

1

2023-2024

DEFENCE AND STRATEGIC STUDIES SYLLABUS

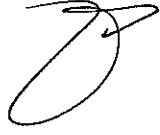
STRUCTURE OF B.A./B.Sc. FOUR YEARS



Suman Uttarakhand University

Common Minimum Syllabus for University Campus and all Affiliated Colleges of Sri Dev

NATIONAL EDUCATION POLICY-2020



2

S.No.	Name and Designation
1	Prof. N.K.Joshi, Vice-Chancellor, Kumaon University, Nainital
2	Prof. O.P.S. Negi, Vice-Chancellor, Uttarakhand Open University
3	Prof. P.P. Dhyan, Vice-Chancellor, Sri Dev Suman Uttarakhand University
4	Prof. N.S. Bhandari, Vice-Chancellor, Soban Singh Jeena University Almora
5	Prof. Surekha Dangwal, Vice-Chancellor, Doon University, Dehradun
6	Prof. M.S.M. Rawat, Advisor, Rashtriya Uchchatar Shiksha Abhiyan, Uttarakhand
7	Prof. K.D. Purohit, Advisor, Rashtriya Uchchatar Shiksha Abhiyan, Uttarakhand

Curriculum Design Committee, Uttarakhand



SRI DEV SUMAN UTTARAKHAND UNIVERSITY
 BADSHAHTHAUL, TEHRİ GARHWAL (UTTARAKHAND)
 Members of Board of Studies(BOS)
 DEFENCE AND STRATEGIC STUDIES



S.No.	Name of the Member's	Designation	Nominated As	Signature
1	Prof. G.K. Dhingra	Dean, School of Sciences	Chairman	<i>G.K.</i>
2	Dr. Yatish Vashisht	Professor	Convener	<i>Yatish</i>
3	Prof. Pushpa Negi	Principal	Member	
4	Prof. Pankaj Pant	Principal	Member	<i>Pant</i>
5	Prof. Kuldeep Singh Negi	Principal	Member	<i>Kuldeep Singh Negi</i> 11.07.23
6	Prof. Anita Rawat	Director USERC	Member	<i>Anita Rawat</i> 11.7.23

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S.N.	Name	Designation	Department Affiliation
1.	Dr. Yatish Vasisth	Professor	Defence and Strategic Studies SDSU, Badshahithaul, New Tehri, Tehri Garhwal, Uttarakhand
2.	Dr. Deergh Pal Singh Bhandari	Professor	Defence and Strategic Studies SDSU, Badshahithaul, New Tehri, Tehri Garhwal, Uttarakhand
3.	Dr. D.S. Topwal	Asst. Professor	Defence and Strategic Studies SDSU, Badshahithaul, New Tehri, Tehri Garhwal, Uttarakhand
4.	Dr. Kamlesh Chandra Pandey	Guest Faculty	Defence and Strategic Studies SDSU, Badshahithaul, New Tehri, Tehri Garhwal, Uttarakhand

Syllabus Preparation Committee



**Proposed Sample Course For
Defence and Strategic Studies(DSS)**

SEMESTER-WISE TITLES OF THE PAPERS IN UG DEFENCE AND STRATEGIC STUDIES

YEAR	COURSE CODE	PAPER TITLE	CREDIT	REMARK
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SEMESTER-I

DSS 101	Fundamentals of Defence and Strategic Studies	4(Theory)	
DSS 102	Basics of Operational Exercise-I	2(Practical)	

SEMESTER-II

DSS 201	The Art of War in India	4(Theory)	
DSS 202	Basics of Operational Exercise-II	2(Practical)	

SEMESTER-III

DSS 301	National Security	4(Theory)	
DSS 302	Basics of Operational Exercise-III	2(Practical)	

SEMESTER-IV

DSS 401	Military Thinkers	4(Theory)	
DSS 402	Basics of TEWTs/Battles/Sketching, Discussion	2(Practical)	

B.A/B.Sc. -II

SEMESTER-V

DSS 501	International Relation and Organization	4(Theory)	
DSS 502	Defence Mechanism of India	4(Theory)	
DSS 503	Military use of Electromagnetic Spectrum, Press Clipping, Tour	2(Practical)	
DSS 504	Research Project-I	Qualifying	

SEMESTER-VI

DSS 601	Modern Warfare	4(Theory)	
DSS 602	Military History of Uttarakhand	4(Theory)	
DSS 603	Spotting Strategic Locations, Military Models, Presentations	2(Practical)	
DSS 604	Research Project-II	Qualifying	

B.A/B.Sc. -III



Program Specific Outcomes (PSOs)

Certificate Fundamentals of Defence and Strategic Studies

BA/B.Sc. First Year

1. Upon completion of the program of Bachelors in Defence and Strategic Studies a student should have acquired basic competency in strategic affairs covering a wide spectrum of interstate security to global security issues including non kinetic dimensions.
2. Shall develop capability in understanding the implications of use and threat of force in international relations.
3. Shall seek, identify and apply the acquired knowledge in Defence and Strategic Studies on contemporary issues of strategic relevance.
4. Ability to move from LOTS (Lower Order of Thinking Skills) to HOTS (Higher Order of Thinking Skills) in Defence and Strategic Studies.
5. The learning of strategic studies shall arm the candidates to independently choose further course of action in his/her life whether pursuing higher education by taking specialized course in honors or identifying a career for himself or herself.
6. The course curriculum in Defence and Strategic Studies is designed to encourage the acquisition of disciplinary/subject understanding, gain academic knowledge and professional skills required for any career pursuit be it choosing for higher studies or a job. The outcome based approach particularly in the context of Defence and Strategic Studies for undergraduate program will incorporate a significance shift from teachers centric to learner centric pedagogies and from specific to active/participatory pedagogies where emphasis will be on field study, educational tours, writing assignments, seminar presentation and tutorials etc. Teaching therefore becomes interesting and absorbing aiming at demonstrative learning.

Program Outcomes (Pos)

SEMESTER VII			
B.A/B.Sc.-IV	DSS 701	Indian Military History	4(Theory)
	DSS 702	International Relations and Conflict Resolutions	4(Theory)
	DSS 703	Practical	2(Practical)
SEMESTER VIII			
DSS 801	Defence Psychology	4(Theory)	
DSS 802	Law of War and Peace	4(Theory)	
DSS 803	Practical Dissertation	2(Practical)	

7

Semester	Name of Paper	Credits	No. of Lectures
Semester-III	National Security	04	60
	Basics of Operational Exercise-III	02	30

- After undergoing this course a student will be in position to-
1. Develop core competencies in national security affairs by building his/her capacity on essentials of National Security through theory and practice. Understand the National Security challenges both Internal and External a country face and Understand the contemporary security environment in the world. (Semester-III)
 2. Acquaint them with the concepts of Strategic thinking as propounded by prominent classical and modern military thinkers. Students will also develop analytical thinking regarding relevance of such thought to the contemporary period. (Semester-IV)

Program Specific Outcomes (PSOs)
Diploma in Defence and Strategic Studies

BA/B.Sc. Second Year

Semester	Name of Paper	Credits	No. of Lectures
Semester-I	Fundamentals of Defence and Strategic Studies	04	60
	Basics of Operational Exercise-I	02	30
	Total	06	90
Semester-II	The Art of War in India	04	60
	Basics of Operational Exercise-II	02	30
	Total	06	90

- After undergoing this course a student will be in position to-
1. Clearly understand the definition, meaning and distinguish basic concepts of war, various types of war and its various typologies, techniques and characteristics and grasp the concept and theories of nuclear war in detail. (Semester-I)
 2. Become familiar in the art of war in india learn and understand the strategy , tactics application of principles of war and causes of defeat and victory of various Indian, Mughal, Maratha and Sikh Generals . Besides in a position to appreciate and understand evolutionary changes in the art and science of war in india through ages. (SEMESTER -II)



Semester	Name of Paper	Credits	No. of Lectures
Semester-V	International Relation and Organization	04	60
	Defence Mechanism of India	04	60
	Military use of Electromagnetic Spectrum, Press Clipping, Tour	02	30
	Research Project-I	03	45
	Total	13	195
	Semester-VI	Modern Warfare	04
Military History of Uttarakhand		04	60
Spotting Strategic Locations, Military Models, Presentations		02	30
Research Project-II		03	45
Total		13	195

- Equip the students with specific knowledge of international relations and how nation-state system works, Acquire competency in military and state - centric aspects of international relations, know the concepts Higher Defence Organizations of India and the Rank Structure of the Three Services and Recruitment methods for Defence Services, learn about the Defence mechanism of India and evaluate its strengths and weaknesses.
- Student will Learn about the various types of warfare that are taught in the world. Goal is to understand the different types of war waged by nations at large, and Learn about the most important Himalayan State of India i.e. Uttarakhand and It's Military Significance.

After undergoing this course a student will be in position to-

Program Specific Outcomes (PSOs)

Degree in Bachelor of Arts or Science

BA/B.Sc. Third Year

Semester-IV	Name of Paper	Credits	No. of Lectures
Semester-IV	Military Thinkers	04	60
	Basics of TEWTS/Battles/Sketching, Discussion	02	30
	Total	06	90

Semester	Name of Paper	Credits	No. of Lectures
Semester-VII	Indian Military History	04	60
	International Relations and Conflict	04	60
	Resolutions		
	Practical	02	30
	Total	10	150
Semester-VIII	Defence Psychology	04	60
	Law of war and Peace	04	60
	Practical	02	30
	Total	10	150

1. Students Become familiar in evolution of art of warfare in India. Besides, in a position to appreciate and

understand evolutionary changes in the art and science of war in India through ages. To Understand and learn the art of developing, cultivating the role of diplomacy in maintaining relations and learn the meaning and concept of Conflict Resolution . To study the Impact of Science and Technology and Nuclear Developments on International Relations.

2. To understand and appreciate psychological aspects of war making, military leadership and emotional issues that is faced by soldiers during war and peace. To Understand the basic aspects of international law. Learns basics of law of warfare through existing international legal principles.

After undergoing this course a student will be in position to-

**Honors in Bachelor of Arts or Science
Program Specific Outcomes (PSOs)**

BA/B.Sc. Fourth Year

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BA/B.Sc.I Semester I

Defence and Strategic Studies

Paper 01 Fundamentals of Defence and Strategic Studies(Theory)

Programme/Class : Certificate	Year: First	Semester: I
Subject: Defence and Strategic Studies		
Course Code: DSS 101	Course Title: Fundamentals of Defence and Strategic Studies (Theory)	
Course out Comes: To introduce the discipline of Defence and Strategic Studies –its subjects contents- contemporary relevance, importance to contemporary world development and relationship-the goals of the discipline.		
Credits:4	Core compulsory/ elective	
Maximum marks: 25+75	Minimum passing marks: 33	
Total numbers of lectures: 60		

Unit	Topic	No. of Lecture
I.	1. Meaning and definition of Defence and Strategic Studies. 2. Definition and meaning of basic concept – war, strategy, Grand strategy, Tactics, security and defence.	08
II.	3. Historical evolution, features and causes of war 4. Principles of war.	08
III	5. Conventional and unconventional wars- Civil war, Guerilla war, Insurgency, Limited war & Total war	08
IV.	6. ABC Warfare – Atomic, Biological and Chemical warfare.	08
V.	7. Causes of world war first and second 8. Causes and characteristic of cold war, Post cold war development.	08
VI.	9. Concept of Peace- Meanings & definition. 10. Peace movements: Anti Nuclear Movements.	08
VII.	11. Settlements of International dispute 12. International Court of Justice (ICJ)	06
VIII.	13. Peace keeping, Peace Building, Peacemaking.	06





BOOKS SUGGESTED

1. पाण्डेय बाबूराव एवं रामचंद्र (2005), युद्ध और शान्ति के मूल तत्त्व, प्रकाशक बुक लिफ्ट, बरेली।
2. सिंह, टण्डन, अशुवाल (2012), युद्ध और शान्ति का अध्ययन, शारदा प्रकाशक भवन, इलाहाबाद।
3. सिंह डॉ. एल.वी. (2020), युद्ध का अध्ययन, सैन्य मनाविज्ञान एवं युद्ध व शान्ति की समस्याएं, प्रकाशक बुक लिफ्ट, बरेली।
4. Montgomery Viscount, (1983) A History of Warfare, William Morrow & Co, New York City.
5. Sidhu, K.S., (1988) War and Its Principles, Atlantic, New Delhi.
6. Mukherji and Shyam Lal, (1952) A Textbook of Military Science, Vol. II., Navayuga, New Delhi.
7. Wright, Quincy, (1942) Study of War, University of Chicago Press.
8. Osanka, F.M., (1962) Modern Guerrilla Warfare, Free Press of Glencoe, New York.
9. Aron R., (1966) Peace and War: A Theory of International Relations, Praeger, New York.
10. Anthony James Joes, (1996) Guerrilla Conflict before the Cold War, (Praeger Publishers).

**BA/BSc I, Semester I
Defence and Strategic Studies
Paper- 02 (Practical)**

Programme/Class : Certificate	Year: First	Semester: I
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Subject: Defence and Strategic Studies(Practical)

Course Code: DSS 102	Course Title: Basics of Operational Exercise-I
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Credits:2	Core compulsory/ elective
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Maximum marks: 25+75	Minimum passing marks: 40
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Total numbers of lectures tutorial – Practical-30 (60 Hours)

Unit	Topics	No of Lectures
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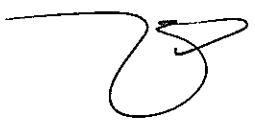
I	MAPS: Definition and Features, Classification and its utility for Military, Enlargement and reduction of Maps. Conventional Signs: Military and Geographical	8
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II	GRID SYSTEM: Four figure, Six Figure and Eight Figure Map References.	8
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III	North: Types of North and finding out True North; The Pole Star Method; The equal altitude method; Watch method & Compass method.	8
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IV	Scale: Definition, Methods of representing Scale: Inter conversion of scale into Representative Fraction, construction of simple scale line and the comparative scale lines.	6
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This course can be opted as an elective by the students of following subjects: Open for All		
Suggested Continuous Evaluation Methods:		
Research Orientation		
Test with Multiple choice questions /short and long answer questions or Record, Viva Voce		



BA/B.Sc.I Semester II
Defence and Strategic Studies
Paper 01 The Art of War in India (Theory)

Programme/Class : Certificate	Year: First	Semester: II
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Subject: Defence and Strategic Studies		
Course Code: DSS 201	Course Title: The Art of War in India (Theory)	
Course out Comes: This paper attempts to familiarize the students with the art of war in India. It is to establish that the art of warfare changes with changes in political governance, nature of threat, and weapon systems.		
Credits:4	Core compulsory/ elective	
Maximum marks: 25+75	Minimum passing marks: 33	
Total numbers of lectures: 60		

Unit	Topic	No. of Lecture
I.	1. Military System in Vedic and Epic Period 2. Indo-Greek art of war with special reference to the Battle of Hydaspes 326 B.C. 15.	10
II.	3. Kautilya's philosophy of war: Military organization , art of war and interstate relations. 4. Maurya Military system as described by Greek historians.	10
III	5. Hindu Military system during the age of Guptas and Harshvardhana Period. 6. Turk and Rajput military system with particular reference to the battle of Terrain (1991 A.D. & 1192 A.D.)	10
IV.	7. The Mughal Military system with particular reference to the first battle of Panipat (1526A.D.) 8. The Maratha Military system with special reference to the third battle of Panipat (1761A.D.)	08
V.	9. Rise of Sikhism and the military organization of the Sikhs.	06
VI.	10. British Conquest of India. 11. Indian War of Independence 1857 A.D.	08
VII.	12. The Military reforms under the crown. 13. Amalgamation of Presidency armies and kitcheners reforms.	08



BOOKS SUGGESTED

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



BA/BSc I, Semester II

Defence and Strategic Studies

Paper- 02 (Practical)

Programme/Class : Certificate		Year: First	Semester: II
Subject: Defence and Strategic Studies(Practical)			
Course Code: DSS 202		Course Title: Basics of Operational Exercise-II	
Credits:2		Core compulsory/ elective	
Maximum marks: 25+75		Minimum passing marks: 40	
Total numbers of lectures tutorial – Practical-30 (60 Hours)			
Unit	Topics	No of Lectures	
I	Bearing: Definition , Inter Conversion of Bearing in Detail.	10	
II	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	
III	To find out the bearing of a point from other point situated on the ground.	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 /Research Orientation/short and long answer questions or Record, Viva Voce			
Course Prerequisites: To Study this course, a student must have had the subject.....in class/12 th /certificate/diploma.			

BA/B.Sc.II Semester III
Defence and Strategic Studies
Paper 01 National Security (Theory)

Programme/Class : Certificate	Year: Second	Semester: III
Subject: Defence and Strategic Studies		
Course Code: DSS 301	Course Title: National Security (Theory)	
Course out Comes: To develop special subject knowledge on the vital concept of National Security and the approaches to achieve National Security (Special reference to India).		
Credits:4	Core compulsory/ elective	
Maximum marks: 25+75	Minimum passing marks: 33	
Total numbers of lectures: 60		

Unit	Topic	No. of Lecture
I.	1. Definition, Scope and features of the concept of National Security. 2. Concept of National Power – Tangible and Intangible elements.	08
II.	3. Definition, Meaning, Scope & Determinants of Defence policy. 4. Definition, Meaning, Scope & Determinants of foreign policy. 5. Linkage between foreign policy and Defence Policy	08
III	6. Concept and Models of International security: Balance of Power, Collective security & Non-Alignment deterrence.	08
IV.	7. Terrorism: Concept and Dimensions. 8. Insurgency & Counter Insurgency: Concept and dimensions.	08
V.	9. Meaning and definition of Threats. 10. Threats Perception. 11. Types of threats and threats to India.	08
VI.	12. Low Intensity Conflicts (LIC) in India with special reference to J&K. 13. Security problems in the North-Eastern region of India.	08
VII.	14. India's nuclear policy. 15. India's nuclear options in a nuclearised world.	06
VIII.	16. Indian Ocean and India's security considerations : (a). India's security problems in relation to the Indian ocean region. (b). India's maritime security and its need for Naval power Projections.	06

BOOKS SUGGESTED

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



BA/BSc II, Semester III
Defence and Strategic Studies
Paper- 02 (Practical)

Programme/Class : Certificate		Year: Second	Semester: III
Subject: Defence and Strategic Studies(Practical)			
Course Code: DSS 302		Course Title: Basics of Operational Exercise-III	
Credits:2		Core compulsory/ elective	
Maximum marks: 25+75		Minimum passing marks: 40	
Total numbers of lectures tutorial – Practical-30 (60 Hours)			
Unit	Topics	No of Lectures	
I	Relief Features and their representation on the map.	8	
II	Types of slopes and their representation on the map	8	
III	Gradient – Determination of gradients.	8	
IV	Inter visibility – Determination of inter visibility in case of rise or fall of slope.	6	
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 /Research Orientation/short and long answer questions or Record, Viva Voce			
Course Prerequisites: To Study this course, a student must have had the subject.....in class/12 th /certificate/diploma.			

BA/BSc II, Semester IV

Defence and Strategic Studies

Paper- 01 Military Thinkers (Theory)

Programme/Class : Certificate	Year: Second	Semester: IV
Subject: Defence and Strategic Studies		
Course Code: DSS 401		Course Title: Military Thinkers (Theory)
Course out Comes: 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.		
Credits:4		Core compulsory/ elective
Maximum marks: 25+75		Minimum passing marks: 33
Total numbers of lectures: 60		
Unit	Topics	No of Lectures
I.	1. Concept thought. 2. Kautilya's philosophy of war.	08
II.	3. Concepts of Machiavelli 4. Concepts of Clausewitz 5. Concepts of Jomini.	08
III	6. J.F.C. Fuller 7. B.H. Liddle Hart	08
IV.	8. A.T. Mohan : Theory of Sea Power. 9. Douhet Theory of Air Power.	08
V.	10. Hitler: The Nazi Concept of war. 11. Karl Marx 12. Mao-Tse-Tung.	08
VI.	13. The Impact of Nuclear weapons on Strategy. 14. Strategy of deterrence. 15. Nuclear Strategy Since 1945.	08
VII.	16. Halford Mackinder : Heart Land Theory. 17. Karl Haushofer.	06
VIII.	18. Concept of Non-violence by Gandhi.	06



BOOKS SUGGESTED

1. Adhikari, S., Strategic Chintan (Hindi).
2. E.M. Earle (ed), Makers of Modern Strategy: Military Thought from Machiavelli to Hitler, 1948.
3. Fuller, J.F.C., The Foundations of the Science of War (London, 1925).
4. Murray, Williamson, Knox, MacGregor, and Bernstein, Alvin (eds.), The Making of Strategy, (Cambridge, 1994).
5. Paret, Peter (ed.), Makers of Modern Strategy, (Princeton, 1986) 11.
6. Singh, L.J., Kautilya's Philosophy of War.
7. IJ Saingh, Strategic Chintak (Hindi).
8. Adhikari S. Strategic Chintan (Hindi).
9. Tripathi, K.S., Evolution of Nuclear Strategy, (Delhi, 1980).

BA/BSc II, Semester IV

Defence and Strategic Studies

Paper- 02 (Practical)

Programme/Class : Certificate	Year: Second	Semester: IV
Subject: Defence and Strategic Studies(Practical)		
Course Code: DSS 402	Course Title: Basics of TEWTS/Battles/Sketching, Discussion	
Credits:2	Core compulsory/ elective	
Maximum marks: 25+75	Minimum passing marks: 40	
Total numbers of lectures tutorial – Practical-30 (60 Hours)		
Unit	Topics	No of Lectures
I	Elementary Knowledge of – a. Rank Structure of the three Services b. Study and Description of Ground c. Judging Distance d. Section Formation e. Patrolling OR a. Battle of Hydraspas 326BC. b. Battle Panipat 1526 AD.	07
II	a. Massage Writing b. Fire Control Order c. Platoon Formation OR a. Battle of Thagla Ridge 1962 b. Kargil Conflict 1999	07
III	Sketching of the Chart of Western Battles a. Battle of Tratalgar 1805 b. Battle of Somme 1919 OR Military Appreciation of the Situation.	07
IV	Lecture and Group Discussion on Current Defence Topics.	09
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 /Research Orientation/short and long answer questions or Record, Viva Voce		
Course Prerequisites: To Study this course, a student must have had the subject.....in class/12 th /certificate/diploma.		

BA/BSc III, Semester V

Defence and Strategic Studies

Paper - 01 International Relation and Organization (Theory)

Programme/Class : Graduation	Year: Third	Semester: V
Subject: Defence and Strategic Studies		
Course Code: DSS 501	Course Title: International Relation and Organization (Theory)	
Course out Comes: Student will Learn about the international relations and how nation-state system works, acquire competency in military and state - centric aspects of international relations and organization.		
Credits:4	Core compulsory/ elective	
Maximum marks: 25+75	Minimum passing marks: 33	
Total numbers of lectures: 60		
Unit	Topics	No of Lectures
I	1. Introduction, definitions, meanings, scope of International relation	8
II	2. Concepts of states, Nation, Nation-state 3. International Power Structure, Definition, Meaning, and Scope –Uni-Polar, Bi-Polar and Multi Polar 4. Balance of Power 5. Collective Security	8
III	6. Diplomacy: Meaning, Definition, Object & Scope and Types of Diplomacy	8
IV	7. Foreign Policy: Meaning, Definition, Determinants of Foreign Policy 8. National Interest- Meaning & Definition	8
V	9. International Organisation- Origin Growth & Function 10. The League of Nations-Origin, Organisation, Functions and It's Failure	8
VI	11. The UNO- Origin, Aim, Structure, Scope and Function 12. India's Claim for Permanent membership in the Security Council	8
VII	13. Origin Development and Functions of Regional Organisations-It's Relevance and Utility 14. SAARC- Origin, Object, Development and Functions	6
VIII	15. ASEAN- Origin, Object, Development and Functions 16. European Union(EU)	6

BOOKS SUGGESTED

1. War and Peace – Aron, R.
2. Making of the foreign Policy – Frankel, J.
3. Foreign Policy of the world – Thompson, D.
4. Problem of the International Relations – Gibbs, G.
5. Politics Among Nations – Hans, G. Morgenthau
6. International Relation – P.D. Sharma
7. International Politics in Atomic Age – J. H. Herz
8. The Impact of War on International Relations Since 1945 – Lallanji Singh, (Prakash Book Depot, Bareilly 243003)
9. Theoretical Aspects of International Politics – Mahendra Kumar
10. Essays in Politics and International Relations – A. Appadorai
11. Contemporary Theories in International Relations – Hofman
12. Game Theories and the Analysis of International Conflict
13. Sustainable Development – D.D. Khanna 14. Defence Versus – D.D. Khanna
15. A Study of International Relations – Quincy Wright
16. Indo-U.S. Relations and Peace Prospects in South West Indian ocean – Agrwal A.
17. Indo Tibet China Conflict – Lal, D.
18. International conflicts and Peace making Forcess – Chandra S. ETC
19. Pakistan in Regional and Global Politics – Rajshee Jelly
20. U.S. Policy Towards South Asia with Spl. Reference to Indo Pak Politics – Aftab Alam
21. U.S. Military Aid to Pakistan and India Security – Aftab Alam
22. India's Foreign Policy – W. Chiman
23. The Impact of war on International Relation Since 1945 – Lallanji Singh
24. National Defence and Security (P.C.S.) Lallanji Singh



Programme/Class : Graduation		Year: Third	Semester: V
Subject: Defence and Strategic Studies			
Course Code: DSS 502		Course Title: Defence Mechanism of India (Theory)	
Course out Comes: Student will Know the Higher Defence Organizations of India and the Rank Structure of the Three Services and Recruitment methods for Defence Services, learn about the Defence mechanism of India and evaluate its strengths and weaknesses.			
Credits:4		Core compulsory/ elective	
Maximum marks: 25+75		Minimum passing marks: 33	
Total numbers of lectures: 60			
Unit	Topics	No of Lectures	
I	1. Power of the President of India in relation of Defence. 2. Role and function of Ministry of Defence.	8	
II	3. Composition and function of Cabinet Committee on Security, NSC, NSAB. 4. Chief of Staff and joint service Organization, Role and function of Chief of Defence Staff (CDS)	8	
III	5. Rank Structure of the Three Services. 6. Recruitment methods for Defence Services.	8	
IV	7. Important training Institution of the Three Services. 8. Second line defence (introduction of BSF, CG, CISF, RR, ITBP, SSB)	8	
V	9. Organization of Army, Air force, Naval Headquarters . 10. Static and Field formation of Indian Army, Air Force, Navy.	8	
VI	11. Important Weapons of Indian Army. 12. Important Weapons of Indian Air Force. 13. Important Weapons of Indian Navy.	8	
VII	14. Intelligence Agencies: their Organisation. 15. Role of Intelligence agencies & their problems.	6	
VIII	16. Defence Intelligence Agency (DIA) 17. RAW & IB	6	

Paper- 02 Defence Mechanism of India (Theory)

Defence and Strategic Studies

BA/BSc III, Semester V

**BOOKS SUGGESTED**

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

BA/BSc III, Semester V

Defence and Strategic Studies

Paper- 03 (Practical)

Programme/Class : Graduation	Year: Third	Semester: V
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Subject: Defence and Strategic Studies		
Course Code: DSS 503	Course Title: Military use of Electromagnetic Spectrum, Press Clipping, Tour	
Credits:2	Core compulsory/ elective	
Maximum marks: 25+75	Minimum passing marks: 40	
Total numbers of lectures tutorial – Practical-30 (60 Hours)		

Unit	Topics	No of Lectures
I	1. Sketching of Strategic Map of SAARC member states 2. Sketching of Strategic Map of NAM member States	10
II	3. Techniques of Group Discussions covering theme of following subject- (i) National Security (ii) Geo-Strategy (iii) Terrorism	8
III	4. Press clipping on allotted current topics with a brief assignment.	6
IV	5. Educational Tour and Its Report	6

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/Research Orientation/short and long answer questions, or short presentation/Lecture, Record, Viva Voce

Course Prerequisites: To Study this course, a student must have had the subject.....in class/12th/certificate/diploma.

Marking Pattern- Internal Assessment

(1) Tour Report-20	(1) MCQs-15
(2) Record- 10	(2) Presentation-10
(3) Viva-15	
(4) Question Paper-30	
Total-75	Total-25

BA/BSc III, Semester V

Defence and Strategic Studies

Paper- 04 Research Project

Programme/Class : Graduation	Year: Third	Semester: V
Subject: Defence and Strategic Studies		
Course Code: DSS 504	Course Title: Research Project-I	
Credits:3	Core compulsory/ elective	
Maximum marks: 25+75	Minimum passing marks: 40	
Total numbers of lectures -45		
Unit	Topics	No of Lectures
I	The Candidate has to select and give inputs in any one of the following. It may include..... 1. Indo-Nepal Border Security and Management. 2. Study and Assessment of potential cyber threats in your area.	12
II	Involving application of knowledge in solving /Analyzing/exploring real life situation/difficult issues related to Defence and Strategic Studies.	12
III	Develop a tool for conducting a survey of the selected area and collect data from the area/seek permission to conduct short training in the area.	12
IV	A detailed Report to be prepared and submitted.	09
This course can be opted as an elective by the students of following subjects: Open for All		
Suggested Continuous Evaluation Methods: Prepare survey or tool on any one of the above areas. Research Orientation Collection of Data related to the area. A letter certifying the authenticity of work done from the mentor report of the identified problems and survey conducted.		
Course Prerequisites: To Study this course, a student must have had cleared the 4 th semester		

Programme/Class : Graduation		Year: Third	Semester: VI
Subject: Defence and Strategic Studies			
Course Code: DSS 601		Course Title: Modern Warfare (Theory)	
<p>Course out Comes: Student will Learn about the various types of warfare that are taught in the world. Goal is to understand the different types of war waged by nations at large.</p>		Credits:4	
Maximum marks: 25+75		Minimum passing marks: 33	
Total numbers of lectures: 60			
Unit	Topics	No of Lectures	
I	1. Introduction & Concepts of Modern Warfare. 2. Causes of War and Warfare.	8	
II	3. War as an Economic Problem and Mobilization of Resources for War. 4. Defence and Development.	8	
III	5. Psychological Warfare, Nature, Definitions, Aim, Technique and relevance in present time. 6. Psychological Warfare: Brain Washing, Propaganda and Rumour.	8	
IV	7. Role of U.N.O to maintain peace. 8. Non-Alignment and its relevance in modern era.	8	
V	9. World War First- Causes and Consequences. 10. World War Second- Causes and Consequences.	8	
VI	11. Guerilla Warfare: Objective & Characteristics. 12. Insurgency and Counter Insurgency.	8	
VII	13. Concept and Origin of Nuclear Warfare. 14. Use of Atom Bomb and Impact.	6	
VIII	15. Revolution in Information Technology as an instrument of peace and security.	6	

**BA/BSc III, Semester VI
Defence and Strategic Studies
Paper- 01 Modern Warfare (Theory)**

BOOKS SUGGESTED

1. Asprey, R.B., War in the Shadows (London,1975)
2. Brig. A.A.K. Choudary, September, 1965, Karachi: Oxford University Press, 1990.
3. Brig. John, P. Dalvi, Himalayan Blunder, New Delhi: Nataraj, 1967.
4. Brown, F.J., Chemical Warfare : a Study in Restraint, (Princeton,1968)
5. Fairbairn, G., Revolutionary Guerilla Warfare (Harmondsworth,1974)
6. Gaurav, G.Sawant, Deline Kargil, New Delhi: Vikas, 2007.
7. Gen. V.P.Malik, Kargil : From Surprise to Victory, New Delhi : Harper & Collins, 2006.
8. Herbert Feis, The Atomic Bomb and the End of World War II (Princeton, 1966)
9. Kaul,B.N., Untold Story, Delhi : Allied,1967.
10. Lawrence Freeman, The Evolution of Nuclear Strategy (London,1981)
11. Lt. Gen. J.F.R.Jacob, Surrender of Dacca, New Delhi: Manohar, 1997.
12. Lt.Gen. A.A.K. Niazi, Betrayal of East Pakistan, Karachi: Oxford University Press, 1990.
13. Maj. Sitaram Johri, The Indo - Pakistan Conflict of 1965, Lucknow: Himalayas, 1967.
14. Maj.Gen. D.K.Palit, Lightening Campaign, New Delhi:Thompson Press, 1972.
15. Maliwal, B.N., Sthal Yuddh Kala.
16. Singh, L.J., Nature of War and North African Campaign (Hindi).
17. Sinha,S.K., Operation Rescue - Military Operations in J&K 1947-48, Delhi : Vision,1977.
18. SIPRI, The Problem of Chemical and Biological Warfare (4 Vols, New York, 1971)
19. The Kargil Committee Review Report, From Surprise to Reckoning, New Delhi: Sage, 2000.
20. Vice-Admiral N.Krishnan, No way but Surrender, Delhi: ABC Publishers, 1989.
21. Walter Laqueur, Guerilla, (London,1977)

BA/BSc III, Semester VI

Defence and Strategic Studies

Paper- 02 Military History of Uttarakhand (Theory)

Programme/Class : Graduation	Year: Third	Semester: VI
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Subject: Defence and Strategic Studies

Course Code: DSS 602

Course Title: Military History of Uttarakhand (Theory)

Course out Comes: Student will Learn about the most important Himalayan State of India i.e. Uttarakhand and Its Military Significance.

Credits:4

Core compulsory/ elective

Maximum marks: 25+75


Minimum passing marks: 33

Total numbers of lectures: 60

Unit	Topics	No of Lectures
I	1. History and Popular Dynasty of Uttarakhand. 2. Geo Strategic Importance-Geographical location and Extensions.	8
II	3. Invasion of Gurkhas(with special reference to Battle of Khurbura). 4. Introduction of British Rule in Uttarakhand.	8
III	5. Role of Freedom fighters of Uttarakhand. 6. Azad Hind Fauz in Independence.	8
IV	7. Rise of Military Culture and Valour in Uttarakhand. (a) Late. Subedar Balbhadra Singh Negi- Order of Merit. (b) Nayak Darban Singh Negi- Victoria Cross. (c) Sepoy Gabbar Singh Negi- Victoria Cross. (d) Havaladar Chandra Singh Garhwali(Peshawar Kand).	8
V	8. Introduction to Garhwal Rifle. 9. Introduction to Kumaon Regiment.	8
VI	10. Role of Garhwal Rifle during World War I & II. 11. Military Operations War Hero's and Battle Honors of Garhwal Rifle.	10
VII	12. Role of Kumaon Regiment in various operations. 13. War Hero's and Battle Honors of Kumaon Regiment.	10

BOOKS SUGGESTED

1. Ajay Arora, Administrative History of Uttarakhand(Kumaon and Garhwal) During the rule of Eas India Company 1815-1857.
2. Pandit Om Khanduri, Uttarakhand- Uttaranchal Itihas adi Madhya aur Vartman.
3. Ghanshyam Joshi, Uttarakhand Ka Rajneetik Samajik evm Sanskritik Itihas Edition IV(Hindi).
4. Brigadier Rajendra Singh, History of Indian Army.
5. J P Dalvi, Himalyan Blunder, The Curtain Raiser to the Sino Indian War 1962.
6. DH Drake Brockman, With the Royal Garhwal Rifles in the Great War from August 1914 to November 1971.
7. Jasbir Singh, Roar of the Tiger Illustrated History of Operations in Kashmir by 4th Battalion Kumaon Regiment in 1965 War.
8. Azad Hind Fauz, Fulnaath Shukla, First Edition 2012, Prakash Book Depo, Bada Bazar, Bareilly.



**BA/BSc III, Semester VI
Defence and Strategic Studies
Paper- 03 (Practical)**

Programme/Class : Graduation	Year: Third	Semester: VI
Subject: Defence and Strategic Studies		
Course Code: DSS 603	Course Title: Spotting Strategic Locations, Military Models, Presentations	
Credits:2	Core compulsory/ elective	
Maximum marks: 25+75	Minimum passing marks: 40	
Total numbers of lectures- Tutorials- Practica-30:(60Hours)		
Unit	Topics	No of Lectures
I	1. Strategic Maps of India: India and her neighbours, Indian States and Union Territories with capitals, Strategic Raw Materials and Defence Industries and Atomic Reactors.	8
II	2. World: World map in 1945, Countries of NATO, Non Aligned Countries, Countries of South Asia, South East Asia, Far east and West Asia, Nuclear Nations, Indian Ocean Littoral States and World Sea Routes.	8
III	3. Making of Models- a. Fighter Plane b. Battle Ship. c. Radar d. Submarine e. Tank f. Missile g. Helicopter	8
IV	4. Presentations on Current Defence Topic	6
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 Short Presentation/Lecturer, Record, Viva Voce/ Research Orientation		
Course Prerequisites: To Study this course, a student must have had the subject... in class/12 th /certificatc/diploma.		

BA/BSc III, Semester VI

Defence and Strategic Studies

Paper- 04 Research Project II

Programme/Class : Graduation		Year: Third	Semester: VI
Subject: Defence and Strategic Studies			
Course Code: DSS 604		Course Title: Research Project-II	
Course Outcomes: Improves writing and presentation abilities of the candidate.			
Credits:3		Core compulsory/ elective	
Maximum marks: 25+75		Minimum passing marks: 40	
Total numbers of lectures -45			
Unit	Topics	No of Lectures	
I	The Candidate has to select and give inputs in any one of the following. It many include..... 1. Any Natural/Man Made disaster of your area and its management. 2. Potential Threats to the security and its management.	10	
II	An Intervention plan would be developed based on problem identified in the area/ a field visit is mandatory to develop an understanding of the whole process.	12	
III	The Planned intervention to be carried in the selected area based on the intervention the preintervention state and post intervention data has to be collected and compared /based on visit and interaction the detailed in depth data has to be collected.	11	
IV	A detailed Report is to be submitted and evaluated.	12	
This course can be opted as an elective by the students of following subjects: Open for All			
Suggested Continuous Evaluation Methods: Prepared intervention plan on anyone of the above areas. Collection of Data related to the area – research orientation. A letter certifying the authenticity of work done from the mentor report of the implemented plan and impact /experience of intervention.			
Course Prerequisites: To Study this course, a student must have had cleared the 4 th semester.			

BA/BSc IV, Semester VII

Defence and Strategic Studies

Paper- 01 Indian Military History (Theory)

Programme/Class : Graduation	Year: Fourth	Semester: VII
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Subject: Defence and Strategic Studies		
Course Code: DSS 701	Course Title: Indian Military History (Theory)	
Course out Comes: Students Become familiar in evolution of art of warfare in India. Besides, in a position to appreciate and understand evolutionary changes in the art and science of war in India through ages.	Credits:4	
Maximum marks: 25+75	Core compulsory/ elective	
	Minimum passing marks: 33	
Total numbers of lectures: 60		

Unit	Topics	No of Lectures
I	Military System of Vedic and Epic Age (1500-600 BC)	8
II	Battle of Hydaspases (326 BC)	8
III	Warfare and Military Organization (600-185 BC) and Kautilyas Philosophy of warfare	10
IV	Age of Guptas and Harsh Vardhana Changes on Hindu Military System	8
V	Arab and Turk invasions of India: New Trends of warfare	8
VI	Rajput Military System – Art of warfare with Special reference to the First and Second Battle of Terrain	10
VII	Military reforms and Pattern of warfare during the Sultanate Period	8

Books Suggested

1. The Art of war in Ancient India Calcutta. 1943- P. C Chakravarty
2. War in Ancient India Madras. 1930 – R.C. Dikshit
3. The Indian Military History, - Lallan ji Singh, Parkash Book Depot. Bareilly 243003
4. Kautilya Philosophy of War - Lallanji Singh, Parkash Book Depot. Bareilly 243003
5. Ramayan Kalin Yudh kala, Abhinav Parkashan, Agra, 1980
6. A History of India from Earliest Times to the Present day – Edward, M.
7. Alexander the Great – J F C Fuller
8. Ancient Indian Warfare- S.D.Singh
9. Military History of India – J.N. Sarkar

**BA/BSc IV, Semester VII
Defence and Strategic Studies**

Paper- 02 International Relations and Conflict Resolutions (Theory)

Programme/Class : Graduation	Year: Fourth	Semester: VII
Subject: Defence and Strategic Studies		
Course Code: DSS 702	Course Title: International Relations and Conflict Resolution (Theory)	
Course out Comes: To Understand and Learn the art of developing, cultivating the role of diplomacy in maintaining relations and Learn the meaning and concept of Conflict Resolution . To study the Impact of Science and Technology and Nuclear Developments on International Relations.	Credits:4	
Maximum marks: 25+75	Core compulsory/ elective	
Minimum passing marks: 33		
Total numbers of lectures: 60		
Unit	Topics	No of Lectures
I	System Theory Decision Making Theory	8
II	Communication Theory Game Theory	8
III	Power and National Interest	6
IV	Ideology and Foreign Policy	6
V	War and Politics	6
VI	War as an Instrument of National Policy	6
VII	North South Conflict Pacific Settlement of Disputes and Collective Security System	10
VIII	Impact of Science and Technology in International Relation Nuclear Weapons and their Impact on International Relation	10



Books Suggested

1. War and Peace – Aron, R.
2. Making of the foreign Policy – Frankel, J.
3. Foreign Policy of the world – Thompson, D.
4. Problem of the International Relations – Gibbs, G.
5. Politics Among Nations – Hans, G. Morgenthau
6. International Relation – P.D. Sharma
7. International Politics in Atomic Age – J. H. Herz
8. The Impact of War on International Relations Since 1945 – Lallanji Singh, (Prakash BookDepot, Bareilly 243003)
9. Theoretical Aspects of International Politics – Mahendra Kumar
10. Essays in Politics and International Relations – A. Appadorai
11. Contemporary Theories in International Relations – Hofman
12. Game Theories and the Analysis of International Conflict
13. Sustainable Development – D.D. Khanna
14. Defence Versus – D.D. Khanna
15. A Study of International Relations – Quincy Wright



**BABSc IV, Semester VII
Defence and Strategic Studies
Paper- 03 (Practical)**

Programme/Class : Graduation Year: Fourth Semester: VII

Subject: Defence and Strategic Studies

Course Code: DSS 703	Course Title: Practical
Credits: 2	Core compulsory/ elective
Maximum marks: 25+75	Minimum passing marks: 40

Total numbers of lectures- Tutorials- Practica-30:(60Hours)

Unit	Topics	No of Lectures
I	News Paper Cutting on National and International affairs during 1 st Semester	8
II	Give a 10 minute talk on National Affairs	8
III	Techniques of Group – discussion covering theme of National & International Affairs.	8
IV	Sketching following on the map given- (A) L.O.C., Mac mohan, Siachen Glacier, Kargil, Karakorum Pass, Darras, Batalik (B) Important Pass in Himalayan regions (C) India's Nuclear Reactor (D) Andaman and Nicobar Island & Lakshadweep	6


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 Short Presentation/Lecturer, Record, Viva Voce/ Research Orientation

Course Prerequisites: To Study this course, a student must have had the subject... in

class/12th/certificate/diploma.



BA/BSc IV, Semester VIII

Defence and Strategic Studies

Paper- 01 Defence Psychology (Theory)

Programme/Class : Graduation	Year: Fourth	Semester: VIII
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Subject: Defence and Strategic Studies	
Course Code: DSS 801	Course Title: Defence Psychology (Theory)
Course out Comes: To understand and appreciate psychological aspects of war making, military leadership and emotional issues that is faced by soldiers during war and peace.	
Credits:4	Core compulsory/ elective
Maximum marks: 25+75	Minimum passing marks: 33
Total numbers of lectures: 60	

Unit	Topics	No of Lectures
I	Development of Defence Psychology and its Relevance in Defence Problem	8
II	Factors in Adjustment during Army life	8
III	Psychological, Defence and Escape Mechanism	8
IV	Problems of Adjustment of Ex- Soldiers	8
IV	Leadership – Nature Function Types and emergence of a Leader Military Leadership Grid	10
V	Moral – Nature: Determinates and techniques of boosting Morale	8
VI	Psychological warfare	8
VII	(A) Nature, Types and techniques of civil propaganda Nature, techniques, merits and demerits of Rumor, its impact on war and society, Brain Washing	10

Books Suggested-

1. Psychology for the Armed Services – Boring E.G.
2. Psychological warfare Lienbarger
3. Human Factor Engineering – Mac Cormick
4. Psychology and the Soldier, Bartlett, F.C.
5. Air war and Emotional Stress. Hennings
6. Frontier of Psychology. Mann, J.
7. Thought, Reform and Psychology of Totalism
8. Coercive Persuasion – Schein, E.H.
9. Techniques of Persuasion – Brown J.F.C.
10. Social Psychology of war and Peace A. May Mark
11. Men under Stress. – Ginkar, R.R.
12. Psychology for the armed forces. – Raj Narayan.

BA/BSc IV, Semester VIII

Defence and Strategic Studies

Paper- 02 Law of war and Peace (Theory)

Programme/Class : Graduation		Year: Fourth	Semester: VIII
Subject: Defence and Strategic Studies			
Course Code: DSS 802		Course Title: Law of war and Peace (Theory)	
Course out Comes: To understand the basic aspects of international law. Learns basics of laws of warfare through existing international legal principles.		Credits:4	
Maximum marks: 25+75		Core compulsory/ elective	
Minimum passing marks: 33		Total numbers of lectures: 60	
Unit	Topics	No of Lectures	
I	Meaning and Definition of war and Peace, War and its effect	10	
II	Law of war	8	
III	Law of Land and Air warfare	8	
IV	Law of Sea warfare	8	
V	Law of Nuclear warfare	8	
VI	War Crimes Settlements of Disputes	8	
VII	International Terrorism and International Law	8	
VIII	U.N. Organization and its Peace Keeping Role	10	

Books Recommended –

1. Legal control of International Conflicts – Stone Julious
2. Modern International Law of war – Casterm
3. Study of war Vol. I and II
4. The Relativity of war and Peace Vol. I and II - Carb

DSS803 Practical

Dissertation and Viva Voce



MINOR ELECTIVE

Science and Technology in Relation to Warfare

No. of Lectures-60

Credit 04

Unit-I Evolution of Science and Technology.

Objective- At the end of this course, students acquire knowledge on how significant the role of science and technology is to Society and to National Security. The paper also provides realization in contemplating on the military industrial complex (MIC) of a nation.

- A. Science, Technology and National Security.
- B. Impact of science and Technology on society and warfare.

Unit-II Transfer of Technology

- a. International Interdependence.
- b. Role of Multinational Corporations.

Unit-III Emergence of New Technology

- a. Armored vehicles: Tank and APC's
- b. Aircrafts, UAV's and Missile.
- c. Submarine and Aircraft Carrier.

Unit-IV Electronics Warfare: Concept and Applications.

Unit - V Ballistic Missile Defence(BMD): Concept and Applications.

Unit-VI Revolution in Military Affairs (RMA).

Unit- VII Defence R&D and Defence Production in India.

BOOKS SUGGESTED

1. Arcangelis, Mariode, (1990) Electronics Warfare, Katna, New Delhi.
2. Rehman, A. (1972) Science Technology and Society, Peoples Publishing House, New Delhi.
3. Anand, A. (2003) Information Technology: The future warfare weapons, Ocean Books, New Delhi.
4. Johan Erickson (Ed.) (1966) The Military Technical Revolution: Its Impact on strategic and Foreign Policy, Frederick A Praeger, New York.
5. Macksey, Kenneth (1986) Technology in War: The impact of science on weapon development and modern battle, Prentice Hall, New York.
6. Mann T.S., (1982) Transfer and Technology, Himalaya Publications House, Bombay.
7. Rajan, Y.S. (2001) Empowering India (with Economic Business & Technological strengths for the twenty First Century), Har Anand Publications, New Delhi.
8. Robert H. Latiff, (2017) Future war: Preparing for the new global battlefield, Penguin Random House, New York.
9. Singer, H.W., (1988) Technology Transfer by Multinational Vol. I& II, Ashish Publishing House, New Delhi.

Minor Elective

Disarmament and Arms Control

No. of Lectures 60

Credit 4

Objective- 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.

Unit I -

- a. Definition of Arms Control, Arms limitations and Arms Reduction.
- b. Nature and Scope of Arms Control and Disarmament.

Unit II - National Policies in Arms Control & Disarmament.

- a. India
- b. Pakistan
- c. China
- d. North Korea

Unit III - Disarmament Effort - Success Story

- a. SALT I and II
 - b. PTBT, NNPT
 - c. INF, START I&II and Outer Space.
- Unit IV - Disarmament Effort by other bodies.**
- a. NAM
 - b. Nuclear Free Zones
 - c. Efforts of India

Unit V - UN and Disarmament

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

BOOKS SUGGESTED

- 1. Mistry, D., Containing Strategic Missile proliferation, Seattle University of Washington press, 2005.
- 2. Pande, S, CTBT : India and the Nuclear Test Ban Treaty, New Delhi: Cosmo 1944.
- 3. Pande, S, Future of NPT, New Delhi: Lancer, 1995.
- 4. Singh, L.J., Armaments and World Peace.
- 5. Singh, L.J., Problems of War and Peace.
- 6. Singh, L.J., Study of War.