

**Deen Dayal Upadhyaya Gorakhpur University, Gorakhpur**



**Syllabus**  
**for**  
**B.A./B.Sc. Programme (3+1 year)**  
**in**  
**Defence & Strategic Studies**  
**2024**

**Department of Defence & Strategic Studies**  
**Faculty of Science**  
**Deen Dayal Upadhyaya Gorakhpur University, Gorakhpur**

## UG Programme 4 Years(3+1)

<b>SEMESTER- WISE TITLES OF THE PAPERS IN UG DEFENCE &amp; STRATEGIC STUDIES</b>				
YEAR	COURSE CODE	PAPER TITLE	CREDIT	
<b>Semester-I</b>				
B.A/B.Sc.-I	DSS-101F	Conceptual Aspect of war	4+0	
	DSS 102F	Basics of Operational Exercise-I	0+2	
	<b>Semester-II</b>			
	DSS-103F	Military History of India	4+0	
	DSS-104F	Basics of Operational Exercise-II	0+2	
<b>Semester-III</b>				
B.A/B.Sc. II	DSS-201F	National Security- Conceptual Aspects	4+0	
	DSS-202F	Basics of Operational Exercise-III	0+2	
	<b>Semester-IV</b>			
	DSS-203F	Strategic Thought	4+0	
	DSS-204F	Basics of TEWTs/Sand Model Exercises, Sketching, Discussion	0+2	
B.A/B.Sc. – III	<b>Semester-V</b>			
	DSS 301F	Indian Defence Mechanism	4+0	
	DSS 302F	National Security of India	4+0	
	DSS 303F	Military use of Electromagnetic Spectrum, Press Clipping, Tour	2+0	
	<b>Semester-VI</b>			
	DSS-304F	Science and Technology in Relation to Warfare	4+0	
	DSS-305F	Military Psychology	4+0	
	DSS-306F	Spotting Strategic Locations, Military Models, Presentation	2+0	

<b>Semester -VII</b>				
	COURSE CODE	COURSE NAME	TYPE	CREDITS
B.A/B.Sc. IV	DSS-401F	Strategic Theories and Concepts	Core	4+0
	DSS-402F	National Security: Concept and Theories	Core	4+0
	DSS-403F	Disarmament and Arms Control	Core	4+0
	DSS-404F	Economic Aspects of War	Subject Elective	4+0
	DSS-405F	Security and Cooperation in South Asia	Subject Elective	4+0
	DSS-406F	Practical	Core	0+4

<b>Semester-VIII</b>				
	COURSE CODE	COURSE NAME	TYPE	CREDITS
B.A/B.Sc. IV	DSS-407F	Indian Military History (from 1947 to Date)	Core	4+0
	DSS-408F	International Relation : Concept and theories	Core	4+0
	DSS-409F	Legal Aspects of war	Core	4+0
	DSS-410F	India's Internal Security Management	Subject Elective	4+0
	DSS-411F	Geopolitics and Military Geography	Subject Elective	4+0
	DSS-412F	Practical	Core	0+4

### Program Outcomes (POs)

1. Upon completion of the programme of Bachelor's 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 honor's 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 programme will incorporate a significant 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 more interesting and absorbing aiming at demonstrative learning.

### B.A. /B.Sc.First Year

#### Certificate in Fundamentals of Defence and Strategic Studies

#### Program Specific Outcomes (PSOs)-

After undergoing this course a student will be in a 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 evolution of art of warfare 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)

	Name of Paper	Credits	No of Lectures
Semester I	Conceptual Aspect of war (Theory)	4	60
	Basics of Operational Exercises-I (Practical)	2	30
	Total	6	90
Semester II	Name of Paper	Credits	Lectures
	Military History of India (Theory)	4	60
	Basics of Operational Exercises-II (Practical)	2	30
	Total	6	90

## B.A. /B.Sc. Second Year

### Diploma in Defence and Strategic Studies

#### Program Specific Outcomes (PSOs) -

After undergoing this course a student will be in a 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 thinkers. Students will also develop analytical thinking regarding relevance of such thought to contemporary period. (Semester IV)

Semester III	Name of Paper	Credits	No. of Lectures
	National Security- Conceptual Aspects (Theory)	4	60
	Basics of Operational Exercises- III (Practical)	2	30
	Total	6	90
Semester IV	Name of Paper	Credits	No. of Lectures
	Strategic Thought (Theory)	4	60
	Basics of TEWTs/Sand Model Exercises, Sketching, Discussion (Practical)	2	30
	Total	6	90

## B.A. /B.Sc.,Third Year

### Degree in Bachelor of Arts or Science

#### Program Specific Outcomes (PSOs)

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

1. Equip the students with specific knowledge of India's threat perceptions; An assessment at both internal and external level besides fair idea of problems the country faces as a nation state; and The Structure, objectives, role and problems of Civil Defence Organization in India. (Semester V)
2. 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; besides Understanding the concepts and applications of Electronics Warfare, Space and Ballistic Missile Defence (BMD) in Warfare. (Semester VI)

Semester V	Name of Paper	Credits	No of Lectures
	Indian Defence Mechanism (Theory)	4	60
	National Security of India (Theory)	4	60
	Military use of Electromagnetic Spectrum, Press Clipping, Tour (Practical)	2	30
	Total	13	195

Semester VI	Name of Paper	Credits	No of Lectures
	Science And Technology in Relation to Warfare (Theory)	4	60
	Military Psychology (Theory)	4	60
	Spotting Strategic Locations, Military Models, Presentations (Practical)	2	30
	<b>Total</b>	<b>13</b>	<b>195</b>

**B.A./ B.Sc., Forth Year**  
**Degree with Honors in Bachelor of Arts or Science**

<b>Semester -VII</b>			
	Name of Paper	CREDITS	No of Lectures
Semester VII	Strategic Theories and Concepts	4+0	60
	National Security: Concept and Theories	4+0	60
	Disarmament and Arms Control	4+0	60
	Economic Aspects of War	4+0	60
	Security and Cooperation in South Asia	4+0	60
	Practical	0+4	60
	<b>Total</b>	<b>20</b>	<b>300</b>

<b>Semester-VIII</b>			
	Name of Paper	CREDITS	No of Lectures
Semester VIII	Indian Military History (from 1947 to Date)	4+0	60
	International Relation : Concept and theories	4+0	60
	Legal Aspects of war	4+0	60
	India's Internal Security Management	4+0	60
	Geopolitics and Military Geography	4+0	60
	Practical	0+4	60
	<b>Total</b>	<b>20</b>	<b>300</b>

**B.A./B.Sc. I, Semester I<sup>st</sup>, Defence and Strategic Studies Paper –I**  
**Conceptual Aspects of war**  
**(Theory)**

<b>Programme /Class: Certificate</b>		<b>Year: First</b>	<b>Semester: I</b>
Course Code: DSS-101F		Course Title: <b>Conceptual Aspects of war( Theory)</b>	
<b>Course outcomes:</b> The student at the completion of the course will be able to: 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.			
Credits: 4		Core Compulsory / Elective	
Max. Marks: 25+75		Min. Passing Marks:33	
Total No. of Lectures-60			
<b>Units</b>	<b>Topic</b>		<b>No of Lectures</b>
<b>I</b>	1. Definition, object, types and caused of War 2. Evolution of war – Primitive war, Feudal war, peoples war, modern war.		08
<b>II</b>	3. Nature and character of war, features of modern war. 4. War as an instrument of policy : Past, Present and Future		07
<b>III</b>	5. Modern Warfare a. Concept and definition b. Features of Modern Warfare		07
<b>IV</b>	6. Guerrilla Warfare a. Origin and concept. b. Principles, techniques and characteristics of guerrilla warfare. c. Counter guerrilla measures.		08
<b>PART B</b>			
<b>V</b>	7. Psychological Warfare a. Definition and concept. b. Functions and Limitations.		8
<b>VI</b>	8. Economic Warfare a. Concept and definition b. Basic dimensions c. Effects of war on National Economy		6
<b>VII</b>	9. Nuclear warfare a. Beginning of nuclear era and effects of nuclear explosion. b. Nuclear strategies of 'Deterrence' and 'Massive Retaliation'.		8
<b>VIII</b>	10. Chemical and Biological Warfare a. Definition and concept b. Agents, their effect and military use.		8

**Suggested Readings:**

1. Andreski S., (1968) Military Organization and Society, Univ. California Press, Berkeley.
2. Anthony James Joes, (1996) Guerrilla Conflict before the Cold War, (Praeger Publishers,
3. Aron R., (1966) Peace and War: A Theory of International Relations, Praeger, New York.
4. Barringer R., (1972) War: Patterns of Conflict, MIT Press, Cambridge, Mass.
5. Blainey G., (1973) The Causes Of War, Macmillan, London.
6. Montgomery Viscount, (1983) A History of Warfare, William Morrow & Co, New York City.
7. Mukherji and Shyam Lal, (1952) A Textbook of Military Science, Vol. II., Navayuga, New Delhi.
8. Osanka, F.M., (1962) Modern Guerrilla Warfare, Free Press of Glencoe, New York.
9. Sidhu, K.S., (1988) War and Its Principles, Atlantic, New Delhi.
10. Tripathi, K.S., (1970) Evolution of Nuclear Strategies, Vikas, New Delhi
11. Van Evara, Stephen, (1999), Causes of War: Power and the Roots of Conflict, Cornell University Press, Ithaca.
12. सिंह लल्लनजी, (2003) राष्ट्रीय रक्षा और सुरक्षा, प्रकाश बुक डिपो, बरेली
13. सिंह अशोक कुमार, (2018) राष्ट्रीय सुरक्षा, प्रकाश बुक डिपो, बरेली
14. सिंह, टण्डन, अग्रवाल (2021) युद्ध और शांति का अध्ययन, शारदा पुस्तक भवन, इलाहाबाद
15. पाण्डेय, बाबू राम एवं पाण्डेय, रामसूरत, (2005) युद्ध और शांति के मूल तत्व, प्रकाश बुक, डिपो बरेली

This course can be opted as an elective by the students of following subjects: Open for all The eligibility for this paper is 10+2 with any subject

**Suggested Continuous Evaluation Methods:**

Seminar/ Presentation on any topic of the above syllabus

Research Orientation

Test with multiple choice questions/ short and long answer questions Attendance

Course prerequisites: To study this course, a student must have had the subject ALL ..... in class 12<sup>th</sup>.

The eligibility for this paper is 10+2 with any subject

**Suggested Equivalent online courses:**

- Coursera
- Swayam

**B.A. /B.Sc.I ,Semester I , Defence and Strategic Studies Paper 2  
(Practical)**

Programme/Class: Certificate		Year: First	Semester: First
Course Code: DSS-102F		Course Title: Basics of Operational Exercises-I	
Credits: 2		Core Compulsory / Elective	
Max. Marks: 25+75		Min. Passing Marks:40	
Total No. of Lectures-Tutorials-Practical-30 (60 hours)			
Unit	Topic		No. of Lectures
I	1. Maps: Definition and Features; Classification and its utility for Military; 2. Marginal information of map 3. Conventional Signs: Military and Geographical		06
II	4. North: Types of North and finding out True North; The Pole Star Method; The equal altitude method; Watch method & Compass method.		08
III	5. Scale: Definition, Methods of representing Scale: Inter conversion of scale into Representative Fraction, construction of simple scale line and the comparative Scale lines. 6. Service Protectors and their use		16

7.	GRID System: Four Figure and six figure Map References.	
This course can be opted as an elective by the students of following subjects: Open for all .....		
<b>Suggested Continuous Evaluation Methods:</b> Research Orientation Test with multiple choice questions/short and long answer questions,or Record ,Viva Voce		

**B.A. /B.Sc I ,Semester II, Defence and Strategic Studies, Paper 01**  
**Military History of India**  
**(Theory)**

Programme /Class: Certificate	Year: First	Semester: II
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Course Code: DSS-103F	Course Title: <b>Military History of India</b> ( Theory)
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**Course outcomes:**  
After undergoing this course a student will be in a position to –  
Become familiar in evolution of art of warfare 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.

Credits: 4	Core Compulsory / Elective
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Max. Marks: 25+75	Min. Passing Marks:33
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Total No. of Lectures-60

Units	Topic	No of Lectures
I	1. Military System in Vedic and Epic Age. 2. Macedonian and Indian art of war with particular reference to the battle of Hydaspes (326 B.C.)	7
II	3. Kautilya's Philosophy of War : State Craft, Military Organisation, Weapon, Intelligence System and the Art of War	7
III	4. Rajput and Turk Military System with particular reference to the Battle of Tarran (1191 & 1192 AD)	7
IV	5. The Mughal Military System with particular reference to the First Battle of Panipat (1526 AD)	7
PART B		
V	6. The Maratha Military System with special reference to the third battle of Panipat (1761 AD)	8
VI	7. Sikh Military System with special reference to the battle of Sobraon (10 Feb. 1846AD)	8
VII	8. Indian war of independence 1857	8
VIII	9. Evolution of Indian Armed forces from 1858 to 1947 A.D.	8



**Suggested Readings:**

1. Alfred, David., (1953) Indian Art of War, Atma Ram , Delhi.
2. Bajwa F.S., (1964) Military System of the Sikhs, Moti Lal, Banarsi Dass, Delhi.
3. Bruce, George., (1969) Six Battles of India, Rupa & Company, Calcutta.
4. Das, S.T., (1969) Indian Military - Its History and Development, Sagar, New Delhi.
5. Dikshitar, Ramachandra V. R. (1999) War in Ancient India. Cosmo, New Delhi.
6. Fuller, J.F.C., (1958) Generalship of Alexander The Great, Natraj Publishes, Dehradun.
7. Gustav Oppert, (1967) Weapons, Army Organisation and Political Maxims of Ancient Hindus, R.F Patel Rajratan Press, Ahmedabad.
8. Kangle, R.P., (1963) Kautilya`s Arth Shastra, University of Bombay, Mumbai.
9. Majumdar, B.K., (1960) Military System in Ancient India, Firma K.L. Mukhopadhyoy, Calcutta.
10. Majumdar, B.N., (1963) Study of Indian Military History. Army Educational Store, Delhi.
11. Roy, Kaushik, (2004) From Hydaspes to Kargil: A History of Warfare in India from 326 BC to AD 1999. Manohar, New Delhi.
12. Roy, Kaushik (2011, War, Culture and Society in Early Modern South Asia, 1740– 1849, Routledge.
13. लल्लनजी सिंह (2003) राष्ट्रीय रक्षा और सुरक्षा, प्रकाश बुक डिपो, बरेली
14. अशोक कुमार सिंह (2018) राष्ट्रीय सुरक्षा, प्रकाश बुक डिपो, बरेली
15. लल्लनजी सिंह, युद्ध और शांति की समस्याएं: प्रकाश बुक डिपो बरेली, 1997–98
16. डेविड ,मेजर अलफ्रेड, (1992), भारतीय युद्ध कला, अनुवाद एस.डी. चोपड़ा, मध्य प्रदेश हिंदी ग्रंथ अकादमी, भोपाल
17. शर्मा, डॉ. योगेंद्र कुमार एवं निगम, रामलाल (1998.99), सैन्य विज्ञान भाग 1 एवं 2, अलका प्रकाशन, कानपुर
18. सिंह, टण्डन, अग्रवाल, (2012), भारतीय युद्ध कला, शारदा पुस्तक भवन, इलाहाबाद
19. सिंह, टण्डन, अग्रवाल, (2009), स्वतंत्र भारत की युद्ध कला, (कश्मीर से कारगिल तक) शारदा पुस्तक भवन, इलाहाबाद
20. प्रसाद और सिंह, भारतीय सैन्य इतिहास की रूपरेखा
21. अशोक सिंह– भारतीय सैन्य इतिहास

This course can be opted as an elective by the students of following subjects: Open for all The eligibility for this paper is 10+2 with any subject

**Suggested Continuous Evaluation Methods:**

Seminar/ Research Orientation/Presentation on any topic of the above syllabus Test with multiple choice questions/ short and long answer questions Attendance

Course prerequisites:To study this course,a student must have had the subject ALL .. in class 12<sup>th</sup>. The eligibility for this paper is 10+2 with any subject

**Suggested Equivalent online courses:**

- Coursera
- Swayam

**B.A. /B.Sc. I , Semester II, Defence and Strategic Studies ,Paper 02  
(Practical)**

Programme/Class: Certificate	Year: First	Semester: II
Course Code: DSS-104F	Course Title: Basics of Operational Exercises-II	
Credits: 2	Core Compulsory / Elective	
Max. Marks: 25+75	Min. Passing Marks:40	
Total No. of Lectures-Tutorials-Practical-30 (60 hours)		

Unit	Topic	No. of Lectures
I	1. Bearing: Definition, Inter conversion of Bearing in detail.	06
II	2. 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.	08
III	3. To find out the bearing of a point from other point situated on the ground.	06
IV	4. To determine one's and enemy's position on the map by resection and intersection methods with the help of compass. 5. Traversing / Root scathing	10
This course can be opted as an elective by the students of following subjects: Open for all .....		
<b>Suggested Continuous Evaluation Methods:</b> 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 <sup>th</sup> / certificate/diploma. .....		

**B.A. /B.Sc II ,Semester III, Defence and Strategic Studies, Paper 01**  
**National Security-Conceptual Aspect**  
**(Theory)**

Programme/Class: Certificate	Year: Second	Semester: III
Course Code: DSS-201F	Course Title: National Security-Conceptual Aspects( Theory)	
<b>Course outcomes:</b> <b>This course helps students develop core competencies in national security affairs by building his/her capacity on essentials of National Security through theory and practice.</b>		
Credits: 4	Core Compulsory / Elective	

Max. Marks: 25+75		Min. Passing Marks:33
Total No. of Lectures-60		
Units	Topic	No of Lectures
I	1. Introduction (a) Concepts of Nation, State and Nation – State (b) Origin, Concept, and objectives of National Security.	08
II	2. Security and Defence Policies formation and their linkages	07
III	3. National and International Security related Concepts <b>a.</b> National Power and its elements, National Interest, Foreign Policy and Diplomacy. <b>b.</b> Balance of Power, Collective Security and Collective Defence, Non-. Alignment, Deterrence, Disarmament and arms control	07

IV	4.Challenges and Threats to National Security:Military and Non-Military	08
PART B		
V	5. Concept of Defence: Defence Planning, Military ,Nuclear and Missile Capabilities of India, China and Pakistan	8
VI	6. Proliferation of weapons of Mass Destruction(WMD)andNPT, CTBT, MTCR, NMD and FMCT	6
VII	7. Armaments: Arms Race, Arms Aid, Arms Trade and Small Arms Proliferation	8
VIII	8. Measures to address the challenges of National Security 9. Relevance of Science & Technology in National Security	8

**Suggested Readings:**

1. Booth, K., (2007) Theory of World Security: Cambridge University Press, Cambridge,
2. Buzan, Barry., (1987)People Fear and State: New Delhi, Trans Asia Publications.
3. Das, S.T., (1987) National Security in Perspective: Delhi, Gian Publishing House.
4. Frankel, Joseph., (1970) National Interest: London, Macmillan.
5. Military Balance., Latest Edition (IISS)
6. Morgenthau, Hans J.,(1969) Politics Among Nations, Calcutta, Scientific Book Agency.
7. Palmer, Norman D. and Perkins, Howard C., (1968) International Relations: Calcutta, Scientific Book Agency
8. Chowdhury, Subrata Roy., (1966) Military Alliances and Neutrality in War and Peace: New Delhi, Orient Longman.
9. Singh, Nagendra., (1974) The Defence Mechanism and the Modern State: New Delhi, Asia Publishing House.
10. SIPRI Year Book Latest Edition.
11. उम्मन, टी.के.(2010) सुरक्षा: एक नया दृष्टिकोण, प्रभात प्रकाशन , नई दिल्ली
12. पाण्डेय, डॉ. रामसूरत, (2014) राष्ट्रीय सुरक्षा एवं अंतरराष्ट्रीय संबंध, प्रकाश बुक डिपो, बरेली
13. सिंह लल्लनजी, (2003) राष्ट्रीय रक्षा और सुरक्षा, प्रकाश बुक डिपो, बरेली
14. श्रीवास्तव, जे. एम.एवं सिन्हा, हर्ष कुमार (2017) राष्ट्रीय सुरक्षा, प्रकाश बुक डिपो, बरेली
15. सिंह अशोक कुमार, (2018) राष्ट्रीय सुरक्षा, प्रकाश बुक डिपो, बरेली
16. कुमार, महेंद्र , (2005) अंतरराष्ट्रीय राजनीति के सैद्धांतिक पक्ष, शिवलाल अग्रवाल एंड कंपनी, आगरा
17. अशोक कुमार सिंह, संजीव भदौरिया, विनोद कुमार सिंह, प्रवीण कुमार सिंह– राष्ट्रीय सिद्धांत एवं व्यवहार
18. डॉ0 अशोक कुमार सिंह – 21वीं सदी में भारत का सुरक्षा दर्शन
19. डॉ0 अशोक कुमार सिंह– राष्ट्रीय सुरक्ष के आयाम

This course can be opted as an elective by the students of following subjects: Open for all The eligibility for this paper is 10+2 with any subject

**Suggested Continuous Evaluation Methods:**

Seminar/ Research Orientation/ Presentation on any topic of the above syllabus Test with multiple choice questions/ short and long answer questions Attendance

Course prerequisites:To study this course,a student must have had the subject ALL .. in class 12<sup>th</sup>. The eligibility for this paper is 10+2 with any subject

**Suggested Equivalent online courses:**

- Coursera
- Swayam

**B.A. /B.Sc. II., Semester III , Defence and Strategic Studies ,Paper 02  
(Practical)**

Programme/Class: Certificate	Year: Second	Semester: III
Course Code: DSS-202F	Course Title: Basics of Operational Exercises-III	
Credits: 2	Core Compulsory / Elective	

Max. Marks: 25+75		Min. Passing Marks:40
Total No. of Lectures-Tutorials-Practical-30 (60 hours)		
Unit	Topic	No. of Lectures
I	1. Field Craft 2. Relief Features and their representation on the map.	06
II	3. Types of slopes and their representation on the map	08
III	4. Gradient – Determination of gradients.	06
IV	5. Inter visibility – Determination of inter visibility in case of rise or fall of slope. 6. Traversing	10
This course can be opted as an elective by the students of following subjects: Open for all .....		
<b>Suggested Continuous Evaluation Methods:</b> 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 <sup>th</sup> / certificate/diploma. .....		

**B.A. /B.Sc II ,Semester IV, Defence and Strategic Studies, Paper 01  
Strategic Thought  
(Theory)**

Programme/Class: Certificate		Year: Second	Semester: IV
Course Code : DSS-203F		Course Title: <b>Strategic Thought</b> ( Theory)	
<b>Course outcomes:</b> The course will provide students an acquaintance with the concepts of strategic thinking as propounded by prominent classical and modern thinkers. Students will also develop analytical thinking regarding relevance of such thought to contemporary period.			
Credits: 4		Core Compulsory / Elective	
Max. Marks: 25+75		Min. Passing Marks:33	
Total No. of Lectures-60			
Units	Topic	No of Lectures	
I	1. Kautilaya's Philosophy of war.	10	
II	2. Sun Tzu- The Art of war.	05	
III	3. Clausewitz's theories on war and politics.	06	
IV	4. Mao-Tse-Tung's views on Guerrilla warfare.	08	
		PART B	

<b>V</b>	5. J.F.C. Fuller and Liddell Hart: Their views on Mechanized warfare.	08
<b>VI</b>	6. Mahan's Views on Sea Power and Naval Warfare.	05
<b>VII</b>	7. Douhet and Mitchell: Their views on the Role of Air Power in Modern Warfare.	08

<b>VIII</b>	8. Y.Harkabi, John Foster Dulles and Andre Beaufre - Theories of Nuclear War and Deterrence. 9.Thoughts of Mahatama Gandhi and Nehru on Peace, Security and Development.	10
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**Suggested Readings:**

1. Dass, S.T., (1987) An Introduction to the art of war
2. Earl, E.M., (1943) Makers of Modern Strategy, Princeton.
3. Fuller, J.F.C., (1998) Armament and History, Da Capo Press.
4. Fuller, J.F.C., (1992) The Conduct of war, Da Capo Press.
5. Shama Shastri., (2012) Kautilya's Arthshastra, Low price Publications.
6. Tzu, Sun., (2015) The Art of War, Grapevine, India.
7. Duffy, Christopher., (1987) Siege Warfare, Routeledge Kegenpaul. 8.Ropp, Theodore., (2000) War in the Modern World, John Hopkins.
9. Beaufre Andre., (1965) Deterrence and Strategy, Faber & Faber.
10. Mao-Te-Tung., (1967) On the protracted War: Selected works, Foreign Language Press, Peiking.
11. Nasultion, Abdul Haris., (1965) Fundamentals of Guerrilla Warfare, Fredrick A Prager.
12. Reid, Brain Holden., (1987) J.F.C.Fuller: Military Thinker, Palgrave McMilan.
13. Greene, T.N., (1962) The Guerrilla and How to Fight Him, Fredrick A Prager.
14. जौहरी, आर.सी, (1977), पाश्चात्य सैन्य विचारक, चन्द प्रकाश एंड ब्रदर्स, हापुड
15. पाण्डेय, बाबूराम एवं पाण्डेय, रामसूरत, (2005), स्त्रातेजिक विचारक, बरेली बुक डिपो, बरेली
16. सिंह, लल्लनजी, (1997-98), आधुनिक सैन्य चिंतक (विचारक), प्रकाश बुक डिपो, बरेली
17. अधिकारी, शेखर, (2001), आधुनिक स्त्रातेजिक चिंतक, एस.पी.जे पब्लिकेशस, इलाहाबाद
18. चेगुएवारा आर्गेस्ता, (2008), छापामार युद्ध, अनुवाद नरेश 'नदीम' प्रकाशन संस्थान, नई दिल्ली
19. सुंतजू, (2010), युद्ध की कला, अनुवाद डॉ० आलोक कुमार, मांफ्ले प्रेस, नोएडा

This course can be opted as an elective by the students of following subjects: Open for all The eligibility for this paper is 10+2 with any subject

**Suggested Continuous Evaluation Methods:**

Seminar/ Research Orientation/Presentation on any topic of the above syllabus Test with multiple choice questions/ short and long answer questions Attendance

Course prerequisites:To study this course,a student must have had the subject ALL .. in class 12<sup>th</sup>. The eligibility for this paper is 10+2 with any subject

**Suggested Equivalent online courses:**

- Coursera
- Swayam

**B.A. /B.Sc. II,Semester IV, Defence and Strategic Studies ,Paper 02  
(Practical)**

<b>Programme/Class: Certificate</b>	<b>Year: Second</b>	<b>Semester: IV</b>
Course Code: DSS-204F	Course Title: Basics of TEWTs/Sand Model Exercises, Sketching, Discussion	
Credits: 2	Core Compulsory / Elective	
Max. Marks: 25+75	Min. Passing Marks:40	
Total No. of Lectures-Tutorials-Practical-30 (60 hours)		

Unit	Topic	No. of Lectures
I	<b>1.Elementary knowledge of-</b> a. Study and description of ground b. Judging distance c. Camouflage and deception d. Fire Control Order <b>Or</b> <b>1. Sand Model Exercises</b> a. Battle of Panipat, 1526 A.D. b. Battle of Assaye, 1803 A.D.	08
II	<b>2. a. Section formation</b> b. Platoon Formation c. Patrolling d. Message Writing <b>or</b> <b>2. Sketching of the Charts of Indian Battles</b> a. Battle of Thagla Ridge, 1962. b. Kargil Conflict, 1999	08
III	<b>3. Sketching of the Charts of Western Battles</b> a. Battle of Trafalgar, 1805. b. Battle of Somme, 1919. <b>or</b> <b>3. Military Appreciation of the situation</b>	05
IV	4. Lecture and group discussion on current defence topics.	12
This course can be opted as an elective by the students of following subjects: Open for all .....		
<b>Suggested Continuous Evaluation Methods:</b>		
Test with multiple choice questions/ Research Orientation/ short and long answer questions, Record ,Viva Voce		
Course prerequisites: To study this course, a student must have had the subject ..... in class/12 <sup>th</sup> / certificate/diploma. .....		

**B.A. /B.Sc III, Semester V, Defence and Strategic Studies, Paper 01**  
**Indian Defence Mechanism**  
**(Theory)**

<b>Programme/Class: Certificate</b>	<b>Year: Third</b>	<b>Semester: V</b>
Course Code: DSS-301F	Course Title: <b>Indian Defence Mechanism ( Theory)</b>	
Course outcomes: Students will learn about the defence mechanism of India and evaluate its strengths and weaknesses.		
Credits: 4	Core Compulsory / Elective	
Max. Marks: 25+75	Min. Passing Marks:33	

Total No. of Lectures-60		
Units	Topic	No of Lectures
I	1.Introduction and Differences between Army , Military and Defence Forces 2.Second line Defence [introduction to Paramilitary Forces inbrief)	08
II	2. The Indian Defence Forces a. Rank Structure of the Three Services. b. Recruitment methods for Defence Services. c. .Important training Institution of the Three Services.	07
III	3.Higher Defence Organizations of India a. Power of the President of India in relation of Defence. b. Role and function of Ministry of Defence. c .Composition and function of Defence Committees/NSC. d .Chief of Staff and joint service Organization.	08

IV	4.Army Organization a. Organization of army Headquarters (Role of COAS and PSOs). b. Static and Field formation of Indian Army. c. Arms and Services.	07
PART B		
V	5. Air Force Organization a. Organization of Air Force Headquarters (Role of CAS and PSOs). b. Static and Field formation of Indian Air Force.	07
VI	6.Navy Organization a. Organization of Naval Headquarters (Role of CNS & PSOs). Static and Field formation of Indian Navy.	07
VII	7. Cooperation Between Armed Forces and Civil Authorities a. Maintenance of Law and Order b. Flood Relief Operations c. Rescue and Relief Operation	08
VIII	8.Indian's Defence Cooperation with Foreign Countries a. Defence Diplomacy. b. Cooperation on Capacity Building and Training c. Defence Partnerships with Major Powers	08

**Suggested Readings:**

1. Venkateswaran, A.L., (1967) Defence Organisation in India, New Delhi: Government of India.
2. Government of India, (1924) The Army of India and its Evolution, Calcutta.
3. Ministry of Defence, Government of India, Indian Armed Forces Year Book, (Annual).
4. Palit, D.K., (1989) Essentials of Military Knowledge, New Delhi.
5. Singh, Nagendra., (1967) Defence Mechanism of Modern State, New Delhi.
6. शर्मा, डॉ. योगेन्द्र कुमार एवं निगम, रामलाल, (1998-99), सैन्य विज्ञान भाग-2, अलका प्रकाशन, कानपुर

<p>7. वार्षिक रिपोर्ट : रक्षा एवं विदेश मंत्रालय, भारत सरकार,</p> <p>8. कारडोजो, मेजर जनरल इयान (2016), भारतीय सेना का गौरवशाली इतिहास, अनुवाद विनोद कुमार मिश्र, प्रभात प्रकाशन दिल्ली</p> <p>9. लल्लनजी सिंह (2003) राष्ट्रीय रक्षा और सुरक्षा, प्रकाश बुक डिपो, बरेली</p> <p>10. अशोक कुमार सिंह (2018) राष्ट्रीय सुरक्षा, प्रकाश बुक डिपो, बरेली</p> <p>11. लल्लनजी सिंह, युद्ध और शांति की समस्याएं: प्रकाश बुक डिपो बरेली, 1997-98</p>
<p>This course can be opted as an elective by the students of following subjects: Open for all The eligibility for this paper is 10+2 with any subject</p>
<p>Suggested Continuous Evaluation Methods: Seminar/ Research Orientation/ Presentation on any topic of the above syllabus Test with multiple choice questions/ short and long answer questions Attendance</p>
<p>Course prerequisites:To study this course,a student must have had the subject ALL .. in class 12<sup>th</sup>. The eligibility for this paper is 10+2 with any subject</p>
<p>Suggested Equivalent online courses:</p> <ul style="list-style-type: none"> <li>• Coursera</li> <li>• Swayam</li> </ul>

**B.A. /B.Sc III , Semester V, Defence and Strategic Studies, Paper 02**  
**National Security of India**  
**(Theory)**

Programme/Class: Certificate	Year: Third	Semester: V
Course Code: DSS-302F	Course Title: <b>National Security of India</b> ( Theory)	
<b>Course outcomes:</b> <b>Students will learn about the defence mechanism of India and evaluate its strengths and weaknesses.</b>		

Credits: 4	Core Compulsory / Elective
Max. Marks: 25+75	Min. Passing Marks:33
Total No. of Lectures-60	

Units	Topic	No of Lectures
I	1. India's Geo-Strategic Location and its significance. a. India's Borders- Nature and characteristics of land borders. b. Indian ocean territory and its strategic significance	08
II	2.Indian Concept of National Security a. Meaning and Definition b. Threat Perceptions	07
III	3. India's Security Problems since independence. a. Geo-political effects of partition. b. Effects on Armed Forces	08



<b>IV</b>	4. Determinants of Indian Foreign Policy - Basic Determinants: Objectives of Indian foreign policy; global and regional perspective.	07
	PART B	
<b>V</b>	5. External Dimensions of India's security a. Security problems related to Pakistan including Indo-Pak wars. b. Security problems related to China including 1962 Sino-Indian war. c. Regional Security challenges. d. India's Maritime Security Challenges	07
<b>VI</b>	6. Internal dimension of India's security a. Terrorism in Jammu & Kashmir and Punjab b. Insurgency in North eastern states c. Naxalism	07

<b>VII</b>	7. Defence Organization in India: - Structure, Objectives, Role, and Problems.	08
<b>VIII</b>	8. National Security Council: Structure and Role 9. National Security Management and Future Challenges	

**Suggested Readings:**

1. Bajpai, U.S., (1986) India and its Neighbourhood: New Delhi, Lancer International.
2. Baranwal, S.P., (1984) Measures of Civil Defence in India: New Delhi, Guide Publications.
3. Bobbing, Ross and Gordon, Sandy, (1992) India's Strategic Future: Delhi, Oxford University Press.
4. Chatterjee, R.K. (1978) India's Land Borders- Problems and Challenges: New Delhi, Sterling Publishers.
5. Chaudhury, Rahul Roy, (1995) Sea Power and India's Security, London, Brassey's.
6. Dass, S.T., (1987) National Security in Perspective: Delhi, Gian Publishers.
7. Kavic, Lorne J., (1967) India's Quest For Security: Defence Policies 1947-1965, Los Angeles, University of California Press.
8. Menon, V.P., (1961) The Story of the Integration of Indian States: New Delhi, Orient Longmans.
9. लल्लनजी सिंह (2003) राष्ट्रीय रक्षा और सुरक्षा, प्रकाश बुक डिपो, बरेली
10. अशोक कुमार सिंह (2018) राष्ट्रीय सुरक्षा, प्रकाश बुक डिपो, बरेली
11. लल्लनजी सिंह, युद्ध और शांति की समस्याएं: प्रकाश बुक डिपो बरेली, 1997-98
12. दत्त, बी.पी. (2007) स्वतंत्र भारत की विदेश नीति, अनुवाद नरेंद्र तोमर, नेशनल बुक ट्रस्ट इंडिया
13. कुमार, अशोक, (2015) भारत की आंतरिक सुरक्षा: मुख्य मुख्य चुनौतियां, माइग्राहित एजुकेशन (भारत) प्राइवेट लिमिटेड, नई दिल्ली
14. शरण, हरी एवं सिन्हा, हर्ष कुमार (2012) हिंद महासागर: चुनौतिया एवं विकल्प, प्रत्यूष पब्लिकेशन दिल्ली
15. मलिक, जनरल पी.वी. (2014) भारतीय सैन्य शक्ति, प्रभात प्रकाशन, दिल्ली
16. माधव, राम. (2015) (युद्ध के वर्षो बाद भारत और चीन 50) प्रभात पेपर बैक्स, नई दिल्ली

This course can be opted as an elective by the students of following subjects: Open for all The eligibility for this paper is 10+2 with any subject

**Suggested Continuous Evaluation Methods:**

Seminar/ Research Orientation/Presentation on any topic of the above syllabus Test with multiple choice questions/ short and long answer questions Attendance

**Suggested Equivalent online courses:**

- Coursera
- Swayam

<b>Programme/Class: Certificate</b>		<b>Year: Third</b>	<b>Semester: V</b>
Course Code : DSS-303F		Course Title: Military use of Electromagnetic Spectrum, Press Clipping, Tour	
Credits: 2		Core Compulsory / Elective	
Max. Marks: 25+75		Min. Passing Marks:40	
Total No. of Lectures-Tutorials-Practical-30 (60 hours)			
Unit	Topic		No. of Lectures
I	1. Thermal Imaging and Sensors. 2. Radars and its significance.		12
II	3.Introduction to Electronic Warfare in terms of Lasers, ECM, ECCM		10
III	Educational Tour and its report or NewsPaper Clippings on allotted current topics with a brief assignment		08
This course can be opted as an elective by the students of following subjects: Open for all .....			
<b>Suggested Continuous Evaluation Methods:</b> Test with multiple choice questions/ Research Orientation/short and long answer questions, or Short Presentation/Lecturer, Record ,Viva Voce			
Course prerequisites: To study this course, a student must have had the subject ..... in class/12 <sup>th</sup> / certificate/diploma. .....			

Marking Pattern- (1) Tour Report/News Paper Clipping – 20  
Assessment

Internal

(2)Record- 10  
(3)Viva - 15  
(4) Question Paper-30  
**Total- 75**

(1) MCQs- 15  
(2) Presentation- 10  
**Total- 25**

**B.A. /B.Sc III, Semester VI, Defence and Strategic Studies, Paper 01  
Science and Technology in Relation to Warfare  
(Theory)**

<b>Programme/Class: Certificate</b>		<b>Year: Third</b>	<b>Semester: VI</b>
Course Code: DSS-304F		Course Title: <b>Science and Technology in Relation to Warfare ( Theory)</b>	
<b>Course outcomes:</b> 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.			
Credits: 4		Core Compulsory / Elective	
Max. Marks: 25+75		Min. Passing Marks:33	

Total No. of Lectures-60		
Units	Topic	No of Lectures

PART A		
I	1. Science, Technology and their relation to warfare	07
II	2. Impact of Science and Technology on warfare in middle age.	07
III	3. Impact of Science and Technology on warfare in WW-I and WW-II	08
IV	4. (a) Ballistic missile and Nuclear revolution (b) Chemical and Biological warfare in 21st century	08
PART B		
V	5. (a) The information revolution (b) Cyber warfare	07
VI	6. Electronic Warfare: Concept and applications	07
VII	7. Emerging technologies and their impact on warfare	08
VIII	8. Indian Defence: DRDO and defence production	08

**Suggested Readings:**

1. Arcangelis, Mariode, (1990) Electronics Warfare, Ratna , New Delhi.
2. Rehman, A. (1972) Science Technology and Society: New Delhi, People's Publishers House.
3. Anand. A. (2003) Information Technology: The future warfare weapons: New Delhi, Ocean books,.
4. Baranson, Jack. (1978) Technology and the Multinationals: Lexington, Lexington Books.
5. Johan Erickson (Ed.) (1966) The Military Technical Revolution: Its Impact on strategic and Foreign Policy: New York, Frederick A Prager.
6. Macksey, Kenneth (1986) Technology in War: The impact of Science on weapon development and modern Battle: NY, Prentice Hall.
7. Mann T.S., (1982) Transfer and Technology: Bombay, Himalaya Publications House.
8. Jasbir R.K, (1987) Handbook of military science and Armament Technology: Dehradun, Natraj publications.
9. Singer, H.W., (1988) Technology Transfer by Multinational Vol. I& II: New Delhi, Ashis.
10. Tiwari V.M. and Rajnikant, (1996) The high tech war at twentieth Century: New Delhi, Vikas.
11. Rajan, Y.S. (2001) Empowering India (with Economic Business & Technological strengths for the twenty First Century) : New Delhi, Hari Anand.
13. कलाम, डॉ. ए.पी.जे. अब्दूल एवं राजन, बाई. एस. (2015) भारत 2020 और उसके बाद, प्रभात प्रकाशन, नई दिल्ली
14. लल्लनजी सिंह (2003) राष्ट्रीय रक्षा और सुरक्षा, प्रकाश बुक डिपो, बरेली
15. अशोक कुमार सिंह (2018) राष्ट्रीय सुरक्षा, प्रकाश बुक डिपो, बरेली
16. लल्लनजी सिंह, युद्ध और शांति की समस्याएं: प्रकाश बुक डिपो बरेली, 1997-98

This course can be opted as an elective by the students of following subjects: Open for all The eligibility for this paper is 10+2 with any subject

**Suggested Continuous Evaluation Methods:**

Seminar/ Presentation on any topic of the above syllabus/ Research Orientation Test with multiple choice questions/ short and long answer questions Attendance

Suggested Equivalent online courses:

- Coursera
- Swayam

**B.A. /B.Sc III ,Semester VI, Defence and Strategic Studies, Paper 02**

**Military Psychology  
(Theory)**

<b>Programme/Class: Certificate</b>		<b>Year: Third</b>	<b>Semester: VI</b>
Course Code: DSS-305F		Course Title: <b>Military Psychology</b> ( Theory)	
<b>Course outcomes:</b> After having done this course, student would be able to understand and appreciate psychological aspects of war making, military leadership and emotional issues that are faced by soldiers during war and peace.			
Credits: 4		Core Compulsory / Elective	
Max. Marks: 25+75		Min. Passing Marks:33	
Total No. of Lectures-60			
Units	Topic		No of Lectures
<b>I</b>	1. Military Psychology: Definition, Scope, Significance and its role during war and peace.		08
<b>II</b>	2. Psychological Weapons of War: Propaganda, rumor and indoctrination.		07
<b>III</b>	3. Fear and Panic in War: Causes, Consequences and Management.		08
<b>IV</b>	4. Military Leadership: Meaning, attributes, importance and role of training.		07
<b>PART B</b>			
<b>V</b>	5. Discipline: Definition, purpose and tools of maintaining discipline		07
<b>VI</b>	6. Motivation and Morale factors and their utilization in the armed forces.		07
<b>VII</b>	7. Man Management:- Concept, importance and strategy vis-à-vis armed forces.		08
<b>VIII</b>	8. Emotional problems and adjustment during war and peace.		08

**Suggested Readings:**

1. Bartlett, F.C., (1927) Psychology and the Soldier, Cambridge, Cambridge University Press..
2. Baynes, John., (1967) Morale, : A study of Men and courage London, Cassell.
3. Boring, E.G., (ed.), (1945) Psychology for the Armed Services, Dehradun, Natraj Publishers.
4. Chibber, M.L. (1986) Military Leadership to Prevent Military Coup, New Delhi, Lancer International
5. Copeland, Norman., (1967) Psychology and the soldier, Dehradun, English Book Depot..
6. Hasnain Qamar., (1967) Psychology for the fighting man, Dehradun, English Book Depot, Publishing Company.
7. लल्लनजी सिंह (2003) राष्ट्रीय रक्षा और सुरक्षा, प्रकाश बुक डिपो, बरेली
8. अशोक कुमार सिंह (2018) राष्ट्रीय सुरक्षा, प्रकाश बुक डिपो, बरेली
9. लल्लनजी सिंह, युद्ध और शांति की समस्याएं: प्रकाश बुक डिपो बरेली, 1997&98
10. गुप्त, परशुराम (2015) सैन्य मनोविज्ञान, प्रकाश बुक डिपो, बरेली
11. तिवारी, डॉ. निरंकार प्रसाद, (2015) सैन्य मनोविज्ञान, ए. एस. आर. पब्लिकेशन, लखनऊ
12. सिन्हा, हर्ष कुमार एवं सिंह, विनोद कुमार, सैन्य मनोविज्ञान, प्रत्युष पब्लिकेशन्स, नयी दिल्ली,

This course can be opted as an elective by the students of following subjects: Open for all The eligibility for this paper is 10+2 with any subject

**Suggested Continuous Evaluation Methods:**

Seminar/ Presentation on any topic of the above syllabus /Research Orientation Test with multiple choice questions/ short and long answer questions Attendance

Course prerequisites: To study this course, a student must have had the subject ..... in class/12<sup>th</sup>/ certificate/diploma

**Suggested Equivalent online courses:**

- Coursera
- Swayam

**B.A. /B.Sc. III ,Semester VI, Defence and Strategic Studies ,Paper 03**  
(Practical)

Programme/Class: Certificate	Year: First	Semester: First
Course Code: DSS-306F	Course Title: Spotting Strategic Locations, Military Models, Presentations	
Credits: 2	Core Compulsory / Elective	
Max. Marks: 25+75	Min. Passing Marks:40	
Total No. of Lectures-Tutorials-Practical-30 (60 hours)		
Unit	Topic	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.	08
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.	08

<b>III</b>	3. Making of Models - a. Fighter Plane. b. Battle Ship. c. Rader d. Submarine e. Tank f. Missile g. Helicopter	08
<b>IV</b>	4. Presentations on current defence topic	06
This course can be opted as an elective by the students of following subjects: Open for all		
<b>Suggested Continuous Evaluation Methods:</b>		
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 <sup>th</sup> / certificate/diploma. .....		

<b>Semester- VII</b>		
<b>DSS- 401F</b>	<b>Strategic Theories and Concepts</b>	<b>Credit - 4</b>

**Course Objective:**

The objective of the course is to provide knowledge about the concepts of strategy and tactics and relationship between war and politics and the thoughts of noted strategic thinkers on these topics to develop strategic thinking skills of the students.

**UNIT- I**

1. Machiavelli: Thoughts Regarding War, War and Politics
2. Napoleon: Warfare, Tactics and Reforms
3. Clausewitz: War and its Relationship with Politics, Strategy and Tactics

**UNIT- II**

1. Jomini: Concept of Mass Army, Strategy, Tactics and Line of Operations.
2. Andre Beaufre: Thoughts on Nuclear Deterrence
3. Armoured and Mechanized Warfare- Comparative Study of the Thoughts of Fuller and Liddell Hart

**UNIT- III**

1. Mackinder: Heart Land Theory
2. Second World War: Strategy and Tactics
3. Seversky- Theory of Air Power, Evolution of Air Power in W.W. II

**UNIT-IV**

1. Shukracharya- Shukraniti, Danda Niti, State related ideas in Shukraniti

2. Chanakya's Ideologies- Saptang Theory of State, Relevance of Chanakya's theory in contemporary scenario
3. Samarth Ramdas – Strategy and Tactics

**Suggested Readings:**

1. जे. एम. श्रीवास्तव, स्त्रातजिक चिंतन, प्रत्युष पब्लिकेशन, दिल्ली 2014
2. डॉ. आर. के. सिंह, राकेश सिंह, रजवंत सिंह, विश्व के प्रमुख स्त्रातजिक चिंतक, शारदा पुस्तक भवन, इलाहाबाद, 2016
3. डॉ. राम सूरत पाण्डेय, स्त्रातजिक विचारक, उद्भव एवं विकास, प्रकाश बुक डिपो, बरेली, 2015
4. डॉ० परशुराम गुप्त, महान स्त्रातजिक चिन्तक समर्थ रामदास, प्रकाश बुक डिपो बरेली, 2009
5. L. Spalding & J.W. Wright, Warfare, Washington 1937
6. F. Gilbert, Machiavelli, Art of War.
7. Makers of Modern Strategy, E. M. Earl, at el. (eds), 1986
8. L. Montros, War Through the Ages, New York, 1960.
9. M. Howard, War in European History, London 1976.
10. J. F. C. Fuller, Conduct of War, New Delhi
11. Shekhar Adhikari, Military Thinking of Ancient India, Pentagone Press, 2016

**Course Outcome:**

After completion of this course the student will be able to:

1. Understand the nature, scope and development of strategic thoughts.
2. Understand the concepts of strategy and tactics, relationship between war and politics in view of noted strategic thinkers.
3. Understand the concept of armoured and mechanized warfare

<b>Semester- VII</b>		
<b>DSS-402F</b>	<b>National Security: Concept and Theories</b>	<b>Credit - 4</b>

**Course Objective:**

For a country, national security has always been an issue of prime importance. It has wide scope and interdisciplinary nature. This paper is introduced with the objective of developing deep understanding of the concept, theories, determinants and threats of national security in terms of contemporary thinking and, of course, the needs. The course is very important for various competitive exams such as NET, PCS and other teaching jobs.

**UNIT-I**

1. Concept of National Security
2. Determinants of National Security
3. National Security in the Age of Globalization: New Threats and Challenges

**UNIT-II**

1. Comprehensive Security: Meaning and Scope
2. Non-Traditional Security: Meaning and Scope
3. Human Security: Meaning and Scope

### UNIT-III

1. Energy Security
2. Environmental Security
3. Cyber Security

### UNIT-IV

1. Foreign Policy: Concept, Objectives and Lineages
2. Defence Policy: Concept, Objectives and Lineages
3. Defence Cooperation, Strategic Partnership and Security Dialogue: New Trends in 21<sup>st</sup> Century Scenario

### Suggested Readings:

1. K. Subramanyam, Our National Security, Economic and Scientific Research Foundation
2. Michael Clark, New Perspective on Security; London, 1993.
3. S. D. Sinha, Security in the New World Order, Chanakya Publication, Delhi, 1993.
4. Gautam Sen, India's Security Consideration in Nuclear Age, Atlantic, New Delhi, 1986.
5. Chitrapu Uday Bhaskar, India's Security Concerns.
6. N. S. Sisodia & C. Uday Bhaskar, Emerging India: Security on Foreign Policy Perspectives, IDSA, New Delhi.
7. Barry Buzan, People, States and Fear: The National Security.

### Course Outcome:

After completion of this course the student will be able to:

1. Understand the evolution of the concept and theories of national security with the determinants.
2. Understand Non-Traditional security threats and challenges in the present world as well as in coming decades.
3. Understand the relevance of defence cooperation, strategic partnership and security dialogue between the states in modern times.

<b>Semester- I</b>		
<b>DSS-403F</b>	<b>Disarmament and Arms Control</b>	<b>Credit - 4</b>

### Course Objective:

A stable and lasting world peace and security can only be built on the negation of arms race and the achievement of real disarmament. The objective of the course is to develop understanding of the causes of armament and the need of disarmament and arms control for world peace and security. The course is introduced to develop understanding of its social and economic consequences.

### UNIT-I

1. Armament: Meaning, Development and New Trends.



2. Basic Concepts, Theories and Correlation between Disarmament & Arms Control
3. Disarmament & Arms Control: Objectives and Nature

#### **UNIT-II**

1. Elements of Arms Control Mechanism: Agreements, Verification, Inspection and Control.
2. Measures of Arms Control and Disarmament
3. Weapons of Mass Destruction (WMD): Nuclear Weapons, Chemical, Biological and Weather Weapons.

#### **UNIT-III**

1. Concept of Non-Proliferation, Non-Proliferation Treaty, PTBT, CTBT, MTCR, FMCT and other Treaties
2. Nuclear Policies of Nuclear Weapon States (NWS) & Non-Nuclear Weapon States (NNWS)
3. Terrorism and Nuclear Proliferation

#### **UNIT- IV**

1. Arms Trade Treaty (ATT) and its Implications for Regional & Global Security
2. Disarmament and Development
3. Social and Economic Consequences of Disarmament & Arms Control

#### **Suggested Readings:**

1. SIPRI Year-Book of Armament and Disarmament.
2. US Arms Control & Disarmament Agency Publications.
3. IISS Publications: Adelphi Papers, Survival.
4. IDSA Publications.
5. ICWA Publications.
6. UN Publications.
7. Emile Benoit & K.E. Boulding, 1963, Disarmament and the Economy, Harper and Row Publisher, New York.
8. R. Faramazyan, 1981, Disarmament and Economy, Progress Publishers Moscow
9. Military Balance ISSS, London.
10. Disarmament and World Peace, Dr.Ashok Kumar Singh,Prakash Book Depot, Bareilly,2018

#### **Course Outcome:**

After completion of this course the student will be able to:

1. Understand the basic concepts and facts related to armament, disarmament and arms control.
2. Understand the impact of development and proliferation of the conventional as well as the Weapons of Mass Destruction on regional and global peace and security.
3. Understand social and economic consequences of disarmament and arms control

<b>Semester- I</b>		
<b>DSS-404F</b>	<b>Economic Aspects of War</b>	<b>Credit - 4</b>

**Course Objective:**

Defence and development are the two sides of the same coin. The objective of course is to study the basic concept and theories of defence economics and to understand the interrelationship of war and economy.

**UNIT-I**

1. Was Economic- Concept, War and Peace Economy
2. Problems and Solutions of War Economy
3. Economic Warfare

**UNIT-II**

1. Economic Potential of War
2. Cost of War
3. War Finance

**UNIT-III**

1. Defence Production in India
2. Economics of Disarmament
3. Defence Budget- Comparative Study of India, Pakistan and China Defence Budget

**UNIT-IV**

1. The New International Economic Order– Concept, Economic Rights of States, Economic Duties of States, South-South Cooperation, North-South Dialogue
2. Regional Economic Groupings- SAPTA, BIMSTEC, IBSA, GATT, World Bank and IMF
3. World Bank and International Monetary Fund (IMF)

**Suggested Readings:**

1. जे. एम. श्रीवास्तव, प्रतिरक्षा अर्थशास्त्र, ए. एस. आर. पब्लिकेशन्स, गाजियाबाद 2015
2. डॉ. एस.डी. शर्मा, यौद्धिक अर्थशास्त्र, भारत प्रकाशन मंदिर, अलीगढ़
3. तपन विश्वाल, आर्थिक सम्बंध, मैकमिलन पब्लिकेशन देलही 2013
4. Rethinking the Economics of war: The intersection of Need, Creed and Greed Edited by Cynthia J Arnsion, Published:28 October 2005, ISBN 13:9780801882982
5. Economics of war and Peace: Economic Legal and Political perspectives, edited by Ben Goldsmith, published: Emerald Group Publishing Limited, Published: 01 July 2010, ISBN 13:99780857240040
6. The Economics of war: The Economics of war by Pal Poast, Publisher: Mc Graw Hill Higher Education, Published:21 March,2008, ISBN 13:9780073133997
7. Economic Theories of Peace and war (Studies in Defence Economics) by Fanny Coulomb, Publisher: Routledge' Published:24 September, 2004, ISBN 13:9780415284080
8. The Economics of war I Stephen Broadberry (Editor) Mark Harrison(Editor), Publication Date: April 2, 2009 ISBN 10 0521107253.
9. पुष्पा जैन, सम्पूर्ण सैन्य विज्ञान, विश्वविद्यालय प्रकाशन, ग्वालियर, मध्यप्रदेश, 1999
10. डा. लल्लनजी सिंह, युद्ध और शांति की समस्याएं, प्रकाश बुक डिपो बरेली, 1997-98

11. डा. एस.डी. शर्मा, यौद्धिक अर्थशास्त्र, भारत प्रकाशन मंदिर, अलीगढ़.

**Course Outcome:**

After completion of this course the student will be able to:

1. Understand the basic concept and theories of defence economics.
2. Understand the inter-relationship of war and economy.
3. Understand the new international economic order

<b>Semester- I</b>		
<b>DSS-405F</b>	<b>Security and Cooperation in South Asia (Elective)</b>	<b>Credit - 4</b>

**Course Objective:**

South Asia is the most populous region in the world. It enjoys a unique strategic location and offers an enormous economic potential. But, unfortunately, this region is plagued with various inter-state and intra-state conflicts. The objective of the course is to understand the conflict and cooperation matrix of South Asia region.

**UNIT- I**

1. Geo-Political Setting of South Asia
2. Strategic Importance of South Asia
3. Society, Culture and History of South Asia

**UNIT- II**

1. Strategic Importance of Afghanistan, Myanmar and China for South Asia
2. Major Powers in South Asia (USA, Russia, China)
3. Contemporary Issues and Conflicts in South Asia

**UNIT- III**

1. Regional Cooperation: Conceptual Dimensions
2. Prospects of Sub-Regional Cooperation in South Asia
3. SAARC

**UNIT-IV**

1. Maritime Cooperation in South Asia
2. Role of Pressure Groups in Politico-Military Scenario of South Asian Countries
3. Peace Initiatives in South Asia

**Suggested Readings:**

1. K.E. Boulding, Conflict and Defence: A General Theory, Newyork,1962
2. Anima Bose (ed.), Peace and Conflict Resolution in World Community, New Delhi, 1919
3. Bhaskar Rao, Global Perceptions on Peace Education, New Delhi, 1996.
4. Peter Ackerman & Jack Duvall, A Force More Powerful: A Century of Non-Violent Conflicts, New York, 2000.
5. B. Boutros Ghali, An Agenda For Peace: Preventive Diplomacy, Peace Making and Peace Keeping, (U.N. Report), New York, 1992.
6. B.U. Bright, Educating for Peace, New York, 1985.
7. Adam Curle, Another Way: A Mechanistic View of War and Peace, Cambridge, 1927
8. A.C. Dasgupta, Non-Violence: The Invincible Power, Calcutta. 1956.
9. Lewis Caser, Functions of Social Conflict, New York, 1956.

10. J.W. Burton, International Conflict Resolution, New York, 1965.

**Course Outcome:**

After completion of this course the student will be able to:

1. Understand the concept and scope of conflict and co-operation studies.
2. Understand the conflict and co-operation matrix of South Asia.
3. Understand the internal problems and issues of the region and prospects of peace and co-operation.

<b>Semester- I</b>		
<b>DSS-406F</b>	<b>Practical</b>	<b>Credit - 4</b>

Students are assigned with the practical task of spotting and strategic briefing of the following with the help of given maps/computer-based presentations:

1. Headquarters of Indian Army.
2. Headquarters of Indian Air force.
3. Important Naval bases and ports of India.
4. Important Nuclear and space Research Establishments in India.
5. Defence Research and Development Organization in India.

After Completion of the Course the students will submit a record file.

<b>Semester- II</b>		
<b>DSS-407F</b>	<b>Indian Military History (from 1947 to Date)</b>	<b>Credit - 4</b>

**Course outcomes:**

After undergoing this course a student will be in a position to become familiar in evolution of art of warfare in modern India; learn and understand the strategy, tactics, application of principles of war and causes of defeat and victory of various wars. Besides, this course enabled the student to appreciate and understand evolutionary changes in the art and science of war in India through ages.

**UNIT-I**

1. Partition of India and the armed forces; Background
2. Military operations in Kashmir (1948)
  - a. Kashmir dispute: Genesis and progression
  - b. Military Operations
  - c. Role of Air Force
  - d. Politico-Military Lessons

**UNIT-II**

3. Sino-Indian Conflict (1962)
  - a. Background of the Sino-India Border Dispute
  - b. Military operations
  - c. Politico-Military Lessons

#### **UNIT-III**

4. Indo-Pakistan Conflict (1965)
  - a. Background and causes
  - b. Military operations
  - c. Role of Navy and Air Force
  - d. Politico-Military lessons

#### **UNIT-IV**

- A. Indo-Pakistan Conflict (1971)
  - a. Genesis and Causes
  - b. Military operations on the Western Front
  - c. Military operations on the Eastern Front
  - d. Role of Air Force and Navy in the Military operations
  - e. Emergence of Bangladesh
  - f. Politico-Military lessons
- B. Indian Defence: Contemporary scenarios with special reference to Kargil Conflict, 1999

#### **Suggested Readings:**

1. S.D. Singh, Ancient India Warfare with special reference to the Vedic Period.
2. B.K. Majumdar, Military system in Ancient India.
4. B.K. Majumdar, Bhartiya Sena Ka Itihas.
5. Fuller, J.F.C., Generalship of Alexander the Great.
6. R.P. Kangle, Kautilya Arthashastra.
7. J.N. Sarkar, Military History of India.
8. King Lucas, Memoirs of India.
9. I. Irvin, Bhartiya, Mughalon Ki Sainya Vyavashtha, translated by R. Tiwari.
10. S.N. Sen, Military System of Marathas.
11. Duff, Grant Marathon Ka Itihas.
12. F.S. Bajwa, Military System of Sikhs

#### **Course Outcome:**

After completion of this course the student will be able to:

1. Understand the basic concepts of the Indian military traditions.
2. Understand comparative analysis of Indian military systems during different Periods of modern history and the military system.

<b>Semester- II</b>		
<b>DSS-408F</b>	<b>International Relations: Concept and Theories</b>	<b>Credit - 4</b>

**Course Objective:**

The objective of the course is to help students to study and understand main concepts and theories and approaches of the discipline and the development of international relations of India with other countries.

**UNIT- I**

1. International Relations: Meaning, Nature and Scope
2. Theories and Approaches: Realism and Idealism
3. Foundation and Limitations of National Power and National Interest

**UNIT- II**

1. Theories of Balance of Power and Collective Security
2. Non-Alignment: Concept and Importance in Modern Time
3. Regional Organization- SAARC, ASEAN, BIMSTEC, BRICS and other

**UNIT- III**

1. Cold War: Nature and Evolution since 1945
2. Detente
3. New Cold War Era

**UNIT- IV**

1. Development of International Relation in Changing Scenario
2. Impact of Nuclear Weapons on International Relation
3. Diplomacy: New and Old

**Suggested Readings:**

1. H. J. Morgenthau, Politics Among Nations
2. Dr. Mahendra Singh, Theoretical Aspects of International Politics,
3. Palmer & Perkin, International Relation
4. Strategic Analysis, IDSA, New Delhi
5. Coulombis, Wolfe, Introduction to International Relations.

**Course Outcome:**

After completion of this course the student will be able to:

1. Understand the basic concept, meaning, nature, scope and theories & approaches of international relations.
2. Understand the foundations and limitations of national power, national interests and foreign policy.
3. Understand the principles and objectives of Indian foreign policy and the development of India's international relations with major foreign countries.

<b>Semester- II</b>		
<b>DSS-409F</b>	<b>Legal Aspects of war</b>	<b>Credit - 4</b>

### **Course Objective**

Legal aspects of war are essential for the survival of the concerned state. The objective of the course is to develop understanding of the concept and the various dimensions of war and its legality. Human right and Humanitarian law are issues related to the legal aspects of war. Legal status of refugees is an important problem for the world countries. This course is introduced to develop understanding of the various legal issues and dimensions of war.

### **UNIT- I**

1. War: Concept, Declaration of War, Legal Regulation on War, Effects of War
2. Settlement of Disputes
3. Neutrality

### **UNIT- II**

1. Laws of Land Warfare
2. Laws of Maritime Warfare
3. Laws of Aerial Warfare

### **UNIT- III**

1. Legality of Nuclear Warfare
2. Blockade and Enemy Character
3. Human Rights: Concept, Classification, Declaration and International Convention

### **UNIT- IV**

1. Human Rights in Indian Constitution, NHRC
2. Concept and Theories of International Humanitarian Law
3. Refugee: Concept, Refugee Problems in South Asia, Solutions

### **Suggested Readings:**

1. M.P. Tandon and Rajesh Tandon (1987), An Introduction of International Law, Allahabad Law Agency, Allahabad.
2. S.K. Kapoor, (1987), International Law, Central Law Agency, Allahabad.
3. R.S. Chavan, (1971), An Approach to International Law, Sterling Publisher, New Delhi.
4. J. Starke, (1972), An Introduction to International Law, Butterworth, London.
5. Oppenheim (2008), International Law, 9th Edition, University of Cambridge.

### **Course Outcome:**

After completion of this course the student will be able to:

1. Understand the legal concept of war and legal regulations on war.
2. Understand the various dimensions of human rights, its violations and protection as well and international law.
3. Understand the concept and theories of international humanitarian law and Refugee.

<b>Semester- II</b>		
<b>DSS-410F</b>	<b>India's Internal Security Management</b>	<b>Credit - 4</b>

### **Course Objective**

The objective of this course is to make the students aware about the Internal Security Management System of India. Under this, students will be able to become familiar with the internal security management framework and the role of all major implementing agencies and its organisational structure.

### **UNIT- I**

1. National Security Council
2. National Security Advisory Board
3. Role of Army in Internal Security Management

### **UNIT-II**

1. Indian Police Service (IPS)
2. Central Armed Police Force (CAPF)
3. National Disaster Management Authority

### **UNIT-III**

1. Intelligence Bureau (IB)
2. National Investing Agency
3. National Crime Records Bureau (NCRB)

### **UNIT-IV**

1. Narcotics Central Bureau (NCB)
2. National Cyber Coordination Centre (Cycord)
3. National Technical Research Organisation (NTRO)

### **Suggested Readings**

1. M. Dwivedi, The Paradigm of Internal security in India, 2013
2. Gen. V.K. Singh, India's External Intelligence, Manas Publication, 2013
3. Lt. Col. Sunil S. Parihar, India's Spy Agencies, Manas Publication,
4. K Alexander, Police Reforms in India, Discovery Publishing Group, 2006
5. AK Singh, "Homeland Security: A Multi-faceted Challenge," SP's Military Yearbook, 2009.
6. Rahul K Bhonsle, India's National Security: The Asymmetrical Challenges (New Delhi: Knowledge World Publishers, 2004
7. Gen Deepak Kapoor, in "Changing Global Security Environment with Specific Reference to our Region and its Impact on the Indian Army", IDSA National Security Lecture Series, July 3, 2008, New Delhi.
8. VK Nayar, "India's Internal Security Compulsions", in Planning Commission of India's Project Report on "India: Vision 2025", available at [planningcommission.gov.in/reports/sereport/ser/vision2025](http://planningcommission.gov.in/reports/sereport/ser/vision2025).
9. Lt Gen Prakash Menon, in "Sub-conventional Conflict: International and Asian Perspective", Indian Army's Contribution To Internal Security 140 Claws Journal I Summer 2011 paper presented at the Centre for Land Warfare Studies (CLAWS)



International Seminar on “Changing Nature of Conflict: Trends and Responses,”  
November 2009, New Delhi.

10. P Chidambaram, “A New Architecture of India’s Security,” 22nd Intelligence Bureau Centenary Endowment Lecture on December 22, 2009.
11. Lt Gen VK Kapoor (Retd), “Homeland Security: India’s Internal Security Reforms,” Centre for Land Warfare Studies (CLAWS) Journal, Winter 2009.
12. As suggested by Brig Gurmeet Kanwal (Retd) in “Managing Internal Security: Case for a New National Level Counter-Insurgency Force,” Centre for Land Warfare Studies (CLAWS) Journal, Winter 2007.
13. Lt Gen RK Nanavatty (Retd), “Low Intensity Conflict in India: Restructuring and Reorganising the Army,” paper presented at Centre for Land Warfare Studies (CLAWS) seminar on “Low Intensity Conflict” at New Delhi on March 23-24, 2006.
14. Steven J Tomisek, “Homeland Security: The New Role for Defence”, Strategic Forum, No 189, February 2002, available at <http://www.ndu.edu/inss/strforum>.
15. Col HM Iyer, “India’s Internal Security Situation in the Future and the Army’s Role, Organisational and Doctrinal Changes Recommended to Meet the Requirement,” War College Journal, Spring 2009.

#### **Course Outcome:**

After completion of this course the student will be able to:

1. Understand the police system and various authorities.
2. Understand the role of various agencies and authorities in internal security.

<b>Semester- II</b>		
<b>DSS-411F</b>	<b>Geopolitics and Military Geography</b>	<b>Credit - 4</b>

#### **Course Objective**

Geopolitics has been the driving force in world politics and international relations. The military geography of a country has a direct bearing on its defence. The objective of the course is to provide students deep knowledge of geopolitics and main power theories propounded by strategic thinkers. To study the military geography of India and the related defence problems is also very important for contributing in shaping of the defence policy of the country.

#### **UNIT- I**

1. Concept and Meaning of Geo-Politics
2. Scope and Importance of Geo-Politics
3. Development of Geo-Politics

#### **UNIT-II**

1. Sea Power Theory: Mahan and Haushofer
2. Land Power Theory: Mackinder and Nicholas J. Spykman
3. Air Power Theory: Seversky

#### **Unit- III**

1. Geography in Land Warfare

2. Geography in Sea Warfare
3. Geography in Air warfare

#### **Unit- IV**

1. Importance and Scope of Logistics
  - a. Resources
  - b. Industries
  - c. Supply Chain
2. Military Geography of India: Defence Problems
3. Weather and Communication

#### **Suggested Readings:**

1. युद्ध के साधन और साध्य, मेजर आर. सी. कुलश्रेष्ठ, इलाहाबाद, 1965-
2. B. Dasgupta and W.H. Morris Jones (1975): Patterns and Trends in Indian Politics, New Delhi, Allied Publishers.
3. A. De Seversky (1942): Victory through Air Power, New York, Simon & Schueter.
4. J. Fairgrieve (1915): Geography and World Power, London University of London Press.
5. C.B. Fawcett (1918): Frontiers: L A Study in Political Geography London, Oxford University Press.
6. H.J. Machinder (1924): Nations of Modern World, London, George Philip and Son.
7. A.T. Mahan (1900): The Problem of Asia, Boston, Little, Brown & Co.
8. K.M. Panikkar (1955): Geographical Introduction to Indian History, Bombay, Bhawan's Book University.

#### **Course Outcome:**

After completion of this course the student will be able to:

1. Understand the concept, meaning and scope of geo-politics.
2. Understand the theories of land power, air power and sea power propounded by strategic thinkers
3. Understand the nature and scope of military geography of India and related defence problems.

<b>Semester- II</b>		
<b>DSS-412F</b>	<b>Cyber Security</b>	<b>Credit - 4</b>

**Course Objective:**

The objective of this course is to make the students aware about the Cyber Technologies and cyber threats as well as cybercrime. Under this, students will be able to understand the types of cybercrime and its impact on national security.

**UNIT- I**

1. Introduction to Cyber Technologies- Information Systems, Networks/LAN/WAN, Military Sensors.
2. Types of Cyber Crime- Hacking, Password Cracking, Insecure Network Connection, Theft at Tele Communication Services

**UNIT- II**

1. Impact of Cyber Crime on National Security - Impact on Armed Forces & Law enforcement Agencies' Information Systems - Impact on National Economy/Market - Impact on Citizen Security.

**UNIT-III**

1. Detection and Prevention methodologies - Risk Identification - Levels of Protection - Cyber Defensive Measures
2. Cyber Laws - Cyberspace and the Law - Introduction, Cyber Security Regulations, Roles of International Law, the state and Private Sector in Cyberspace, Cyber Security Standards.

**UNIT- IV**

1. The Indian Cyberspace
2. National Cyber Security Policy 2013.

**Suggested Readings:**

1. Beidleman, Scott W. (2009) Defining and Deterring Cyber War, Master's thesis, U.S. Army War College.
2. Borum, Randy, and Ronald Sanders, (2015) Cyber Intelligence: Preparing Today: for Tomorrow's Threats, Intelligence and National Security Alliance.
3. Godbole Nina, (2011) Cyber Security, Wiley India, New Delhi. Godbole Nina, (2017) Information Systems Security: Security Management, Metrics, Frameworks and Best Practices, Wiley India, New Delhi.
4. Shoemaker, Dan and Conklin, Arthur (2011) Cyber Security – The Essential body of Knowledge, Cengage Learning.
5. Kim Andreasson, ed., (2012) Cyber Security – Public Sector threats and responses, CRC Press, Boca Raton, FL.
6. Lin V Choi, ed., (2005) Cyber Security and Homeland Security, Nova Publishers, New York.

**Course Outcomes:**

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

1. Enable students to learn the nuances of the cyber world by understanding cyber threats, to state, institution and individuals.
2. It will also provide an exposure to cyber policy and preparedness mechanisms.
3. Students might also get hands-on experience in trying out practical applications of cyber security.

<b>Semester- II</b>		
<b>DSS-413F</b>	<b>Practical</b>	<b>Credit - 4</b>

**Course Objective :**

Students will be expected to mark the areas and spot strategic points on the map provided and write a brief note about the different strategic areas/spots.

1. Disputed land Areas with bordering States-
  - a. Pakistan
  - b. China
  - c. Nepal
  - d. Bangladesh
  
2. Disputed Sea Areas with bordering States-
  - a. Pakistan
  - b. Bangladesh
  
3. Conflict Zones of South Asia-
  - a. India
  - b. Pakistan
  - c. Bangladesh
  - d. Sri Lanka

After Completion of the course the students will submit a record file