

Prof. Rajendra Singh (Rajju Bhaiya) University, Naini Prayagraj National Education Policy-2020

Syllabus- Defence and Strategic Studies

Year-wise Titles of the Papers in U.G Programme (B.A./B.Sc.)

Year	Paper	Course Code	Paper Title	Theory/Practical	Credits
B.A-1	I	A120101T	Conceptual Aspect of war	THEORY	4
	II	A120102P	Basics of Operational Exercises-l	PRACTICAL	1
	III	A120201T	Military History of India	THEORY	4
	IV	A120202P	Basics of Operational Exercises-ll	PRACTICAL	1
B.A-2	I de	A120301T	National Security - Conceptual Aspects	THEORY	4
19	II	A120302P	Basics of Operational Exercises-Ill	PRACTICAL	1 43
	III	A120401T	Strategic Though	THEORY	4
0	IV	A120402P	Basics of TEWTs/Sand Model Exercises, Sketching, Discussion	PRACTICAL	1
B.A-3	I	A120501T	Indian Defence Mechanism	THEORY	5
	II	A120502T	National Security of India	THEORY	4
	III	A120503P	Military use of Electromagnetic Spectrum, Press Clipping, Tour	PRACTICAL	1
4	V	A120601T	Science and Technology in	THEORY	5
			Relation to Warfare		
	VI	A120602T	Military Psychology	THEORY	4
	VII	A120603P	Spotting Strategic Locations, Military Models, Presentation	PRACTICAL	1

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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 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 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. (I Year)
- 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 (I Year)

Paper	Name of Paper	Credits	No of
		1	Lectures
I	Conceptual Aspect of war (Theory)	4	60
II	Basics of Operational Exercises-I(Practical)	1	60
Section 18	Total	5	120
X	Name of Paper	Credits	Lectures
III	Military History of India(Theory)	4	60
IV	IV Basics of Operational Exercises-II(Practical)		60
	Total	5	120

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. (II Year)
- 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. (II Year)

Paper	Name of Paper	Credits	No of Lectures
I	National Security- Conceptual Aspects(Theory)	4	60
II	Basics of Operational Exercises-Ill(Practical)	1	60
1.10	Total	5	120
1 1 1	Name of Paper	Credits	No of Lectures
III	Strategic Thought (Theory)	4	60
IV	Basics of TEWTs/Sand Model Exercises, Sketching,	1	60
1	Discussion (Practical)		
CX-II	Total	5	120

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. (III Year)
- 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. (III Year)

Paper	Name of Paper	Credits	No of Lectures
I	Indian Defence Mechanism (Theory)	5	60
П	National Security of India(Theory)	4	60
III	Military use of Electromagnetic Spectrum, Press Clipping, Tour (Practical)	1	60
74.1	Total	10	180
100	Name of Paper	Credits	No of Lectures
V	Science And Technology in Relation to Warfare(Theory)	5	60
VI	Military Psychology(Theory)	4	60
VII	Spotting Strategic Locations, Military Models, Presentations (Practical)	1	60
	Total	10	180

B.A. /B.Sc I ,Year I, Defence and Strategic Studies, Paper 1 Conceptual Aspects of war (Theory)

Progran	nme/Class: Certificate	Year: First	Paper: 1	
Subject	: Defence and Strategic	Studies	-	
Course Co	ode: A120101T	Course Title: Con	nceptual Aspects of war(Theory)	
	outcomes:		The latter	
			le to: Clearly understand the definition, m	
			various typologies, techniques and charact	eristics; and Grasp the
	nd theories of nuclear war	in detail.	1100	
Credits			Core Compulsory / Elective	No. of Concession
	(arks: 25+75		Min. Passing Marks:35	100 D
Total N	o. of Lectures-60			730
Units	1 1 1	To	ppic	No of
				Lectures
i	b. War - Definition various causes of War. I Security and Defence. c. Ancient Indian War a	ition of Defence and ship with other discussion and meaning and Basic Concepts - W	d basic concepts – Understanding Var, Campaign, Battle, Strategy, Tactics,	08
II	3. Principles of War4. War as an instrument	nt of policy : Past, I	Present and Future	07
III	5. Modern Warfare a. Concept and de b. Features of Mo			07
IV	6. Guerilla Warfare a. Origin and con b. Principles, tech c. Counter guerri	niques and charact	eristics of guerrilla warfare.	08
	PART B	- 10		
v	7. Psychological Warf a. Definition and c b. Functions and L	oncept.	THE SALES	8
VI	8. Economic Warefard a. Concept and def b. Basic dimension c. Effects of war o	inition	у	6
VII	9. Nuclear warfarea. Beginning of nucleab. Nuclear strategies o	f`Deterrence' and		8
VIII	10. Chemical and Biol a. Definition and b. Agents,their	O .	use.	8
Suggest	ed Readings:	7.0		300

- 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. Wright, Quincy, (1942) Study of War, University of Chicago Press.
- 13.सिंह, टण्डन, अग्रवाल (2012), युद्ध औश्र शांति का अध्ययन, शारदा पुस्तक भवन, प्रयागराज
- 14. पाण्डेय बाबूराम 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 12th.

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

Suggested Equivalent online courses:

- Coursera
- Swayam

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

Programme/Class: Certificate Year: First		Year: First	Paper: II	
	Subject	: Defence and Strategic Stu	idies (Practical)	
Course Code	: A120102P Course	Title: Basics of Operational	Exercises-l	
	Credits: 1		Core Compulsory / Elective	
	Max. Marks: 25+75	1000	Min. Passing Marks:35	
	Total No.	of Lectures-Tutorials-Pract	ical-30 (60 hours)	
Unit		Торіс	No. of Lectures	
I	Military; Enlargement	1. Maps: Definition and Features; Classification and its utility for Military; Enlargement and reduction of Maps. 2. Connventional Signs: Military and Geographical		
II		3 .GRID System: Four Figure and Six figure Map References.		
ш	4. North: Types of Nor Method; The equal altimethod.			
IV	conversion of scale int	lethods of representing Scale o Representative Fraction, cone ne comparative scale lines.		

Suggested Continuous Evaluation Methods:

Research Orientation

Test with multiple choice questions/short and long answer questions, or Record, Viva Voce

B.A./B.Sc I, Year I, Defence and Strategic Studies, Paper 03

Military History of India (Theory)

Programme/Class: Certificate	Year: First	Paper: 1II				
Subject: Defence and Strategic Studies						
Course Code: A120201T Course Title: Military History of India (Theory)						

Core Compulsory / Elective

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

Max. N	Iarks: 25+75 Min. Passing Marks:35	
Total N	Io. of Lectures-60	. 424
Units	Topic	No of Lectures
Í,	 Military System in Vedic and Epic Age. Macedonian and Indian art of war with particular reference to the battle of Hydaspes (326 B.C.) 	08
II .	3. Kautilya's Philosophy of War: State Craft, Military Organisation, Weapon, Intelligence System and the Art of War	07
III	 Turk and Rajput Military System with particular reference to the Battle of Tarrian(1192 AD) Military Organisation and Pattern of Warfare during the Sultanate period with particular reference to Ala-uddin Khilji 	07
IV	6. The Mughal Military System with particular reference to the First Battle of Panipat (1526 AD) 8. The Rajput Military Organization, Weapon system and art of fighting with particular reference to the battle of Kanwah (1527 AD)	08
	PART B	
V	9. The Maratha Military System with special reference to the third battle of Panipat (1761 AD)	8
VI	10. Sikh Military System with special reference to the battle of Sobraon (10 Feb. 1846AD)	6
VII	11. Military System of East India Company, Evolution of Indian Armed forces from 1858 to 1947 A.D., Growth of Indian Navy and Air Force	8
VIII	12. India's Wars post independence (In Brief) a. The First India-Pakistan War (1947- 1948) b. India-China War of 1962 c. The India Pakistan War of 1965 d. Liberation of Bangladesh of 1971 e. The Kargil Conflict of 1999	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. Roy, Kaushik Ed., (2011), The Indian Army in the Two World Wars Brill.
- 14. Singh, Sarva Daman. (1997) Ancient Indian Warfare: With Special Reference to the Vedic Period. Motilal Banasidass, New Delhi.
- 15. डेविड, मेजर अल्फ्रेड, (1972), भारतीय युद्ध कला, अनुवाद हिंदी ग्रन्थ अकादमी, भोपाल
- 16. शर्मा, डा. योगेन्द्र कुमार एवं निगम रामलाल, (1998–99) सैन्य विज्ञान भाग 1 व 2, अलका प्रकाशन , कानपुर
- 17. सिंह, टण्डन, अग्रवाल (2012), भारतीय युद्धकला, शारदा पुस्तक भवन, प्रयागराज
- 18. सिंह, टण्डन, अग्रवाल (2012), स्वतंत्र भारत की युद्धकला (कश्मीर से कारगिल तक), शारदा पुस्तक भवन, प्रयागराज

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 12th. The eligibility for this paper is 10+2 with any subject

Suggested Equivalent online courses:

- Coursera
- Swayam

B.A./B.Sc. I, Year I, Defence and Strategic Studies, Paper 04 (Practical)

Programme/Cl	ass: Certificate	Year: First		er: IV
	9	Subject: Defence and Strat		
Course Code: A	120202P	Course Title: Basics of Ope	rational Exercises-ll	
	Credits: 1		Core Compulsory	
	Max. Marks: 25	5+75	Min. Passing M	arks:35
	To	tal No. of Lectures-Tutoria	ls-Practical-30 (60 hours)	
Unit	Unit			No. of Lectures
I	1.Bearing: Definition, Inter conversion of Bearing in detail.			06
/II	various parts: A	natic Compass (LPC): Featurattempt following exercise conetic north; Setting of the M	n the LPC: To	08
3. To find out the bearing of a point from other point situated on the ground.			06	
4. To determine one's and enemy's position on the map by resection and intersection methods with the help of compass.				

Suggested Continuous Evaluation Methods:

Test with multiple choice questions/ Research Orientation/ short and long answer questions, or Record, Viva Voce

Course prerequisites: To study this course, a student must have had the subjectin class/12th/ certificate/diploma.

B.A. /B.Sc II, Year II, Defence and Strategic Studies, Paper 01

National Security-Conceptual Aspects (Theory)

Program	me/Class: Diploma	Year: Second	Paper: 1	1	
Subject:	Defence and Strategic	Studies			
Course (Code: A120301T	Course Title: Natio	nal Security-Conceptual	l Aspects(Theory)	
This cour	utcomes: se helps students devel als of National Security		es in national security a practice.	ffairs by building h	is/her capacit
Credits:			Core Compulsory /]	Elective	275m
Max. Ma	arks: 25+75		Min. Passing Marks	:35	
Total No	o. of Lectures-60			and the same of the	Section 2.
Units	1880	Т	opic		No of Lectures
1/0			Nation – State, Security as of National Security.	and Defence	08
II .		Analysis Concept, C	omponents and formula	ation of Security	07
ш	Diplomacy.	ver and its elements Power, Collective	, National Interest, For Security and Collective		07
IV	4. Challenges and Thr a. Military Threa	eats to National Secu ats/Challenges :Intern Threats/Challenges:In	rity al and External		08
V	5. Concept of Defe	nce: Threat Percep	ion,Defence Planning of India, China and Pak	and Reforms,	8
VI			uction(WMD)and NPT		6
VII	7. Armaments: Arms	Race, Arms Aid, Arm	s Trade and Small Arms	s Proliferation	8
VIII	9. Measures to a.One-sided initiative 10. Relevence of Science	, and b. Collaborat		al 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. सुरक्षाः, (2010), सुरक्षा एक नया दृष्टिकोण, प्रभात प्रकाशन, नई दिल्ली
- 12. पाण्डेय रामसूरत, (2010), राष्ट्रीय सुरक्षा एवं अन्तर्राष्ट्रीय संबंध, प्रकाश बुक डिपो, बरेल
- 13. सिंह लल्लन जी, (2021) राष्ट्रीय रक्षा एवं सुरक्षा, प्रकाश बुक डिपो, बरेली
- 14. श्रीवास्तव, जे.एम. एवं सिन्हा, हर्ष कुमार (2017), राष्ट्रीय सुरक्षा, ए.एस. आर, पब्लिकेशन, लखनऊ
- 15. सिंह, अशोक कुमार., (2018), राष्ट्रीय सुरक्षा, प्रकाश डिपो, बरेली
- 16. कुमार महेद्र , (2005) अन्तर्राष्ट्रीय राजनीति के सैद्धान्तिक पक्ष, शिवलाल अग्रपाल एण्ड कंपनी, आगरा

PRSLI/UG/DEF/ 8

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 12th. The eligibility for this paper is 10+2 with any subject

Suggested Equivalent online courses:

- Coursera
- Swayam

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

Class: Diploma	Year: Seco	ond	Paj	per: ll
Sub	ject: Defence and St	rategic Stud	ies (Practical)	
A120302P	Course Title: Basics	of Operation	nal Exercises-lll	
Credits: 1 Core Compulsory / Elective				
Max. Marks: 25+75 Min. Passing Marks:35				
Total 1	No. of Lectures-Tuto:	rial <mark>s-Prac</mark> tic	al-30 (60 ho <mark>urs)</mark>	
_	Topic			No. of Lectures
 Relief Feat 	1. Relief Features and their representation on the map.			06
2. Types of slo	2. Types of slopes and their representation on the map 08			08
Gradient – Determination of gradients. 06			06	
4.Inter visibility – Determination of inter visibility in case of rise or fall of slope.				10
	Suby A120302P Credits: 1 Max. Marks: 25 Total I 1. Relief Feat 2. Types of slo 2. Gradient – 4.Inter visibilit	Subject: Defence and Str A120302P Course Title: Basics Credits: 1 Max. Marks: 25+75 Total No. of Lectures-Tuto Topic 1. Relief Features and their represe 2. Types of slopes and their represe 2. Gradient – Determination of grad 4.Inter visibility – Determination of	Subject: Defence and Strategic Studing A120302P Course Title: Basics of Operation Credits: 1 Max. Marks: 25+75 Total No. of Lectures-Tutorials-Practical Topic 1. Relief Features and their representation on the 2. Types of slopes and their representation on the 2. Gradient – Determination of gradients. 4. Inter visibility – Determination of inter visibility Determination of inter visibility 1. 1. 1. 1. 1. 1. 1. 1	Subject: Defence and Strategic Studies (Practical) A120302P

This course can be opted as an elective by the students of following subjects: Open for all

Suggested Continuous Evaluation Methods:

Test with multiple choice questions/ Research Orientation/short and long answer questions, or Record, Viva

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

B.A./B.ScII, Year II, Defence and Strategic Studies, Paper 03

Strategic Thought

(Theory)

Programme/Class: Diploma	Year: Second	Paper: III				
Subject: Defence and Strategic Studies						
Course Code: A120401T Course Title: Strategic Thought (Theory)						

Course outcomes:

The course will provide students an acquaintance with the concepts of strategic thinking as propounded by prominen classical and modern thinkers. Students will also develop analytical thinking regarding relevance of such thought to contemporary period.

Credits	· 1	Core Compulsory / Elective	1776
		Min. Passing Marks:35	No. of the
Total N	To. of Lectures-60		ACCUPATION OF THE PARTY OF THE
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	
600	PART B		1.47
V	5 .J.F.C. Fuller and Liddell Hart: Their views of	8	
VI	6. Mahan's Views on Sea Power and Naval Wa	5	
VII	7. Douhet and Mitchell: Their views on the Ro	8	
	8. Y.Harkabi, John Foster Dulles and Andre	10	
VIII	and Deterrence.		
	9. Thoughts of Mahatama Gandi and Nehru on	Peace, Security and Development.	

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 Praguer.
- 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 Praguer.
- 14.जोहरी, आर.सी., (1997) पाश्चात्य सैन्य विचारक, चन्द्र प्रकाश एंड ब्रदर्श, हापुड़
- 15.पण्डेय बाबुराम एवं पाण्डेय रामसुरत, (2005), स्त्रॉतेजिक विचारक, बरेली बुक डिपो, बरेली
- 16. सिंह लल्लनजी, (2012) आधुनिक सैन्य चिन्तक (विचारक), प्रकाश बुक डिपो, बरेली
- 17. अधिकारी, शेखर, (2001), आधनिक स्त्रातेजिक चिंतन, एस.पी.जे. पब्लिकशंस, इलाहाबाद
- 18. चेगुएवाराआर्गेस्तो., (2008) छापामार युद्ध, अनुवाद नरेश 'नदीम' प्रकाशन संस्थान, नई दिल्ली
- 19.स्ंतज्,, (2010) युद्ध की कला, अनुवा डॉ. आलोक कुमार, मांप्ले 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 12th.

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

- Coursera
- Swayam

B.A./B.Sc. II, Year II, Defence and Strategic Studies, Paper 04 (Practical)

Progran	nme/Class: Diploma	Year: Second	Paper: 1V	
		Subject: Defence and Strateg	cic Studies (Practical)	
Course C	Code: A120402P	Course Title: Basics of TEW	Ts/Sand Model Exercises, Sketching, Discussion	
	Credits: 1		Core Compulsory / Elective	
	Max. Marks: 2		Min. Passing Marks:35	
	То	tal No. of Lectures-Tutorials		
Unit	100	Topic	No. of Lectures	
	1.Elementary know	0		
	a.Rank structure of t			
	b.Study and descript	ion of ground	The second second	
	C.Judging distance		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
T	d.Section formation	08		
1.0	e.Patrolling			
- 400	Or		1 1 1 2	
	1.Sand Model Exer			
100	Battle of Panipat, 1	526 A.D.		
20.00	Battle of Assaye, 1	803 A.D.		
		Charts of Indian Battles		
II	a.Battle of Thagla R	a.Battle of Thagla Ridge, 1962.		
ete.	b.Kargil Conflict, 19			
	3. Sketching of the	Charts of Western Battles		
III	aBattle of Trafalga	r, 1805.	05	
	b.Battle of Somme,	1919.		
IV	4. Lecture and group	discussion on current defence	e topics. 12	
his cour	se can be opted as an	elective by the students of fo	llowing subjects: Open for all	
			7.00	
	d Continuous Evalua		- T	
st with	multiple choice ques	tions/ Research Orientation/	short and long answer questions, Record, Vi	
oce			Charles and the same of the sa	
ourse pi	rerequisites: To study	this course, a student must ha	ave had the subjectin class/12 th /	

B.A./B.Sc III, Year III, Defence and Strategic Studies, Paper 01 Indian Defence Mechanism

(Theory)

Programn	ne/Class: Degree	Year: Third	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Paper: I			
Subject:	Subject: Defence and Strategic Studies						
Course Co	Course Code: A120501T Course Title: Indian Defence Machanism (Theorem					ry)	
Course out	Course outcomes:Stud <mark>ents</mark> will learn about the defence mechanism of India and evaluate its strengths and						
weaknesses				8			
Credits: 5	7607		Core Com	pulsory / Electiv	/e	37	
Max. Mar	Max. Marks: 25+75 Min. Passing Marks:35						
Total No.	Total No. of Lectures-60						
Units	Topic No of Le			No of Lectures			
т	1. Introduction and Differences between Army, Military and Defence Forces			08			
1	2. Second line Defence [introduction to Paramilitary Forces in brief)			00			
2. The Indian Defence Forces							
l II	a. Rank Structure of the Three Services.				07		
11		b. Recruitment methods for Defence Services.			07		
	c .Important training Institution of the Three Services.						

Ш	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 Organizationa. Organization of Air Force Headquarters (Role of CAS and PSOs).b. Static and Field formation of Indian Air Force.	7
VI	6. Navy Organization a. Organization of Naval Headquarters (Role of CNS & PSOs). b. Static and Field formation of Indian Navy.	-7
VII	7.Cooperation Between Armed Forces and Civil Authorities a .Maintenance of Law and Order b.Flood Relief Operations c .Rescue and Relief Operation	8
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	8

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, अल्का प्रकाशन कानपुर
- 7. वार्षिक रिर्पोट रक्षा एवं विदेश मंत्रालय-भारत सरकार
- 8. कारडोजो, मेजर लइयान, , (2016), भारतीय <mark>सेना का गौरवशाली इतिहास, अनुवाद विनोद कुमार मिश्र,</mark> 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 12th. The eligibility for this paper is 10+2 with any subject

- Coursera
- Swayam

B.A./B.Sc III, Year III, Defence and Strategic Studies, Paper 02

Nation Security of India

(Theory)

	mme/Class: Degree	Year: Third	Paper: II	
	t: Defence and Strateg			
	Code: A120502T	Course Title: National	Security of India (Theor	y)
Students	outcomes: will learn about the late its strengths and v	Defence mechanism of veaknesses.	India	200
Credits			Core Compulsory	/ Elective
Max. N	Marks: 25+75		Min. Passing Ma	
Total N	No. of Lectures-60			47h. A
Units	1 23	Topic		No of Lectures
1	a.India's Borders	gic Location and s <mark>ig</mark> nifica s- Nature and characteris erritory <mark>and</mark> its str <mark>ate</mark> gic s	tic <mark>s o</mark> f land b <mark>or</mark> ders.	08
п	2.Indian Concept of a.Meaning and Do b.Threat Percepti c.Types of threats	efinition ons to India		07
ш	3.India's Security Pr a.Geo-political eff b.Effects on Arme		ce.	08
IV		Indian <mark>Foreign P</mark> olicy - l foreign policy; global ar B		07
V	4. External Dimensional Security problem b. Security problem c. Regional Securi	ons of India's security ns related to Pakistan inc ns related to China includ	luding Indo-Pak wars. ling 1962 Sino-Indian war.	07
VI	5. Internal dimensio a. Terrorism in Jan	n of India's security		07
VII	6. Defence Organiza Problems.	tion i <mark>n India: - Struct</mark> ur	e, Objectives, Role, and	08
VIII		Council: Structure and R Management and Future		08

- 1.Bajpai, U.S., (1986) India and its Neighborhood: 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. Navar, V.K., (1992) Threats From Within: New Delhi, Lancer Publications.
- 10.Rao, Ramakrishna and Sharma, R.C., (1991) India's Borders, New Delhi, Scholars' Publishing Forum.
- 11.Rao, P.V.R., (1970) Defence Without Drift: Bombay, Popular Prakashan.
- 12.Singh, Jaswant (1999) Defending India: Bangalore, Macmillan India Ltd.
- 13.कलाम, डॉ. ए.पी.जे. अब्द्ल एवं राजन वाई.एस., (2015), भारत 2020 और उसके बाद, प्रभात प्रकाशन नई दिल्ली
- 14. बाला, मनमोहन , (2000), रक्षा विज्ञान आयुध तथा टेक्नोलॉजी, प्रताभ प्रकाशन नई दिल्ली
- **15.** बाला, मनमोहन, , (2005), युद्ध और सूचना प्रौद्योगिकी, विकास दीप प्राइवेट लि. नई दिल्ली
- **16.** शंकर, काली, उपग्रह संचार प्रणाली के बढते कदम, बी.पी.बी. पब्लिकेशन 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.A./B.Sc. III, Year III, Defence and Strategic Studies, Paper 03 (Practical)

Programme/Class: Degree Year: Third			per: III	
11111		Subject: Defence and Strat	t <mark>eg</mark> ic S <mark>tud</mark> ies (Practical)	1.70
Course Code:	A120503P	Course Title: Military use of	of Electromagnetic Spectrum.	Press Clipping, Tour
	Credits:	1	Core Compulsor	y / Elective
	Max. Marks:	25+75	Min. Passing I	Marks:35
		Total No. of Lectures-Tutoria	lls-Practical-30 (60 hours)	
Unit	-	Торіс		No. of Lectures
I	1.Thermal Imaging and Sensors. 2.Radars and its significance.			10
П	3.Introducti ECCM	3.Introduction to Electronic Warfare in terms of Lasers, ECM, ECCM		
III	4.Press Clip assignment	4.Press Clippings on allotted current topics with a brief assignment		
IV	6.Education	al To <mark>ur and its r</mark> eport.		06
This course ca	an be opted as ar	elective by the students of f	ollowing subjects: Open for	all
Suggested Co	ontinuous Evalu	ation Methods:		
est with multi	ple choice quest	ions/ Research Orientation/s	hort and long answer questi	ons,or
hort Presentat	ion/Lecturer,Rec	ord ,Viva Voce		
Course prerequertificate/dip		this course, a student must	have had the subject	in class/12 th /

B.A./B.Sc III , Year III, Defence and Strategic Studies, Paper 05
Science and Technology in Relation to Warfare
(Theory)

Programme/Cl	ass: Degree	Year: Third	Paper: V	
Subject: Defer	nce and Strateg	ic Studies	0.7000	
Course Code: A	A120601T	Course Title: Sci	ence and Technology in Relation	to Warfare (Theory)
Course outcon	nes:	A Company of the	Could by the Country of the Country	
At the end of th	is course, stud	ents acquire knowle	dge on how significant the role	of science and technology is
to Society and industrial comp			lso provides realization in con	templating on the military-
Credits: 5	1000	1	Core Compulsory / Elective	F 100 11
Max. Marks: 25+75 Min. Passing Marks:35			Min. Passing Marks:35	100
Total No. of L	ectures-60		1 1 1	100
Units	N. A.	To	pic	No of Lectures
1/5	1.Science, Te	chnology and Nation	nal Security.	07
11	2.Impact of	Sci <mark>en</mark> ce and T <mark>ec</mark> hnol	ogy on Society and warfare.	07
m		Technol <mark>ogy:</mark> national interdepen of Multinational Co		08
IV	4.Armament	technology (in brief):	08

	a. Armoured vehicles: Tanks and APC's	
	b. Aircrafts, UAV's and Missile	
	c. Submarine and Aircraft carrier	
	PART B	
1 7	5. Electronics Warfare: Concept and applications	
V		07
VI	6.Ballistic Missile Defence (BMD): Concept and applications.	7
VII	7.Revolution in Military Affairs (RMA)	
VII	THE PERSON NAMED IN TAXABLE PARTY.	08
VIII	8.Defence R&D and Defence Production in India	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: Th<mark>e f</mark>uture wa<mark>r</mark>fare weapons: New Delhi, Ocean books,.
- 4.Baranson, Jack. (1978) Technology and the Multinationals: Lexington, Lexington Books.
- 5. Johan Erickson (Ed.) (1966) The Milit<mark>ar</mark>y Tech<mark>nic</mark>al Rev<mark>olu</mark>tion: <mark>Its</mark> Impact <mark>on</mark> strategic and Foreign Policy: New York, Frederick A Prager.
- 6.Macksey, Kenneth (1986) Tec<mark>hn</mark>ology in <mark>W</mark>ar: Th<mark>e i</mark>mpact 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.
- 12. Robert H. Latiff, (2017) Future war, Penguin Random House.
- 13.कलाम, डॉ. ए.पी.<mark>जे. अब्दुल एवं राजन वा</mark>ई.ए<mark>स., (2015), भारत 2020 और उस<mark>के बाद, प्रभात प्रकाशन</mark> नई दिल्ली 14.बाला, मनमोहन , (2000), रक्षा विज्ञान आयुध तथा टेक्नोलॉजी, प्रताभ प्रकाशन नई दिल्ली</mark>
- 15. बाला, मनमोहन, , (2005), <mark>युद्ध और सू</mark>चना प्रौद्योगिकी, विकास दीप प्राइवेट लि<mark>. नई दिल्ली</mark>
- 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 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

- Coursera
- Swayam

B.A./B.Sc III, Year III, Defence and Strategic Studies, Paper 06

Military Psychology (Theory)

Programn	ne/Class: Degree	Year: Third	Paper: VI	
Subject:	Defence and Strateg	gic Studies	77.00	
Course C	ode: A120602T	Course Title: Mi	litary Psychology (Theory)	
Course or	itcomes:		7711 1200	The same
			ble to understand and appreciate	
		emotional issues that	are faced by soldiers during war a	and peace.
Credits: 4			Core Compulsory / Elective	TEN N
	rks: 25+75		Min. Passing Marks:35	973. 3.
	of Lectures-60			The State of the S
Units		Top		No of Lectures
1/	1. Military Psychology: Definition, Scope, Significance and its role during war and peace.			g 08
II	2. Psychological Weapons of War: Propaganda, rumor and indoctrination.			07
III	3. Fear and Panic in War: Causes, Consequences and Management.			08
IV	4. Military Leadership: Meaning, attributes, importance and role of training.			07
0	PAR	PART B		
V	5. Discipline: Defin	ition, purpose and to	ols of maintaining discipline	7
VI	6. Motivation and N	Iorale factors and the	eir utilization in the armed forces.	7
VII	7.Man Management:-Concept, importance and strategy vis-à-vis armed forces.			8
VIII 8. Emotional problems and adjustment during war and peace.			8	
Suggested	Readings:			
			Cambridge, Cambridge University	Press
			courage London, Cassell.	
Roring F.	G (ed.) (1945)Psyc	chology for the Arme	ed Services Dehradun Natrai Pub	lishers

- 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. Lienbarger, P.M.A., (1954) Psychological Warfare, Washington, D.C. Combat Press.
- 8. Raj Narain, (1979) Military Psychology, Agra: National Psychological Co-operation, 1st edition.
- 9. Nidhi Maheshwar, (2016) Military Psychology: Concepts, Trends & Interventions, Sage Publication India Pvt Ltd.
- 10. गुप्त परशुराम, (2015), सैन्य मनोविज्ञान, प्रकाश बुक डिपो<mark>, ब</mark>रेली
- 11. तिवारी, निरंकार, प्रसाद (2015), सैन्य मनोविज्ञान, ए.एस.आर. पब्लिकेशन, लखनऊ
- 12. सिन्हा, हर्ष कुमार एवं सिंह, विनोद कुमार, सैन्य मनोविज्ञान, प्रत्युष पब्लिकेशन, 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/ 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/12th/certificate/diploma

- Coursera
- Swayam

B.A. /B.Sc. III ,Year III, Defence and Strategic Studies ,Paper 07 (Practical)

Programme/Class: Degree		Year: 3		Paper: VII			
Subject: Defence and Strategic Studies (Practical)							
Course Cod	Course Code: A120603P Course Title: Spotting Strategic Locations, Military Models, Presentations						
	Credits: 1 Core Compulsory / Elective						
	Max. Marks: 2			Min. Passing			
	Total No. of Lectures-Tutorials-Practical-30 (60 hours)						
Unit	126	Topic			No. of Lectures		
1/	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						
/ n/	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.						
ш	3. Making of Ma. Fighter b. Battle Sc.Rader d.Submar e. Tank f. Missile g. Helicop	Plane. Ship. ine			08		
IV	4. Presentations on current defence topic 06						
		n el <mark>ective by</mark> the stud	ents of following su	ubjects: Open fo	or all		
Suggested Continuous Evaluation Methods: Test with multiple choice questions/short and long answer questions, or Short Presentation/Lecturer, Record, Viva Voce/ Research Orientation Course prerequisites: To study this course, a student must have had the subjectin class/12 th /							
certificate/d			The mast have had the	_	- 3		