

Department of Defence and Strategic Studies

University of Allahabad
ALLAHABAD



Lecture List

**B.A./B.Sc.
(Third Year)**

LECTURE LIST

INSTRUCTIONS

- The syllabus is divided into five units.
- The examinees will have to attempt Five Questions in all. All questions will carry equal marks. Two questions will be asked from each unit. The examinees will have to attempt one question from each unit.
- The questions will be of three types requiring short answers, medium answers and long/essay type answers. These instructions will be applicable for all the papers for theory examination.

B.A./B.Sc. III

Ist PAPER

MODERN STRATEGIC THOUGHT : MACHIAVELLI TO NUCLEAR AGE

UNIT-I

1. Machiavelli The Renaissance of the Art of War.
2. Clausewitz On War
War its relationship with politics Strategy
Tactics.
3. Jomini Concept of Mass Army
Strategy
Tactics & Logistics.

UNIT-2

4. Engles & Marx Military concepts of the Social
Revolutionaries.
5. Moltke & Schlieffen The Prussian-German School of
Strategic Thought.
6. Foch Principles of War, The French School
7. Allied Strategy in W.W.II
8. Ludendorff German Concept of Total War.
9. Lenin Soviet Concept of War.
Trotsky
Stalin
V.D. Sokolovski The Making of Soviet Strategy.

UNIT-3

10. Liddell Hart The doctrine of limited liability and
Mobile Defence.
11. J.F.C. Fuller Concept of Mobile Warfare, Advent of
Tanks and decline of Trench warfare.
12. A.T. Mahan Theory of Sea Power.

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Continental doctrine of Sea Power.
Naval Strategy.

13. Halford Mackinder Heartland Theory
14. Douhet, Mitchell Theories of Air Warfare and Sevversky
15. Hitler The Nazi concept of War.

UNIT-4

16. Mao Tse Tung Chinese Concept of War.
Strategy & Tactics of Guerilla Warfare.
17. Che Guevara & Rejis Debrey Concept of Revolution and principles
of Guerrilla Warfare.
18. Development of the Concept of Urban Guerrilla
Warfare.

UNIT-5

19. Concept of Nuclear Deterrence and Defence with
special reference to Recent Thinking.
20. Conventional warfare in Nuclear Age.
21. Development of Concept of Disarmament & Arms
Control.
22. Peace Making, Peace Building, Peace Keeping theory.

BOOKS RECOMMENDED

1. Adie, W.A.C. Chinese Strategic Thinking under Mao-
Tse-Tung.
2. Alperovitz, G. Atomic Diplomacy : Hiroshima and
Potsdam.
3. Anand, M.K. Terrorism and Security.
4. Appodorai, A. The Use of force in International Relation.
5. Aspray, R.P. War in the Shadow : The Guerrilla in
History.
6. Beaufre, A. An Introduction to Strategy with
Particular reference to Problem of Defence,
Politics, Economics and diplomacy in
Nuclear Age.

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7. Beaufre, A. Strategy of Action.
8. Brien, Bond Liddel Hart : A Study of his Military Thought.
9. Brodie, B. A Guide to Naval Strategy.
- Brodie, B. Strategy in Missile Age.
10. Burton, A. Revolutionary Violence.
11. Churchill, W. Second World War.
12. Clausewitz, V. On War
13. Cohan, A.A. The Communism of Mao Tse Tung
14. Dixon, C.A. and Communist Guerrilla Warfare
 Heilburn, D.
15. Dougherty, J. How to think About Arms Control and Disarmament.
16. Earle, E.M. Makers of Modern Strategy.
17. Ellis, J. Guerrilla Warfare.
18. Emme, E.M. The Impact of Air power
19. Falls, E. Art of War
20. Fay, S.B. The Origin of the World War I
21. Fisher, H.A.L. Napoleon
22. Fuller, J.F.C. Government and History
23. Fuller J.F.C. Armoured Warfare
24. Fuller, J.F.C. The Conduct of War
25. Galula, David Counter Insurgency Warfare : Theory & Practice.
26. Gensen,E.A.V. Arms Control and Disarmament.
27. Gibbs, N.H. Grand Strategy.
28. Gilbert, G. The Revolution of Strategy.
29. Goldblat, T. Agreement for Arms Control : A Critical Survey.
30. Goltz V. The Conduct of War.
31. Gompert, D.C. Nuclear Weapons and World Politics.
32. Rall R.A. Studies in Napoleonic Strategy.

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33. Halperin, M.H. Contemporary Military Strategy.
 34. Harkabi, Y. Nuclear War and Nuclear Peace.
 35. Hart B.H.L. Deterrence or Defence.
 36. Hart, B.H.L. The Revolution in Warfare.
 37. Hart, B.H.L. Strategy : The indirect approach.
 38. Herington, J. Air War Against Germany and Italy-1939-40.
 39. Hart, B.H.L. Air Power Over Europe 1944-45.
 40. Hittle, J.D. Jomini and His Summary of the Art of War.
 41. Howard, M. Grand Strategy.
 42. Howard, M. Theory and Practice of War.
 43. Howard, M. War in European History.
 44. Howard, M. Clausewitz.
 45. Hurd, A. The Command of the Sea.
 46. Kahn, J.M. Security in the Nuclear Age.
 47. Mao Tse Tung & Guerrilla Warfare
 Che Guevera
 48. Martin, L.W. Sea in Modern Strategy.
 49. Tedder, L. Air Power in War.
- Other books as recommended by the teacher.

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B.A./B.Sc. III
IIInd PAPER

NATIONAL SECURITY

UNIT-I

1. Conceptual framework of National Security in the contemporary strategic thinking.
2. Evaluation of National security thinking and problematics.
3. Theories of National Power:
 - a. Definitive framework of National Power.
 - b. The imprecision of power as a concept.
 - c. Power profile of Nation-states.
 - d. Non-power influence.
4. Elements of National Power
 - (i) *Tangible Elements* :
Geography, Population, Extent of territory, National Resources, Industrial Capacity, Agricultural Capacity, Financial capability, Scientific and technological capability, Military capability.
 - (ii) *Intangible Elements* :
Leadership, Bureaucratic Organisational Efficiency, Type of Government, Societal and Ethnic Cohesiveness, National Character and Reputation, National Morale, Foreign Support, and Dependency, Accidents.

UNIT-2

5. Concept and Models of International Security :
 - (i) Balance of Power.
 - (ii) Collective Security.
 - (iii) Collective Defence.
 - (iv) Non-alignment.Conceptual framework of International Security during the cold war and post cold war periods : viable trends.

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6. Concept and theories of conventional and nuclear deterrence.
7. (i) Arms proliferation as a constraint to National, Regional and International Security.
(ii) Prospects for arms control.
8. International Terrorism : Concept and dimensions.
9. Insurgency and counter-insurgency : Concept and dimensions
10. Co-relation between foreign, defence and domestic policies

UNIT-3

11. Historical legacy, Geo-political and Geo-strategical considerations of India's security.
12. National security problematics and India's quest for security :
 - (a) India in the world strategic arena : Contemporary trends.
 - (b) (i) India's quest for security vis-a-vis Pakistan (till date) :
(ii) Pakistan's nuclear and missile programmes and their impact on India's defence, India's options.
 - (c) India-China boundary dispute : Positions and Polemics : Effort for the settlement of the boundary disputes : Framework for co-operative security between India and China.
 - (d) India's mutuality of strategic and other interests with Bangladesh, Nepal, Bhutan, Myanmar, Srilanka, Maldives and Afghanistan.

UNIT-4

13. Science and Technology in India's Security :
 - (a) India's Scientific and Technological base for National Defence.
 - (b) Need for India's Integrated Science Policy.
 - (c) India's Defence Industrialisation and achievements.
 - (d) India's Research and Development (R & D).

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14. India's Nuclear Policy and options :
 - (a) India's need for Nuclear power.
 - (b) India's Nuclear Breakthrough world.
 - (c) India's Nuclear options in a nuclearised world.

UNIT-5

15. Indian Ocean and India's security considerations :
 - (a) Strategic milieu in and around Indian Ocean.
 - (b) India's security problems in relation to the Indian Ocean region.
 - (c) India's maritime security and its need for Naval power projections.
16. India's overall security perspectives and defence preparedness.
17. Internal security of India :
 - (a) Harmful internal threats and challenges.
 - (b) Low intensity conflicts (LIC) in India with special reference to J & K
 - (c) Security problems in the north-eastern region of India.
 - (d) Identification of the problems of internal security and the use of military pros and cons.
18. Imperatives of a comprehensive National Security Strategy.

BOOKS RECOMMEND

1. Adi, W.A.C. Oil Politics and Sea, The Indian Ocean Ports.
2. Agrawal, R.K. Defence Production & Development.
3. Anand, V.K. Insurgency & Counter-Insurgency.
4. Bajpai, S.C. Northern frontier of India.
5. Bajpai, U.S. Non-Alignment, Perspective and Prospective.
6. Bandopadhyaya, J. Making of India's Foreign Policy.
7. Brines, R. Indo-Pak Conflict.
8. Chaudhary, J.N. India's Problem of National Security in the 70s.

9. Frankel, J. National Interest.
 10. Khera, S.S. India's Defence Problem.
 11. Kohli, S.N. Sea Power and the Indian Ocean.
 12. Kumar, M. Theoretical Aspects of International Politics.
 13. Maxwell, M. India's China War.
 14. Misha, K.P. Non-alignment Frontier & Dynamics.
 15. Mogenthau, H.J. Politics Among Nations.
 16. Panikkar, K.M. India and the Indian Ocean.
 17. Panikkar, K.M. Problems of Indian Defence.
 18. Panikkar, K.M. Problems of Indian Defence.
 19. Prasad, B. India's Foreign Policy.
 20. Poullose, T.T. Indian Ocean Rivalry.
 21. Rahman, M.W. Politics of Non-alignment.
 22. Rao, P.V.R. Indian Defence Policy and Organisation Since Independence.
 23. Rao, P.V.R. Defence Without Drift.
 24. Saigal, J.R. Unfought War of 1962.
 25. Shah, A. India's Defence and Foreign Policy.
 26. Singh, S. Defence of the Western Border.
 27. Singh, K.R. Indian Ocean.
 28. Singh, R. Aspects of Indian Defence.
 29. Subrahmanyam, K. India's Security Perspectives.
 30. Venkateswar, A.L. Defence Organization in India.
 31. Subrahmanyam, K. Defence & Development
 32. Thomas, Raju Defence of India.
- Other books as recommended by the teacher.

**B.A./B.Sc. III
IIIrd PAPER**

Science Technology and National Security

UNIT-1

1. Science and Society
 - (a) Science, Technology and Society in different historical context.
 - (b) Technological breakthrough and Social changes.
2. Technology and Interdependence
 - (a) Structure.
 - (b) Magnitude.
 - (c) Transfer of Technologies.
 - (d) Military-Industrial Complex in developing & developed countries.

UNIT-2

3. Civilian & Military aspects of technology
 - (a) Nuclear technologies.
 - (b) Space.
 - (c) Communication.
 - (d) Marine.
4. Automation of Weapons and its impact on Warfare.

UNIT-3

5. Role of Chemical and Biological technology and its linkage with military uses.
6. New Military Technologies
 - (a) New conventional weapons.
 - (b) Precision Guidance.
 - (c) Surface to Air and Surface to Surface Guided Weapons.
 - (d) Armoured Fighting Vehicles, Logistic Vehicles and Bridging.

UNIT-4

7. Electronic Warfare : Systems and Techniques
 - (a) Command, Control and Communication.
 - (b) Electronic Counter Measures (ECM).
 - (c) Jamming and its Types, modes of Jamming.
 - (d) Electronic Counter-Counter Measures (ECCM).
8. Search for alternative sources of energy.

UNIT-5

9. Population and depletion of resources.
10. Indian Policy and Problems of National Security
 - (a) Resource base.
 - (b) Science and Technology and Industrial Growth.
 - (c) Defence and Development.
 - (d) Defence Research & Development (R & D).
 - (e) Military Industrial Complex.
 - (f) Concept of Integrated Science Policy and its relevance for National Security.

SELECTED READINGS

1. John G. Collier & Geoffery E. Hewitt Introduction to Nuclear Power.
2. Jack Dannis The Nuclear Almanac Confronting the Atom in War and Peace.
3. L.W. Mc Naught Nuclear Weapons & Their Effects.
4. Joseph Rotblat & Steven Eliman Nuclear Strategy & World Security.
5. Robert Jastrow How to make Nuclear Weapons Obsolete.
6. Girish Mishra Economic Effects of Militarism.
7. Jasjit Singh Air Power in Modern Warfare.
8. Rajesh K. Agarwal Defence Production & Development
9. Philip Mullenbach Civilian Nuclear Power

10. Edgar O' Ballance The Electronic War in the Middle East
1966-70
11. Kenneth Macksey Technology in War
12. Maric Ruive Marine Pollution and Sea Life
13. Bhupendra Jasani Space Weapons and International
Security
14. The Problem of Chemical and Biological
Warfare.
15. D. Gopal & Science, Technology & Development in
M.A. Qureshi Afghanisatan
16. Maurice Basieni & Operations Research Methods and
Arthur Yaspal Problems
17. Albert Parry Russia's Rockets and Missiles
18. S. Bhatt Aviation, Environment & World Order
19. Richard Munson Countdown to a Nuclear Moratorium
Environmental Action Foundation.
20. SIPRI Outer Space Battlefield of the future
21. SIPRI CBW and the Law of War
22. Peter Delson Development and Diffusion of the
Nuclear Power Reactor : A Comparative
Analysis
23. Osman Remal Nuclear Energy and Alternative
Radiroglu
24. Arthur J. Downey The Emerging role of the US Army
SPACE
25. Roger E. Rasperson Nuclear Risk Analysis in Comparative
Perspective

Other books as recommended by the teacher.

PRACTICALS

B.A./BSc. Third Year

1— Sketching of the Strategic Maps of :

India

- (a) India and her neighbours.
- (b) Indian States and Union Territories with Capitals.
- (c) Strategic Raw Materials.
- (d) Defence Industries and Atomic Reactors.

World

- (a) World Map in 1945.
- (b) Countries of NATO, SEATO and CENTO.
- (c) Countries of Warsaw pact.
- (d) Non-Aligned Countries.
- (e) Developed Nations.
- (f) Countries of South Asia, South East Asia, Far East and
West Asia.
- (g) Countries of Asian Continent.
- (h) Nuclear Nations.
- (i) Indian Ocean Littoral States.
- (j) U.N. Organisation.
- (k) World Sea Routes.

2— (a) Higher Defence Organisation of India.

(b) Army, Navy and Air Force Commands and its Area.

3— Spotting of :

Tanks, Bombers, Fighters, Helicopters, Air Craft Carriers and
Naval Ships.

4— Press Clippings on allotted current topics with a brief
covering note.

5— Educational Tour and its report.