

NATIONAL EDUCATION POLICY-2020
Dr. B.R. AMBEDKAR UNIVERSITY, AGRA
PAPER CODING AND CREDIT DISTRIBUTION
M.A. (MILITARY SCIENCE)

S.No.	Name of Degree	SEMESTER	TITLE OF PAPER	CREDITS	CODE NUMBER
1	Bachelor (Research) of Arts in Military Studies	VII	Strategic Studies	4	A120701T
			Geo- Political and Military Geography	4	A120702T
			International Relations	4	A120703T
			National Security	4	A120704T
			Practical	4	A120705P
			Research Project		
2		VIII	Indian Military History	4	A120801T
			Defence Organization of India	4	A120802T
			Peace and Conflict Studies	4	A120803T
			Research Methodology	4	A120804T
			Practical	4	A120805P
			Research Project	8	A120806R
One Minor Paper to be selected from OTHER FACULTY in VII or VIII Semester				4/5/6	
3	Master of Arts in Military Studies	IX	Defence Economics	4	A120901T
			Science Technology & National Security	4	A120902T
			Evaluation of Strategic Thoughts (Pre-1945)	4	A120903T
			Politics and of Indian Ocean	4	A120904T
			Practical	4	A120905P
			Research Project		
4		X	Disarmament & Arms Control	4	A121001T
			Regional Security in South Asia	4	A121002T
			Security Issues in Asia Pacific	4	A121003T
			Dissertation & Field work	4	A121004R
			Practical/Viva –Voce	4	A121005P
			Research Project	8	A121006R

Students may choose MINOR paper from Faculty of Science/Commerce/Languages/Fine Art and Performing Art/Education/Rural Science.

(Signature)
 (Prof. DIDAR SINGH)
 A.K. PH COLLEGE,
 SHIKOHABAD

(Signature)
 (Dr. AKASH PRATAP)
 A.K. PH COLLEGE
 SHIKOHABAD

NATIONAL EDUCATION POLICY-2020
Dr. B.R. AMBEDKAR UNIVERSITY, AGRA
SYLLABUS FOR CREDIT DISTRIBUTION FOR MILITARY SCIENCE (M.Sc./M.A.)

TERM	NAME OF DEGREE		MAXIMUM MARKS		TOTAL MARKS	CREDITS	TOTAL CREDIT/ SEMESTER	TOTAL CREDITS			
			EXTERNAL	INTERNAL							
4	Master in Faculty (Bachelor Research It Leave in IV Years	VII	C ₁ Strategic Studies	75	25	100	4	20	48		
			C ₂ Geo- Political and Military Geography	75	25	100	4				
			C ₃ International Relations	75	25	100	4				
			C ₄ National Security	75	25	100	4				
			C ₅ (Practical)	100		100	4				
			RESEARCH PROJECT								
			C ₆ Indian Military History	75	25	100	4				
			C ₇ Defence Organization of India	75	25	100	4				
			C ₈ Peace and Conflict Studies	75	25	100	4				
			C ₉ Research Methodology	75	25	100	4				
		C ₁₀ (Practical)			100	4					
		Research Project			100		100	8			
		VIII	C ₁₁ Defence Economics	75	25	100	4	28			
			C ₁₂ Science Technology & National Security	75	25	100	4				
			C ₁₃ Evaluation of Strategic Thoughts (Pre-1945)	75	25	100	4				
			C ₁₄ Politics and of Indian Ocean	75	25	100	4				
			C ₁₅ (Practical)	100		100	4				
			Research Project								
			C ₁₆ Disarmament & Arms Control	75	25	100	4				
			C ₁₇ Regional Security in South Asia	75	25	100	4				
C ₁₈ Security Issues in Asia Pacific	75		25	100	4						
C ₁₉ Dissertation & Field work	75		25	100	4						
C ₂₀ (Practical)/Viva –Voce	100		100	4							
Research Project			100		100	8					
5	Masters in Faculty	IX	C ₁₆ Disarmament & Arms Control	75	25	100	4	28	48		
			C ₁₇ Regional Security in South Asia	75	25	100	4				
			C ₁₈ Security Issues in Asia Pacific	75	25	100	4				
			C ₁₉ Dissertation & Field work	75	25	100	4				
			C ₂₀ (Practical)/Viva –Voce	100		100	4				
			Research Project			100				100	8
			C ₁₁ Defence Economics	75	25	100	4				
			C ₁₂ Science Technology & National Security	75	25	100	4				
			C ₁₃ Evaluation of Strategic Thoughts (Pre-1945)	75	25	100	4				
			C ₁₄ Politics and of Indian Ocean	75	25	100	4				
C ₁₅ (Practical)	100		100	4							
Research Project											
C ₁₆ Disarmament & Arms Control	75	25	100	4							
C ₁₇ Regional Security in South Asia	75	25	100	4							
C ₁₈ Security Issues in Asia Pacific	75	25	100	4							
C ₁₉ Dissertation & Field work	75	25	100	4							
C ₂₀ (Practical)/Viva –Voce	100		100	4							
Research Project			100		100	8					

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**Course Structure for M.A./M.Sc.(MILITARY SCIENCE) under
Semester System to come into force from Academic
Session 2022-23**

**M.A./M.Sc.(MILITARY SCIENCE)
SEMESTER SYSTEM**

Dr. S. K. Singh

A. Prasad

M.A./M.Sc.(MILITARY SCIENCE)

OBJECTIVES

The structure of the Post-Graduate course has been organized so as to ensure that there is minimum Core component which students of Military Science shall have to study the basic requirement of the subject. This core component revolves around the following major subject areas. -

(1) International Relations :

This provides the broad field within which Nations of States and non-state factors interact. An attempt is made to provide for both of theoretical understanding of how and why Nations behave as they do and also a historical survey of the Major Trends in World Affairs.

(2) Geo-Politics :

Military Geography: Understanding of behavior of Nation Studies without the geographical context is usually a partial understanding. An attempt is made to provide the students with a perspective about Geo-political thinking and also the application and the interaction of Geography with problems of strategy.

(3) Strategic Studies :

This is one of the core courses that provide the students an understanding of various dimensions of warfare in the conventional and nuclear context.

(4) Peace and Conflict Studies :

The course of Peace and Conflict Studies introduces the students to the various nature and forms of conflict, approaches to conflict management and conflict resolution and

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also an understanding of some of the new approaches like comprehensive security and human security.

(5) There are 4 different courses which are India Centric. This includes an understanding of Indian Military History, The Defense Organization of India, India's National Security, the Economics of Defense. These India Centric courses seek to relate the broad dimensions study at the International level to problems that are India specific.

(6) Students of Social Science are also introduced to change in Science & Technology that have taken place since Industrial Revolution and the Impact that these changes have on approaches to National Security. This course also focuses on some of the emerging technologies like Electronics, Computers, Material Science, Bio-technology, etc. The purpose is to introduce the students to these different dimensions of Technology.

(7) The Optional courses that are offered in the Department are Specialized Courses. The courses that are offered in the University Department in the campus provide for specific areas of specialization that are in line with the specialization of the faculty and also for providing for an open course that may be designed keeping in mind some of the recent developments that are happening around us.

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M.A./M.Sc.(MILITARY SCIENCE)

METHOD OF TEACHING

(1) There would be an attempt to introduce the Case Study Method while teaching the courses at the Post-Graduate level. Students would be asked to discuss specific cases that relate to the course which is being taught. Case studies would be used for the internal evaluation component of the course.

(2) The students at the Post-Graduate level would also be taken for a Field Trip so as to introduce them to Defense Establishment or expose them to an area of Military History of India.

NOTE:

1. Every Semester students will be adjudged in Theory as well as Practical
2. In Fourth semester, every student has to opt either Dissertation or Field Work to any strategic place, Military establishment (A Field Survey report is essential)
3. Books & Journal shall be recommended by Faculty Teachers.
4. Evaluation of each paper shall be based on instruction as per university rules.

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M.A./M.Sc.(MILITARY SCIENCE)

Scheme of Examination for M.A./M.Sc. (Military Science)

FIRST SEMESTER

MAXIMUM MARKS

Paper No.	Nomenclature of the Paper	Max. Marks	Paper Code
PAPER 101	Strategic Studies	100	A120701T
PAPER 102	Geo-Politics and Military Geography	100	A120702T
PAPER 103	International Relations	100	A120703T
PAPER 104	National Security	100	A120704T
PAPER 105	PRACTICAL	100	A120705P

RESEARCH PROJECT

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M.A./M.Sc.(MILITARY SCIENCE)

Scheme of Examination for M.A./M.Sc. (Military Science)

SECOND SEMESTER

MAXIMUM MARKS

Paper No.	Nomenclature of the Paper	Max. Marks	Paper Code
PAPER 201	Indian Military History	100	A120801T
PAPER 202	Defense organization of India	100	A120802T
PAPER 203	Peace and Conflict Studies	100	A120803T
PAPER 204	Research Methodology	100	A120804T
PAPER 205	PRACTICAL	100	A120805P
	RESEARCH PROJECT	100	A120806R

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M.A./M.Sc.(MILITARY SCIENCE)

Scheme of Examination for M.A./M.Sc.(Military Science)

THIRD SEMESTER

MAXIMUM MARKS

Paper No.	Nomenclature of the Paper	Max. Marks	Paper Code
PAPER 301	Defense Economics	100	A120901T
PAPER 302	Science, Technology & National Security	100	A120902T
PAPER 303	Evolution of Strategic Thought (Pre 1945)	100	A120903T
PAPER 304	Politics and Security of the Indian Ocean	100	A120904T
PAPER 205	PRACTICAL	100	A120905P .
	RESEARCH PROJECT		

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M.A. (MILITARY SCIENCE)

Scheme of Examination for M.A./M.Sc. (Military Science)

FOURTH SEMESTER

MAXIMUM MARKS

Paper No.	Nomenclature of the Paper	Max. Marks	Paper Code
PAPER 401	Disarmament & Arms Control	100	A121001T
PAPER 402	Regional Security in South Asia	100	A121002T
PAPER 403	Security Issues in Asia Pacific	100	A121003T
PAPER 404	Dissertation & Field Work	100	A121004R
PAPER 405	Practical / Viva – Voce	100	A121005P
	RESEARCH PROJECT	100	A121006R

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M.A. /M.Sc. (MILITARY SCIENCE)

DETAILED SYLLABUS

FIRST SEMESTER

PAPER – 101
Strategic Studies

Course Contents:

UNIT 1

1. Strategic Studies: Assumptions and Approaches
2. Theories and Causes of War

UNIT 2

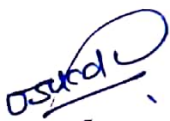
1. Deterrence: Concept, Nuclear Deterrence and Current Relevance.
2. Contemporary Warfare:
 - (a) Conventional Warfare in Nuclear Age,
 - (b) Limited War,
 - (c) Guerilla Warfare and Low Intensity Operations,
 - (d) Insurgency and Counter Insurgency,
 - (e) Terrorism.

UNIT 3

Evolution of Global Nuclear Doctrines: Early Debates on the relevance of Nuclear Weapons.

UNIT 4

1. US Nuclear Strategy: Doctrines from 1945 to the present.





UNIT 5

1. Indian Nuclear Strategy
2. Pakistan's Nuclear Strategy

Readings:

- Paret Peter (ed) Makers of Modern Strategy : From Machiavelli to Nuclear Age (Oxford, 1986)
- Baylis John, Booth Ken, Garnett John, and Williams Phil, Contemporary Strategy: Theories and Concepts Vol. I and II (London: Groom Helm, 1987)
- Bobbit Philip, and others (ed) US Nuclear Strategy: A Reader (New York: New York University Press, 1989)
- Garnett John (ed) Theories of Peace and Security: A Reader in Contemporary Strategy (Bristol: McMillan, 1970)
- Bajpai Kanti and Mattoo Amitabh (ed) Securing India: Strategic Thought and Practice (New Delhi: Manohar, 1996)
- Paranjpe Shrikant, Samarikshastra (in Marathi) (Pune: Continental, 1994)
- Paret Peter (ed) Makers of Modern Strategy : From Machiavelli to Nuclear Age (Oxford, 1986)
- Jasjit Singh and Manpreet Sethi, Nuclear Deterrence and Diplomacy (New Delhi: Knowledge World, 2004)

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DETAILED SYLLABUS

FIRST SEMESTER

PAPER – 102

Geo-Politics and Military Geography

Course Contents:

UNIT 1

1. Scope and Importance of geopolitics
2. Evolution of Geopolitical Thought since the 19th Century:
 - (a) Sea Power Theory
 - (b) Heart Land Theory
 - (c) Rim Land Theory

UNIT 2

1. Geopolitics during the Cold War Period
2. Geopolitics in the post cold war era.

UNIT 3

1. Role of Geography in Military applications
2. Importance and Scope of Logistics:
 - (a) Resources,
 - (b) Industries,
 - (c) Supply Chain of Transportation and Communication

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UNIT 4

1. Role of Geography in Land Warfare, Sea Warfare, Air Warfare

UNIT 5

1. Military Geography of India and their Problems:

- (a) India's boundaries, terrain in border areas, weather and communication,
- (b) Population in border areas and its implications to border security

Readings:

- Dikshit R. D , Political Geography: The Discipline and its Dimensions (New Delhi: Tata Macgraw Hill, 1994)
- Harm j. Di Blij, Systematic Political Geography (New York: John Wiley and Sons, 1973)
- Taylor P. J, Political Geography: World Economy, Nation State and Locality (London: Longman, 1895)
- Peltier Louis and G. Etzel Perarcy, Military Geography (New Delhi: East West 1981)
- Sukhwal b. L, Modern Political Geography, (New Delhi: Sage, 1985)
- Mahan A T., Sea Power (London: Methuem and Co, 1975)
- Presscot J. R. V, political Geography (London: Methuem and Co, 1972)

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M.A. /M.Sc. (MILITARY SCIENCE)

DETAILED SYLLABUS

FIRST SEMESTER

**PAPER – 103
International Relations**

Course Contents:

UNIT 1

1. Introduction to the understanding International Relations
2. Theories and Approaches:
 - (a) Realism and Idealism,
 - (b) Behavioral approach, Systems Approach, Decision Making Theories, Game Theory

UNIT 2

1. Cold war: Nature and evolution since 1945
2. Détente: Nature and US and Soviet perceptions

UNIT 3

1. New Cold War
2. Developments in the Third World: Regionalism, and Nonalignment

UNIT 4

Evolution of International Economic Issues: Breton Woods System; NIEO; North-South; GATT and WTO.

UNIT 5

New World Order and Globalisation.

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A. Prasad

Readings:

- Calvocoressi Peter World Politics since 1945 (London: Longman, 2000).
- Baylis John and Smith Steve, The Globalisation of World Politics: An Introduction to World Politics (Oxford: Oxford University Press, 1997)
- Goldstein Joshua, International Relations (New York: Harper Collins College Publications 1994)
- Palmer N.D. and Perkins H.C. International Relations (Calcutta: Scientific Book Agency)
- Mahendra Kumar, Theoretical Aspects of International Relations (Agra: Shivalal Agarwala & Co, 1984)
- Said A.A. Theory of International Relations
- Baylis John and Smith Steve, The Globalisation of World Politics: An Introduction to World Politics (Oxford: Oxford University Press, 1997)
- Goldstein Joshua, International Relations (New York: Harper Collins College Publications 1994)
- Zeigler David, War, Peace and International Politics (Boston: Little Brown & Co., 1981)
- Jackson Robert and George Sorensen Introduction to International Relations (Oxford: Oxford University Press, 1999)
- Kegley Charles W. Jr., and Whittkopf Eugene R, World Politics : Trends and Transformation (Hampshire: Mac Millan 1989)
- Williams Mare (ed) International Relations in the Twentieth Century: A Reader (London: Macmillan, 1989)





M.A. /M.Sc. (MILITARY SCIENCE)

DETAILED SYLLABUS

FIRST SEMESTER

**PAPER – 104
National Security**

Course Contents:

UNIT 1

1. Concepts: Nation; Nationalism; Nation State; National Power and National Security.
2. Key Concepts of Security:
 - (a) Balance of Power,
 - (b) Collective Security,
 - (c) Neutrality,
 - (d) Collective Defense,

UNIT 2

Approaches to Peace:

- (a) Diplomacy,
- (b) United Nations,
- (d) Arms Control and Disarmament.
- (e) Track II diplomacy

UNIT 3

1. Problems of India's Security: The Conceptual Framework- Global, Regional and Local environment and its impact on Security thinking. – National Interest and protection of core values

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2. Problems of India's Internal Security and the Role of the State (Political, economic, socio-cultural and other dimensions, Terrorism, insurgency, etc.)

UNIT 4

1. India's Foreign Policy
2. India's Nuclear Policy
3. India and the emergent world order (since 1991)
4. SAARC

UNIT 5

1. India and Pakistan (focus on issues of dispute and efforts at normalisation)
8. India and China (focus on issues of dispute and efforts at normalisation)

Readings:

- Mishra K.P. (ed) Foreign Policy of India: A Book of Readings (New Delhi: Thompson (1977)
- Prasad Bimal (ed) India's Foreign Policy: Studies in Continuity and Change (New Delhi: Vikas, 1979)
- Haksar P.N. India's Foreign Policy and its Problems ((Delhi: Atlantic, 1993)
- Paranjpe Shrikant Parliament and the Making of Indian Foreign Policy: A Study of Nuclear Policy (New Delhi Radiant, 1997)
- Thakkar Usha and Kulkarni Mahesh India in World Affairs: Towards the 21st Century (Mumbai: Himalaya, 1999)
- T.D Joseph, Winning India's Next War, (New Delhi: Knowledge Publishers, 2008)
- Annual Reports of the Ministry of Defence, Ministry of Home and Ministry of External Affairs.
- Vijay Khare, Dr. B.R Ambedkar and India's national Security)New Delhi: Kilaso, 2005)

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M.A. / M. Sc. , Semester VII, Military Science (Practical)

Max. Marks: 100

Unit	Topic	No. of Lecture
I	<ol style="list-style-type: none">1. Maps: Definitions and Features; classification and its utility for military; enlargement and reduction of maps.2. Conventional signs: military and geographical3. Grid System: Four Figure and Six Figure Map references.	8
II	Scale: Definitions, methods of representing scale: Inter Conversion of scale into representative fraction, construction of simple scale line and the comparative scale lines.	8
III	<ol style="list-style-type: none">1. Liquid Prismatic Compass (LPS): Features and functions of its various parts: attempt following exercise on the LPC: to determine magnetic north; setting of the map.2. Bearing Definition, Inter Conversion of bearing in detail.	8
IV	<ol style="list-style-type: none">1 Lectures on a Current Defence Topics.2 Viva- Voca Sessional record.	6

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M.A. /M.Sc. (MILITARY SCIENCE)

DETAILED SYLLABUS

SECOND SEMESTER

PAPER – 201

Indian Military History

Course Contents:

UNIT 1

Military History of Ancient India: Wars / Battles, Institution, Principles, Philosophy, Techniques, weapons, doctrines, Strategies & Tactics, reasons for victory or defeat, lessons learnt.

UNIT 2

Military History of the Medieval India:

- a) The Turkish Invasion of India
- b) The Sultanate of Delhi
- c) The Rajputs
- d) The Mughals
- e) The Marathas
- f) The Sikhs

UNIT 3

The British Period:

- a) The Command Structure of the British (Company's) Army
- b) The British Military Operations in the 19th century: Anglo Mysore Wars; Anglo Maratha wars; Anglo Sikh wars and Revolt of 1857.

UNIT 4

British Indian Army

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- a) Rise of Presidency Armies
- b) Nationalization of Indian Armed Forces.

UNIT 5

Indian National Army.

- a) Indian Army
- b) Indian Navy
- c) Indian Air Force

Readings

- Banks, Arthur, A World Atlas of Military History, Vol. 1 (1973)
- Effenberger, David, A Dictionary of Battles (1966)
- Sloan, John F., The International Military Encyclopedia Vols. (1983-)
- 4. Windrow, Martin and Francis K. Mason, A Concise Dictionary of Military Biography (1975)
- Vishwa Bandhu, Ideologies of War and Peace in Ancient India (Hoshiarpur: 1975).
- Gurcharan Singh Sandhu, A Military History of Ancient India, Delhi, 2000
- P. C. Chakravarty, The Art of War in Ancient India (Delhi: 1972).
- Jagdish Narayan Sarkar, The Art of War in Medieval India (Delhi: 1984)
- Sir Jadunath Sarkar, Some Aspects of Military Thinking and Practice in Medieval India (Calcutta: 1969)
- Gurcharan Singh Sandhu, A Military History of Medieval India, Delhi, 2003
- Pradeep Barua, "Military Developments in India, 1750- 1850," Journal of Military History, vol. 58, 1994
- 12 G. J. Brynatt, "Assymetric Warfare: The British Experience in Eighteenth Century India," Journal of the Military History

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M.A. /M.Sc. (MILITARY SCIENCE)

DETAILED SYLLABUS

SECOND SEMESTER

PAPER – 202

Defence Organization of India

Course Contents:

UNIT 1

Higher Defence Organisation in India

- a. Cabinet Committee on Security
- b. National Security Council
- c. National Security Advisory Board

UNIT 2

Ministry of Defence

- a) Integrated Defence Staff
- b) Defence Intelligence Agency
- c) Defence Acquisition Council
- d) Andaman and Nicobar Command and Strategic Command

UNIT 3

Paramilitary Forces (Ministry of Home)

- a) Assam Rifles.
- b) Border Security Force.
- c) Central Industrial Security Force.
- d) Central Reserve Police Force.
- e) Indo-Tibetan Border Police.
- f) Rashtriya Rifles (National Rifles).

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UNIT 4

Intelligence Agencies

- a) Research & Analysis Wing (RAW)
- b) Central Investigation Beuro (CBI)
- c) Intelligence Beuro (IB)

UNIT 5

Kargil Review Committee Recommendations

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M.A. /M.Sc. (MILITARY SCIENCE)

SECOND SEMESTER

**PAPER – 203
Peace and Conflict Studies**

Course Contents:

UNIT 1

1. Peace and Conflict Studies: Nature and Scope
2. Conceptual analysis of Conflict and Peace

UNIT 2

1. Nature and forms of Conflict
2. Conflict Management and Conflict Resolution

UNIT 3

1. UN System: Pacific Settlement of Disputes
2. UN System: Peace Keeping, Peace making and Adjudication

UNIT 4

1. Disarmament and Arms Control
2. Confidence Building Measures

UNIT 5

1. Gandhian Approach and its relevance today
2. Comprehensive Security and Human Security

Readings:

- Anatol Rapoport, Conflict in Manmade Environment (London: 1974)
- J.W.Burton, Conflict and Communication (London, 1969)

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- C. Smith, Conflict Resolution (London, 1969)
- David Mitrany A Working Peace System (Chicago, 1966)
- Michal Hass International Conflict (New York, 1965)
- Chomsky, Noam, World Orders: Old & New, Oxford University Press, 1999
- Galtung, John, Peace by Peaceful Means, Sage, 1996

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M.A. /M.Sc. (MILITARY SCIENCE)

DETAILED SYLLABUS

SECOND SEMESTER

PAPER – 204

Research Methodology

Course Contents:

UNIT 1

Research – Applications, types & paradigms.

Basic elements of research – problem, selection & formulation and review of literature.

UNIT 2

Hypothesis – definition, functions, characteristics, types & testing procedures.

Research design – definitions, functions and types.

UNIT 3

Data collection and proceedings.

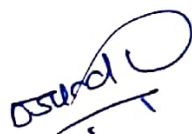
Sampling – concept, principles and types.

UNIT 4

Research project writing

UNIT 5

Evaluation – meaning, types and ethics in evaluation.





M.A. / M. Sc. Semester VIII, Military Science (Practical)

Max. Marks: 100

Unit	Topic	No. of Lecture
I	Elementary tactics up to inf. Battalion levels:- a) Organization of an infantry battalion & company. b) Appreciation of the situation. c) Verbal orders attack and defence. d) Advance to contact attack and defence. e) Patrols and their uses. f) Military message writing.	12
II	1. Thermal imaging and sensors or Platoon Formation 2. Radars and its significance.	6
III	Introduction to Electronic Warfare in terms of lasers, ECM, ECCM OR COMPUTER- I.T. Based Information Warfare.	6
IV	1. Paper Clipping on allotted and current topic. 2. VIVA- VOCA Sessional Record	6

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M.A. /M.Sc. (MILITARY SCIENCE)

DETAILED SYLLABUS

THIRD SEMESTER

**PAPER – 301
Defence Economics**

Course Contents:

UNIT 1

1. Economic Theories of Defence
2. Determinants of Defence/Security Expenditure

UNIT 2

1. Framework for analysis of India's Security Expenditures
2. India's Defence Budget

UNIT 3

1. Defence and Development
2. Defence production in India

UNIT 4

1. Rationale of Arms production
2. Economic Instruments of Policy

UNIT 5

An analysis of India's security expenditures since 1947.

Readings

- Ron Mathews, Defence Production in India (New Delhi: ABC, 1989)

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- Jasjit Singh, India's Defence Spending: Assessing Future Needs (New Delhi: Knowledge Publishers, 2001)
- Y.Lakshmi, Trends in India's Defence Expenditure (New Delhi: ABC, 1988)
- V.P.Malik and Vinod Anand, Defence Planning: Problems and Prospects (New Delhi: Manas, 2006)
- Annual Reports of the Ministry of Defence, Government of India.

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A. R. Anand

M.A. /M.Sc. (MILITARY SCIENCE)

DETAILED SYLLABUS

THIRD SEMESTER

PAPER – 302

Science, Technology and National Security

Course Contents:

UNIT 1

Introduction to Military Technology - its relevance to National Security.

UNIT 2

Introduction to emerging technologies.

- (a) Computers
- (b) Artificial Intelligence.
- (c) Information Technology.
- (d) Transportation and vehicle technology.

UNIT 3

Application of technologies to:-

- (a) Armament and Weapon systems.
- (b) Missile Technology.
- (c) Radar technology.
- (d) Information Warfare.
- (e) Logistics (transport, supplies, inventory, medical, repair, clothing and equipment).

UNIT 4

Impact of developing technologies on Military Doctrine and conduct of warfare.

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UNIT 5

Non military use of modern technologies and their impact on National Security (Power and energy, Trade, Economy, Banking, Media etc).

Readings

- Nanda B.S. Science and Technology in India's Transformation (New Delhi: Concept, 1986)
- Kenneth Maksey Technology in War (London, 1961)
- M.R. Bhagwan Technological Advance in the Third World: Strategies and Prospects (Bombay: Popular, 1990)
- Science and Technology and their Implications for Peace and Security (New York, UN, Dept of Disarmament, 1990)

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M.A. /M.Sc. (MILITARY SCIENCE)

DETAILED SYLLABUS

THIRD SEMESTER

PAPER – 303

EVOLUTION OF STRATEGIC THOUGHT (PRE 1945)

Course Contents:

UNIT 1

1. Machiavelli: The Renaissance of the Art of War.
2. Napoleon: element of Napoleonic War, Concept of Strategy and Tactics.

UNIT 2

1. Clausewitz: On war and its relationship with Politics, Strategy and Tactics.
2. Henri Jomini: Concept of Mass Army, Strategy, Tactics and Line of Operations.

UNIT 3

1. Moltke & Schlieffen: The Prussian – German School of strategic thought.
2. Naval Historian: Alfred Mahan

UNIT 4

1. First World War: Causes, policies of Allied and Axis Powers, causes of stalemate, use of Tank.
2. Fuller, Liddell Hart: Concept of Armoured and Mechanized Warfare.

UNIT 5

1. Second World War: Strategic doctrines and tactics.
2. Douhet : Theories of Air Power and strategic bombing during World War Second.

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M.A. /M.Sc. (MILITARY SCIENCE)

DETAILED SYLLABUS

THIRD SEMESTER

PAPER – 304

POLITICS AND SECURITY OF THE INDIAN OCEAN

Course Contents:

UNIT 1

1. Indian Ocean region as a concept and reality.
2. Major Sea routes in the Indian Ocean region.
3. Political, Strategic, Economic and Military importance of Indian Ocean as follows:-
 - (i). Economic & Strategic interdependence of the region.
 - (ii). Super power vs. Middle powers and Militarization of the region.
 - (iii). Strategic importance on the region: Military and Economically.

UNIT 2

1. Sub-regional Perspectives:-
 - (i). Persian Gulf
 - (ii). Red Sea and Horn of Africa.
 - (iii). Eastern and Southern Africa.
 - (iv). South Africa.
 - (v). Australia and Eastern approaches.
2. Interest of External Powers : USA, RUSSIA, CHINA, JAPAN, Western EUROPE.
3. Future trends and prospects of security in the region.

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UNIT 3

1. Indian Ocean as a Zone of Peace.
2. Maritime strategy of India.

UNIT 4

1. Prospectus of Cooperation in the Indian Ocean Region.
2. Impact of the Globalization on the region.

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M.A. / M. Sc. Semester IX, Military Science (Practical)

Max. Marks: 100

Unit	Topic	No. of Lecture
I	Strategic maps of India: India and his neighbours; Indian states and union territories with capitals; strategic raw materials and defence industries and atomic reactors.	8
II	World : world map in 1945, countries of NATO , India states countries, Countries of South Asia, South East Asia and West Asia. Nuclear Nations, Indian Ocean Littoral States and World Sea Routes.	8
III	Presentations on Current Defence Topic.	8
IV	1. Tour of strategically importance place / area study report. 2. VIVA- VOCA Sessional Record.	6

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M.A. /M.Sc. (MILITARY SCIENCE)

DETAILED SYLLABUS

FOURTH SEMESTER

**PAPER – 401
DISARMAMENT & ARMS CONTROL**

Course Contents:

Unit 1

1. Basic Concepts and Theory:-

- i) Concept of Disarmament and Arms control.
- ii) Approaches of Disarmaments and Arms control.
- iii) Elements of Arms control & Disarmaments mechanisms: Agreements
Verification, Inspection, Control.

2. Weapons of Mass destruction – Nuclear Weapons, Chemicals and Biological
Weapons.

Unit 2

1. Prospectus of Abolition of Weapons of Mass destruction.

2. Concept of PTBI, Non-proliferation, Non-proliferation treaty, CTBT and others
Treaties.

Unit 3

1. New Challenges and Responses – Missile Defence, Cooperative Threat Reduction
and G-7 Global Partnership.

2. National Policies in Arms Control, Disarmament and Non-proliferation – United
States, Russia, China, United Kingdom, France, India and Pakistan.

3. Disarmament and Arms Control and Economic Development.

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Unit 4

1. Linkages between Civil Nuclear Programme and Weapon Proliferation.
2. Terrorism and Nuclear proliferation.
3. Concept of STAR WAR and NMD.

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M.A. /M.Sc. (MILITARY SCIENCE)

DETAILED SYLLABUS

FOURTH SEMESTER

PAPER – 402

REGIONAL SECURITY IN SOUTH ASIA

Course Contents:

Unit 1

1. India & South Asian States.
2. Pakistan & South Asian States.

Unit 2

1. China & South Asian States
2. South Asia & Indian Ocean.

Unit 3

1. Defence & Foreign policy problems of Afghanistan.
2. South Asia & other developing States

Unit 4

1. South Asia & European States.
2. External influences in South Asia.

Unit 5

1. Interaction among South Asian States.
2. Foreign & Defence policy challenges of South Asia.

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M.A. /M.Sc. (MILITARY SCIENCE)

DETAILED SYLLABUS

FOURTH SEMESTER

PAPER – 403

SECURITY ISSUES IN ASIA PACIFIC

Course Contents:

Unit 1

1. Geo-Strategic Relevance of Asia Pacific countries.
2. North Korea and Other Asia Pacific countries.

Unit 2

1. South Korea & other Asia Pacific countries.
2. Japan and Other Asia Pacific countries.

Unit 3

1. China and Other Asia Pacific countries.
2. Russia and Asia Pacific countries.

Unit 4

1. South East Asia and other Asia Pacific countries.
2. India and Asia Pacific countries.

Unit 5

1. Asia Pacific countries and Western world.
2. United States of America and Asia Pacific countries.

Dr. Anand

Anand

M.A. /M.Sc. (MILITARY SCIENCE)

DETAILED SYLLABUS

FOURTH SEMESTER

PAPER – 404

DISSERTATION OR FIELD WORK

Students are advised to select their topic in consultation with their guide. The dissertation is a longish research essay (of about 30 to 40 pages /approx. 10,000 words).

Format of Submission:

1. Students are required to submit TWO Copies of the dissertation, duly typed and spiral bound.
2. Use A 4 size paper preferably use Times New Roman script with 12 font size and one and a half spacing for lines.
3. The sequence of pages (format) should be as follows:
 - Cover page indicating only the title
 - Title page giving the name of the author, title of the dissertation, name of the guide, place of research and month and year of submission.
 - Preface including acknowledgements
 - Table of contents that lists chapter titles and appendix if any
 - Various chapters
 - Appendices if any
 - Bibliography

Dr. B. R. Ambedkar

Approved

M.A. /M.Sc. (MILITARY SCIENCE)

DETAILED SYLLABUS

FOURTH SEMESTER

PAPER – 405

PRACTICAL OR VIVA-VOCE

The students will be assigned with the responsibility to prepare / conduct computer – based exercises or computer experiments on selected topics of contemporary relevance in the field of International Security for the following:-

- (a). To prepare Computer Graphics
- (b). Lecture on the Selected Topics
- (c). Power-point presentation on the given Topics
- (d). Viva – Voce

