

NORTH MAHARASHTRA UNIVERSITY, JALGAON  
Revised Syllabus for M.A./M.Sc.-PART-II  
DEFENCE AND STRATEGIC STUDIES SYLLABUS.

with effect from July 1998

M.A./M.Sc.- II

A) Compulsory Papers

4. Defence Economics
5. Science, Technology and Computer Applications in Defence Management.
6. Military Psychology and Sociology.

B) Optional Papers -

Any one of the following

- e. Area Studies
- f. International Organization
- g. International Law
- h. Industrial Security
- i. Modern Strategic Thoughts - Machiavelli to Nuclear Age.

- Note: 1. The Students have to offer three compulsory papers (Group-A) and one paper from amongst the optional papers (Group-B)
2. Question papers will be set only on those courses which are being taught at the post graduate centres in the University Jurisdiction.

M.A./M.Sc. - II

Paper-DB-A-4-Defence Economics

SECTION-I

1. Contemporary Economic Theories
2. India's economic planning - Defence budgeting.
  - i. General principles of National Finance.
  - ii. Functions, objectives and Organization for budgeting.
  - iii. Parliamentary control over budgeting.
  - iv. Determinant's of Defence budget.
  - v. Performance budgeting.
3. Analysis of India's defence spending ~ 1947 to date.
4. Resource Mobilisation and Fiscal Policy of War.
  - a. Domestic
    - i. Direct Methods
    - ii. Fiscal and Monetary Methods
    - iii. Economic Implications of Technical aspects of Defence Production in India.
  - b. Foreign.
    - i. Role of Private capital
    - ii. Role of foreign capital through Government Institutions.
    - iii. Problems of imported Technology in Defence Production.

SECTION-II

5. Defence industry.
  - i. Defence Production Organization -  
Inspections, standardization, Research and Development in defence production, organization, Role and Functions.
  - ii. History, development, organization and present position in respect of
    - a. Production of weapons, Armament equipment, ammunition and explosives in India.

- b. Aircraft Production in India.
  - c. Production of ships for the Navy.
  - d. Production of Missiles
  - e. Production of Electronics and Avionic equipment.
6. Economic Warfare
- i. Scope and content of Economic Warfare
  - ii. Denial of resources to the enemy.
  - iii. Role of foreign aid
7. Defence and National Economy.
- i. Problems of Inflationary Economy.
  - ii. Danger of Exhaustion of Economic resources
  - iii. Problems of Reconstruction and Rehabilitation.

#### Reference Books

1. Indian Economy, its nature and Problems - Ghosh Alka.
2. The British War Economy - Murphy.
3. Political Economy of War - Pigou.
4. The Economy Warfare - Medicott.
5. The Economic Problems in war and peace - Robinson L.R.
6. The Economics of National Defence - Clerk J.J.
7. Defence Economics - Gavin Kennedy.
8. Monetary Theory of Fiscal Policy - EoN.Son.
9. Rajswa - Palshikar.
10. India's defence budget and expenditure management in wider context -  
Amia Kumar Ghosh.
11. The Defence of India - Thomas Raju (Macmillan)
12. Military Year book - A guide Publication (Barnawal)
13. Annual Report Ministry of Defence Govt. of India.

**DEFENCE AND STRATEGIC STUDIES**

**M.A./M.Sc.- II**

**D.S. A-5 Science Technology and Computer  
Application in Defence - Management.**

**SECTION-II**

1. Relevance of Science and Technology in National Security aspects.
2. Industrial Revolution
  - a. Impact of Social and Economic aspect.
  - b. Changes in military equipments & Tactics.
3. Emergence of New Technologies - Engine Electricity, Radio, T.V. and Computer.
4. Technologies in I and II World War - U - Boats, Tanks and Aircrafts.
5. Nuclear Energy in War & Peace.

**SECTION-II**

6. Computer application in Defence Management.
7. New Technologies and their relevance to Security aspects.
  - a. Energy.
  - b. Computers, Electronics & Artificial intelligence
  - c. Material Science.
  - d. Communication and Information Technology.
  - e. Mass Production.
  - f. Bio-Technology.
  - g. Transportation.
8. Use of Computer Technologies in Land, Sea and Air Warfare.
9. Computer application in Electronics Warfare.
10. Space War and S.D.I. (i.e. strategic Defence Initiative)

#### Reference Books

1. Macacy, Kenneths - Technology in World, Armas & Armour, London, 1981.
2. Nanda B.S. - Science & Technology in India's Transformation, Concept, New Delhi, 1986.
3. Malgaonkar P.D. - Technologies for Economic Development, Oxford & IBH Publishing, New Delhi, 1987.
4. Lee P.G. - Introduction to Battle field Weapon system and Technology Brasseys, Oxford, 1981.
5. Computer Today - Donald H. Sanders, Mc Graw Hill Book Compnay, New Delhi.
6. COBOL Programming, M.K. Roy, Tata Mc Graw- Hill Publishing Company, Asaf Ali Road, New Delhi.

## DEFENCE AND STRATEGIC STUDIES

M.A./M.Sc.- II

D.S.-B(f) DS-B-(f) Optional Paper,  
International Organisation and Peace

### SECTION-I

1. The Setting of International Organization :
  - i. The Principle of national sovereignty.
  - ii. International Law.
2. Evolution of International Organization prior to the League of Nations.
3. The League of nations :
  - i. The structure of the League, collective Security System.
  - ii. The role of the League in maintaining international peace and security.
4. The League and the U.N. continuity and change
5. The structure of the U.N.
  - i. General Assembly.
  - ii. Security Council.
  - iii. ECOSOC.
  - iv. Trusteeship Council
  - v. ICJ.
  - vi. Secretariat.

### SECTION-II

6. The structure of the U.N. Major specialized Agencies and Programmes - Structure and role, IBRD - IDA, IMF, FAO, UNESCO, WHO, GATT, IFC, ILO, UNDP, UNCTAD.
7. The U.N.O in operation :
  - i. Maintenance of Peace and Security.
  - ii. Promotion of International Economic Co-Operation-New International Economic order.
  - iii. Decolonisation.

- iv. Protection of Human Rights.
- v. Promotion of Rule of Law - Adjudication, Development and Codification of International Law.
- vi. Regulations of Armaments.
- vii. New International Information order.

#### Reference Books

1. Godspeed, Stephen S. - The Nature and Function of International Organization (2nd Edition) (New York : Oxford University Press, 1967).
2. Mangone G-A Short History of International Organization. (New our : McGraw - Hill, 1964)
3. Goodrich, L.N. and Kay, David A (Eds.) - International Organisation : Politics & Process (London : The University of Wisconsin Press, 1978).
4. Wood, Robert, S. Ced - The Process of International Organization. (New York : Random House 1971) Journals International Organization.

#### DS-B-Optional Paper

##### DS.B-(e) Area Studies

- i. Research Methods and Process.
- ii. Desertation & Report.

N.B.:The assessment of Desertation will be completed by internal and external examiners. The internal examiners. The internal examiner will be of the same college (Post graduate centre) and the external examiner will be amongst University subject teacher. (P.G. Recognised only)

M.A./M.Sc.-II

D.S.A-6. Military Psychology and Sociology

SECTION-I

1. Psychology and armed Forces -
  - a. Dimensions of behaviour, Motivation, affective and cognitive process, Relevance of Psychology in defence Problems.
  - b. Personal selection and classification for defence services, use of intelligence to group testing procedure and elementary personality testing.
2. Application of principles of Psychology in military training, motivation learning, transfer of training, group and individual training.
3. Group dynamics in Military life -
  - a. Group structure, types and their functions, information of social norms, group problem solving.
  - b. Leadership - Nature, types of leadership, training and functions of leader
  - c. Morale - Nature, determinants and techniques of boosting Morale, its significance in Defence.
4. Psychological Warfare -
  - a. Nature, Types, Organization and Techniques of military propaganda.
  - b. Structure, Theories and Techniques of coercive persuasion, Determinants of brain washing, effects.
  - c. Psychology of Rumour, Nature, Technique and its merits and demerits, impact on war and Society.
5. Mental disorders of war (Abnormalities)
  - a. Mental health of Soldier in War.
  - b. Psychological disorders and emotional strains imposed by War-conversion, Hysteria Anxiety and War neurosis.



## SECTION -II

6. Social Institution and the Armed forces.
  1. Social base of Military Power.
  2. Social background of defence personnel.
  3. social changes and change in the character.
7. The Military Organization - Hierarchy - Co-ordination. - discipline- motivation and morale in the Armed forces.
8. Sociology of War -
  1. Social Causes of War.
  2. Social Mobilization of War.
  3. Adjustment and Emotional Problems during War.
  4. Social aspects of Victory and Defeat.
9. Post War Social Problems -
  1. Problems of large Scale.
  2. Disbandment of Personnel.
  3. Rehabilitation.
  4. Social Adjustment of Servicemen Released after War.
  5. Effects of War on Society.
10. Military Civil Relationship -
  1. Soldier and Society
  2. soldier and Political System.
  3. Soldier and Productive System.
  4. Image of the soldier in different Societies.
  5. Role of Armed Forces and Agencies in Social Changes.
  6. Modernisation and economic Development.

### Reference Books

1. E.G. Boardman - Psychology for the Armed Services.
2. Puj Narayan - Military Psychology.
3. Goldman - The social Psychology of Military Science.
4. R.R. Grinker - Man under Stress.
5. Grillo - Race, Class and Military.
6. Johnson John - The Role of Military as under developed Countries.
7. Jewaki - Military Organization & Society.
8. Michael Fort - Men in Uniform - Military manpower in Modern Industrial Society.
9. Morris Janowitz - Sociology and the Military establishment
10. Leng - Military Institutions and the sociology of war.
11. Sun - Tzu - The Art of War.

Optional Paper

DS-B. (g) International Law

SECTION-1

1. Concepts of International Law.
  - a. Nature of International Law.
    - i. European Contribution.
    - ii. Soviet views of International Law.
    - iii. Attitude of Afro-Asian States.
    - iv. Relations with Municipal Law.
  - b. Sources of International Law.
    - i. Traditional
      - ii. Art 38 of the statutes of ICJ.
      - iii. New states and customs.
      - iv. General assembly resolution.
      - v. Codification of Law.
  - c. Subjects of International Law.
    - i. States
      - a. Types, Recognition of states.
      - b. State Succession.
  - d. States territory - Maritime Boundaries
    - Air space
    - Territorial waters.
    - Economic Zone.
    - Straits.
    - High seas.
  - ii. International institutions
  - iii. Individuals.
  - iv. Other subjects - Holysee, Diminative States- Colonies,  
Trust territories Insurgents.

2. a. State Responsibility
  - i. Elements of international responsibility.
  - ii. Denial of justice,
  - iii. Nationality of claims.
  - iv. The Theory of permanent sovereignty over natural resources.
- b. Human Rights.
  - i. Under General international Law
  - ii. Under UN character
  - iii. Universal covenants.
  - iv. Two covenants.
  - v. Protection under other instruments, genocide, refugees, torture, apartheid arbitrary execution.
3. Legal Control of international Conflicts.
  - i. Kellogg - Briand Pact.
  - ii. UN Charter.
    - a. Collective security
    - b. Peace Keeping forces.
4. Attempt to Prohibit War.
  - i. The League of Nations.
  - ii. UN Security Council.
  - iii. UN General assembly.
  - iv. UN's other organs.
  - v. Regional institutions and Agencies.
  - vi. Diplomatic Procedure.
  - vii. Arbitration.
  - viii. Judicial Settlements - ICJ.

#### SECTION-II

5. International law related to law of war.
  - i. Characteristics and Effect of War
  - ii. Hague and General Conventions.
  - iii. Land, Sea and Air War.

6. Nuclear, Chemical and Biological Warfare.
  - i. Red Cross activities.
  - ii. General Protocol and Activities of International organizations.
  - iii. WHO-
7. War Crimes.
  - i. History and definition.
  - ii. War Crime Trials.
    - a. Nuremberg.
    - b. Tokyo.
8. Neutrality
  - i. Relation between Belligerents and Neutrals.
  - ii. Blockade.
  - iii. Contrabands.
  - iv. UN-Natural Service
  - v. Visitation.

#### Books Recommended

1. Agrawala S.K. (Ed.) Essays on the Law of Treaties.
2. Agrawala S.K. (Ed.) New Horizons of International Law and Developing Countries.
3. Anand R.P. New States and International Law.
4. Copenheim, International Law Vol. I.
5. Green L.C., International Law Through the Cases.
6. Elias T.U. New Horizons in International Law.
7. Chandra, Law of the Sea.
8. Anand R.P. Legal Regime of the Sea Bed on the Developing Countries.
9. अंतरराष्ट्रीय कायदा - प्रो. देशपांडे.
10. अंतरराष्ट्रीय कायदा - श्री. एच.एन. गारगीज.
11. अंतरराष्ट्रीय संबंध - प्रो. वल्लभ रायपुरकर.
12. अंतरराष्ट्रीय संबंध - डॉ. बी.एल. फडीया.
13. अंतरराष्ट्रीय संबंध - डॉ. प्रमोदराव शर्मा.

Optional Papers

DS.B (h) Industrial Security

SECTION-I

1. Industrial Security -
  - a. Definition, Objectives, Scope and importance.
  - b. Elements of Security - Security planning and its implementation, difficulties, dangers and remedy to remove its, secret security, Boundary wall, Arrangement of Security lighting, aqualting the employees regarding plan, Natural security.
2. Role of Security -

Life, Property and general security, maingate, receipting, close search room, vehicle entrance, search gate, Invitation room, goods security, Internal Security and Control.
3. Security and Psychology -

Psychology of theft, guaranty of security, Sophisticated security, guaranty of apparatuses, Public festivals and seminars -
4. Molicqs Molicus and Perandi of Security -

Personal Checking, help, keeping in custody, bringing and carrying away money and its security, security of vehicles, intelligence section, misappropriation, industrial peace and tension etc.
5. Science, Technology and Security -

Results of science and Technology, noticing danger, close circuits - T.V., Access Content, Security Chest, automatic shredder vibration, destter modern security arrangement and equipments.
6. Fire Fighting -
  - a. Definition, Scope, types, equipments and role.
  - b. First Aid - Definition, types and method - training etc.

## SECTION-II

7. Government policy and Law -  
Fundamental rights, security of personal property, right of Assets and prevention, right of searching.  
Penal Offences - (I) Cognizable (II) Non-cognizable.
8. Industrial Security and Crimes -  
Theft, sabotage, infiltration, strike, procession, Terrorism etc.
9. Fire Preventive Measures -  
Chemical equipments - Soda, Acid, Fire fighting equipments, Foamite Carbodie Oxide equipments, Dry chemical equipments, Mithan and other equipment-water tenders, Fire trailer, engine, fire preventive intimation system (automatic system) etc. and its maintenance.
4. Security Organization -  
Chief of Organization, chief of the Security, Security officer, assistant security officer, Inspector of security, different sectional (department) officers, (Goods section, crime investigating section, secret section fire fighting department etc.)

## Part II

5. Training of Security -  
General security, Fire preventing measures, production of intelligence gathering equipment - it's history and working, model studying orders, accidents and relief measures, material, security, night duties and disipline etc.
6. Security Establishment's -  
Elasticity in discipline, leadership hopitability report, foresight, uniform, controlling the unexpected situation.
7. Accidents -
  - a. Chernobyles and Bhopal cases in security measures and its short term and long term effects.
  - b. Pollution control - personal and general disposable of sewerages and litters. Boller chimney, noticing of danger measures etc.

## Books

1. Fundamentals in the Industrial Security Management - by Madras.
2. औद्योगिक सुरक्षा - कानून और प्रवृत्ति

DS-B- Optional Papers

DS.B (1) Modern Strategic Thoughts- Machiavelli to Nuclear Age.

1. The origins of modern war (16th to 18th Century)
  - a. Machiavelli - The Renaissance of Art of War.
  - b. Vauban - The Impact of science on War.
  - c. Frederick the Great - From Dynastic to National War.
2. The Classics of the 19th Century
  - a. Clausewitz : On war  
war and its relationship with politics, strategy, Tactics.
  - b. Tomini - Concept of mass army strategy, Tactics and Logistics.
  - c. Adam Smith The Economic Foundations of Military power..
  - d. Friedrich list The Economic Foundations of Military power.
3. From 19th Century to the First - World war
  - a. Engels & Marx. - Military concept of the social Revolutionaries.
  - b. Moltke and Schlieffen: The Prussian-German School of strategic thought.
  - c. Du-Pica - The French School of strategic thought.
  - d. Foch - The French School of strategic thought.
4. From the first to second World war.
  - a. Churchill, Lloyd George, Clemenceau - The emergence of civilian military Relations.
  - b. Ludendorft - German Concept of Modern war.
  - c. Lenin Trotsky - Soviet concept of war.
  - d. V.D. Sokolovskii - The making of soviet strategy.
  - e. Liddle Hart and Degaulle - The Doctrine of limited liability and mobile defence, Total war. Defence, Impact on Israeli military theory.
  - f. J.F.C. Fuller - Concept of Mobile - warfare, Advent of Tank Warfare, and Science and conduct of war.
  - g. Haushofer - the concept of Geopolitics.

- h. A.T.Mahan - Theory of sea Power. Naval Strategy.
- i. Alfred Mackinder - Heartland- Theory continental doctrines of sea power.
- j. Douhet - Theory of Air warfare.

#### Second War

- a. Mao Tse Tung - Chinese concept of war, Strategy and Tactics of Guerrilla warfare.
- b. Che-Guevara - Concept of Revolution and principles of Guerrilla warfare.
- c. Development of the concept of Warfare - Urban Guerrilla Concept of Nuclear Deterrence and defence with special reference to Recent Thinking.
- d. Conventional Warfare in Nuclear age.
- e. Development of the concept of Arms Control and Disarmament.
- f. J.Nehru-Nonalignment: A strategy for National security and peace.
- g. Reflection on strategy in the-Present and Further.

#### Books and Journals Recommended

1. E.M. Earle - Makers of Modern Strategy.
2. Brodie B. - Strategy in Missile Age.
3. Anand V.K. - Insurgency and Counter Insurgency : A Study of Modern Guerrilla warfare.
4. M.Emme Eugene - Impact of Air Power.
5. Fuller J.F.C. - The conduct of War.
6. Clausewitz - ON WAR.
7. C.Howard - Theory and practice of war.
8. A.T. Mahan - Sea Power.
9. Montegomary - History of warfare.
10. Generals.
11. डॉ. एल.एच. वॉल - सैन्य विचारक
12. डॉ. जे.एच. वॉल - सैन्य विचारक

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