



**H.N.B. GARHWAL UNIVERSITY SRINAGAR, GARHWAL  
(A CENTRAL UNIVERSITY)**

**(SCHOOL OF EARTH SCIENCE)  
DEPARTMENT OF DEFENCE, STRATEGIC AND  
GEOPOLITICAL STUDIES**

**SYLLABUS : CBCS SYSTEM**

**(B.A./B.Sc. in Defence and Strategic Studies)**

AS PER UGC

WEF: 2015-16

# H. N. B. Garhwal University

Syllabus as per CBCS Guideline

To be implemented w.e.f. 2015-16

## Defence and Strategic Studies

DISCIPLINE SPECIFIC COURSE

	<b>Credit</b>
<b>Core Paper I (411111) : Fundamentals of Defence and Strategic Studies (1<sup>st</sup> semester)</b>	04
<b>Practical Paper I (Paper Code: 411611)</b>	02
<b>Core Paper II (412111) : Defence Mechanism of India (2<sup>nd</sup> semester)</b>	04
<b>Practical Paper II (Paper Code: 412611)</b>	02
<b>Core Paper III (413111) : Fundamentals of India's National Security (3<sup>rd</sup> semester)</b>	04
<b>Practical Paper III (Paper Code: 413611)</b>	02
<b>Core Paper IV (414111) : Evolution of Strategic Thought (4<sup>th</sup> Semester)</b>	04
<b>Practical Paper IV (Paper Code: 414611)</b>	02

### ABILITY ENHANCEMENT COMPULSORY COURSES

1. English/MIL Communication (1<sup>st</sup> Semester)
2. Environmental Science (2<sup>nd</sup> Semester)

### DISCIPLINE SPECIFIC ELECTIVES: Defence and Strategic Studies (any two)

#### Semester V (Theory Paper Credit 04, Practical 02)

##### Any ONE of the following

1. Evolution of Art of War in India (Paper code: 415411) (DSE DSS-01)
2. Modern Warfare (Paper code: 415412) (DSE DSS-02)
3. Arms Control and Disarmament (Paper code: 415413) (DSE DSS-03)

**Practical Paper V (Paper code: 415811)**

#### Semester VI (Theory Paper Credit 04, Practical 02)

##### Any ONE of the following

1. International Relations and Organisation (Paper Code: 416411) (DSE DSS-01)
2. Evolution of Warfare in the Western World (Paper Code: 416412) (DSE DSS-02)
3. Military Geography (Paper Code: 416413) (DSE DSS-03)

**Practical Paper VI (Paper code: 416812)**

### **SKILL ENHANCEMENT COURSES (SEC) (Credit 02)**

(One paper each in 3<sup>rd</sup>, 4<sup>th</sup>, 5<sup>th</sup> and 6<sup>th</sup> semester for Defence and Strategic Studies)

1. Introduction to Journalism (Paper Code: 413311) (SEC DSS-01)
2. News and Content Analysis (Paper Code: 413312) (SEC DSS-02)
3. Basics of Defence Journalism (Paper Code: 413314) (SEC DSS-03)
4. Introduction to Information and Cyber Security (Paper Code: 413316) (SEC DSS-04)

### **GENERIC ELECTIVES (GE): Defence and Strategic Studies**

TWO of the following one each for V<sup>th</sup> and VI<sup>th</sup> semester (Credit 04 Each) One from Sl. 1 and 2 in V<sup>th</sup> and One from Sl. 3 and 4 in VI<sup>th</sup> semester.

1. Terrorism (Paper Code: 416511) (GE DSS-01)
2. International Law (Paper Code: 416512) (GE DSS-02)
3. Fundamentals of Disaster Management (Paper Code: 416513) (GE DSS-03)
4. Warfare and Technology (Paper Code: 416514) (GE DSS-04)

## **SYLLABUS OF B.A./B.Sc. 1<sup>st</sup> SEMESTER**

### **(Defence and Strategic Studies)**

#### **Core Paper I**

#### **DSE: Fundamentals of Defence and Strategic Studies**

#### **Core Paper: 411111**

(Credits: Theory-4, Practicals-2)

#### **Theory Paper**

**Course Outcome:** To introduce the discipline of Defence and Strategic Studies – its subjects contents – Contemporary Relevance; Importance to contemporary world development and relationship with other disciplines.

#### **1. Conceptual Formulation**

- a) Meaning and definition of Defence and Strategic Studies – Its relevance and significance, its relationship with other disciplines of study.
- b) Definition and meaning of basic concepts – War, Grand Strategy, Strategy, Tactics, Security and Defence.

#### **2. War: Historical Evolution, Features and Causes, Principles of War**

#### **3. Typology of Warfare:**

- a) Conventional and unconventional wars – Civil wars, Cold War, Guerilla war, Insurgency Limited war and Total war.
- b) ABC warfare – Atomic, Biological and Chemical warfare. WMDs

#### **4. Peace Conceptual Formulations:**

- a) Concept of peace – meaning and definition, typology of peace.
- b) Peace movements: Anti-nuclear Movements

#### **5. Mechanics of Peace:**

- a) Amicable means of Settlement of international disputes; ICJ.
- b) Role and functions of International Organizations – U.N.O.
- c) Concept of Peace, Peace Building, Peace Making, and Peace Keeping.

#### **SUGGESTED READINGS**

D.G.Chandler, The Atlas of Military Strategy: the art, theory and practice of war (London, 1980)  
Field Marshal, Montgomery, Viscount. A History of Warfare, (London: Collins, 1968).  
Fuller, J.F.C., The Foundation of the Science of War (London, 1925)  
Galtung, Johan., The Struggle for Peace, (Ahmedabad: Gujarat Vidyapeeth, 1986). Michael  
Howard, (ed), The Theory and Practice of War, 1965.  
Palit, D.K., Essentials of Military Knowledge, EBD Dehradun  
Philip, T.R., (ed), Roots of Strategy, 1943. 000  
Singh, L.J., Nature of War and North African Campaign (Hindi)

## **Practical-I**

### **DSC-P: MAP READING-I**

**Paper code: 411611**

**Course Outcome:** To understand the Map References, Conventional Signs, Scale etc.

- 1.** MAP its Definition, Characteristics, Classification, Marginal Information of a Topo-Sheet and its utility for Military.
- 2.** CONVENTIONAL SIGNS: Military and Geographical.
- 3.** GRID SYSTEM; Four figure and Six Figure Map References.
- 4.** SHEET NUMBER ; Million Sheets ‘Quarter inch sheets’ Half inch Sheets’ ‘One inch Sheet’ and index of Sheets.
- 5.** SCALE; Definition, three methods of representing scale, inter-conversion of Statement into R.F. Construction of Simple Scale line and the Comparative Scale lines.

### **BOOKS SUGGESTED**

Military Map Reading by Gale and polden.

Prakriyatmak Sanya Vigyan (Hindi) Vol-1 and II by

B.N.Maliwal.Sainik Manchitra Vigyan-M.P.Verma.

Samrik Manchitra pathan (Hindi) Professor-Hazari Lal.

## **SYLLABUS OF B.A./B.Sc. 2<sup>nd</sup> SEMESTER**

**(Defence and Strategic Studies)**

**Core Paper II**

**DSC: Defence Mechanism of India**

**Paper code: 412111**

(Credits: Theory-4, Practicals-2)

### **Theory Paper**

**Course Outcome:** The Defence of a country is structured on certain organizational pattern and mechanism. It is therefore essential to have a basic knowledge of them in the context of India.

#### **1. Higher Defence Organizations of India**

- a) Power of the President of India in relation of Defence.
- b) Role and function of Ministry of Defence.
- c) Composition and function of Cabinet Committee on Security, NSC, NSAB.
- d) Chief of Staff and joint service Organization.

#### **2. The Indian Defence Forces**

- a) Rank Structure of the Three Services.
- b) Recruitment methods for Defence Services.
- c) Important training Institution of the Three Services.
- d) Second line defence (introduction of BSF, CG, CISF, RR)

#### **3. Organization of Armed Forces**

- a) Organization of Army, Air force, Naval Headquarters (role of their Chiefs of Staff).
- b) Static and Field formation of Indian Army, Air Force, Navy.
- c) Important Weapons of Indian Army, Air Force, Navy.

#### **4. Intelligence**

- a) Agencies: their Organisation.
- b) Role of Intelligence agencies, their problems.
- c) Defence Intelligence Agency (DIA)

### **SUGGESTED READINGS**

Government of India, The Army of India and its Evolution, Calcutta, 1924.  
Ministry of Defence, Government of India, Indian Armed Forces Year Book, (Annual).  
Palit, D.K., Essentials of Military Knowledge, (New Delhi:1989)  
Singh, L.J., Defence Mechanism of Modern State (Hindi).  
Singh, Nagendra., Defence Mechanism of Modern State, (New Delhi:1967).  
Venkateswaran, A.L., Defence Organisation in India, New Delhi: Government of India, 1967.

**Practical - II**  
**DSC-P: MAP READING-II**  
**Paper code: 412611**

**Course Outcome:** To understand the functions of Liquid Prismatic Compass, Individual Compass Error and Service Protractor etc.

1. NORTH: ‘Types of North’ and finding out True North Direction by equal Altitude Method, Watch Method, Compass Method etc.
2. Bearing and Inter-conversions of Bearings in detail.
3. Liquid Prismatic Compass: functions of its various parts, and the following exercises on the Prismatic Compass:
  - a) To determine magnetic North by Compass.
  - b) Setting the MAP by Compass.
  - c) To find out the bearing of a point from other point situated on the ground.
  - d) To determine own’s and enemy’s position on the MAP by Re-section and Inter-section methods with the help of compass.
  - e) To set the compass in a particular direction for night march.
4. Determination of Individual Compass Error (ICE).
5. Service Protractor: Its types and uses.

**BOOKS SUGGESTED**

‘Prakriyatmak Sanya Vigyan’ (Hindi): Vol.-1 and II by B.N.Maliwal.  
‘Sainik Manchitra Vigyan’ M.P.Verma  
‘Samrik Manchitra Pathan’ (Hindi) Professor-Hazari Lal.  
Military Map Reading by Gale and Polden.

## **SYLLABUS OF B.A./B.Sc. 3<sup>rd</sup> SEMESTER**

### **(Defence and Strategic Studies)**

#### **Core Paper III**

#### **DSC: Fundamentals of India's National Security**

**Paper Code: 413111**

(Credits: Theory-4, Practicals-2)

#### **Theory Paper**

**Course Outcome:** To develop special subject knowledge on the vital concept of National Security and the approaches to achieve National Security (Special reference to India).

#### **1. Introduction**

- a) Definition, Scope and features of the Concept of National Security
- b) Concept of National Power – elements of national power (tangible and intangible)
- c) Fundamental factors, Values, goals and policies that determine National Security

#### **2. Foreign Policy and Defence Policy**

- a) Definition, Meaning, Scope and Determinants of Defence Policy
- b) Definition, Meaning, Scope, and Determinants of Foreign Policy
- c) Linkage between Foreign policy and Defence policy

#### **3. Threats to National Security**

- a) Meaning and Definition of Threat
- b) Threat Perception
- c) Types of threats and Threats to India

#### **4. Strategic Environment of India**

- a) Features of strategic environment – its scope in policy making.
- b) India's Strategic environment – Immediate Neighbors, Adjacent Regions, Indian ocean and Global structure.
- c) India's Military preparedness – Defence Budget, Force structure and organization.

#### **SUGGESTED READINGS**

Bajpai, U.S.,(ed) India's Security : The Politico-Strategic Environment, New Delhi :Lancers Books, 1983.

Barry, Buzon., People, State and Fear : The National Security Problems in International Relations, Sussex ; Wheatsheaf Books, 1983.

Dixit, J.N., Across Borders: Fifty Years of India's Foreign Policy, New Delhi: Picus Books, 1998.

Jayaramu, P.S., India's National Security and Foreign Policy, New Delhi: ABC Publishers, 1978.

Kaul, T.N., India and the New World Order, Vol. 1, New Delhi: Gyan, 2000.

Kux, Dennis, Estranged Democracies: India and the United States 1941 - 1991, New Delhi: Sage Publications, 1994.

Satish Kumar, (ed)., Yearbook on India's Foreign Policy, New Delhi : Deep and Deep,1993.Singh, L.J., National Defence and Security



**Practical-III**  
**DSC-P: MAP READING-III**  
**Paper code: 413611**

**Course Outcome:** To understand the Bearing, Methods, features and slope of Map reading etc.

1. SCALE: Construction of Time Scale and Diagonal Scale.
2. Bearing and Inter-Conversion of Bearing with I.C.E.
3. Finding Positions on the Gridded Map by Intersection Method and Resection Method.
4. Relief Features and their representation on the Map.
5. Types of slope and their representation on the Map by CONTOUR Lines.

**BOOKS SUGGESTED**

‘SAMRIK MANCHITRA PATHAN’ (Hindi) : Professor Hazari Lal : (1979) Part-1 and Part-II  
: Publisher: Shamrik Prakashan Kendra, 2/119, Shyam Nagar, ALIGARH (U.P).

Military Map Reading by Gale and Polden.

PRAKRIYATMAK SAINYA VIGYAN (Hindi) Part-1 and Part-II, By B.N.MALIWAL; (1968)  
EBD Publishing and Distributing Company 144, Rajpur Road, Dehradoon. OR Latest-Publisher  
of this Book is: Chandra Prakash and Brother, Kothi Road, HAPUR, Distt. Ghaziabad (UP).

Sainik Manchitra Vigyan : M.P.Verma, Aligarh (UP).

## **SYLLABUS OF B.A./B.Sc. 4<sup>th</sup> SEMESTER**

**(Defence and Strategic Studies)**

**Core Paper IV**

**DSC: Evolution of Strategic Thought**

**Paper Code: 414111**

(Credits: Theory-4, Practicals-2)

### **Theory Paper**

**Course Outcome:** The paper provides basic knowledge about the concepts of selected strategic thinkers and their relevance even during the present times. To make the students realize the value of strategic thought in policy formation.

#### **1. Introduction**

- a) Concept of strategic thought
- b) Kautilya's Philosophy of war
- c) Concept of Non – Violence by Gandhi

#### **2. Linkages between War and Politics**

- a) Concepts of Machiavelli
- b) Concepts of Jomini
- c) Concepts of Clausewitz

#### **3. Concepts on Land, Sea, and Air Power**

- a) J.F.C. Fuller
- b) B.H. Liddel Hart
- c) A.T. Mahan
- d) Douhet's theory of Air power

#### **4. Concept of Revolutionary Warfare**

- a) Marx
- b) Lenin
- c) Mao

#### **5. Nuclear Strategy**

- a) The impact of Nuclear weapons on strategy
- b) Strategy of Deterrence
- c) Nuclear Strategies since 1945

### **SUGGESTED READINGS**

Adhikari, S., Strategic Chintan (Hindi).

E.M. Earle (ed), Makers of Modern Strategy: Military Thought from Machiavelli to Hitler, 1948.

Fuller, J.F.C., The Foundations of the Science of War (London, 1925).

Murray, Williamson, Knox, MacGregor, and Bernstein, Alvin ( eds.) , The Making of Strategy, (Cambridge, 1994).

Paret, Peter (ed.), Makers of Modern Strategy , ( Princeton, 1986 )

John Baylis, Makers of Modern Strategy  
Singh, G.C., Strategic Chintan (Hindi).  
Singh, L.J., Kautilya's Philosophy of War (Hindi).  
Singh, L.J., Sainya Chintak.  
Tripathi, K.S., Evolution of Nuclear Strategy, (Delhi, 1980).  
Weller, Jac, Weapons and Tactics (London, 1966).

**Practical IV**  
**DSC-P: MAP READING-IV**  
**Paper code: 414611**

**Course Outcome:** To understand the Gradient, Field sketch, route report of map etc.

1. Gradient and Slope in Degrees.
2. To determine Inter-visibility between two points: Gradient Method, Sum Proportion Method and Section Drawing Method.
3. To draw a Field Sketch from a given route Report.
4. Enlargement and Reduction of Maps.
5. To prepare a Route Report from a given narrative data.

**BOOKS SUGGESTED**

‘SAMRIK MANCHITRA PATHAN’ (Hindi) : Professor Hazari Lal : (1979) Part-1 and Part-II : Publisher: Shamrik Prakashan Kendra, 2/119, Shyam Nagar, ALIGARH (U.P).

PRAKRIYATMAK SAINYA VIGYAN (Hindi) Part-1 and Part-II, By B.N.MALIWAL; (1968) EBD Publishing and Distributing Company 144, Rajpur Road, Dehradun. OR Latest-Publisher of this Book is : Chandra Prakash and Brother, Kothi Road, HAPUR, Distt. Ghaziabad (UP).

**SYLLABUS OF B.A./B.Sc. 5<sup>th</sup> SEMESTER**  
**(Defence and Strategic Studies)**  
**Core Paper V**  
**DSE DSS-01: Evolution of Art of War in India**  
**Paper Code: 415411**  
(Credits: Theory-4, Practicals-2)

**Theory Paper**

**Course Outcome:** This paper attempts to familiarize the students with evolution of art of warfare in India. It is to establish that the art of warfare changes with changes in political governance, nature of threat, and weapon systems.

**1. Warfare in Ancient India**

- a) Types of war during Vedic period.
- b) Alexander's invasion of India (battle of Hydaspas).

**2. Military System of the Mauryan Period**

- a) Military organizations of Maurayas
- b) Kautilya's Arthasastra philosophy on war, peace, fort, espionage, diplomacy.

**3. Military System of the Gupta Period**

- a) The Guptan military organization
- b) Military organization of Harshavardhana

**4. Rajput Military System**

- a) Mohd. Ghori's conquest of India (Battle of Tarrain I and II)
- b) Causes of Rajput failures in the middle ages.

**5. Military Systems of the Mughals**

- a) Foundation and Consolidation of the Mughal empire (Battle of Panipat I and II)
- b) The Mughal military organization, weapon system, art of war.

**6. The Maratha Military System**

- a) The military organization of Shivaji
- b) Development of guerilla warfare and its characteristics.

**7. The Sikh Military System**

- a) Rise of Sikhism and its philosophy.
- b) The Military Organizations of the Sikhs under Maharaja Ranjit Singh.

## 8. British Conquest of India

- a) The first war of Independence, the Great Mutiny 1857.
- b) The Military reforms under the Crown.

### SUGGESTED READINGS

Anjoli Nirmal, The Decisive Battles of Indian History, Jaipur: Pointer Publications,1999.  
Das, S.T., Indian Military: Its History and Development, Allahabad: Kitab Mahal,1979.  
Majumdar, R.C., An Advanced History of India, New York: St.Martin,1967.  
Malleon, G.B., The Decisive Battles of India, London: W.H.Allen,1885  
Roy, Koushik., From Hydespas to Kargil : A History of Warfare in India from 326 B.C. to A.D 1999, Delhi: Manohar,2004.  
Sarkar, Jadunath., Military History of India, Bombay: Orient Longmans,1970.  
Saxena, K.L.M., Military System of India-1850-1900, Delhi'1976.  
Singh, L.J., Indian Military History (Hindi).  
Singh, L.J., Kautilya's Philosophy of War (Hindi).  
Tandan, Aggarwal, Singh, Bharatiya Yudh Kala (Hindi).  
V.R.R. Dikshitar, Wars in Ancient India, 1948.  
Majumdar, B. K., Military History of India

### **PRACTICAL V: DSE-P(01)** **Practical Code: 415811**

**Course Outcome:** To understand the field craft, sand model, fire control order etc.

Elementary Tactics Upto-Infantry Platoon Level

1. Sand Model/ Chart preparing.
2. Detailed Study of an Infantry platoon including Organization Weapons and Equipments.
3. Study of Field Craft with reference to the following :
  - a) Ground
  - b) Cover
  - c) Camouflage
  - d) Concealment
  - e) Observation
4. Application of Fire, Fire Control and Fire Control Orders.
5. Tactical Formations-Section and Platoon.
6. Verbal Order.

## SYLLABUS OF B.A./B.Sc. 5<sup>th</sup> SEMESTER

(Defence and Strategic Studies)

Core Paper V

DSE DSS-02: Modern Warfare

Paper Code: 415412

(Credits: Theory-4, Practicals-2)

### Theory Paper

**Course Outcome:** This paper describes the various types of warfare that are taught in the world. Goal isto understand the different types of war waged by nations at large.

- 1. History of Warfare:** Feature of warfare at various historical stages –its contemporary features, Causes of Warfare
- 2. Psychological Warfare:** Nature, Definition, Techniques and Relevance in Present Times
- 3. Biological and Chemical Warfare:** Concept and objectives, Characteristics, Methods, Types of agents and Methods of Use, Recent Trends.
- 4. Guerilla Warfare:** Concept and objectives, Characteristics, Techniques, Elementary knowledge of Insurgency and Counter Insurgency
- 5. Economic Warfare:** Concept and objectives, Characteristics, Techniques.
- 6. Nuclear warfare:** Concept Origin, Effects of Nuclear War, WMDs, Elementary knowledge of Missiles
- 7. Warfare in independent India:**  
Briefly study of the causes, outline, result and lessons learnt of the following battles of Independent India
  - a) Kashmir Operations 1947-48
  - b) Chinese Aggression 1962
  - c) Indo-Pak Conflict 1965
  - d) Bangladesh Liberation War 1971
  - e) Kargil Operations 1999

### SUGGESTED READINGS

Asprey, R.B., War in the Shadows (London,1975)  
Brig. A.A.K. Choudary, September, 1965, Karachi: Oxford University Press, 1990.  
Brig. John, P. Dalvi, Himalayan Blunder, New Delhi: Nataraj, 1967.  
Brown, F.J., Chemical Warfare : a Study in Restraint, ( Princeton,1968)  
Fairbairn, G., Revolutionary Guerilla Warfare (Harmondsworth,1974)  
Gaurav, G.Sawant, Dateline Kargil, New Delhi: Vikas, 2007.  
Gen. V.P.Malik, Kargil : From Surprise yo Victory, New Delhi : Harper and Collins, 2006.  
Herbert Feis, The Atomic Bomb and the End of World War II (Princeton, 1966)

Kaul, B.N., Untold Story, Delhi : Allied, 1967.

Lawrence Freeman, The Evolution of Nuclear Strategy (London, 1981) Lt. Gen.

J.F.R. Jacob, Surrender of Dacca, New Delhi: Manohar, 1997.

Lt. Gen. A.A.K. Niazi, Betrayal of East Pakistan, Karachi: Oxford University Press, 1990.

Maj. Sitaram Johri, The Indo - Pakistan Conflict of 1965, Lucknow: Himalayas, 1967.

Maj. Gen. D.K. Palit, Lightning Campaign, New Delhi: Thompson Press, 1972.

Maliwal, B.N., Sthal Yuddh Kala.

Mankekar, D.R., 22 Fateful Days, New Delhi: Vikas, 1967.

Maxwell, Neville., India's China War, New Delhi: Orient Longman, 1972.

Menon, V.K. Krishna, India and the Chinese Invasion, Bombay: Contemporary, 1963.

Moosa, M., My Version, India - Pakistan War, 1965, Lahore, 1983.

Palit, D.K., War in High Himalaya: The Indian Army in Crisis, 1962, Delhi: Lancer, 1991.

Philip M. Taylor, Munitions of the Mind: War Propaganda from the Ancient World to the Nuclear Age, (Wellingborough, 1990)

Prasad, S.N., and Dharampal, History of Operations in Jammu and Kashmir, ( 1947 - 48 ), History Division, Ministry of Defence, Govt. of India, New Delhi, 1987.

Qualter, T.H., Propaganda and Psychological Warfare, (New York, 1962)

Singh, L.J., Nature of War and North African Campaign (Hindi).

Sinha, S.K., Operation Rescue - Military Operations in JandK 1947-48, Delhi : Vision, 1977.

SIPRI, The Problem of Chemical and Biological Warfare (4 Vols, New York, 1971)

The Kargil Committee Review Report, From Surprise to Reckoning, New Delhi: Sage, 2000.

Vice. Admiral N. Krishnan, No way but Surrender, Delhi: ABC Publishers, 1989.

Walter Laqueur, Guerilla, (London, 1977)

**SYLLABUS OF B.A./B.Sc. 5<sup>th</sup> SEMESTER**  
**(Defence and Strategic Studies)**  
**Core Paper V**  
**DSE DSS-03: Arms control and Disarmament**  
**Paper Code: 415413**  
(Credits: Theory-4, Practicals-2)

**Theory Paper**

**Course Outcome:** Arms Control Efforts from the formation of nation, State system is attempted in this paper. Efforts towards disarmament gained momentum after the Second World War which is portrayed in this paper.

**1. Introduction**

- a) Definition of Arms Control, Arms Limitations, Arms Reduction and Arms Trade.
- b) Differences between Arms Control, Arms Limitations, Arms Reduction and Arms Trade.
- c) Nature and Scope of Arms Control and Disarmament.

**2. From Treaty of Westphalia to World War – II**

- a) Efforts towards Disarmament from Treaty of Westphalia 1648 to the Outbreak of World War I
- b) Efforts towards Disarmament from World War I to the outbreak of World War II.

**3. UN and Disarmament**

- a) UN's Perception on Disarmament and Arms Control.
- b) Major efforts till the Disarmament Decade.
- c) Causes and failures.

**4. Disarmament Efforts – Success Story**

- a) PTBT, NNPT
- b) SALT I and II
- c) INF, START and Outer space.

**5. Disarmament Efforts by Other Bodies**

- a) NAM
- b) Nuclear Free Zones
- c) Efforts of India

**SUGGESTED READINGS**

Bhattachatya, D.C., International Relations Since the Twentieth Century, Kolkata: Vijaya Publishing House, 2001.

Cohen, S.P., Nuclear Proliferation in South Asia: The Prospects for Arms Control, New Delhi: Lancer, 1994.

Mistry, D., Containing Strategic Missile Proliferation, Seattle: University of Washington Press, 2005.

Pande, S., CTBT: India and the Nuclear Test Ban Treaty, New Delhi: Cosmo, 1994,

Pande, S., Future of NPT, New Delhi: Lancer, 1995.

Singh, L.J., Armaments and World Peace (Hindi).

Singh, L.J., Problems of War and Peace (Hindi).

Singh, L.J., Study of War (Hindi).

Subramaniam, K., Nuclear Proliferation and International Security, New Delhi: Lancer, 1986.



**SYLLABUS OF B.A./B.Sc. 6<sup>th</sup> SEMESTER**  
**(Defence and Strategic Studies)**  
**Core Paper VI**  
**DSE DSS-01: International Relations and Organisation**  
**Paper Code: 416411**  
(Credits: Theory-4, Practicals-2)

**Theory Paper**

**Course Outcome:** In the contemporary world the survival of the mankind is conditioned by the facts of war and peace. The conditions of war and peace are influenced by various actors, viz., State, non-state and international organizations. This paper introduces the students to all these factors.

**1. Introduction–Definition, Meaning and Scope of International Relations**

- a) State, Nation, Nation-state, Concepts and Features.
- b) National Power – Components of National Power – its scope.
- c) Approaches’ to international relations- Mainstream theories-Idealist and realist.

**2. Power Systems in International Relations**

- a) International Power Structure – Definition, Meaning, and Scope- Uni polar, Bi Polar and Multi Polar.
- b) Balance of Power – Meaning and Definition – Characteristics of Balance of Power; techniques of Balance of Power.
- c) Collective Security.

**3. Diplomacy and Foreign Policy**

- a) Diplomacy- Meaning, Definition, Objectives and Scope and Types of Diplomacy
- b) Foreign Policy- Meaning, Definition, Determinants of Foreign Policy
- c) National Interest- Meaning and Definitions.

**4. International Organization and Scope**

- a) International Organization – Origin, Growth and Functions
- b) The League of Nations – Origin, Organization, functions – failure of the League of Nations.
- c) The UNO – Origin, Aim, Structure, Scope and Functions.

**5. Regional Organization**

- a) Origin, Development and functions of Regional Organizations- Its relevance and utility.
- b) SAARC – Origin, Objectives, Development and Functions.
- c) ASEAN- Origin, Objectives, Developments and Functions.
- d) Basic understanding of the E U.

## **SUGGESTED READINGS**

- Chatterjee, Aneek., International Relations Today : Concept and Applications, New Delhi: Pearson,2010.
- Frankel, J., International Relations in a Changong World, London: Oxford University Press, 1977.
- Jackson, R. and G.Sorensen, Introduction to International Relations: Theory and Approaches, Oxford: Oxford University Press, 2003.
- Jain and Pant, International Relations (Hindi).
- Johari, J.C., International Relations and Politics, New Delhi: Sterling Publishers, 1985.
- Kumar Mahendra, Theoretical Aspects of International Politics (Hindi).
- Kumar Mahendra, Theoretical Aspects of International Politics.
- Nicholson,M., International Relations : A Concise Introduction, New York : Palgrave,2002.
- Pahadia, B.L., Antarrashtriya Rajneeti.
- Palmer, N.D. and H.C.Perkins, International Relations, Boston: Houghton Mifflin,1953.
- Sharma, P.D., Antarrashtriya Rajneeti Ke Siddhantik Tatva.
- Singh, L.J., War and International Relations since 1945 (Hindi).

## **PRACTICAL VI: DSE-P**

**Paper Code: 416812**

1. Written Project Work on any issue of National/International importance.
2. Presentation and Group Discussion

**SYLLABUS OF B.A./B.Sc. 6<sup>th</sup> SEMESTER**  
**(Defence and Strategic Studies)**  
**Core Paper VI**  
**DSE DSS-02: Evolution of Warfare in the Western World**  
**Paper Code: 416412**  
(Credits: Theory-4, Practicals-2)

**Theory Paper**

**Course Outcome:** The paper outlines the wars which were fought from 4th century BC to World War II. On completion of the paper, the students will be in a position to analyse the cause for war in modern period.

1. Greek Military system with reference to the Battle of Arbella.
2. Brief study of Military System of the Romans with reference to the Battle of Cannae.
3. Warfare in the Middle Ages: Advent of gun powder and its impact on warfare, Battle of Crecy
4. **Warfare During 16th and 17th Centuries :** Development of weapons, Reforms of Gustavus Adolphus, Siege craft and fortification (Vauban), Rise of Professional Armies and Navies
5. **Napoleonic warfare:** French Revolution – causes and outcome, Rise of Napoleon, Napoleon's Art of Warfare, Battles of Trafalgar and Waterloo
6. **American Military Experience:** American war of Independence (1776-1782), American Civil war (1861-1865)
7. **World War - I :** Causes, Trench warfare, Emergence of Mobile warfare (Battles of Somme and Cambrai).
8. **World War - II:** Causes, Development of armored warfare and Blitzkrieg attack, Desert warfare. Use of Atom Bomb and its impact

**SUGGESTED READINGS**

Andre Corviser, (ed.), A Dictionary of Military History, Oxford: Blackwell Publishers, 1994.  
Dupey and Dupey, Encyclopaedia of Military History.  
Fuller, J.F.C., A Military History of the Western World, New York: Funk and Wagnalls Company, 1955.  
Howard, Michael., War in European History, Oxford: Oxford University Press, 1977.  
Keegan, John., A History of Warfare, New York: Vintage, 1993.  
Neilberg, Michael, S., Warfare in World History, London / New York : Routledge, 2001.  
Singh, L.J., Armaments and World Peace (Hindi).  
Singh, L.J., Western Military History (Hindi).

## SYLLABUS OF B.A./B.Sc. 6<sup>th</sup> SEMESTER

(Defence and Strategic Studies)

Core Paper-VI

DSE DSS-03: Military Geography

Paper Code: 416413

(Credits: Theory-4, Practicals-2)

### Theory Paper

**Course Outcome:** The paper attempts to understand the military geography, its evolution and Indian foreign policy with applied military geography.

#### **1. Introduction**

- a) Meaning and nature of Military Geography.
- b) Scope of Military Geography.
- c) Elements of Military Geography- Earth size, shape, location, climate, topography and population.

#### **2. Evolution of Military Geography.**

- a) History and Development.
- b) Founders of Military Geography - F. Ratzel, A.T. Mahan,
- c) Sir. Halfred Mackinder, Karl Haushofer, N.J. Spykman.

#### **3. Inter-State relations and Geographical factors.**

- a) Frontiers and Boundaries- meaning and differences; types; boundary making and function.
- b) Communication routes- land, sea and aerial- strategic scope.
- c) Population and Power.

#### **4. Geography and Foreign Policy of India.**

- a) India's Geo-strategic significance-location, size, shape, climate, topography, resources.
- b) India's borders- nature and characteristics of land border; maritime boundary.
- c) Indian Ocean territory and strategic significance.

#### **5. Applied Military Geography.**

- a) Global Positioning System (GPS).
- b) Global Information System (GIS).
- c) Remote Sensing.

### **SUGGESTED READINGS**

Black, Jeremy, Cambridge Illustrated Atlas, Warfare, Renaissance to Revolution: 1492- 1792, (Cambridge: Cambridge University Press,1996).

Chandler, David G., Atlas of Military Strategy: The Art, Theory and Practice of War, 1618-1878, (1980 reprint, London: Arms and Armour,1996)

Das, S.T., Geo-Strategies, Allahabad:Kitab Mahal,1985.

William D Puleston, The Life and Work of Alfred Thayer Mahan, U.N.S. (New Haven, CT,1939) 5) Earl Meade, Edward, Makers of Modern Strategy: Military Thought from Maciavelli to Hitler,1948.

**CBCS**  
**SKILL ENHANCEMENT COURSES**  
**(Defence and Strategic Studies)**

**SEC (DSS-01): INTRODUCTION TO JOURNALISM**  
**(One each in 3rd, 4th, 5th, and 6th semester)**  
**Paper Code: 413311**  
**(Credits 2)**

**SKILL PAPER(01)**

**Course Outcome:** This movies background to the source. The History of Journalism is provided as a back drop, against which the emergence of Press council of India (PCI) is outlined

**1. Basics of Journalism**

- a) Meaning, Definition and the concept of Journalism
- b) Qualities of a Journalism
- c) Ethics of Journalism

**2. Journalism – History and Trends**

- a) Growth of Journalism
- b) Industrialization of the press : 1880 – 1920
- c) Electronics and electronic changes : 1920 – 1950

**3. The Press council of India**

- a) Emergence of the press council of India
- b) Powers and functions of the press council of India
- c) Role of the press council in India

**SUGGESTED READINGS**

Menon, P.K., Practical Journalism, Jaipur: Aavishkar Publishers and Distributors, 2005.

Dhara,R., Journalism, Calcutta : Industry Publishers,1945.

Basu, R.N., Handbook of Journalism, Jaipur: Pointer Publishers, 2005.

Kamath,M.V., The Journalist's Handbook, New Delhi : Vikas,1980.

Professional Journalism, New Delhi: Vikas, 1983.

**CBCS**  
**SKILL ENHANCEMENT COURSES**  
**(Defence and Strategic Studies)**

**SEC (DSS-02): NEWS AND CONTENT ANALYSIS**  
**(One each in 3rd, 4th, 5th, and 6th semester)**  
**Paper Code: 413312**  
**(Credits 2)**

**SKILL PAPER (02)**

**Course Outcome:** This paper attempts at explaining the fundamental components of journalism – theNews it also outlines the News Writing Procedures.

**1. Defining News**

- a) The ingredients of News
- b) Sources of News
- c) Reporting

**2. News Content**

- a) Headlines
- b) Columns
- c) Features (Art, Entertainment, sports etc )

**3. News Writing Procedures**

- a) The paper and Headings
- b) Brief paragraphing and Readability
- c) Unusual or incorrect material

**4. Newspaper**

- a) Making up the Newspaper and aids to clarity
- b) Editorials
- c) Editorial Policy

**SUGGESTED READINGS**

Basu, R.N., News Reporting, Jaipur: Aavishkar Publishers, 2005.  
Menon, P.K., Electronic Media and Broadcasting, Jaipur: Aavishkar Publishers, 2006.  
Ganesh, T.K., News Reporting and Editing in Digital Age, Delhi: GNOSIS, 2006.  
Cambell, Laurence Raudolph, How to Report and Write News, New Delhi: 1961.

**CBCS**  
**SKILL ENHANCEMENT COURSES**  
**(Defence and Strategic Studies)**

**SEC (DSS-03): BASICS OF DEFENCE JOURNALISM**  
**(One each in 3rd, 4th, 5th, and 6th semester)**  
**Paper Code: 413314**  
**(Credits 2)**

**SKILL PAPER(03)**

**Course Outcome:** To prepare the students in handling a specialized field of journalism i.e. defencejournalism

**1. Introduction**

- a) Defence Journalism – its features
- b) Civil Journalism and Defence journalism differences
- c) Defence Journalism – As a Profession

**2. Defence News**

- a) Meaning and Defining Defence News
- b) Kinds of Sources of defence News
- c) Defence Writing Procedure

**3. Defence Reporting**

- a) Forms – Eye witness, computer assigned features
- b) Concept of Graphics and Animation (Role of Modern Technology)
- c) Problem in Defence Writing – Political Pressure Official Secrecy – etc.,

**4. Defence Terminology**

- a) Defence terms and Abbreviations
- b) Military terms – Weapons, Weapons system
- c) Defence organization – Rank and Rank structure in the services in India

**SUGGESTED READINGS**

Bhatt, S.C., Practical Journalism, Jaipur: Aavishkar, 2005.  
Chatterjee, R.K., Mass Communication, New Delhi: National Book Trust, 1973.  
Dhara, R., Journalism, Calcutta: Industry Publishers, 1945.  
Waren, K Agrie., (ed)., The Press and the Public Interest, Washington, D.C.: Public Affairs Press, 1968.

**CBCS**  
**SKILL ENHANCEMENT COURSES**  
**(Defence and Strategic Studies)**

**SEC (DSS-04): INTRODUCTION TO INFORMATION AND CYBER SECURITY**  
**(One each in 3rd, 4th, 5th, and 6th semester)**  
**Paper Code: 413316**  
**(Credits 2)**

**SKILL PAPER(04)**

**Course Outcome:** Paper disseminates the knowledge about the threats, preventions, laws and developments in cyber security.

**1. Information Security**

- a) Classification System
- b) Protective Measures
- c) Investigations
- d) Responsibilities

**2. Information Security Management**

- a) Information Security and Personal Practices

**3. Cyber Security**

- a) Threats
- b) Counter Measures

**4. Laws of Cyber Security**

- (a) Indian Laws on Cyber Security
- (b) Management of Cyber Security

**SUGGESTED READINGS**

Pavan Duggal, Textbook On Cyber Law, Universal Law Publishing co.; 2 edition, 2016

Aparna Viswanathan, Cyber Law- Indian And International Perspectives On Key Topics Including Data Security, E-Commerce, Cloud Computing And Cyber Crimes, Lexis Nexis; First edition 2012



**CBCS**  
**GENERIC ELECTIVE**  
**(Defence and Strategic Studies)**

**GE (DSS-01): TERRORISM**  
**(One each in 3rd, 4th, 5th, and 6th semester)**  
**Paper Code: 416511**  
**(Credits 2)**

**SKILL PAPER(01)**

**Course Outcome:** The paper introduces the concept of terrorism, types and causes prevailing in today's world. Course helps to understand the insurgency, naxalite, and extremism.

**1. Introduction**

- a) Definition and meaning of Terrorism.
- b) History of Terrorism.
- c) Nature and Tactics of Terrorism.

**2. Terrorism in perspective**

- a) Causes of Terrorism.
- b) Types of Terrorism.
- c) Levels of Terrorism.

**3. Terrorism and India**

- a) Kashmir- Cross-border terrorism
- b) Terrorism in North-East India.
- c) Major Terrorism attacks

**4. Left-Wing Extremism in India**

- a) Naxalite Movement
- b) Growth of Maoist Insurgency
- c) Red Corridor

**SUGGESTED READINGS**

B.P.Singh, Sehgal, Global Terrorism: Socio-Political and Legal Dimensions, New Delhi: Deep and Deep Publications, 1996.

Virender Grover, (ed)., Encyclopedias of International Terrorism: Terrorism, History and Development, Vol.1, New Delhi; Deep and Deep Publications, 2002.

Virender Grover, (ed)., Encyclopedias of International Terrorism: Terrorism in World Countries, Vol.2, New Delhi: Deep and Deep Publications, 2002.

Walter Laqueur, Terrorism, Boston: Little Brown and Co., 1977.

Yonah Alexander, David Carton and Paul Wilkinson, Terrorism: Theory and Practice, Colorado: West View Press, 1979.

**CBCS**  
**GENERIC ELECTIVE**  
**(Defence and Strategic Studies)**

**GE (DSS-02): INTERNATIONAL LAW**  
**(One each in 3rd, 4th, 5th, and 6th semester)**  
**Paper Code: 416512**  
(Credits 2)

**SKILL PAPER(02)**

**Course Outcome:** The course outlines the international disputes, Laws of Land warfare, Maritime warfare, Aerial warfare and related developments etc.

**1. Introduction**

- a) Definition of International Law – Its history and development
- b) Nature, source and codification

**2. Laws of war**

- a) War – Its legal character and effects
- b) Forcible means of settlement of international disputes
- c) Laws of Land warfare, Maritime warfare and Aerial warfare

**3. Laws of Neutrality**

- a) Basic understanding of laws of neutrality
- b) Contraband and Doctrine of Continuous Voyage

**4. Legal Mechanism**

- a) Blockade- Concept and establishment
- b) Role and functions of International Court of Justice

**SUGGESTED READINGS**

Chavan, R.S., An Approach to International Law, New Delhi: Sterling, 1971.

Kapoor, S.K., International Law, Allahabad; Allahabad Law Agency, 1989.

Oppenheim, International Law.

Starke, J., An Introduction to International Law.

Tandon, M.P, and Rajesh Tandon, An Introduction of International Law, Allahabad: Allahabad Law Agency, 1987.

**CBCS**  
**GENERIC ELECTIVE**  
**(Defence and Strategic Studies)**

**GE (DSS-03): FUNDAMENTALS OF DISASTER MANAGEMENT**  
**(One each in 3rd, 4th, 5th, and 6th semester)**  
**Paper Code: 416513**  
**(Credits 2)**

**SKILL PAPER(03)**

**Course Outcome:** The course will provide general insight to understand disaster management and approaches including appraising on disaster, typology and management along with various approaches.

**1. Disaster Management**

- a) Concept and Significance
- b) Approaches to Disaster Management-Elements, Rationale and Objectives

**2. Typology of Disaster**

- a) Natural Disaster
- b) Manmade Disaster

**3. Policy**

- a) National Disaster Management Policy
- b) Options and significance

**4. Elements of Disaster Management**

- a) Rescue
- b) Relief
- c) Rehabilitation
- d) Mitigation

**5. Disaster and War**

- a) Socio-economic effects,
- b) Health and environmental effects.

**SUGGESTED READINGS**

Bourriau, Janine; Understanding Catastrophe; Cambridge University Press, Cambridge, 1992.  
Carter, W. Nick; Disaster Management – A Disaster Manager’s Handbook, A.D.B., Manilla, Philippines, 1991.  
Coppola, P. Damon, Introduction to International Disaster Management, Elsevier, Oxford, 2006.  
Garlake, Teresa, Dealing with Disasters, Oxfam, Oxford, 2000.  
Goel SL and Ram Kumar, Disaster Management, Deep and Deep Publications, New Delhi, 2001.  
Goel, S.L. Encyclopedia of Disaster Management, Deep and Deep Publications, New Delhi, 2006.  
Keller, A Edward, Environmental Geology, Prentice Hall, New Delhi, 2010. Monappa, K.C., Disaster Preparedness Akshay Public Agencies, New Delhi, 2004.

**CBCS**  
**GENERIC ELECTIVE**  
**(Defence and Strategic Studies)**

**GE (DSS-04): WARFARE AND TECHNOLOGY**  
**(One each in 3rd, 4th, 5th, and 6th semester)**  
**Paper Code: 416514**  
**(Credits 2)**

**SKILL PAPER(04)**

**Course Outcome:** The paper focuses to impart knowledge on Evolution of Science & Technology, Space technology, and new technologies- IC- Engine, Radio, Electricity, and Radar etc.

**1. Introduction**

- a) Historical evolution of warfare.
- b) Evolution of Science and Technology.

**2. Science and technology and its Scope.**

- a) Industrial revolution and new technologies- IC- Engine, Radio, Electricity, and Radar.
- b) Emerging Technologies- Nuclear science, Oceanography, Space technology and electronics, UAVs.

**3. Emerging Technologies and Warfare**

- a) Information Technology and communication warfare.
- b) R M A - revolution in military affairs.

**4. Weapons Technology and India.**

- a) Pioneering institutions and its contributions.
- b) Science and Technology Policy of India.
- c) D R D O - its role in weapons development.

**SUGGESTED READINGS**

Ajey Lele, Strategic Technology for the Military, New Delhi: Sage, 2009.  
Buzon, Barry., An Introduction to Strategic Studies: Military Technology and International Relations, New York: St. Martin Press, 1987.  
Gopalakrishnan, K.V., Impact of Science and Technology on Warfare, New Delhi: National Book Trust, 2003.  
Kelin, John., Space Warfare: Strategy, Principles and Policy' London: Routledge, 2006.  
Nair, K.K., Space the Frontier of Modern Defence, New Delhi: Knowledge World, 2006.  
Pruthi, R.K.(ed)., Robotic Warfare, Delhi: Prashant Publishing House, 2009.  
Rappert, Brain (ed)., Technology and Security: Governing Threats in the New Millennium, New York: Hamshire, Palgrave Macmillan, 2007.