

# **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. Moltke & Schlieffen      The Prussian-German School of Strategic Thought.
5. Foch              Principles of War, The French School
6. Allied Strategy in W.W.II
7. Ludendorff      German Concept of Total War.
8. V.D. Sokolovski    The Making of Soviet Strategy.

##### **UNIT-3**

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

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Continental doctrine of Sea Power.  
Naval Strategy.

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

##### **UNIT-4**

15. Mao Tse Tung        Chinese Concept of War.  
Strategy & Tactics of Guerilla Warfare.
16. Development of the Concept of Urban Guerrilla Warfare.

##### **UNIT-5**

17. Concept of Nuclear Deterrence and Defence with special reference to Recent Thinking.
18. Development of Concept of Disarmament & Arms Control.

#### **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. Appadorai, 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. 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.
3. 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**

4. Concept and Models of International Security :
  - (i) Balance of Power.
  - (ii) Collective Security.
  - (iii) Collective Defence.
  - (iv) Non-alignment.

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

**UNIT-3**

9. Historical legacy, Geo-political and Geo-strategical considerations of India's security.
10. 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.

**UNIT-4**

11. Science and Technology in India's Security :
  - a. India's Defence Industrialisation and achievements.
  - b. India's Research and Development (R & D).

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12. India's Nuclear Policy and options :  
     India's need for Nuclear power.  
     India's Nuclear Breakthrough world.  
     India's Nuclear options in a nuclearised world.

### UNIT-5

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

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**UNIT-4**

6. 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).
7. Search for alternative sources of energy.

**UNIT-5**

8. 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.

**SELECTED READINGS**

1. John G. Collier & Introduction to Nuclear Power.  
Geoffery E. Hewitt
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 & Nuclear Strategy & World Security.  
Steven Eliman
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

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## PRACTICALS

### B.A./BSc. Third Year

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 & M.A. Qureshi Science, Technology & Development in Afghanisatan
16. Maurice Basieni & Arthur Yaspal Operations Research Methods and 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.

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— Spoting 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.