



Defence, Strategic and Geo Political Studies (School of Earth Science)
(School of Earth Science)
SECOND YEAR (Degree Course)

SEMESTER	PAPER CATEGORY	CREDITS	PAPER TITLE	PAPER CODE
SEMESTER - III	Core Subject A	04	Fundamentals of India's National Security	CCDSS 03
	Core Subject B	06	-	
	LAB-Practical	02	Practical	CCDSP 03
	Additional Interdisciplinary/Multidisciplinary	04	Cyber Security and Artificial Intelligence	AIMDSS 03
	Skill Course	02	Basics of Defence Journalism	SCDSS 03
	IKS - 1	02	Indian Knowledge System	
SEMESTER - IV	Core Subject A	04	Economic Aspects of National Security	CCDSS 04
	Core Subject B	06	-	
	LAB-Practical	02	Practical	CCDSP 04
	Additional Interdisciplinary/Multidisciplinary	04	Human Rights and Humanitarian Law	AIMDSS 04
	Skill Course	02	Introduction to Industrial Security Management	SCDSS 04
	IKS - 2	02	Indian Knowledge System	



Defence, Strategic and Geo Political Studies (School of Earth Science)
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THIRD YEAR (Degree Course)

SEMESTER	PAPER CATEGORY	CREDITS	PAPER TITLE	PAPER CODE
SEMESTER - V	Core Subject A	04	Defence Mechanism of India	CCDSSA 05
	Core Subject B	06	-	
	LAB-Practical	02	Practical	CCDSP 05
	Vocational Course/Field Visit/ Entrepreneurship Skills	04	Border Management	VC/FV/ESDSS 01
	Extracurricular Course/Compulsory Course	02	Cultural, Traditional, and Moral Values	
	Languages-I	02	(Indian, Modern, Regional Language-I)	
SEMESTER - VI	Core Subject A	04	Evolution of Strategic Thought	CCDSSA 06
	Core Subject B	06	-	
	LAB-Practical	02	Practical	CCDSP 06
	Vocational Course/Field Visit/ Entrepreneurship Skills Based on CS-1 or CS-2	04	Defence Tourism	VC/FV/ESDSS 02
	Communication Skills /CC	02	Based on Developing Soft Skills	
	Languages-II	02	Indian, Modern, Regional Language-II	

SECOND YEAR (DIPLOMA COURSE)
SEMESTER-III
FUNDAMENTALS OF INDIA'S NATIONAL SECURITY

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

Unit-I 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.

Unit-II Foreign Policy and Defence Policy.

- A. Definition, Meaning, Scope & Determinants of Defence Policy.
- B. Definition, Meaning, Scope, & Determinants of Foreign Policy.
- C. Linkage between Foreign policy and Defence policy.

Unit-III Threats to National Security.

- A. Meaning and Definition of Threat.
- B. Threat Perception.
- C. Types of threats and Threats to India.

Unit-IV Strategic Environment of India.

- A. Features of strategic environment – its scope in policy making.
- B. India's Strategic environment - Immediate Neighbours, Adjacent Regions, Indian Ocean.

Suggested Readings:

1. Bajpai, U.S. (ed) India's Security : The Politico-Strategic Environment, New Delhi :Lancers Books, 1983.
2. Barry, Buzon., People, State and Fear : The National Security Problems in International Relations, Sussex ; Wheatsheaf Books, 1983.
3. Dixit, J.N., Across Borders: Fifty Years of India's Foreign Policy, New Delhi: Picus Books, 1998.
4. Jayaramu, P.S., India's National Security and Foreign Policy, New Delhi: ABC Publishers, 1978.
5. Kaul, T.N., India and the New World Order, Vol. 1, New Delhi: Gyan, 2000,
6. Kux, Dennis, Estranged Democracies: India and the United States 1941 - 1991, New Delhi: Sage Publications, 1994.
7. Satish Kumar, (ed), Yearbook on India's Foreign Policy, New Delhi : Deep & Deep, 1993.
8. Singh, L.J., National Defence and Security
9. Singh, L.J., National Security.
10. Singh, L.J., Nature of War and North African Campaign (Hindi).

SECOND YEAR (DIPLOMA COURSE)**SEMESTER-III****PRACTICAL**

Programme/Class: Diploma Course	Year: Second	Semester: III
Total No. of Lectures-Tutorials-Practical-30 (60 hours)		
Unit	Topic	No. of Lectures
I	Relief Features and their representation on the map.	06
II	Types of slopes and their representation on the map	08
III	Gradient – Determination of gradients.	06
IV	Inter visibility – Determination of inter visibility in case of rise or fall of slope.	10
This course can be opted as an elective by the students of following subjects: Open for all		
Suggested Continuous Evaluation Methods: Test with multiple choice questions/short and long answer questions,orRecord ,Viva Voce		

SECOND YEAR (DIPLOMA COURSE)
SEMESTER-III
CYBER SECURITY AND ARTIFICIAL INTELLIGENCE

Unit-I Information Security.

- A. Classification Security.
- B. Protective Measures.
- C. Investigation.
- D. Responsibility

Unit-II Information and Cyber Security Management.

- A. Information Security and Personal Practices.
- B. Threats and Counter Measures.

Unit-III Laws of Cyber Security.

- A. Indian Laws on Cyber Security.
- B. Management of Cyber Security.

Unit-IV Introduction and Basic concept of Artificial Intelligence.

- A. Meaning and Definition.
- B. Utility of Artificial Intelligence.

Unit-V Artificial Intelligence and National Security.

- A. Use of Artificial Intelligence in Armed Forces.
- B. Artificial intelligence in Military control and Military Operations.
- C. Role of Artificial Intelligence in National Security.

Suggested Readings:

1. Pavan Duggal, Textbook On Cyber Law, Tiniversal Law Publishing co, 2 edition, 2016 .
2. Aparna Viswanathan, Cyber Law- Indian And International Perspectives On Key.
3. Topics including Data security, E-Commerce, Cloud Computing And Cyber Crimes, Lexis Nexis; First edition 2012
4. Artificial Intelligence Sharbani Bhattacharya, University Science Pres, edition 2009
5. Artificial intelligence, Pankaj Sharma SK Kataria & e Sons edition 2009

SECOND YEAR (DIPLOMA COURSE)
SEMESTER-III
BASICS OF DEFENCE JOURNALISM

Objective : To Prepare the students in handling a specialized field of journalism i.e. defence journalism

Unit-I Introduction.

- A. Defence Journalism - its features.
- B. Civil Journalism & Defence journalism differences.
- C. Defence Writing - Need for specialist.
- D. Defence Journalism – As a Profession.

Unit-III Defence News.

- A. Meaning and Defining Defence News.
- B. Kinds of Sources of defence News.
- C. Defence Writing Procedure.

Unit-IV Defence Reporting.

- A. Format languages and grammar.
- B. Forms - Eye witness, computer assigned features.
- C. Concept of Graphics and Animation (Role of Modern Technology).

Unit-V Defence Terminology.

- A. Defence terms & Abbreviations.
- B. Military terms – Weapons, Weapons system.
- C. Defence organization - Rank and Rank structure in the services in India.

Suggested Readings:

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

SECOND YEAR (DIPLOMA COURSE)
SEMESTER- IV
ECONOMIC ASPECTS OF NATIONAL SECURITY

Objective: After undergoing this course a student will be in a position to Mutual complementarities of economics and security would be learnt through this course. Also students learn the art of mobilizing resources for war, be it physical, fiscal or moral; and The importance of Logistics in War and the role of Defence Planning, Programming and Budgeting in India.

Unit-I Defence Economics: Meaning, Definition and Scope.

Unit-II Defence and Development: Concept and its implications for India;

Unit-III Economic Warfare; Effects of War on National Economy.

Unit-IV Assessment of War Potential (Resources of War) of a nation;

Unit-V Mobilization of Resources for War with reference to Physical, Fiscal and Moral Mobilization.

Unit-VI Importance of Logistics in War.

Unit-VII Defence Planning, Programming and Budgeting in India.

Suggested Readings:

1. Ghosh, A. K., (1996) India's Defence Budget and Expenditure Management in wider Context, Lancer, New Delhi.
2. Clark, J.J., (1996) The New Economics of National Defence, Random House.
3. Jack, D.T., (1940) Studies in Economic Warfare, PS King & Sons, London.
4. Jalan, B. (2000) India's economic policy- preparing for 21st century, Penguin, New Delhi.
5. Knor, Klaus, (1962) War Potential of the Nations, Princeton University Press.
6. Mathews, Ron, (1998) Defence production in India, ABC Publishers, New Delhi.
7. Sandler T., Hartley K, (1995) The Economics of Defence, Cambridge University Press.
8. Singh Jasjit, (2001) India's Defence Spending, Knowledge World, New Delhi.
9. Subramanyam, K, (1972) Perspective in Defence Planning, Abhinav Publications, New Delhi.
10. Subramanyam, K, (1973) Defence and Development, Minerva, Calcutta.
11. Thomas, Raju G. C., (1978) The Defence of India: A Budgetary Perspective of Strategy and Politics, Macmillan, Bombay.

SECOND YEAR (DIPLOMA COURSE)**SEMESTER- IV****PRACTICAL**

Programme/Class: Diploma Course	Year: Second	Semester: IV
Total No. of Lectures-Tutorials-Practical-30 (60 hours)		
Unit	Topic	No. of Lectures
I	Liquid Prismatic Compass (LPC): Features and functions of its various parts: Attempt following exercise on the LPC: To determine magnetic north; Setting of the Map.	10
II	To determine one's and enemy's position on the map by resection and intersection methods with the help of compass.	06
III	Different method of marching in day and night	04
IV	Compass variation and Determination of individual compass error. (ICE)	04
V	To find out the bearing of a point from other point situated on the ground.	06
This course can be opted as an elective by the students of following subjects: Open for all		
Suggested Continuous Evaluation Methods: Test with multiple choice questions/short and long answer questions or Record ,Viva Voce		

SECOND YEAR (DIPLOMA COURSE)
SEMESTER- IV
HUMAN RIGHTS AND HUMANITARIAN LAW

Unit-I Definition and evolution of the concept.

- A. Meaning, Nature and Development.
- B. Three Generation Rights.

Unit-II United Nations & Human Rights.

- A. UN Charter and the Universal Declaration of Human Rights.
- B. International Conventions and Covenants.

Unit-III Indian Perspective.

- A. Human Rights in Indian tradition- Civil, Political, Economic, Cultural Rights
Women's Rights.
- B. Constitutional & Legal framework in India- Human Rights Commission & Special
Commission for weaker section.

Unit-IV Issues and Challenges.

- A. Human Rights and challenges - ethnic conflict, social & political violence,
terrorism, environmental sources.
- B. Rights of Refugees.
- C. Internally Displaced people.

Suggested Readings:

1. Bajwa, G.S., Human Rights in India : Implementations and Violations, New Delhi :Sterling, 1995.
2. Deshta, S., Deshta, K., Fundamental Human Rights, New Delhi : Deep & Deep, 2003.
3. Donnelly, Jack., The Concept of Human Rights, New York : St.Martin, 1985.
4. Gibson, John, S., Dictionary of International Human Rights Law, Lanham, MD: Scarecrow Press, 1996.
5. Mehta, P.L., Verma,N., Human Rights Under the Indian Constitution, New Delhi : Deep & Deep, 1999.
6. Sehgal, B.P.S., Human Rights in India : Problems and Prospects, New Delhi : Deep & Deep' 2004

SECOND YEAR (DIPLOMA COURSE)
SEMESTER- IV
INTRODUCTION TO INDUSTRIAL SECURITY MANAGEMENT

Unit-I Security: Conceptual Aspects.

- A. Introduction.
- B. Security: Definition, Meaning and Scope/Concepts.
- C. Type of Security.
- D. Type of security Service.
- E. Role of private Security Service.

Unit-II Functions of security.

- A. Preventive Security.
- B. Protective Security.
- C. Detective security.
- D. Punitive security.

Unit-III Security Awareness.

- A. Introduction, Concept, Scope and Nature.
- B. The Security Awareness program.

Unit-IV Access control system.

- A. Varieties and access controls.
- B. Electronic security system.
- C. Prevention of mischief and sabotage.

Suggested Readings:

1. Sharma R.P. (2005), Industrial Security Management.
2. Subramanian. S. (2006), Industrial Security Management.
3. Russell, David L., Arlow, Pieter C. (2015), Industrial Security : Managing Security in the 21th Century.
4. Burstein, Harvey, (1986), Industrial Security Management.
5. Mcerie, Robert (2011), Security Operations Management.
6. Landucci Gabriele, Khakzad Nima, Reniers (2020), Physical Security in the Process Industry: Theory with Applications.

THIRD YEAR (DEGREE COURSE)
SEMESTER-V
DEFENCE MECHANISM OF INDIA

Course Objectives: This paper aims to explore India's defence architecture by examining the structure and roles of its higher defence organisations, the Army, Navy, and Air Force. It seeks to outline their doctrines, histories, recruitment, training, and key platforms. Additionally, it will analyse joint structures and central armed police forces like the BSF and CRPF. This paper strives to provide a clear, engaging overview of India's defence framework and its critical role in ensuring national security.

UNIT I: HIGHER DEFENCE ORGANISATIONS OF INDIA.

1. Power of the President of India in relation of Defence.
2. CCS, NSA and NSAB: Roles and Composition
3. Ministry of Defence: Role, Historical Evolution and Organisational Structure.

UNIT II: INDIAN ARMY

1. Role, Doctrine and Brief History
2. Recruitment Policies and Training Establishments
3. Rank Structure, Organisational Structure, Arms and Services, Units and Formations
4. Major Combat and Support Platforms

UNIT III: INDIAN AIR FORCE

1. Role, Doctrine and Brief History
2. Recruitment Policies and Training Establishments
3. Rank Structure, Organisational Structure, Units and Establishments
4. Major Aviation and Support Platforms

UNIT IV: INDIAN NAVY

1. Role, Doctrine and Brief History
2. Recruitment Policies and Training Establishments
3. Rank Structure, Organisational Structure, Branches, Units and Establishments
4. Major Naval, Aviation and Support Platforms

UNIT-V: JOINT STRUCTURES, PARAMILITARY AND CAPFS

1. CDS and HQ IDS
2. SFC, ANC, AFSOD, DCA, DIA etc.
3. AR, BSF, CG, RR, ITBP, SSB, CRPF, CISF etc.

Suggested Readings:

- Annual Report 2018-19. (2019). Ministry of Defence, Government of India.
- Annual Report 2021-22. (2022). Ministry of Home Affairs, Government of India.
- Doctrine of the Indian Air Force. (2022). Directorate of Operations (IEW), IAF.
- Gupta. (2018). How India Manages Its National Security. Penguin/Viking.
- Indian Army Doctrine. (2004). HQ Army Training Command.
- Indian Maritime Doctrine. (2009). Integrated HQ, Ministry of Defence (Navy).
- Joint Doctrine: Indian Armed Forces. (2017). HQ Integrated Defence Staff, MoD.
- Krishna Rao. (1991). Prepare or Perish: A Study of National Security. Lancer Publishers.
- Thapliyal. (2018). Military History of India. Rupa Publications.

THIRD YEAR (DEGREE COURSE)**SEMESTER-V****PRACTICAL**

Programme/Class: Degree Course	Year: Third	Semester: V
Total No. of Lectures-Tutorials-Practical-30 (60 hours)		
Unit	Topic	No. of Lectures
	Elementary Tactics Upto-Infantry Platoon Level-I	
I	Sand Model: Meaning, Importance and preparing.	06
II	Detailed Study of an Infantry Section including Organization Weapons and Equipments.	08
III	Section Formations: Section in Attack, Section in Defence, Section in Withdrawl	06
IV	Study of Field Craft with reference to the following : a) Ground b) Cover c) Camouflage d) Concealment e) Observation	10
This course can be opted as an elective by the students of following subjects: Open for all		
Suggested Continuous Evaluation Methods: Test with multiple choice questions/short and long answer questions or Record , Viva Voce		

THIRD YEAR (DEGREE COURSE)

SEMESTER-V

Vocational Course/Field Visit/Entrepreneurship Skills

BACHELOR PROGRAMME	
Year: III	Semester:V
Subject: Defence, Strategic and Geo Political Studies	
Type of Paper: Vocational Course/Field Visit/Entrepreneurship Skills (4 Credits Per Course)	
Paper Code : VC/FV/ESDSS01	Paper Name: Border Management
Outline	Visit of Border Area, Border Issues and Challenges and Study of Border Development Programmes.

Vocational Course/Field Visit/Entrepreneurship Skills Outcome: Students will able to understand Border Structure, nature of threats and Challenges also various Border Development Programmes (B.D.P.).

THIRD YEAR (DEGREE COURSE)
SEMESTER-VI
EVOLUTION OF STRATEGIC THOUGHT

Course Objective: The paper examines the development of strategic thought from ancient to modern times, focusing on key military theorists and doctrines, and enabling students to understand the enduring principles and changing contexts of strategy in war and security.

UNIT 1

1. CONCEPT OF STRATEGY AND STRATEGIC THOUGHT
2. CONCEPT OF MILITARY STRATEGY

UNIT 2

1. KAUTILYA'S PHILOSOPHY OF WAR
2. SUN TZU AND THE ART OF WAR

UNIT 3

1. MACHIAVELLI'S VIEWS ON WAR
2. CLAUSEWITZ THEORY OF WAR

UNIT 4

1. JOHN FOSTER DULLES DOCTRINE OF MASSIVE RETALIATION
2. ANDRÉ BEAUFRE'S THEORY OF NUCLEAR DETERRENCE

Suggested readings:

- Earle, E. M. (Ed.). (1959). *Makers of modern strategy: Military thought from Machiavelli to Hitler*. Princeton University Press.
- Freedman, L. (2013). *Strategy: A history*. Oxford University Press.
- Gray, C. S. (1999). *Modern strategy*. Oxford University Press.

- Kautilya. (2016). *The Arthashastra* (L. N. Rangarajan, Trans.). Penguin Classics. (Original work ca. 4th century BCE)
- Sun Tzu. (2005). *The Art of War* (S. B. Griffith, Trans.). Oxford University Press. (Original work ca. 5th century BCE)
- Liddell Hart, B. H. (1954). *Strategy* (2nd ed.). Praeger.
- Machiavelli, N. (1992). *The Art of War* (P. Bondanella & M. Musa, Trans.). Oxford University Press. (Original work 1521)
- Machiavelli, N. (2008). *The Prince* (H. C. Mansfield, Trans.). University of Chicago Press. (Original work 1532)
- Clausewitz, C. v. (2008). *On War* (M. Howard & P. Paret, Trans.). Princeton University Press. (Original work 1832)
- Dulles, J. F. (1944). *War or peace*. Harper & Brothers.
- Beaufre, A. (1965). *An introduction to strategy*. Faber & Faber. (Original work, theory of nuclear deterrence)
- Beaufre, A. (1971). *Deterrence and strategy*. Praeger.
- Freedman, L. (1981). *The evolution of nuclear strategy*. Palgrave Macmillan.

THIRD YEAR (DEGREE COURSE)
SEMESTER-VI
PRACTICAL

Programme/Class: Degree Course	Year: Third	Semester: VI
Total No. of Lectures-Tutorials-Practical-30 (60 hours)		
Unit	Topic	No. of Lectures
	Elementary Tactics Upto-Infantry Platoon Level-II	
I	Platoon Formation, Tactical Formation of Platoon, Platoon in Attack, Platoon in Defence, Platoon in Withdrawl.	08
II	Detailed Study of an Infantry platoon including Organization Weapons and Equipments.	10
III	Application of Fire, Fire Control and Fire Control Orders.	06
IV	Verbal Order.	06
This course can be opted as an elective by the students of following subjects: Open for all		
Suggested Continuous Evaluation Methods: Test with multiple choice questions/short and long answer questions or Record ,Viva Voce		

THIRD YEAR (DEGREE COURSE)

SEMESTER-VI

Vocational Course/Field Visit/Entrepreneurship Skills

BACHELOR PROGRAMME	
Year: III	Semester:VI
Subject: Defence, Strategic and Geo Political Studies	
Type of Paper: Vocational Course/Field Visit/Entrepreneurship Skills (4 Credits Per Course)	
Paper Code : VC/FV/ESDSS02	Paper Name: Defence Tourism
Outline	In view of the courses of the Defence, Strategic and Geo Political Studies. The Student are required to visit the installation of military, signification so as to enable them to understand the ground realities.

Vocational Course/Field Visit/Entrepreneurship Skills Outcome: Students will able to understand the installation of military signification and their importance in nation building.