



**SYLLABUS FOR THE**  
**MASTER OF ARTS**  
**IN**  
**DEFENCE STUDIES**  
**( TWO – YEAR FULL TIME PROGRAMME )**



**RULES, REGULATIONS AND COURSE CONTENT**

**( Choice Based Credit System)**

**Department of Defence Studies**

**Faculty of Arts**

**University of Lucknow, Lucknow – 226007**

# **M.A. (Defence Studies)**

## **HISTORY OF THE DEPARTMENT**

The Teaching of Military Science was started at the University way back in the year 1969 at the U.G. level with the active effort of Prof. L.N.Lumba (Dept. of Political Science) , Dr. S.P. Dubey (Dept. of western History) and Dr. Shailendra Singh (Dept. of Economics) under the guidance of Vice-Chancellor of the University.

Teaching at the P.G. level was started under a self finance scheme in the year 2003 Commencement of P.G. Course and enhanced awareness of Security amongst the public open the door for an early establishment of a separate Department of Defence Studies confirmed by the State Govt. on 03 July 2006.

The Department got its much needed reputation reward when about 15 army officers of the ranks of Lt. Col. & Brigadiers joined the department in the session 2006-07 as P.G. & Research student. Presently about 02 army officers studying in Research courses.

The Founder teacher of the Department was DR. B.S. Sirohi and after DR. Sirohi, DR. S.N.Rai & DR. O.P.Shukla join the Department. Presently, Department headed by Prof. B.K.Shukla , Dean Faculty of Arts with sincere cooperation by Co-ordinator DR. O.P.Shukla.

The Faculty members have many credit as books, research Publications & Research Project work. Department successfully Organized 02 National Seminars, 1 Workshop, 1 National Conference & 03 Special Lecture with UGC & Other Financial support. About 600 books exclusively of Defence Studies are available both in Hindi as well as English in the Department.

The Department tries to develop a strong Department Library, mini conference room, practical lab, project room & Teaching Staff room.

## **Programme Objectives**

The master of defence studies programme is offered by the department aims at empowering students with knowledge and skills for thinking and analysis to navigate the real world problems security issues and contribute to society a helping and meaningful way.

## **Programme Specific Outcome**

1. Syllabus of the subject of UG and PG both will be modified for for UGC-NET.
2. Theoretical and practical classes will be more interactive than earliar.
3. In Post Gradution some seats will be of regular fees mode instead of self finance mode.
4. Subject will be introduced in affiliated degree colleges of Lucknow University in UG and PG.
5. Department will introduce an e-journal of the subject.

## **AFFILIATION**

The proposed programme shall be governed by the Department of Defence Studies , Faculty of Arts , University of Lucknow, Lucknow – 226007.

## **PROGRAMME STRUCTURE**

The M.A. Programme is divided into two parts under each part will consist of two semesters as given below

		<b>Semester-Odd</b>	<b>Semester- Even</b>
Part 1	First year.	Semester -I	Semester II
Part II	Second year	Semester III	Semester IV

## Programme Structure

**Semester I<sup>st</sup>** has four papers which all are mandatory for all students of I<sup>st</sup> semester. Each paper has 04 credits total credits of core paper is 16. Student will have to opt 02 Generic /Open elective paper, each paper has 04 credits and total credit of semester I<sup>st</sup> is 24.

**Semester II<sup>nd</sup>** has four papers which all are mandatory for all students of II<sup>nd</sup> semester. Each paper has 04 credits total credits of core paper is 16. Student will have to opt 02 Generic /Open elective paper, each paper has 04 credits and total credit of semester II<sup>nd</sup> is 24.

In **Semester III<sup>rd</sup>** there are 02 core papers which are mandatory for all students of III<sup>rd</sup> Semester, Theory Paper has a 04 credits and project work of 8 credits is also mandatory. Student will have to opt Two (02) discipline electives among three discipline electives papers of 04 credit each. Student will have to opt one optional elective of four credit each among three. Total Credit of Semester III<sup>rd</sup> is 24.

1. Theory (Core Paper) -04 Credits
  2. Project Work (Core Paper)- -08 Credits
  3. 02 Discipline Electives -04 x02 =08 Credits
  4. 01 Optional elective ) -04 Credits
- Total 24 Credits

In **Semester IV<sup>th</sup>** there are 02 core papers which are mandatory for all students of IV<sup>th</sup> Semester, Theory Paper has a 04 credits and Dissertation of 8 credits is also mandatory. Student will have to opt Two (02) discipline electives among three discipline electives papers of 04 credit each. Student will have to opt one optional elective of four credit each among three. Total Credit of Semester III<sup>rd</sup> is 24.

1. Theory (Core Paper) -04 Credits
  2. Dissertation (Core Paper)- -08 Credits
  3. 02 Discipline Electives -04 x02 =08 Credits
  4. 01 Optional elective ) -04 Credits
- Total 24 Credits

## **SEMESTER I**

( Following Four Core Papers are mandatory for all students of M.A. I<sup>st</sup> Semester of Defence Studies Each Paper has 04 Credits 04x04=16 )

**DSCR 101:** Advanced History of the Evolution Indian Art of war (Vedic- Mughal)

**DSCR 102:** Theory and Practice of War

**DSCR 103:** Strategic Thoughts

**DSCR 104:** Practical

### **Generic/ Open elective:-**

(Generic /Open elective it is mandatory for students to choose any two of the following electives. Each Paper has 04 Credits 04x02=08)

**DSO – 101** International relations and conflict resolution

**DSO – 102** Human Rights and International Humanitarian Law

**DSO – 103** Insurgency and Terrorism

**DSO – 104** MOOCS Based ( Geo–Politics and Military Geography)

( Each Course of 4 credits will be of 100 marks out of which 70 marks shall be allocated for Semester Exam and 30 marks for Internal Assessment)

## **SEMESTER II**

( Following Four Core Papers are mandatory for all students of M.A. II<sup>nd</sup> Semester of Defence Studies Each Paper has 04 Credits 04x04=16 )

**DSCR201** Advanced history of the evolution Indian art of war Maratha to Indian army

**DSCR 202** Study of war

**DSCR 203** Evolution of modern warfare strategic thoughts

**DSCR 204** Practical

### **Generic/ Open elective:-**

(Generic /Open elective it is mandatory for students to choose any two of the following electives Each Paper has 04 Credits 04x02=08.)

**DSO – 201** International law and security

**DSO – 202** Disaster management & National Security.

**DSO – 203** South Asia : conflict and co-operation studies

**DSO – 204** MOOCS Based Course (NCC)

( Each Course of 4 credits will be of 100 marks out of which 70 marks shall be allocated for Semester Exam and 30 marks for Internal Assessment)

### **SEMESTER III**

( Following Two Core Papers are mandatory for all students of M.A. III<sup>rd</sup> Semester of Defence Studies Theory Paper has 04 Credits and Project Work has 08 Credits)

(04+08=12 Credits )

**DSCR 301** Western Military History (321 BC 1814A.D.)

**DSCR 302** Project Work

**Discipline Elective** (It is mandatory for students to choose any two Theory papers Credit 04 of each Paper of the following (04x02=08.)

**DSE 301:** Global and regional disarmament and arms control

**DSE 302:** National Security.

**DSE 303** Research Methodology

#### **Optional Elective:-**

Generic / Open Elective it is mandatory for students to choose any one of the following Electives (**Optional Elective Each Paper has 04 Credits 04x01=04**).

**DSO 301** Conflict and media

**DSO 302** Military Psychology

**DSO 303** International and National Terrorism

## **SEMESTER IV**

( Following Two Core Papers are mandatory for all students of M.A. IV<sup>th</sup> Semester of Defence Studies Theory Paper has 04 Credits Each and Dissertation has 08 Credits)

(04+08=12 Credits )

**DSCR 401:** Western Military History (1814A.D.– II World War)

**DSCR 402:** Dissertation

**Discipline Elective** (It is mandatory for students to choose any two Theory papers Credit 04 of each Paper of the following (04x02=08.)

**DSE 401:** Defence Economics

**DSE 401:** Science and Technology in Modern War

**DSE 403:** Politics and Security of Indian Ocean

### **Optional Elective:-**

Generic / Open Elective it is mandatory for students to choose any one of the following Electives (**Optional Elective Each Paper has 04 Credits 04x01=04 Credits**).

**DSO 401** International and National Terrorism

**DSO 402** Science and Technology in war

## **SEMESTER I**

**DSCR 101: Advanced History of the evolution Indian art of war (Vedic- Mughal)**

**UNIT I**

1. Military System in Vedic and Puranic and Epic age.
2. Alexander invasion of India with special reference to Battle of Hydaspes 326 B.C.

**UNIT II**

1. Kautilya's philosophy of war state craft, Military organization, weapons, pattern of warfare.
2. Spy System and Inter- state Relations during Maurya military System.

**UNIT III**

1. Changes in Hindu military system and art of warfare during the age of Guptas.
2. Changes in Hindu military system and art of warfare during the age of Harshvardhan.

**UNIT IV**

1. Arab and Turk invasions of India and new trends in warfare.
2. Rajput military System and art of war with special reference to the battle of Somnath ( 1025 A.D.) and Terrain ( 1191-92 A.D.)

**UNIT V**

1. Military Reforms and pattern of warfare during the Sultanate period.
2. Babar invasion of India with special reference to the first Battle of Panipat (1526 A.D.) and Khanwa(1527 A.D.) New trends in Mughal art of warfare during the the reign of Akbar and subsequent periods. Causes of the failure of Mughal Military System.

**Books Recommended**

1. Singh S.D., Ancient Indian warfare with special reference to Vedic period
2. Majumdar B.K., Military system in India
3. Majumdar B.K., Bhartiya Sena ka itihās.
4. Sarkar G.N.,military history of India

**DSCR 102**

**Theory and practice of war**

## **UNIT I**

1. Definition of war nature of war and study and their evolution.
2. Cycle of war and stages of war

## **UNIT II**

1. Types of war : Nuclear Warfare, Chemical Warfare, Biological Warfare.
2. Psychological Warfare, Economic Warfare.

## **UNIT III**

1. Origin and causes of World War I (1914- 18)
2. Origin and causes of World War II (1939- 45)

## **UNIT IV**

1. Concept of limited war.
2. Concept of Total war.

## **UNIT V**

1. Cold War.
2. Guerilla Warfare.

## **Books Recommended**

1. Lallan ji Singh , Pashchatya yuddh Kala.
2. Maliwal.B.N., Sthal Yudh Kala.

**DSCR 103:                    Strategic Thoughts**

**UNIT I**

1. Machiavelli :     The Renaissance of the art of war
2. Vauben       :     The impact of science on war

**UNIT II**

1. Frederick the Great :            Concept of Dynastic and National War.
2. Dupieq and Marshal Foch.: The French School of Strategic Thought

**UNIT III**

1. Clausewits:     On war, War and its relationship with politics, strategy and tactics
2. Jomini :        Concept of Mass Army, strategy, tactics and logistics.

**UNIT IV**

1. **Angels and Marx:**    Military concepts of the social revolutionaries.
2. **Moltke and Schliffen:** The Prussion- German School of Strategic thought

**UNIT IV**

1. **Napoleon :**
2. **Hitler       :**     Nazi concept of war.

**Books Recommended**

1. Srivastava J.M. , Strategic Chintak
2. Pandey Baburam, Pandey Ramsurat: Strategic Vicharak
3. Jauhari R.C. , Pashchatya Strategic Vicharak

**DSCR 104 :           Practical**

1. Psychological experiments covering theory and experiments of the following.
  - (A) Learning
  - (B) memory
  - (C) Intelligence
2. Techniques of group discussion covering theme of the following subjects
  - (A) Military history
  - (B) Geo strategy
  - (C) Geopolitics
  - (D) Security
3. Map meaning, History of map, Enlargement and reduction of map, Gradient.

## **Generic / Open Elective**

### **DSO 101     International Relations and Conflict Resolutions**

#### **Unit I**

1. Approaches to the study of International Relations.
2. (i) Classical (ii) Scientific (systems, communication and decision making.

#### **Unit II**

1. The role of ideology in international relations.
2. Foundation and limitations of national power

#### **Unit III**

1. Concept of national Interest.
2. Formulation of foreign policy

#### **Unit IV**

1. The concept of balance of power
2. History of various peace efforts in context to balance of power.

#### **Unit V**

1. The concept of collective security.
2. Regional military pacts.

#### **Books Recommended**

1. Mahendra Kumar, Theoretical aspects of international politics
2. BL Phadia: Antarrashtriy Rajniti
3. Palmer and Perkins: International Relations

**DSO 102      Human Rights and International Law**

**UNIT I**

1. Human Rights: Conceptual development, Nature ,Historical Background, Classification.
2. Introduction of International Law and International Humanitarian Law ( IHL )

**UNIT II**

1. International Law and Rules of Land, Air and Sea warfare.
2. International law and conventions for the wounded and sick in the battlefield. Protection of civilian rights in times of war, treatment of the prisoners of war

**UNIT III**

1. Peaceful means of Settlement of International Disputes.
2. Limits on the choice of means and methods of warfare

**UNIT IV**

1. Universal declaration of Human Rights and International conventions on different kinds of Human Rights.
2. Human rights in Indian Constitution, Role and Duties of NHRC in India.

**UNIT IV**

1. Concept and Theories of International Humanitarian Law ( IHL )
2. Concept of Refugee law

**Books Recommended**

1. R.S. Agrawal, Human Rights in the Modern World
2. G.S. Bajwa, Human Rights in India
3. D.D. Basu, Human Rights in Constitutional Law



3. Mao Tse-tung and Che Guevara ,Guerilla warfare Cassell, London ,1970
4. S. T. Das, An introduction to the art of war, Sagar publication New Delhi ,1970

## **DSO 104**

## **Geo-Politics and Military Geography (MOOCS Based)**

### **UNIT I**

1. Concept and meaning of Geo-politics.
2. Scope and Importance of Geo-politics.
3. Development of Geo-politics.

### **UNIT II**

1. Sea Power theory: Mahan and Houshoffar.
2. Land Power theory: Machinder and Spykman.
3. Air Power theory : Seversky

### **UNIT III**

1. Geography in Land warfare
2. Geography in Sea warfare
3. Geography in Air warfare

### **UNIT IV**

1. Global Strategic Views.
2. Role of Geography in Military Applications

### **UNIT V**

1. India's boundaries, Terrain in border areas.
2. Population in border areas and its implication to border security

### **Books Recommended**

1. Yuddh ke sadhan aur Sadhya Major R.C. kulshreshth .Allahabad 1965

2. Fairgrieve.J. (1915) Geography and world war, London University of London Press.
3. Mahan,A.T.,(1900): The Problem of Asia ,Boston, Little, Brown and co.

## **SEMESTER II**

### **DSCR 201:**

#### **Advanced History of the Evolution Indian art of war Maratha to Indian Army**

### **UNIT I**

1. Maratha military system, land and naval warfare during the reign of Shivaji, changes in Maratha pattern of warfare during 18th century with special reference to the battle of Panipat 1761A.D.
2. Anglo Maratha war with special reference to battle of assaye 1803

### **UNIT II**

1. Military system and pattern of war under Haider Ali and Tipu Sultan with special reference to the Third Mysore war 1790A.D.
2. Military organisation and pattern of warfare of Khalsa army. Impact of the Western art of war and subsequent development in the Sikh Army.

### **UNIT III**

1. Contribution of Maharaja Ranjeet Singh to the evolution of Sikh military system.
2. Anglo Sikh warfare with reference to the battle of Sobraon 1846 A.D.

### **UNIT IV**

1. Development of the presidency armies under the East India company.
2. Indian war of independence 1857 A.D.

### **UNIT V**

1. Amalgamation of the presidency armies and reforms of Kitchener.
2. Reorganization of Indian army under the crown
3. Indianisation of the defence forces, partition of the armed forces.

### **Books Recommended**

1. Singh S.D., Ancient Indian warfare with special reference to Vedic period
2. Majumdar B.K., Military system in India
3. Majumdar B.K., Bhartiya Sena ka itihās.
4. Sarkar G.N., military history of India

## **DSCR 202**

## **Study of war**

### **UNIT I**

1. Low intensity conflict operations, concept and its practice in South East Asia and far East.
2. Low intensity operations by Pakistan against India.

### **UNIT II**

1. Evolution of Nuclear strategy, concepts and doctrine.
2. Nuclear development since 1945.

### **UNIT III**

1. Missiles, Spacecraft and theories of Nuclear warfare and deterrence.
2. Arms control and Arms limitation.

### **UNIT IV**

1. Features of Modern wars.
2. Nature of future wars and its advantages and disadvantages.

### **UNIT V**

1. Conventional Warfare in Nuclear age.
2. Cyber Warfare

### **Books Recommended**

1. Lallan ji Singh, Pashchatya yuddh Kala.
2. Maliwal.B.N., Sthal Yudh Kala.

## **DSCR 203 Evolution of Modern Warfare ( Strategic Thought )**

### **UNIT I**

1. Ludendorff, Lenin : German concept of Total war.
2. Trotsky, Stalin : Soviet concept of war

### **UNIT II**

1. Liddle Hart : The doctrine of limited liability and mobile defence.
2. J.F.C. Fuller : Concept of mobile warfare. Advance of tanks and science and conducted of war.

### **UNIT III**

1. A.T. Mahan : Theory of sea power. Naval strategy
2. Halford Mackinder : Heartland Theory

### **UNIT IV**

1. Douhet : Theories of Air warfare.
2. Mitchell , Seversky : Theories of Air warfare.

### **UNIT V**

1. Mao Tse Tung : Chinese concept of war, strategy and tactics of guerrilla warfare
2. Che Guevara : concept of revolution and principles of guerrilla warfare

### **Books Recommended**

1. Srivastava J.M. , Strategic Chintak
2. Pandey Baburam, Pandey Ramsurat: Strategic Vicharak
3. Jauhari R.C. , Pashchatya Strategic Vicharak

## **DSCR 204**

## **Practical**

- (a) Psychological experiments covering theory and experiments of the following –
  - (i) Aptitude
  - (ii) Personality
  
- (b) Techniques of Group -discussion covering theme of the following subjects –  
Nuclear weapons
  - (i) Science and Technology
  - (ii) Area Studies
  - (iii) International Law
- (c) Cartography, Projections, Classification, Survey by Prismatic Compass and Bearing.

## **Generic / Open Elective**

### **DSO 201                      International Law and Security**

#### **UNIT I**

1. International Law - Definition and Nature .
2. International Interventions - ideological, political ,economic.

#### **UNIT II**

1. Impact of Nuclear development in International Relations.
2. Nuclear warfare and laws of war.

#### **UNIT III**

1. Settlement of disputes.
2. Belligerent and their armed forces.

#### **UNIT IV**

1. Enemy character.
2. Effect of the outbreak of war.

#### **UNIT V**

1. Modern Development and Laws of Neutrality.
2. legal control of international conflicts.

#### **Books Recommended**

1. R.S. Agrawal, Human Rights in the Modern World
2. G.S. Bajwa, Human Rights in India
3. D.D. Basu, Human Rights in Constitutional Law

4. Dr T.P. Tripathi, Human Rights
5. Dr J.N. Upadhyay, Indian Constitution
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## **Generic / Open Elective**

### **DSO 202                    Disaster Management and National Security**

#### **UNIT I**

1. Basic concept, meaning and terminologies associated with disaster and national security.
2. Types of Disasters.

#### **UNIT II**

1. Effects of Disaster on National Security.
2. Disaster Profile of India.

#### **UNIT III**

1. Study of natural disasters : Case Studies - Tsunami 2004, Uttarakhand flood 2013, Gujarat Earthquake 2001,
2. Study of human induced disasters : Case Studies - Bhopal Gas Tragedy, Dhanbad Coalmine Incident, Mumbai Serial Bomb Blast.

#### **UNIT IV**

1. Disaster Management : Meaning, Concept and Strategies.
2. Disaster Mitigation, Response, Recovery, Relief and Reconstruction.

#### **UNIT V**

1. Disaster Management in India. Role of Armed forces and ISRO Disaster Management Support (DMS) in Disaster Management.
2. Role of NGOs in Disaster Management.

## **Books Recommended**

1. R Subrahmanyam: Disaster management
2. G.Venkatesh: Disaster management in India
3. G.K. Choudhary: Industrial disaster management and emergency response.
4. Shivendra Singh and Jitendra Singh : Disaster management

## **Generic / Open Elective**

### **DSO 203**

### **South Asia – Conflict and CoOperation Studies**

#### **UNIT I**

1. Geo - Political setting of South Asia.
2. Socio, Cultural and Economic structure of South Asia.

#### **UNIT II**

1. Power rivalries in South Asia : USA, Russia, UK and China.
2. Strategic importance of Afghanistan, China and Myanmar for South Asia.

#### **UNIT III**

1. Internal Problems and Conflicts in South Asian Region (Country Profiles)
2. Role of Pressure Groups (Religious, Linguistic, Cast, Tribes, Women, Youth, Civil Society and Media) in the Politico- military Scenario of the South Asian Countries.

#### **UNIT IV**

1. Prospects of Sub- regional co-operation in South Asia.
2. Regional co-operation in South Asia under the aegis of SAARC.

#### **UNIT V**

1. Conflict Map of South Asia: Regions, Issues and Parties.
2. Peace Initiative and movements in South Asia.

## **Books Recommended**

1. Quincy wright A study of war
2. J.W burton : International conflict resolution
3. Bhaskar Rao : Global perceptions on peace education.

**DSO 204**

**MOOCS Based (National cadet corps)**

### **UNIT I**

1. History of NCC.
2. Organisation of NCC.

### **UNIT II**

1. Weapon Training : Training and adventure activities.
2. Role of NCC in National Integration

### **UNIT III**

1. Role of NCC in leadership, personality development
2. NCC and Social awareness.

### **UNIT IV**

1. Health and Hygiene
2. Self defence

### **UNIT V**

1. NCC and Environment and Ecology.
2. NCC and Genral Awareness.

## **SEMESTER III**

**DSCR 301**

**Western Military History (321 BC 1814A.D.)**

### **UNIT I**

1. Battle of Merathon - (490B.C.)
2. Battle of Arbela - (331B.C.)

### **UNIT II**

1. Battle of Cannae - (216 B.C.)
2. Battle Adrianople - (378 A.D.)

### **UNIT III**

1. Battle of Hastings - (1066A.D.)
2. Battle of Crecy - (1346 A.D.)

### **UNIT IV**

1. Battle of Trafalgar – (1805 A.D.)
2. Battle of Leipzig – (1813 A.D.)

### **UNIT V**

1. Battle of Italy - Abyssinia (1935 A.D.)
2. Battle of Siddi Barani ( 1940A.D.)

**DSCR 302**

**Project Work**

- (a) Students will be required to written a dissertation on any security issue towards the fulfillment of the requirement of masters degree in defence studies from Lucknow University, Lucknow .**
- (b) Viva- voce.**

## **DSE 301    Global and Regional Disarmament and arms control**

### **UNIT I**

1. Disarmament and Arms control: Definitions and inter-relationships.
2. Factor affecting the possibility and probability of negotiations and armaments of disarmament and arms control.

### **UNIT II**

1. Measures of Arms Control.
2. Levels of compatibility of Disarmament, arms control and security.

### **UNIT III**

1. Internationalization to prevent the spread of Nuclear weapons and other weapons of mass destruction including Chemical and Biological weapons.
2. Major Disarmament and Arms Control problems and agreements at the global level.

### **UNIT IV**

1. Social and Economic aspects of Disarmament.
2. Conditions for the emergence, successes and failures of problems and agreements of Disarmament and Arms control.

### **UNIT V**

1. World Military Expenditure.
2. Military Expenditure Limitations.

### **Books Recommended**

1. Idsa publications
2. SIPRI yearbook of armament and disarmament
3. J.M.Srivastav : Nishastrikan evam Shastra niyantran.

## **DSE 302**

## **Natinal Security**

### **UNIT I**

1. Concept of National Security.
2. Concept of National Security.

### **UNIT II**

1. The Power Profile: Tangible Elements of National Power.
2. Intangible Elements of National Power.

### **UNIT III**

1. Leadership, Bureaucratic, Organizational efficiency.
2. Types of Governments.

### **UNIT IV**

1. Alternative Models of International Security: Balance of Power, Collective Security, Collective Defence, Non – Alignment.
2. Energy Security.

### **UNIT V**

1. Strategy of Deterrence: Concept and practice in conventional and in nuclear context.
2. Arms Proliferation as a constraint in National, Regional and International Security .

### **Books Recommended**

1. Quincy wright A study of war
2. J.W burton : International conflict resolution
3. Bhaskar Rao : Global perceptions on peace education.
4. K Subramanyam: Our national security, economic and scientific research foundation.

5. S.D. Sinha: Security in the new World order
6. Gautam Sen: India security consideration in nuclear age.
7. Barry Buzan : People, states and fear

## **DSE 303**

## **Research Methodology**

### **UNIT I**

1. Meaning of Research Policy Research.
2. Types of Research

### **UNIT II**

1. Objectives of Research.
2. Research cycle

### **UNIT III**

1. Stages in Research Process
2. Research Problem

### **UNIT IV**

1. Hypothesis.
2. Nature and characteristics of a scientific hypothesis.

### **UNIT V**

1. Review of literature, Data collection techniques.
2. Use of statistical methods, analysis and writing ,footnotes ,references and appendix ,bibliography.

### **Books Recommended**

1. Bell J.E. : Projective Techniques
2. Mohammed Sulaiman : Research Methodology in Behavioural Science
3. Best J.W.: Research in Education

**DSO 301**

## **Conflict and Media**

### **UNIT I**

1. Conflict : Concept , meaning and definitions.
2. Media : Concept, meaning and definition.

### **UNIT II**

1. Inter- relationship between conflict and media.
2. Role of media in International conflict.

### **UNIT III**

1. Information age and changing dimensions of conflict.
2. Increasing impact of media on society and States.

### **UNIT IV**

1. National Security and role of media.
2. Role of media in India : Size , Characteristics and Impact.

### **UNIT V**

1. Terrorism and media.
2. Media ethics and Laws regarding conflict.

### **Books Recommended**

1. The Media of Conflict: War reporting and representations of ethnic violence ,edited by Tim Allen and Jean Seaton .
2. The media at war : Communication and conflict in the the 20th century ,Susan Carruthers.
3. War and the Media : Paul M. Haridakis, Barbara.
4. John Stanie : War and the media miles ,Hudson

**DSO 302**

## **Military Psychology**

### **UNIT I**

1. Relevance of psychology in defence problems. Psychology of behavioural science.
2. Elements of Military Psychology.

### **UNIT II**

1. Psychological warfare - Propaganda, Rumour and Brain – washing.
2. Psychological problems of adjustment during army life.

### **UNIT III**

1. Mental health problems.
2. Importance of psychology in war. Soldier and his qualities

### **UNIT IV**

1. Military leadership- definitions types and functions.
2. Man Management

### **UNIT V**

1. Moral - (types, contributing factors, assessment, regimental conditions) and motivation .
2. Discipline and Spirit de Corps

### **Books Recommended**

1. E.G.Boring: Psychology for the armed Forces
2. Dr.N.P.Tiwari : Sainya Manovigyan .

**DSO 303**

**International and National Terrorism**

**UNIT I**

1. Terrorism: Definition, Meaning and concept.
2. Origin of Terrorism : Causes and factors.

**UNIT II**

1. Major Terrorist Incidents.
2. Major Terrorist Groups

**UNIT III**

1. Terrorism and National Security.
2. Terrorism and Regional Security.

**UNIT IV**

1. Terrorism and International Peace.
2. Terrorism in 21<sup>st</sup> century with special reference to scientific and technological Development

**UNIT V**

1. International, Regional and National efforts for removal of Terrorism.
2. Role of Peace Institutions for removal of Terrorism.

## **SEMESTER IV**

### **DSCR 401     Western Military History (1815 -II World war)**

#### **UNIT I**

1. Battle of Ulm (1805 A.D.)
2. Battle of Waterloo (1815 A.D.)

#### **UNIT II**

1. American imperialism and American civil war (1862 -63)
2. Japanese imperialism and siege of Port Arthour (1904 -1905)

#### **UNIT III**

1. Battle of Marne (1914 A.D.)
2. Battle of Somme (1916 A.D.)

#### **UNIT IV**

1. Battle of Arras (1918 A.D.)
2. Battle of Britain (1940 A.D.)

#### **UNIT V**

1. Origin of World war II.
2. Pacific campaign : Battle of Midway Island (1942 A.D.)

#### **Books Recommended**

1. Dr.Lallan ji Singh , Pashchatya yuddh Kala.
2. Maliwal.B.N., Sthal Yudh Kala

## **DSCR 402**

## **Dissertation**

1. Students will be required to written dissertation under the supervision of a teacher towards the fulfillment of the requirements of master's degree in defence studies in defence studies from Lucknow University.
2. Viva – Voice

**DSE 401**

**DEFENCE ECONOMICS**

**UNIT I**

1. Concept and theories of war economics.
2. Economic warfare.

**UNIT II**

1. Impact of war on economy.
2. Economic potential of war and economic weapons.

**UNIT III**

1. Cost of war.
2. Defence production in India.

**UNIT IV**

1. Economic problem and planning for Indian Defence.
2. War finance.

**UNIT V**

1. Defence Budget and National Security.
2. Comparative study of Defence Budget of India, Pakistan and China.

**Books Recommended**

1. Dr.Lallan ji Singh , Yuddh aur Shanti ki samasyaen.
2. Dr.S.D Sharma, Yaudhik Arthshastra
3. Pushpa Jain ,Sampurna Sainya Vigyan .

4. Economics of war and peace: Economic ,Legal and Political perspective edited by Ben Goldsmith
5. Pal Poast , The Economics of war.
6. Fanny Coulomb, Economic theories of peace and war studies ( in defence economics )

## **DSE 402      Science and Technology in Modern War**

### **UNIT I**

1. New military technology: Precision guidance, stand off guidance, and contro.
2. Target acquisition, command and control.

### **UNIT II**

1. New strategic technologies : Accuracy, Throw-weight,
2. Yield and MIRV.

### **UNIT III**

1. Command, Control ,Communication and Intelligence (C<sub>3</sub> I)
2. Indian Policy and Problems of National Security.

### **UNIT IV**

1. Resource Base, Science, Technology and Industrial Growth
2. Defence and Development.

### **UNIT V**

1. Role of Defence Research and Production.
2. Concepts of Integrated Science Policy and its relevance for National Security.

### **Books Recommended**

1. Sameer K. Sen: Military technology on defence industrialization: The Indian Experience
2. Robert Jackson : Hi-Tech warfare
3. Air commodore (Dr) C. N.Ghosh : Future defence challenges: Armed forces of the 21st century

**DSO 403**

**Politics and Security of Indian Ocean**

**UNIT I**

1. Indian Ocean region as a concept of reality.
2. Coastal States, Hinterland states and Islands:
  - (i) The politico characteristics of the region.
  - (ii) Demographic survey.
  - (iii) The sub region.

**UNIT II**

1. Politicoal ,strategic, economic, and military importance of Indian Ocean
  - (i) Ideologies in Indian ocean.
  - (ii) Economic and strategic interdependence of the region.
  - (iii) Superpowers vs.middle powers and militarization of the region.
2. Strategic importance of the region.

**UNIT III**

1. Sub Regional Perspective:
  - (i) Persian gulf
  - (ii) Red sea and Horn of Africa.
  - (iii) Eastern and Southern Africa.
  - (iv) South Asia
2. Major sea routes in the region.

**UNIT IV**

1. Future Trends and prospects of security in the region.
2. Naval bases in the Indian Ocean area during the cold war and after.

**UNIT V**

1. Maritime strategy of India.
2. Aspects of co-operation in the Indian Ocean region.

**Books Recommended**

1. The Indian Ocean and the future of American power, Robert dDKaplan
2. Maritime forces in pursuit of national security Gurpreet S.Khurana.
3. India's Maritime security, Rahul Ray Chaudhary.
4. Seapower and Indian security, Rahul Ray Chaudhary.
5. Role of the coast in Maritime security of India, Prabhakaran Paleri.
6. An Indian ocean perspective ,National Maritime foundation publications

## **DSO 401**

## **International and National Terrorism**

### **UNIT I**

3. Terrorism: Definition, Meaning and concept.
4. Origin of Terrorism : Causes and factors.

### **UNIT II**

3. Major Terrorist Incidents.
4. Major Terrorist Groups

### **UNIT III**

3. Terrorism and National Security.
4. Terrorism and Regional Security.

### **UNIT IV**

3. Terrorism and International Peace.
4. Terrorism in 21<sup>st</sup> century with special reference to scientific and technological Development

### **UNIT V**

3. International, Regional and National efforts for removal of Terrorism.
4. Role of Peace Institutions for removal of Terrorism.

**DSO402**

**Science & Technology in War**

**UNIT I**

1. Science and society: Science, Technology and society in different historical contexts.
2. Technological breakthroughs and social changes.

**UNIT II**

1. Technology and interdependence : Structure of International Interdependence.
2. Transfer of technology.

**UNIT III**

1. Military Industrial Complex
2. Nuclear technology: First ,second and third generation technology.

**UNIT IV**

1. Space: Concepts and technology and their implications for security.
2. Communications, Marine technology

**UNIT V**

1. Role of chemical and biological technology and its linkage with military uses.
2. New military technologies: New conventional weapons

**Books Recommended**

1. Sameer K. Sen: Military technology on defence industrialization: The Indian Experience
2. Robert Jackson : Hi-Tech warfare
3. Air commodore (Dr) C. N.Ghosh : Future defence challenges: Armed forces of the 21st century

