Disaster Reduction

READING LIST

- | | | |
|--|---|-------------------------------------|
| 1. National Security in Perspective | : | S.T. Das |
| 2. The Atlas of World Geography | : | Prof. Enrys Jones |
| 3. jk“Vh; lqj{kk v©j Òkjr h; fons“k uhfr | : | Mk- ij“k jke xlr |
| 4. jk“Vh; j{kk v©j lj{kk | : | yYyu th f lag |
| 5. Okjr h; ifrj{kk dk fodk | : | v : k iVokjh |
| 6. ;èn v©j “kkafr dh leL;k, | : | yYyu th f lag |
| 7. ;èn v©j “kkafr d ewy rRo | : | Mk- ckcwke ik Ms;] Mk-jkelwr ik Ms; |

M. Sc. (DEFENCE STUDIES)
SEMESTER - III (July-Dec. 2020)
PAPER – IV
(Military Geography)

1. izR;sd iz“u i= rhu [kaM“ A B C e foÒkfr g“xkA [kaM A cgqfodYih; i“uà dk Multiple Choice Question) [kaM B yAmRrjh; iz“uà dk (Short Answer Question) [kaM C nhA mRrjh; (Long Answer Question)g“xkA
2. IÒh [kaM“ e izR;sd ÆdkÀ I iz“u g“ax A [kaM A e d“À Òh Internal Choice ugÈ g“xh [kaM B v©j C d izR;sd i“u e Internal Choice nh tkosxhA
3. iz“u i= e dy vad“ ,oa ikB;de e mYysffkr ÆdkÀ d vkèkkj ij izR;sd [kaM e vadà dk forj fuEukulkj g“axkA

dy vad	dy ;qfuV	cgqfodYih; iz“uà ij	yAmRrjh; iz“uà ij vad	nhA mRrjh; iz“uà ij vad
80	4	8 x 1= 8	4 x 6= 24	4 x 12= 48

IÒh [kaM“ A B C e izR;sd ;qfuV Is iz“u iqNk tkoxk A

Unit - 1

- i. Geographical elements in war strategy
- ii. Geopolitics
- iii. Natural Resources and its Security Importance

Unit - 2

- i. Boundaries and Frontiers
- ii. Border problems of India with Pakistan and China
- iii. Importance of Himalaya

Unit - 3

- i. Geostrategic location of Laddakh
- ii. Geostrategic location of Arunachal Pradesh
- iii. Geostrategic location of Kutch

Unit - 4

- i. Geostrategic location of Andaman sea
- ii. Geostrategic location of Palk Striate
- i. Choke points of Indian Ocean

READING LIST

- | | | |
|--|---|---------------------------------------|
| 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. jkVªh; Ijkk v©j Òkjr; fonsk uhfr | | MkW- ij“kq jke xlr |
| 3- jkVªh; jkk v©j Ijkk | | yYyu th flag |
| 4- Òkjr; izfrjkk dk fodkI | | v:“k iVokjh |
| 5- ;èn v©j “kkar dh leL;k,i | | yYyu th flag |
| 6- ;èn v©j “kkar d ewy rRo | | MkW- ckcwjke ik“Ms;] Mk-jkeljr ik“Ms; |

Lab Course A

Time : 3 Hrs.

Part A

Max. marks - 100

- i. News paper cutting on national and international affairs during the session.
- ii. Give a 25 min. talk on current world affairs during the period.
- iii. Mapping.
- ii. Viva voce, Sessional Work and Record.

Lab Course B

Time : 3 Hrs

Part B

Max. marks - 100

- i. Military Psychological Experiment –
Intelligence test.
Fatigue test
- ii. Viva voce, Sessional Work and Record.

READING LIST :

- | | | | |
|---|-------------------------------------|-----|------------------------------------|
| 1 | iz;"xkRed 0w"x"y | 1/2 | MkW- ih-vkj- p@gku |
| 2 | izk;"fxd 0wx"y | 1/2 | MkW- ih-"keiz |
| 3 | iz;"xkRed LFky ;èn dyk | 1/2 | p@- ujsUnz fllag |
| 4 | eu"oSKkfud ,oa eu"ekiu | 1/2 | MkW- ,u-d@- lDluk] MkW- egs"k 0kxo |
| 5 | vk/kfud eu"oSKkfud ijh{k@k ,oa ekiu | 1/2 | MkW- egs"k 0kxo |

DEPARTMENT OF DEFENCE STUDIES
GOVT. NPG COLLEGE OF SCIENCE RAIPUR (CG)
M.Sc. IV SEM. Jan. 2021
SYLLABUS AND MARKING SCHEME
2019-20 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.

Departmental members – 1.

2.

3.

Representative from Industry

Student Member-

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

M. Sc. (DEFENCE STUDIES)
SEMESTER - IV (Jan. - June 2021)
PAPER – I

(National Security of India)

1. izR;sd iz“u i= rhu [kaM“ A B C e foÒkfr g“xkA [kaM A cgqfodYih; i“uà dk Multiple Choice Question) [kaM B yÄmRrjh; iz“uà dk (Short Answer Question) [kaM C nhÄ mRrjh; (Long Answer Question)g“xkA
2. IÒh [kaM“ e izR;sd ÄdkÄ I iz“u g“ax A [kaM A e dÄ Òh Internal Choice ugÉ g“xh [kaM B v©j C d izR;sd i“u e Internal Choice nh tkosxhA
3. iz“u i= e dy vad“ ,oa ikB;de e mYysffkr ÄdkÄ d vkèkkj ij izR;sd [kaM e vadà dk forj fuEukulkj g“axkA

dy vad	dy ;qfuV	cgqfodYih; iz“uà ij	yAmRrjh; iz“uà ij vad	nhA mRrjh; iz“uà ij vad
80	4	8 x 1= 8	4 x 6= 24	4 x 12= 48

IÒh [kaM“ A B C e izR;sd ;qfuV Is iz“u iqNk tkoxk A

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.

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.

Unit - 3 : Internal Threats :

- i. Problems of India’s Internal security.
- ii. Terrorism
- iii. India’s Current Security Problems in Changing world Scenario.

Unit - 4

- 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.

READING LIST

- | | | |
|-------------------------------------|---|-------------------------------------|
| 1. National Security in Perspective | : | S.T. Das |
| 2. jkVªh; Ijkk v©j Òkjr; fonsk uhfr | ; | MKN- ij“kq jke xlr |
| 3- jkVªh; jkk v©j Ijkk | ; | yYyu th flag |
| 4- Òkjr; izfrjkk dk fodk I | ; | v:mk iVokjh |
| 5- ;èn v©j “kkar dh leL;k,i | ; | yYyu th flag |
| 6- ;èn v©j “kkar d ewy rRo | ; | MKN- ckcwjke ikMs;] Mk-jkeljr ikMs; |

M. Sc. (DEFENCE STUDIES)
SEMESTER - IV (Jan.-June 2021)
PAPER – II

(Treaties and Peace Studies)

1. izR;sd iz“u i= rhu [kaM“ A B C e foÒkfr g“xkA [kaM A cgqfodYih; i“uà dk Multiple Choice Question) [kaM B yÄmRrjh; iz“uà dk (Short Answer Question) [kaM C nhÄ mRrjh; (Long Answer Question)g“xkA
2. IÒh [kaM“ e izR;sd ÄdkÄ I iz“u g“ax A [kaM A e dÄ Òh Internal Choice ugÉ g“xh [kaM B v©j C d izR;sd i“u e Internal Choice nh tkosxhA
3. iz“u i= e dy vad“ ,oa ikB;de e mYysffkr ÄdkÄ d vkèkkj ij izR;sd [kaM e vadà dk forj fuEukulkj g“axkA

dy vad	dy ;qfuV	cgqfodYih; iz“uà ij	yAmRrjh; iz“uà ij vad	nhA mRrjh; iz“uà ij vad
80	4	8 x 1= 8	4 x 6= 24	4 x 12= 48

IÒh [kaM“ A B C e izR;sd ;qfuV Is iz“u iqNk tkoxk A

Unit 1

- i. Antarctic Treaty (1959).
- ii. Biological weapon (B.W.) convention.
- iii. Chemical weapons (C.W.) convention.

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

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.

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.

READING LIST :

- | | |
|---------------------------|------------------------|
| 1- vUrkZ“Vh; jktuhfr | MKW- ch-,y- QfM+;k |
| 2- vUrkZ“Vh; Iacaek | MKW- ch-,y- QfM+;k |
| 3- vUrkZ“Vh; Iacaek | MKW- nhuk ukFk oek |
| 4- ;èn es foKku ,oa rduhd | MKW- fxjh“k dkar ikMs; |
| 5- I U; foKku Okx& 1 | MkW- iq’ik tSu |
| 6- I U; foKku Okx& 2 | MkW- iq’ik tSu |

M. Sc. (DEFENCE STUDIES)
SEMESTER - IV (Jan. –June 2021)
PAPER – III

(Disarmament, Arms Control & Peace)

1. izR;sd iz“u i= rhu [kaM“ A B C e foÒkfr g“xkA [kaM A cgqfodYih; i“uà dk Multiple Choice Question) [kaM B yÄmRrjh; iz“uà dk (Short Answer Question) [kaM C nhÄ mRrjh; (Long Answer Question)g“xkA
2. IÒh [kaM“ e izR;sd ÄdkÄ I iz“u g“ax A [kaM A e d“Ä Òh Internal Choice ugÈ g“xh [kaM B v©j C d izR;sd i“u e Internal Choice nh tkosxhA
3. iz“u i= e dy vad“ ,oa ikB;de e mYysffkr ÄdkÄ d vkèkkj ij izR;sd [kaM e vadà dk forj fuEukulkj g“axkA

dqy vad	dy ;qfuV	cgqfodYih; iz“uà ij	yÄmRrjh; iz“uà ij vad	nhÄ mRrjh; iz“uà ij vad
80	4	8 x 1= 8	4 x 6= 24	4 x 12= 48

IÒh [kaM“ A B C e izR;sd ;qfuV Is iz“u iqNk tkoxk A

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.

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.

Unit 3

- i. U.N.O. and World Peace.
- ii. Neutrality.
- iii. Settlement of Disputes.

Unit 4

- i. NATO.
- ii. SAARC.
- iii. BIMSTEC
- iv. Non - alignment.

READING LIST :

- 1- vUrjkZ“Vah; jktuhfr
- 2- vUrjkZ“Vah; Iacaak

1/2
1/2

MKW- ch-,y- QfM+;k
MKW- ch-,y- QfM+;k

- | | | |
|---|---|---|
| 3- vUrkZ"v ^a h; l acaèk | ¼ | MkW- nhuk ukFk oekZ |
| 4- ;èn es foKku ,oa rduhd | ¼ | MkW- fxjh" k dkar i k ^o Ms; |
| 5- ;èn v©j "kka ^r dh leL;k,i | ¼ | MkW- yYyu t ^h fl ag |
| 6- ;èn v©j "kka ^r d ewy rRo | ¼ | MkW- ckcwjke ik ^o Ms;j Mk-jkeljr ik ^o Ms; |
| 7- National Security in Perspective : | | S.T. Das |

M. Sc. (DEFENCE STUDIES)
SEMESTER - IV (Jan. – June 2021)
PAPER – IV
(International Law)

1. izR;sd iz“u i= rhu [kaM“ A B C e foÒkfr g“xkA [kaM A cgqfodYih; i“u“ d k Multiple Choice Question) [kaM B yÄmRrjh; iz“u“ d k (Short Answer Question) [kaM C nhÄ mRrjh; (Long Answer Question)g“xkA
2. IÒh [kaM“ e izR;sd ÄdkÄ I iz“u g“ax A [kaM A e dÄ Òh Internal Choice ugÉ g“xh [kaM B v©j C d izR;sd i“u e Internal Choice nh t koxhA
3. iz“u i= e dy vad“ ,oa ikB;de e mYysffkr ÄdkÄ d vkèkkj ij izR;sd [kaM e vad“ d k forj fuEukulkj g“axkA

dy vad	dy ;qfuV	cgqfodYih; iz“u“ ij	yAmRrjh; iz“u“ ij vad	nhA mRrjh; iz“u“ ij vad
80	4	8 x 1= 8	4 x 6= 24	4 x 12= 48

IÒh [kaM“ A B C e izR;sd ;qfuV Is iz“u iqNk t koxk A

Unit 1 :

- i. Nature of International Law
- ii. Intervention
- iii. Nationality
- iv. Diplomatic Agents & Consuls

Unit 2 :

- i. Extradition
- ii. War Crime
- iii. Neutrality
- iv. Asylum

Unit 3 :

- i. Settlement of International Disputes
- ii. Laws of Land Warfare
- iii. Laws of Sea Warfare
- iv. Laws of Air Warfare

Unit 4 :

- i. Basic Concepts and Development of Humanitarian Law
- ii. UN General Assembly declaration of Human Right on 10. Dec.1948
- iii. The International Court of Justice.

READING LIST

- | | | |
|-------------------------------------|---|-------------------------------------|
| 1- vUrjkZ'V ^a h; jktuhfr | ‰ | MkW- ch-,y- QfM+;k |
| 2- vUrjkZ'V ^a h; I acaèk | ‰ | MkW- ch-,y- QfM+;k |
| 3- vUrjkZ'V ^a h; I acaèk | ‰ | MkW- nhuk ukFk oekZ |
| 4- ;èn v©j “kkat r dh IeL;k,i | ‰ | MkW- yYyu t h f l ag |
| 5- ;èn v©j “kkat r d ewy rRo | ‰ | MkW- ckcwjke ikMs;] Mk-jkeljr ikMs; |
| 6.National Security in Perspective | : | S.T. Das |

Lab Course -A

Time : 3 Hrs.

Part – A

Max. marks - 100

- 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.

Lab Course -B

Time : 3 Hrs.

Part – B

Max. marks – 100

- i. Learning test by mirror method.
- ii. Illusion test.
- iii. Spotting of Tanks and Aircrafts of Defence forces.
- iii. Viva voce, Sessional Work and Record.

READING LIST :

- | | | | |
|---|------------------------|---|-------------------|
| 1 | iz;"xkRed Ōwx"y | ¼ | Mk- ih-vkj- p@gku |
| 2 | izk;"fxd Ōwx"y | ¼ | MkW- ih-"keŹ |
| 3 | iz;"xkRed LFky ;èn dyk | ¼ | p@- ujsŹnz fllag |