

Semester wise Structure of U.G. Programme

(Based on Common Minimum Syllabus for all Uttarakhand State University/Colleges)

In

Defence and Strategic Studies (DSS)



SRI DEV SUMAN UTTARAKHAND UNIVERSITY

BADSHAHUI THAUL, TEHRI GARHWAL

UTTARAKHAND

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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	
SEMESTER-I					
B.A/B.Sc. –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					
B.A/B.Sc. –II	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,	2(Practical)		

		Discussion	l)		
SEMESTER-V					
B.A/B.Sc. -III	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		

Program Outcomes (Pos)

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 use 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 contest 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.

BA/B.Sc. First Year

Certificate Fundamentals of Defence and Strategic Studies

Program Specific Outcomes (PSOs)

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-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

BA/B.Sc. Second Year

Diploma in Defence and Strategic Studies

Program Specific Outcomes (PSOs)

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)**

Semester	Name of Paper	Credits	No. of Lectures
	National Security	04	60

Semester-III			
	Basics of Operational Exercise-III	02	30
	Total	06	90
Semester-IV	Military Thinkers	04	60
	Basics of TEWTs/Battles/Sketching, Discussion	02	30
	Total	06	90

BA/B.Sc. Third Year

Degree in Bachelor of Arts or Science

Program Specific Outcomes (PSOs)

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

1. 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.

2. Student will Learn about the 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.

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	60
	Military History of Uttarakhand	04	60
	Spotting Strategic Locations, Military Models, Presentations	02	30
	Research Project-II	03	45
	Total	13	195

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	08

	4. Principles of war.	
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. 14. Confidence Building Measures (CBM)	06

BOOKS SUGGESTED

1. ik.Ms; ckcwjke ,oa jkel`jr ¼2005½] ;q) vkSj “kkfUr ds ewy rRo] çdk”k cqd fMiks] cjsyhA
2. flag] V.Mu] vxzoky ¼2012½] ;q) vkSj “kkfUr dk v/;;u] “kkjnk iqLrd Hkou] bykgkcknA
3. flag MkW- ,y-ts- ¼2020½] ;q) dk v/;;u] ISU; euksfoKku ,oa ;q) o “kkfUr dh leL;k, a çdk”k cqd fMiks] cjsyhA
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).

Programme/Class : Certificate	Year: First	Semester: I
Subject: Defence and Strategic Studies(Practical)		
Course Code: DSS 102	Course Title: Basics of Operational Exercise-I	
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	MAPs: Definition and Features, Classification and its utility for Military, Enlargement and reduction of Maps. Conventional Signs: Military and Geographical	8
II	GRID SYSTEM: Four figure, Six Figure and Eight Figure Map References.	8
III	North: Types of North and finding out True North; The Pole Star Method; The equal altitude method; Watch method & Compass method.	8
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
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
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.	08

	15.	
II.	3. Kautilya's philosophy of war: Military organization , art of war and interstate relations. 4. Maurya Military system as described by Greek historians.	08
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 (1091 A.D. & 1192 A.D.)	06
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. Amalgation of Presidency armies and kitchener 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, Allahabad: 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. Tandan, Aggarwal, Singh, Bharatiya Yudh 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.	<p>3. Definition, Meaning, Scope & Determinants of Defence policy.</p> <p>4. Definition, Meaning, Scope & Determinants of foreign policy.</p> <p>5. Linkage between foreign policy and Defence Policy</p>	08
III	6. Concept and Models of International security: Balance of Power, Collective security & Non-Alignment deterrence.	08
IV.	<p>7. Terrorism: Concept and Dimensions.</p> <p>8. Insurgency & Counter Insurgency: Concept and dimensions.</p>	08
V.	<p>9. Meaning and definition of Threats.</p> <p>10. Threats Perception.</p> <p>11. Types of threats and threats to India.</p>	08
VI.	<p>12. Low Intensity Conflicts (LIC) in India with special reference to J&K.</p> <p>13. Security problems in the North-Eastern region of India.</p>	08
VII.	<p>14. India's nuclear policy.</p> <p>15. India's nuclear options in a nuclearised world.</p>	06
VIII.	<p>16. Indian Ocean and India's security considerations :</p> <p>(a). India's security problems in relation to the Indian ocean region.</p> <p>(b). India's maritime security and its need for Naval power</p>	06

	Projections.	
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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/12th/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.	08

	14. Strategy of deterrence. 15. Nuclear Strategy Since 1945.	
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. LJ 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	07

	OR a. Battle of Hydraspas 326BC. b. Battle Panipat 1526 AD.	
II	a. Massage Writing b. Fire Control Order c. Platoon Formation OR Sketching of the Chart of Indian Battles a. Battle of Thagla Ridge 1962 b. Kargil Conflict 1999	07
III	Sketching of the Chart of Western Battles a. Battle of Trafalgar 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/12th/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.Inrocuction, definitions, meaning, scope of International relation 2. Concepts of states , Nation, Nation –state	8
II	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 Chaina Conflict – Lal, D.
18. International conflicts and Peace making Porcess – Chandra S. ETC
19. Pakistan in Regional and Global Politics – Rajshree Jetly
20. U.S. Policy Towards South Asia with Spl. Reference to Indo Pak Politics – Aflab 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

BA/BSc III, Semester V

Defence and Strategic Studies

Paper- 02 Defence Mechanism of India (Theory)

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

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
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	8

	(iii) Terrorism	
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/12 th /certificate/diploma.		

Marking Pattern-

- (1) Tour Report-20
- (2) Record- 10
- (3) Viva-15
- (4) Question Paper-30

Total-75

Internal Assessment

- (1) MCQs-15
- (2) Presentation-10

Total-25

BA/BSc III, Semester V
Defence and Strategic Studies
Paper- 04 Research Project

Programme/Class : Graduation	Year: Third	Semester: V
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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	<p>The Candidate has to select and give inputs in any one of the following. It may include.....</p> <ol style="list-style-type: none"> 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 4th semester

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

Programme/Class : Graduation	Year: Third	Semester: VI
Subject: Defence and Strategic Studies		
Course Code: DSS 601	Course Title: Modern Warfare (Theory)	
Course out Comes: Student will Learn about the 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.		
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 & Concepts of Modern	8

	Warfare. 2. Causes of War and Warfare.	
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

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, Dateline Kargil, New Delhi: Vikas, 2007.
7. Gen. V.P.Malik, Kargil : From Surprise yo 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
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 It's 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	8

	Battle of Khurbura). 4. Introduction of British Rule in Uttarakhand.	
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 East 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.

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 /certificate/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	10

	<p>inputs in any one of the following.</p> <p>It may include.....</p> <ol style="list-style-type: none"> 1. Any Natural/Man Made disaster of your area and its management. 2. Potential Threats to the security and its management. 	
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
<p>This course can be opted as an elective by the students of following subjects: Open for All</p>		
<p>Suggested Continuous Evaluation Methods:</p> <p>Prepared intervention plan on anyone of the above areas.</p> <p>Collection of Data related to the area – research orientation.</p> <p>A letter certifying the authenticity of work done from the mentor report of the implemented plan and impact /experience of intervention.</p>		
<p>Course Prerequisites: To Study this course, a student must have had cleared the 4th semester.</p>		

MINOR ELECTIVE

Science and Technology in Relation to Warfare

No. of Lectures-60

Credit 04

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.

Unit-I Evolution of Science and Technology.

- 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, Ratna, New Delhi.
2. Rehman, A. (1972) Science Technology and Society, People's 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.

DISASTER MANAGEMENT

Objective:

The course will provide general insight to understanding disaster management and approaches including appraising on disaster, typology and management along with various approaches.

Unit-I Disaster Management

- A. Meaning and definition of disaster management.
- B. Concept and Significance.
- C. Approaches to Disaster Management-Elements, Rationale and Objectives.

Unit-II Typology of Disaster

- A. Natural Disaster.
- B. B. Manmade Disaster.

Unit-III Policy

- A. National.
- B. Options and significance.
- C. Disaster management support.

Unit-IV Elements of Disaster Management

- A. Rescue.
- B. Relief .
- C. Rehabilitation.
- D. Mitigation.

Unit-V Disaster and War

- A. Socio-economic effects,
- B. Health and environmental effects.
- C. Education for Disaster risk reduction.

Suggested Readings:

1. Bourriau, Janine; Understanding Catastrophe; Cambridge University Press, Cambridge, 1992. Carter,
2. W. Nick; Disaster Manageient - A Disaster Manager's Handbook, A.D.B., Manilla, Philippines, 1991.
3. Coppola, P. Damon, Introduction to International Disaster Management. Elsevier, Oxford, 2006.
4. Garlake, Teresa, Dealing with Disasters, Oxfam, Oxford, 2000.
5. Goel SL and Ram Kumar, Disaster Management, Deep & Deep Publications, New Delhi, 2001,
6. Goel, S.L. Encyclopedia of Disaster Management, Deep and Deep Publications, New Delhi, 2006.
7. Keller, A Edward, Environmental Geology, Prentice Hall, New Delhi, 2010.
8. Monappa, K.C., Disaster Preparedness Akshay Public Agencies, New Delbi, 2004.
- 9 FIRST YEAR (CERTIFICATE COURSE)

SKILL ENHANCEMENT COURSES

JOURNALISM

CREDIT 03

NO. OF LECTURES 45

Objective:

This paper attempts at explaining the fundamental components of journalism.

Unit 1 Basics of Journalism

- A. Meaning , Definition and Concept of Journalism
- B. Qualities of Journalism
- C. Ethics of Journalism

Unit II Defining News

- A. The ingredients of News
- B. Sources of News
- C. Reporting

Unit III News Content

- A. Head lines
- B. Columns
- C. Features (Art, Entertainment, Sports etc.)

Unit IV News writing procedures

- A. The Paper and Heading
- B. Brief Paragraphing and Readability
- C. Unusual or incorrect material

Unit V: Newspaper

- A. Making up the newspaper and aids to clarity
- B. Editorials
- C. Editorial policy

Suggested Readings:

1. Menon, P.K., Practical Journalism, Avishkar publishers and Distributers, Jaipur, 2005
2. Dhara, R., Journalism, Industry Publishers, Calcutta, 1945
3. Basu, R.N., News reporting, Avishkar publishers and Distributers, Jaipur, 2005

BOOKS SUGGESTED

1. Menon, P.K., Practical Journalism, Jaipur : Aavishkar Publishers & Distributers, 2005.
2. Dhara, R., Journalism, Calcutta Industry Publishers, 1945.
3. Basu, R.N., Handbook of Journalism, Jaipur: Pointer Publishers, 2005.
4. Kamath, M. V., The Journalist's Handbook, New Delhi : Vikas, 1980.
5. Dube, S.K., Patrakarita Ke Nye Aayam, First edition 2006, Lokbharti Prakashan , Allahabad.