

**Maa Shakumbhari University, Saharanpur**



## **Syllabus of Defence Studies**

**For The First Three Years of Under Graduate (UG) Programme**

**(As per guidelines of Common Minimum Syllabus by UP  
Stale Government according to National Education Policy-  
2020 w.e.f. the  
Academic Session 2023-2024)**

**For the Students of Maa Shakumbhari University Affiliated  
Colleges The proceedings of the online Board of Studies  
meeting of Defence Studies:-**

The proceedings of the online Board of Studies meeting of Defence Studies for Under Graduate classes are being submitted for the further necessary actions. The online BoS meeting held on 08 August 2023 as per the arrangements of the letter of the Registrar Maa Shakumbhari University, Saharanpur.

The following members of the Board of Studies discussed and approved the New Syllabus for UG classes of Defence Studies in Maa Shakumbhari University affiliated colleges, as per the norms of the steering committee of UP State Government in this respect.

**Members of the Board of Studies of Defence Studies:-**

<b>Sr.No.</b>	<b>Name</b>	<b>Signature</b>
1	Prof. Amita Agarwal Dean, Arts Faculty	
2	Prof. Garima Jain Dean, Science Faculty	
3	Dr. Bhumesh Kumar, Convenor	
4	Prof. (Dr.) Hemant Pandey, HOD Defence Studies, Meerut College, Meerut External Subject Expert	
5	Dr. Somnath Mishra, Rtd. HOD Defence Studies, Meerut College, Meerut External Subject Expert	



## National Education Policy-2020

### Common Minimum Syllabus for all U.P. State Universities

#### Semester-wise Titles of the Papers in U.G. Programme (Defence and Strategic Studies)

Year	Semester	Paper Code Univ.	Course Code	Paper Title	Theory/ Practical	Credits
B.A. I	I	111201	A120101T	Conceptual Aspect of war	Theory	4
	I	111280	A120102P	Basic of Operational Exercise-I	Practical	2
	II	211201	A120201T	Military History of India	Theory	4
	II	211280	A120202P	Basic of Operational Exercise-II	Practical	2
B.A.-2	III	311201	A1120301T	National Security Conceptual Aspects	Theory	4
	III	311280	A120302P	Basics of Operational Exercise-III	Practical	2
	IV	411201	A120401T	Strategic Thought	Theory	4
	IV	411280	A120402P	Basics of TEWT/Sand Model Exercise, Sketching, Discussion	Practical	2
B.A.-3	V	511201	A120501T	Indian Defence Mechanism	Theory	4
	V	511202	A120502T	National Security of India	Theory	4
	V	511280	A120503P	Military use of Electromagnetic Spectrum, Press Clipping, Tour	Practical	2
	V	511265	A120504R	Research Project-1	Project	3
	VI	611201	A130601T	Science and Technology in Relation to Warfare	Theory	4

	VI	611202	A130602T	Military Psychology	Theory	4
	VI	611280	A130603P	Spotting Strategic Locations, Military Models, Presentation	Practical	2
	VI	611265	A130604R	Research Project-2	Project	3

### Syllabus Developed by:

S.No.	Name	Designation	Department	College/University
1	Prof. Prashant Agarwal	Professor	Defence and Strategic Studies	University of Allahabad, Prayagraj
2	Prof. Harsh Kumar Sinha	Professor	Defence and Strategic Studies	D.D.U. Gorakhpur University, Gorakhpur
3	Dr. Deepak	Assistant Professor	Defence and Strategic Studies	Hemvati Nandan Bahuguna Government P.G. College, Naini - Prayagraj

### Proposed Year wise Structure of UG Program in Defence and Strategic Studies

#### 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 coverings 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 honours 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)

Semester I	Name of Paper	Credits	No of Lectures
	Conceptual Aspect of war (Theory	4	60
	Basics of Operational Exercise-1 (Practical	2	30
	Total	6	90
Semester II	Name of Paper	Credits	Lectures
	Military History of India (Theory)	4	60
	Basics of Operational Exercise-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 county 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 though to contemporary period. (Semester IV)

Semester I	Name of Paper	Credits	No of Lectures
	National Seciruty-Conceptual Aspects (Theory)	4	60
	Basics of Operational Exercise-III (Practical)	2	30
	Total	6	90
Semester II	Name of Paper	Credit	No. of Lectures
	Strategic Thought (Theory)	4	60
	Basics of TEWTs/Sand Model Exercise, 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)	2	30
	Total	6	90
Semester VI	Name of Paper	Credit	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
	Total	10	150

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

<b>Programme/Class: Certificate</b>	<b>Year : First</b>	<b>Semester - I</b>
<b>Subject : Defence and Strategic Studies</b>		
Course Code : 111201	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:	
Total No. of Lectures-60		
Units	Topic	No. of Lectures
	PART A	
<b>I</b>	1. Conceptual Formulation a. Meaning and definition of Defence and Strategic Studies-Its relevance and significance and relationship with other disciplines of study. b. War-Definition and meaning and basic concepts-Understanding various causes of War. Basic Concepts - War, Campaign, Battle, Strategy, Tactics, Security and Defence.	08
<b>II</b>	2. Principles of War 3. War as an instrument of policy: Past, Present and Future	07
<b>III</b>	4. Modern Warfare a. Concept and definition b. Features of Modern Warfare	07
<b>IV</b>	5. Guerilla Warfare a. Origin and concept. b. Principles, techniques and characteristics of guerrilla warfare. c. Counter guerrilla measures.	08
	PART B	
<b>V</b>	6. Psychological Warfare a. Definition and concept.	08



	b. Functions and Limitations.	
<b>VI</b>	7. Economics Warfare a. Concept and definition b. Basic dimensions c. Effects of war on National Economy	6
<b>VII</b>	8. Nuclear warfare a. Beginning of nuclear era and effects of nuclear explosion. b. Nuclear strategies of 'Deterrence' and 'Massive Retaliation'.	8
<b>VIII</b>	9. Chemical and Biological Warfare a. Definition and concept b. Agents, their effect and military use.	8

**Suggested Reading:**

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 Marrow & 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 Glenceoe, 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. Wright, Quincy, (1942) Study of War, University of Chicago Press.
13. सिंह, टण्डन, अग्रवाल (2012) युद्ध और शांति का अध्ययन, शारदा पुस्तक भवन, इलाहाबाद।
14. पाण्डेय, बाबूराम एवं पाण्डेय, रामसूरत, (2005) युद्ध और शांति के मूल तत्व, प्रकाश बुक डिपो, बरेली
15. **Dr. Sanjay Kumar & Anurag Jaiswal-Rashtriya Suraksha, G.B. Books, New Delhi**

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

At the End of the whole syllabus any remarks/ suggestions:

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

<b>Programme/Class: Certificate</b>	<b>Year : First</b>	<b>Semester - I</b>
<b>Subject : Defence and Strategic Studies (Practical)</b>		
Course Code : 111280	Course Title : <b>Basics of Operational Exercise-I</b>	
Credits: 2	Core Compulsory / Elective	
Max. Marks: 25+75	Min. Passing Marks:	
Total No. of Lectures-Tutorials Practical-30 (60 hours)		
Units	Topic	No. of Lectures
<b>I</b>	1. Maps: Definition and Features: Classification and its utility for Military; Enlargement and reduction of Maps. 2. Conventional Sings: Military and Geographical	06
<b>II</b>	3. GRID System: Four Figure and Six figure map References.	08
<b>III</b>	4. North: Types of North and finding out True North; The Pole Star Method; The equal altitude method; Watch method & Compass method.	06
<b>IV</b>	5. Scale: Definition, Methods of representing Scale: Inter-conversion of scale into Representative Fraction, construction of simple scale line and the comparative scale lines.	10
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)**

<b>Programme/Class:</b>	<b>Year : First</b>	<b>Semester - II</b>
<b>Certificate</b>		
<b>Subject : Defence and Strategic Studies</b>		
Course Code :	Course Title : <b>Military History of India (Theory)</b>	
211201		
<b>Course outcomes:</b>		
After undergoing this course a student will be in a position to -		
Become familiar in evolution of art of 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 Genarals.		
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	
Max. Marks: 25+75	Min. Passing Marks:	
Total No. of Lectures-60		
Units	Topic	No. of Lectures
	PART A	
<b>I</b>	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.)	08
<b>II</b>	3. Kautilya's Philosphy of War: State Craft, Military Organisation, Weapon, Intelligence System and the Art of War	07
<b>III</b>	4. Turk and Rajput Military System with particular reference to the Battle of Tarrian (1192 AD) 5. Military Organisation and Pattern of Warfare during the Sultanate period with particular reference to Ala-uddin Khilji	07
<b>IV</b>	6. The Mughal Military System with particular reference to the First Battle of Panipat (1526 AD) 7. The Rajput Military Organisation, Weapon system and art of fighting with particular reference to the battle of Khanwah (1527 AD)	08
	PART B	
<b>V</b>	8. The Maratha Military System with special reference to the third	08

	battle of Panipat (1761 AD)	
<b>VI</b>	9. Sikh Military System with special reference to the battle of Sobraon (10 Feb. 1846 AD)	06
<b>VII</b>	10. Military System of East India Company, Evolution of Indian Armed forces from 1858 to 1947 A.D., Growth of Indian Navy and Air Force.	08
<b>VIII</b>	11. India's Wars post independence (In Brief) a. The First-India-Pakistan War (1947-1948)- <u>Causes and lessons</u> b. India-China War of 1962- <u>Causes and Lessons</u> c. The India Pakistan War of 1965- <u>Causes and lessons</u> d. Liberation of Bangladesh of 1971- <u>Causes and lessons</u> e. The Kargil Conflict of 1999- <u>Causes and lessons</u>	08
<b>Suggested Readings:</b>		
<ol style="list-style-type: none"> <li>1. Alfred, David., (1953) Indian Art Of War, Atma Ram, Delhi.</li> <li>2. Bajwa F.S., (1964) Military System Of The Sikhs, Moti Lal, Banarsi Dass, Delhi.</li> <li>3. Bruce, George, (1969) Six Battles Of India, Rupa &amp; Company, Calcutta.</li> <li>4. Das, S.T., (1969) Indian Military-Its History And Development, Sagar, New Delhi.</li> <li>5. Dikshitar, Ramachandra V.R. (1999) War In Ancient India. Cosmo, New Delhi.</li> <li>6. Fuller, J.F.C., (1958) Generalship Of Alexander The Great, Natraj Publishers, Dehradun.</li> <li>7. Gustav Oppert, (1967) Weapons, Army Organisation and Political Maxims of Ancient Hindus, R.F. Patel Rajratan Press, Ahmedabad.</li> <li>8. Kangle, R.P., (1963) Kautilya's Arth Shastra, University of Bombay, Mumbai.</li> </ol>		
<ol style="list-style-type: none"> <li>9. Majumdar B.K., (1960) Military System in Ancient India, Firma K.L. Mukhopadhyoy, Calcutta.</li> <li>10. Majumdar, B.N. (1963) Study of Indian Military History, Army Educational Store, Delhi.</li> <li>11. Roy, Kaushik, (2004) From Hydaspes to Kargil: A History of Warfare in India from 326 BC to AD 1999. Manohar, New Delhi.</li> <li>12. Roy, Kaushik (2011), War, Culture and Society in Early Modern South Aisa, 1740-1849, Routledge.</li> <li>13. Roy, Kaushik Ed., (2011), The Indian Army in the Two World Wars Brill.</li> <li>14. Singh, Sarva Daman. (1997) Ancient Indian Warfare: With Special Reference to the Vedic Period, Motilal Banarsidass, New Delhi.</li> <li>15. डेविड, मेजर अल्फ्रेड; (1972) भारतीय युद्ध कला, अनुवाद एस०डी० चोपड़ा, मध्य प्रदेश हिंदी ग्रंथ अकादमी, भोपाल</li> <li>16. शर्मा, डॉ० योगेन्द्र कुमार एवं निगम, रामलाल; (1998-99), सैन्यविज्ञान भाग 1 एवं 2, अलका प्रकाशन, कानपुर</li> <li>17. सिंह, टण्डन, अग्रवाल; (2012) भारतीय युद्ध कला, शारदा पुस्तक भवन, इलाहाबाद।</li> <li>18. सिंह, टण्डन, अग्रवाल; (2009) स्वतंत्र भारत की युद्ध कला (कश्मीर से कारगिल तक), शारदा पुस्तक भवन, इलाहाबाद।</li> </ol>		
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		
<b>Suggested Continuous Evaluation Methods:</b> 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.		

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

<b>Programme/Class: Certificate</b>	<b>Year : First</b>	<b>Semester - II</b>
<b>Subject : Defence and Strategic Studies (Practical)</b>		
Course Code : 211280	Course Title : <b>Basics of Operational Exercise-II</b>	
Credits: 2		
Core Compulsory / Elective		
Max. Marks: 25+75		
Min. Passing Marks:		
Total No. of Lectures-Tutorials Practical-30 (60 hours)		
Units	Topic	No. of Lectures
<b>I</b>	1. Bearing: Definition, Inter conversion of Bearing in detail.	06
<b>II</b>	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
<b>III</b>	3. To find out the bearing of a point from other point situated on the ground.	06
<b>IV</b>	4. To determine one's and enemy's position on the map by resection and intersection methods with the help of compass.	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		
<b>Course prerequisites:</b> 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 Aspects

(Theory)

<b>Programme/Class: Certificate</b>	<b>Year : Second</b>	<b>Semester - III</b>
<b>Subject : Defence and Strategic Studies</b>		
Course Code : 311201	Course Title : <b>National Security-Conceptual Aspects (Theory)</b>	
<b>Course outcomes:</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.		
Credits: 4	Core Compulsory / Elective	
Max. Marks: 25+75	Min. Passing Marks:	
Total No. of Lectures-60		
Units	Topic	No. of Lectures
<b>PART A</b>		
<b>I</b>	1. Introduction a. Concepts of Nation, State and Nation-State, Security and Defence b. Origin, Concept, and objective of National Security.	08
<b>II</b>	2. National Security Analysis Concept, Components and formulation of Security and Defence Policies and their linkages.	07
<b>III</b>	3. National and International Security related Concepts a. National Power and its elements, National Interest, Foreign Policy and Diplomacy. b. Balance of Power, Collective Security	07
<b>IV</b>	4. Challenges and Threats to National Security a. Military Threats/Challenges: Internal and External b. Non-Military Threats/Challenges: Internal and External	08
<b>PART B</b>		
<b>V</b>	5. Concept of Defence: Threat Perception, Defence Planning and Reforms Military, Nuclear and Missile Capabilities of India, China and Pakistan	08
<b>VI</b>	6. Proliferation of weapons of Mass Destruction (WMD) and NPT, CTBT, MTCR, NMD and FMCT	06
<b>VII</b>	7. Armaments: Arms Race, Arms Aid, Arms Trade and Small Arms Proliferation	08

<b>VIII</b>	8. Measures to address the challenges of National Security: a. One-sided initiative, and b. Collaborative approach 9. Relevance of Science & Technology in National Security	08
<b>Suggested Readings:</b>		
<p><b>1. Booth, K., (2007) Theory of World Security: Cambridge University Press, Cambridge,</b></p> <p>2. Buzan, Barry, (1987) People Fear and State: New Delhi, Trans Asia Publications.</p> <p>3. Das, S.T., (1987) National Security in Perspective: Delhi, Gian Publishing House.</p> <p>4. Frankel, Joseph., (1970) National Interest: London, Macmillan.</p> <p>5. Military Balance, Latest Edition (IISS)</p> <p>6. Morgenthau, Hans, J., (1969) Politics Among Nations, Calcutta, Scientific Book Agency.</p> <p>7. Palmer, Norman D. and Perkins, Howad C., (1968) International Relations: Calcutta, Scientific Book Agency</p> <p>8. Chowdhury, Subrata Roy., (1966) Military Alliances and Neutrality in War and Peace: New Delhi, Orient Longman.</p> <p>9. Singh, Nagendra., (1974) The Defence Mechanism and the Modern State: New Delhi, Asia Publishing House.</p> <p>10. SIPRI Year Book Latest Edition.</p> <p>11. उम्मन, टी०के०, (2010) सुरक्षा: एक नया दृष्टिकोण, प्रभात प्रकाशन, नई दिल्ली।</p> <p>12. पाण्डेय, डॉ० रामसूरत, (2014) राष्ट्रीय सुरक्षा एवं अन्तर्राष्ट्रीय संबंध, प्रकाश बुक डिपो, बरेली।</p> <p>13. सिंह, लल्लन जी, (2003) राष्ट्रीय रक्षा और सुरक्षा, प्रकाश बुक डिपो, बरेली।</p> <p>14. श्रीवास्तव, जे०एम० एवं सिन्हा, हर्ष कुमार (2017), राष्ट्रीय सुरक्षा, ए०एस०आर० पब्लिकेशन, लखनऊ।</p> <p>15. सिंह, अशोक कुमार, (2018), राष्ट्रीय सुरक्षा, प्रकाश बुक डिपो, बरेली।</p> <p>16. कुमार, महेन्द्र, (2005) अन्तर्राष्ट्रीय राजनीति के सैद्धान्तिक पक्ष, शिवलाल अग्रवाल एंड कम्पनी, आगरा।</p> <p>17. Dr. Sanjay Kumar &amp; Anurag Jaiswal Rashtriya Suraksha, G.B. Books, New Delhi.</p> <p>18. Dr. Mohd. Rizwan Nuclear India Pakistan and Present World Order, Anubhav Publisher, New Delhi.</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><b>Suggested Continuous Evaluation Methods:</b></p> <p>Seminar/Research Orientation/Presentation on any topic of the above syllabus</p> <p>Test with multiple choice questions/short and long answer questions</p> <p>Attendance</p>		
<p>Course prerequisites: To study this course, a student must have had the subject ALL in class 12<sup>th</sup>.</p> <p>The eligibility for this paper is 10+2 with any subject</p>		

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

**(Practical)**

<b>Programme/Class: Certificate</b>		<b>Year : Second</b>	<b>Semester - III</b>
<b>Subject : Defence and Strategic Studies (Practical)</b>			
Course Code : 311280		Course Title : <b>Basics of Operational Exercise-III</b>	
Credits: 2		Core Compulsory / Elective	
Max. Marks: 25+75		Min. Passing Marks:	
Total No. of Lectures-Tutorials Practical-30 (60 hours)			
Units	Topic		No. of Lectures
<b>I</b>	1. Relief Features and their representation on the map.		06
<b>II</b>	2. Types of slopes and their representation on the map		08
<b>III</b>	3. Gradient-Determination of gradients		06
<b>IV</b>	4. Inter visibility-Determination of inter visibility in case of rise or fall of slope		10
This course can be opted as an elective by the students of following subjects: Open for all .....			
<b>Suggested Continuous Evaluation Methods:</b>			
Test with multiple choice questions/Research Orientation/short and long answer questions, or Record, Viva Voce			
<b>Course prerequisites:</b> 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)**

<b>Programme/Class: Certificate</b>	<b>Year : Second</b>	<b>Semester - IV</b>
<b>Subject : Defence and Strategic Studies</b>		
Course Code : 411201	Course Title : <b>Strategic Thought (Theory)</b>	
<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 though to contemporary period.		
Credits: 4	Core Compulsory / Elective	
Max. Marks: 25+75	Min. Passing Marks:	
Total No. of Lectures-60		
Units	Topic	No. of Lectures
<b>PART A</b>		
<b>I</b>	1. Kautilay's Philosophy of war	10
<b>II</b>	2. Sun Tzu-The Art of war.	05
<b>III</b>	3. Clausewitz's theories on war and politics	06
<b>IV</b>	4. Mao-Tse-Tung's views on Guerrilla warfare.	08
<b>PART B</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: Their views on the Role of Air Power in Modern Warfare	08
<b>VIII</b>	7. Douhet: Their views on the Role of Air Power in Modern Warfare	08
<b>Suggested Readings:</b>		
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, Routedledge Kegenpaul.
8. Ropp, Theodore, (2000) War in the Modern World, John Hopkins.
9. Beaufre Andre., (1965) Deterrence and Strategy, Faber & Faber.
10. Mao-Te-Taung, (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, चंद प्रकाश एंड ब्रदर्स, हापुड़
15. पाण्डेय, बाबूराम एवं पाण्डेय, रामसूरत, (2005) स्त्रातेजिक विचारक, बरेली बुक डिपो, बरेली
16. सिंह, लल्लन जी., (1997-98) आधुनिक सैन्य चिंतक (विचारक), प्रकाश बुक डिपो, बरेली
17. अधिकारी, शेखर, (2001) आधुनिक स्त्रातेजिक चिंतन, एस.पी.जे. पब्लिकेशंस, इलाहाबाद
18. चेगुएवारा आर्गेंस्तो, (2008) छापामार युद्ध, अनुवाद नरेश 'नदीम', प्रकाशन संस्थान, नई दिल्ली
19. सुंतजू, (2010) युद्ध की कला, अनुवाद डॉ० आलोक कुमार, माप्ले प्रेस, नोएडा

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

**B.A./B.Sc. II, Semester IV, Defence and Strategies Studies, Paper 02**

**(Practical)**

Programme/Class: Certificate	Year: Second	Semester: IV
<b>Subject: Defence Studies and Strategies Studies (Practical)</b>		
Course Code: 411280	Course Title: Basics of TEWT/Sand Model Exercise, Sketching, Discussion	
Credits: 2	Core Compulsory / Elective	
Max. Marks : 25+75	Min. Passing Marks:	
Total No. of Lectures-Tutorials-Practical-30 (60 hours)		
Unit	Topic	No. of Lectures
<b>I</b>	1. Elementary Knowledge of– a. Rank structure of the three services b. Study and description of ground c. Judging distance d. Section formation e. Patrolling  Or 1. Sand Model Exercise Battle of Panipat, 1526 A.D. Battle of Assaye, 1803 A.D.	08
<b>II</b>	2. Sketching of the Charts of Indian Battles Kargil Conflict, 1999	05
<b>III</b>	3. Sketching of the Charts of Western Battles Battle of Somme, 1916	05
<b>IV</b>	4. Lectures 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 II , Semester IV, Defence and Strategic Studies, Paper 01**

Strategic Thought

**(Theory)**

<b>Programme/Class: Certificate</b>	<b>Year : Second</b>	<b>Semester - IV</b>
<b>Subject: Defence and Strategic Studies</b>		
Course Code: 411201	Course Title: Strategic Thought (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.		
Credit: 4	Core Compulsory / Elective	
Max. Marks: 25+75	Min. Passing Marks:	
Total No. of Lectures-60		
Unit	Topic	No. of Lectures
<b>PART A</b>		
<b>I</b>	1. Kautilays's Philosphy of war	10
<b>II</b>	2. Sun Tzu-The Art of war	05
<b>III</b>	3. Clausewitz theories on war and politics	06
<b>IV</b>	4. Mao-Tse-Tung's views on Guerrilla warfare	08
<b>PART B</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: Their views on the Role of Air Power in Modern Warfare	08
<b>VIII</b>	8. Y. Harkabi, and Andre Beaufre - Theories of Nuclear War and Deterrence 9. Thoughts of Mahatma Gandhi on Peace, Security and Development.	10
<b>Suggested Readings:</b>		
<ol style="list-style-type: none"> <li>1. Dass, S.T., (1987) An Introduction to the art of war</li> <li>2. Earl, E.M., (1943) Makers of Modern Strategy, Princeton.</li> <li>3. Fuller, J.F.C., (1998) Armament and History, Da Capo Press.</li> <li>4. Fuller, J.F.C., (1992) The Conduct of war, Da Capo Press.</li> <li>5. Shama Shastri., (2012) Kautilya's Arthshastra, Low price Publications.</li> <li>6. Tzu, Sun., (2015) The Art of War, Grapevine, India.</li> <li>7. Duffy, Christopher., (1987) Siege Warfare, Routeledge Kegenpaul.</li> <li>8. Ropp, Theodore., (2000) War in the Modern World, John Hopkins.</li> <li>9. Beaufre Andre., (1965) Deterrence and Strategy, Faber &amp; Faber.</li> </ol>		

10. Mao-Te-Tung., (1967) On the protracted War: Selected works, Foreign Language Press, Peiking.
11. Nasution, 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, आर०सी०, (1987) पाश्चात्य सैन्य विचारक, चंद प्रकाश एंड ब्रदर्स, हापुड।
15. पाण्डेय, बाबूराम एवं पाण्डेय, रामसूरत, (2005) स्त्रातेजिक विचारक, बरेली बुक डिपो, बरेली।
16. सिंह, लल्लन जी, (1997-98), आधुनिक सैन्य चिंतक (विचारक), प्रकाश बुक डिपो, बरेली।
17. अधिकारी, शेखर, (2001), आधुनिक स्त्रातेजिक चिंतन, ए०पी०जे० पब्लिकेशन्स, इलाहाबाद।
18. चेगुएवारा आर्गेस्तो, (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

**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>
<b>Subject: Defence and Strategic Studies (Practical)</b>		
Course Code: 411280	Course Title: Basics of TEWT/Sand Model Exercise, Sketching, Discussion	
Credit: 2	Core Compulsory / Elective	
Max. Marks: 25+75	Min. Passing Marks:	
Total No. of Lectures-Tutorials-Practical-30 (60 hours)		
<b>Unit</b>	<b>Topic</b>	<b>No. of Lectures</b>
<b>I</b>	1. Elementary knowledge of - a. Rank structure of the three services b. Study and description of ground c. Judging distance d. Section formation e. Patrolling  Or 1. Sand Model Exercise Battle of Panipat, 1526 A.D.	08
	Battle of Assaye, 1803 A.D.	
<b>II</b>	2. Sketching of the Charts of Indian Battles Kargil Conflict, 1999	05
<b>III</b>	3. Sketching of the Charts of Western Battles Battle of Somme, 1916	05
<b>IV</b>	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, Defense and Strategic Studies, Paper 01**

Indian Defense Mechanism

**(Theory)**

<b>Programme/Class: Certificate</b>	<b>Year : Third</b>	<b>Semester - V</b>
<b>Subject: Defence and Strategic Studies</b>		
Course Code: 511201	Course Title: <b>Indian Defense Mechanism (Theory)</b>	
<b>Course outcomes:</b> Students will learn about the Defense Mechanism of India and evaluate its strengths and weaknesses.		
Credit: 4 <sup>^</sup>	Core Compulsory / Elective	
Max. Marks: 25+75	Min. Passing Marks:	
Total No. of Lectures-60		
Unit	Topic	No. of Lectures
<b>PART A</b>		
<b>I</b>	1. Introduction and Differences between Army, Military and Defense Forces 2. Second line of Defense (introduction to Paramilitary Forces in brief)	08
<b>II</b>	3. The Indian Defense Forces a. Rank Structure Of The Three Services b. Recruitment Methods For Defense Services c. Important training Institution of the Three Services	07
<b>III</b>	4. Higher Defense Organization 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
<b>IV</b>	5. Army Organization Organization of army Headquarters (Role of COAS and PSOs).	07
<b>PART B</b>		
<b>V</b>	6. Air Force Organization Organization of Air Force Headquarters (Role of CAS and PSOs).	07
<b>VI</b>	7. navy organization organization of naval Headquarters (Role of CNS & PSOs)	07
<b>VII</b>	8. Cooperation Between Armed Forces and Civil Authorities a. Maintenance of Law and Order b. Flood Relief Operations c. Rescue and Relief Operation	08
<b>VIII</b>	9. Indian's Defence Cooperation with Foreign Countries a. Defence Diplomacy. b. Cooperation on Capacity Building and Training c. Defence Partnerships with Major Powers	08
<b>Suggested Readings:</b> 1. Venkateswaran, A.L., (1967) Defence Organization 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, डॉ० योगेन्द्र कुमार एवं निगम, रामलाल, (1998–99), सैन्य विज्ञान भाग 2, अलका प्रकाशन, कानपुर।
7. वार्षिक रिपोर्ट : रक्षा एवं विदेश मंत्रालय, भारत सरकार।
8. कारडोजो, मेजर जनरल इयान, (2016) भारतीय सेना का गौरवशाली इतिहास, अनुवाद विनोद कुमार मिश्र, प्रभात प्रकाशन 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

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.



**B.A. /B.Sc III , Semester V, Defense and Strategic Studies, Paper 02**

Nation Security of India

**(Theory)**

<b>Programme/Class: Certificate</b>	<b>Year : Third</b>	<b>Semester - V</b>
<b>Subject: Defence and Strategic Studies</b>		
Course Code: 511202	Course Title: <b>National Security of India (Theory)</b>	
<b>Course outcomes:</b> Students will learn about the Defense Mechanism of India and evaluate its strengths and weaknesses.		
Credit: 4	Core Compulsory / Elective	
Max. Marks: 25+75	Min. Passing Marks:	
Total No. of Lectures-60		
Unit	Topic	No. of Lectures
<b>PART A</b>		
<b>I</b>	1. India's Geo-Strategic Location and significance. a. India's Borders-Nature and characteristics of land borders. b. Indian ocean territory and its strategic significance	08
<b>II</b>	2. Indian Concept of National Security a. Meaning and Definition b. Threat Perceptions c. Types of threats of India	07
<b>III</b>	3. India's Security Problems since independence. a. Geo-political effects of partition. b. Effects of Armed Forces	08
<b>IV</b>	4. Determinants of Indian Foreign Policy-Basic Determinants: Objectives of Indian foreign policy; global and regional perspective.	07
<b>PART B</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.	07
<b>VI</b>	6. Internal dimension of India's Security a. Terrorism in Jammu & Kashmir b. Insurgency in North eastern states c. Naxalism	07
<b>VII</b>	7. Defence Organization in India: Structure, Objective, Role and Problems	08
<b>VIII</b>	8. National Security Council: Structure and Role	
<b>Suggested Readings:</b>		
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.		

<p>3. Bobbing, Ross and Gordon, Sandy, (1992) India's Strategic Future: Delhi, Oxford University Press.</p> <p>4. Chatterjee, R.K. (1978) India's Land Borders-Problems and Challenges: New Delhi, Sterling Publishers.</p> <p>5. Chaudhary, Rahul Roy, (1995) Sea Power and India's Security, London, Brassey's.</p> <p>6. Dass, S.T., (1987) National Security in Perspective: Delhi, Gian Publishers.</p> <p>7. Kavic, Lorne J., (1967) India's Quest For Security: Defence Policies 1947-1965, Los Angeles, University of California Press.</p> <p>8. Menon, V.P., (1961) The Story of the Integration of Indian States: New Delhi, Orient Longmans.</p> <p>9. Nayar, V.K., (1992) Threats From Within: New Delhi, Lancer Publications.</p> <p>10. Rao, Ramakrishna and Sharma, R.C., (1991) India's Borders, New Delhi, Scholars' Publishing Forum.</p> <p>11. Rao, P.V.R., (1970) Defence without Drift: Bombay, Popular Prakashan.</p> <p>12. Singh, Jaswant (1999) Defending India: Bangalore, Macmillan India Ltd.</p>
<p>13. दत्त, बी०पी०, (2007) स्वतन्त्र भारत की विदेश नीति, अनुवाद नरेन्द्र तोमर, नेशनल बुक ट्रस्ट इंडिया।</p> <p>14. कुमार, अशोक, (2015) भारत की आंतरिक सुरक्षा: मुख्य चुनौतियाँ, माइग्राहिल एजुकेशन (भारत) प्राइवेट लिमिटेड, नई दिल्ली।</p> <p>15. शरण, हरी एवं सिन्हा, हर्ष कुमार, (2012) हिंद महासागर: चुनौतियाँ एवं विकल्प, प्रत्युष पब्लिकेशन दिल्ली।</p> <p>16. मलिक, जनरल पी०वी० (2014) भारतीय सैन्य शक्ति, प्रभात प्रकाशन, दिल्ली।</p> <p>17. गाधव, राम, (2015) असहज पड़ोसी (युद्ध के 50 वर्षों बाद भारत और चीन), प्रभात पेपरबैक्स, नई दिल्ली।</p> <p>18. Dr. Sanjay Kumar &amp; Anurag Jaiswal-Rashtriya Suraksha, G.B. Books, New Delhi.</p> <p>19. Dr. Mohd. Rizwan &amp; Dr. Mohd. Saqib-India's Traditional and Non-Traditional Security Challenges, Anu Books, New Delhi-2021</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><b>Suggested Continuous Evaluation Methods:</b>  Seminar/Research Orientation/Presentation on any topic of the above syllabus  Test with multiple choice questions/short and long answer questions  Attendance</p>

**B.A. /B.Sc III , Semester V, Defense and Strategic Studies, Paper 03**

**(Practical)**

<b>Programme/Class: Certificate</b>	<b>Year : Third</b>	<b>Semester - V</b>
<b>Subject: Defence and Strategic Studies (Practical)</b>		
Course Code: 511280	Course Title: <b>Military use of Electromagnetic Spectrum, Press Clipping, Tour</b>	
Credit: 2	Core Compulsory / Elective	
Max. Marks: 25+75	Min. Passing Marks:	
Total No. of Lectures-Tutorials-Practical-30 (60 hours)		
Unit	Topic	No. of Lectures
<b>I</b>	1. Thermal Imaging and Sensors. 2. Radars and its significance.	10
<b>II</b>	3. Introduction to Electronic Warfare in terms of Lasers, ECM, ECCM	08
<b>III</b>	4. Press Clipping on allotted current topics with a brief assignment	06
<b>IV</b>	5. Educational Tour and its reprot.	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/Research Orientation/short and long answer questions, of 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. .....		

**B.A. /B.Sc III , Semester V, Defense and Strategic Studies, Paper 04**

Research Project

<b>Programme/Class: Graduation</b>	<b>Year : Third</b>	<b>Semester - V</b>
<b>Subject:</b>		
Course Code: 511265	Course Title: <b>Research Project - I</b>	
Credit: 3	Core Compulsory / Elective	
Max. Marks: 25+75	Min. Passing Marks:	
Total No. of Lectures-45		
Unit	Topic	No. of Lectures
<b>I</b>	The Candidate has to select and give inputs in any one of the following. 1. Indo-Nepal Border Security and Management 2. Study and assessment of potential cyber threats in your area	10
<b>II</b>	Involving application of knowledge in solving/analyzing/exploring real life situation/difficult issues related to Defence and Strategic Studies	11
<b>III</b>	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
<b>IV</b>	A detailed Report to be prepared and submitted.	12
This course can be opted as an elective by the students of following subjects: Open for all .....		
<b>Suggested Continuous Evaluation Methods:</b> 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		

**B.A. /B.Sc III , Semester VI, Defense and Strategic Studies, Paper 01**

Science and Technology in Relation to Warfare

**(Theory)**

<b>Programme/Class: Graduation</b>	<b>Year : Third</b>	<b>Semester - V</b>
<b>Subject: Defence and Strategic Studies</b>		
Course Code: 611201	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 (MIX) of a nation.		
Credit: 4	Core Compulsory / Elective	
Max. Marks: 25+75	Min. Passing Marks:	
Total No. of Lectures-60		
Unit	Topic	No. of Lectures
<b>PART A</b>		
<b>I</b>	1. Science, Technology and National Security	07
<b>II</b>	2. Impact of Science and Technology on Society and warfare.	07
<b>III</b>	3. Transfer of Technology: a. International interdependence b. Role of Multinational Corporations.	08
<b>IV</b>	4. Armament Technology (in brief): a. Armoured vehicles: Tanks and APC's b. Aircrafts, UAV's and Missile c. Submarine and Aircraft Carrier	08
<b>PART B</b>		
<b>V</b>	5. Electronic Warfare: Concept and applications	07
<b>VI</b>	6. Ballistic Missile Defence (BMD): Concept and applications.	07
<b>VII</b>	7. Revolution in Military Affairs (RMA)	08
<b>VIII</b>	8. Defence R&D and Defence Production in India	08
<b>Suggested Readings:</b>		
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 Multinational: Lexington, Lexington Books.		
5. Johan Erickson (Ed.) (1966) The Military Technical Revolution: Its Impact on strategic and Foreign Policy: New York, Fredcrick A Prager.		
6. Macksey, Kenneth (1983) 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 Publication House.		

8. Jsbir 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, Harti Anand.
12. Robert H. Latiff, (2017) Future war, Penguin Random House.
13. कलाम, डॉ ए.पी.जे. अब्दुल एवं राजन, वाई.एस., (2015) भारत 2020 और उसके बाद, प्रभात प्रकाशन, नई दिल्ली
14. बाला, मनमोहन, (2000) रक्षा विज्ञान आयुध तथा टेक्नोलॉजी, प्रभात प्रकाशन, नई दिल्ली
15. बाला, मनमोहन., (2005) युद्ध और सूचना प्रौद्योगिकी, विकास दीप प्राइवेट लिमिटेड, नई दिल्ली
16. शंकर, काली, उपग्रह संचार प्रणाली के बढ़ते कदम, बी.पी.बी. पब्लिकेशन, नई दिल्ली

This course can be opted as an elective by the students of following subject : 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

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

Military Psychology

(Theory)

<b>Programme/Class: Graduation</b>	<b>Year : Third</b>	<b>Semester - VI</b>
<b>Subject: Defence and Strategic Studies</b>		
Course Code: 611202	Course Title: <b>Military Psychology (Theory)</b>	
<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.		
Credit: 4	Core Compulsory / Elective	
Max. Marks: 25+75	Min. Passing Marks:	
Total No. of Lectures-60		
Unit	Topic	No. of Lectures
<b>PART A</b>		
<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	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 maintain discipline	07
<b>VI</b>	6. Motivation and Morale factors and 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
<b>Suggested Readings:</b>		
<ol style="list-style-type: none"> <li>1. Bartlett, F.C., (1927) Psychology and Soldier, Cambridge, Cambridge University Press.</li> <li>2. Baynes, John., (1967) Morale, : A Study of men and courage London, Cassell.</li> <li>3. Boring, E.G., (ed.), (1945) Psychology for the Armed Services, Dehradun, Natraj Publishers.</li> <li>4. Chibber, M.L. (1986) Military Leadership to Prevent Militar Coup, New Delhi, Lancer International.</li> <li>5. Copeland, Norman., (1967) Psychology and the soldier, Dehradun, English Book Depot.</li> <li>6. Hasnain Kumar., (1967) Psychology for the fighting man, Dehradun, English Book Depot, Publishing Company.</li> <li>7. Lienbarger, P.M.A.,(1954) Psychological Warfare, Washington, D.C. Combat Press.</li> <li>8. Raj Narain, (1979) Military Psychological, Agra : National Psychological Co-operation, Ist edition.</li> <li>9. Nidhi Maheshwar,(2016) Military Psychology : Concepts, Trends &amp; Interventions, Sage Publication India Pvt. Ltd.</li> <li>10. गुप्त, परशुराम, (2015) सैन्य मनोविज्ञान, प्रकाश बुक डिपो, बरेली</li> <li>11. तिवारी, डॉ, निरंकार प्रसार, (2015) सैन्य मनोविज्ञान, ए.एस.आर. पब्लिकेशन, लखनऊ</li> <li>12. सिन्हा, हर्ष कुमार एवं सिंह, विनोद कुमार, सैन्य मनोविज्ञान, प्रत्युष पब्लिकेशन्स, नयी दिल्ली</li> </ol>		
This course can be opted as an elective by the students of following subject : 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/12the certificate/diploma		

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

**(Practical)**

<b>Programme/Class: Graduation</b>	<b>Year : Third</b>	<b>Semester - VI</b>
<b>Subject: Defence and Strategic Studies (Practical)</b>		
Course Code: 611280	Course Title: <b>Spotting Strategic Locations, Military Models, Presentations</b>	
<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.		
Credit: 2	Core Compulsory / Elective	
Max. Marks: 25+75	Min. Passing Marks:	
Total No. of Lectures-60		
Unit	Topic	No. of Lectures
<b>PART A</b>		
<b>I</b>	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
<b>II</b>	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. Radar d. Submarine e. Tank f. Missile g. Helicopter	08
<b>IV</b>	4. Presentations on current defence topic	06
<b>This course can be opted as an elective by the students of following subjects: Open for all .....</b>		
<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/12th certificate/diploma		



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

**(Research Project)**

<b>Programme/Class: Graduation</b>	<b>Year : Third</b>	<b>Semester - VI</b>
<b>Subject: Defence and Strategic Studies</b>		
Course Code: 611280	Course Title: <b>Research Project -II</b>	
<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.		
Credit: 3	Core Compulsory / Elective	
Max. Marks: 25+75	Min. Passing Marks:	
Total No. of Lectures-60		
Unit	Topic	No. of Lectures
<b>PART A</b>		
<b>I</b>	The Candidate has to select and give inputs in any one of the following : It many include ..... 1. Any Natural/Man Made disaster of your area and its management 2. Potential threats to the city security and its management	08
<b>II</b>	An intervention plan would be developed based on problem identified in the area/ a field visit is mandatory to develop and understanding of the whole process.	08
<b>III</b>	The planned intervention to be carried in the selected area Based on the intervention, the pre-intervention 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.	08
<b>IV</b>	A detailed Report is to be submitted and evaluated.	06
<b>This course can be opted as an elective by the students of following subjects: Open for all .....</b>		
<b>Suggested Continuous Evaluation Methods:</b> Test with multiple choice questions/short and long answer questions, or Shor Presentation/Lecturer, Record, Viva Voce/Research Orientation		
Course prerequisites : To study this course, a student must have had the subject ..... in class/12the certificate/diploma		