Shri Vishwanath P. G. College Kalan, Sultanpur

(Affiliated)



DR. RAM MANOHAR LOHIA AVADH UNIVERSITY, AYODHYA

Structure of Syllabus for the Program: B.A./B.Sc.



Subject: DEFENCE AND STRATEGIC STUDIES

SEMESTER-WISE TITLES OF THE PAPERSINUG DEFENCE AND STRATEGIC STUDIES COURSE SEME-COURSE THEORY/ CREDIT YEAR PAPER TITLE STER CODE PRACTICAL CERTIFICATE A120101T Conceptual Aspect of war THEORY 4 I FIRST YEAR A120102P Basics of OperationalExercises-1 PRACTICAL 2 A120201T Military History of India THEORY 4 Π PRACTICAL A120202P Basics of OperationalExercises-II 2 DIPLOMA A120301T National Security - Conceptual Aspects THEORY 4 III SECOND YEAR A120302P Basics of OperationalExercises-III PRACTICAL 2 A120401T Strategic Though THEORY 4 IV A120402P PRACTICAL 2 Basics of TEWTs/SandModel Exercises, Sketching, Discussion DEGREE **IN BACHELOR OF SCIENCE** A120501T Indian DefenceMechanism THEORY 4 National Security of India THEORY 4 A120502T V A130503P Military use of Electromagnetic Spectrum, Press PRACTICAL 2 Clipping, Tour **THIRD YEAR** A130504R Research Project-1 PROJECT 3 A130601T Science and Technology inRelation to Warfare THEORY 4 A130602T Military Psychology THEORY 4 A130603P Spotting Strategic Locations, Military PRACTICAL 2 VI Models, Presentation A130604R PROJECT 3 **Research Project-2**

Theoretical Paper

A120101T: Conceptual Aspects of war

Unit	Topics	Total No. of Lectures (60
	1. Conceptual Formulation	
	a. Meaning and definition of Defense and Strategic Studies – Its relevance and significance and relationship with other disciplines of study.	
Ι	 b. War - Definition and meaning and basic concepts – Understanding various causes of War. Basic Concepts - War, Campaign, Battle, Strategy, Tactics, Security and Defence. 	
	c. Ancient Indian War and Defence Strategies	
II	3. Principles of War	07
11	4. War as an instrument of policy : Past, Present and Future	07
	5. Modern Warfare	
	a. Concept and definition	
III	a. Concept and definition	07
	b. Features of Modern Warfare	
	6. Guerilla Warfare	
	a. Origin and concept.	
IV	b. Principles, techniques and characteristics of guerrillawarfare.	08
	c. Counter guerrilla measures.	
	7. Psychological Warfare	
V	a. Definition and concept.	8
	b. Functions and Limitations.	
	8. Economic Warefare	
	a. Concept and definition	6
3.71	b. Basic dimensionsc. Effects of war on National Economy	-
VI	9. Nuclear warfare	
VII	a. Beginning of nuclear era and effects of nuclear explosion.b. Nuclear strategies of `Deterrence' and `Massive Retaliation'.	8
	10. Chemical and Biological Warfare	
VIII	a. Definition and concept	8
	b. Agents, their effect and military use.	
Suggested	Readings:	

1. Andreski S., (1968) Military Organization and Society, Univ. California Press, Berkeley.

2. Anthony James Joes, (1996)Guerrilla Conflict before the Cold War, (Praeger Publishers,

3. Aron R., (1966) Peace and War: A Theory of International Relations, Praeger, New York.

4. Barringer R., (1972) War: Patterns of Conflict, MIT Press,

5. 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

Semester I

Prectical

A120102P: Basics of Operational Exercises-l

Unit	Topics	Total No. of Lectures (60)
Ι	 Maps: Definition and Features; Classification and its utility forMilitary; Enlargement and reduction of Maps. Connventional Signs: Military and Geographical 	06
II	3.GRID System: Four Figure and Six figure Map References.	08
ш	4.North:Types of North and finding out True North; The Pole StarMethod; The equal altitude method; Watch method & Compass method.	06
IV	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
Research Ori	Continuous Evaluation Methods: entation ultiple choice questions/short and long answer questions,or Record ,Viv	a

Semester II

Theoretical Paper

A120201T: Military History of India

Unit	Topics	Total No. of Lectures (60)
Ι	 Military System in Vedic and Epic Age. Macedonian and Indian art of war with particular reference to thebattle 	08
	of Hydaspes (326 B.C.)	
II	3. Kautilya's Philosophy of War : State Craft, Military Organisation, Weapon, Intelligence System and the Art of War	07
III	4. Turk and Rajput Military System with particular reference to theBattle of Tarrian(1192 AD)	07
	5. Millitary Organisation and Pattern of Warfare during theSultanate period with particular reference to Ala-uddin Khilji	
	6. The Mughal Military System with particular reference to the First Battle of Panipat (1526 AD)	
IV	8. The Rajput Military Organisation, Weapon system and art of fighting with particular reference to the battle of Kanwah (1527 AD)	08
V	9. The Maratha Military System with special reference to the thirdbattle of Panipat (1761 AD)	8
VI	10. Sikh Military System with special reference to the battle of	6
	Sobraon (10 Feb. 1846AD)	
	11. Military System of East India Company, Evolution of Indian Armed	
VII	forces from 1858 to 1947 A.D. ,Growth of Indian Navy and Air Force	8
	12. India's Wars post independence (In Brief)	8
	a. The First India-Pakistan War (1947- 1948)	
VIII	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	
ggested]	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.

Semester II

Practical

A120202P: Basics of Operational Exercises-ll

Unit	Topics	Total No. of Lectures (60)
Ι	1.Bearing: Definition, Inter conversion of Bearing in detail.	06
II	2. Liquid Prismatic Compass (LPC): Features and functions of its various parts: Attempt following exercise on the LPC: To determine magnetic north; Setting of the Map.	08
III	3.To find out the bearing of a point from other point situated on the ground.	06
IV	4.To determine one's and enemy's position on the map by resection and intersection methods with the help of compass.	10
Test with	Continuous Evaluation Methods: multiple choice questions/ Research Orientation/ short and long answ orRecord, Viva Voce	ver

Semester III

Theoretical Paper

A120301T: National Security-Conceptual Aspects

Unit	Topics	Total No. of Lectures (60)
	1. Introduction	
	(a) Concepts of Nation, State and Nation – State,	
Ι	Security and Defence	08
	(b)Origin, Concept, and objectives of National Security.	
	2. National Security Analysis Concept, Components and formulation of	
II	Security and Defence Policies and their linkages	07
	3. National and International Security related Concepts	
	a. National Power and its elements, National Interest, Foreign	
	Policy and Diplomacy.	
III	b. Balance of Power, Collective Security and Collective Defence,NonAlignment, Deterrence, Disarmament and arms control	07
	4. Challenges and Threats to National Security	
IV	a. Military Threats/Challenges :Internal and External b.Non-	08
1 V	Military Threats/Challenges:Internal and External	08
N7	5. Concept of Defence: Threat Perception, Defence Planning and	
V	Reforms, Military ,Nuclear and Missile Capabilities of India, China and Pakistan	8
VI	6. Proliferation of weapons of Mass Destruction(WMD)andNPT, CTBT, MTCR, NMD and FMCT	6
VII	7. Armaments: Arms Race, Arms Aid, Arms Trade and SmallArms	
	Proliferation	8
	9. Measures to address the challenges of National Security :a.One-	
VIII	sided initiative, and b. Collaborative approach	8
	10. Relevence of Science & Technology in National Security	
Suggested R 1.Booth, K., (eadings: 2007) Theory of World Security: Cambridge University Press, Cambridge,	
2.Buzan, Bari	ry., (1987)People Fear and State: New Delhi, Trans Asia Publications.	
3.Das, S.T., (1987) National Security in Perspective: Delhi, Gian Publishing	
House.4.Fran	kel, Joseph., (1970) National Interest: London, Macmillan.	
5.Military Ba	lance., Latest Edition (IISS)	
6.Morgenthau	ı, Hans J.,(1969) Politics Among Nations, Calcutta, Scientific Book Agenc	у.
7.Palmer, No	rman D. and Perkins, Howard C., (1968) International Relations: Calcutta,	Scientific Book
Agency		
8.Chowdhury	, Subrata Roy., (1966) Military Alliances and Neutrality in War and Pea	ace: New
Delhi,Orient		

Semester III

Practical

A120302P: Basic of Operational Exercise- III

Unit	Topics	Total No. of Lectures (60)
I	1.Relief Features and their representation on the map.	06
II	2. Types of slopes and their representation on the map	08
III	3.Gradient – Determination of gradients.	06
IV	4.Inter visibility – Determination of inter visibility in case of rise orfall of slope.	10
Suggested	Continuous Evaluation Methods:	
Test with	n multiple choice questions/ Research Orientation/short and long answer q VivaVoce	uestions, or

Semester IV

Theoretical Paper

A120401T: Strategic Thought

Unit	Topics	Total No. of Lectures (60)
Ι	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
V	5 .J.F.C. Fuller and Liddell Hart: Their views on Mechanizedwarfare	08
VI	6. Mahan's Views on Sea Power and Naval Warfare.	
		8
VII	7. Douhet and Mitchell: Their views on the Role of Air Power in	5
	Modern Warfare.	
	8. Y.Harkabi, John Foster Dulles and Andre Beaufre - Theories of	10
	Nuclear War and Deterrence.	
VIII		
	9. Thoughts of Mahatama Gandi and Nehru on Peace, Security and	
	Development.	
66	ed Readings:	
.Dass, S.T	., (1987) An Introduction to the art of war 2.Earl, E.M., (1943) Makers of M	Iodern Strategy
Princeton.		
Fuller IF	F.C., (1998) Armament and History, Da Capo Press.4.Fuller, J.F.C., (1992)	The Conduct of
.1 uner, 5.1	(1)	The Conduct of
var, Da Caj	po Press.	
.Shama Sh	astri., (2012) Kautilya's Arthshastra, Low price Publications.6.Tzu, Sun., (2	2015) The Art o
Var, Grape	vine, India.	
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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.

Semester IV

Prectical

A120402P: Basics of TEWTs/Sand Model Exercises, Sketching, Discussion

Unit	Topics	Total No. of Lectures (60)
Ι	1.Elementary knowledge of-	
	a.Rank structure of the three services	08
	b.Study and description of ground	
	c.Judging distance	
	d.Section formation	
	e.Patrolling	
	Or	
	1.Sand Model Exercises	
	Battle of Panipat, 1526	
	A.D.Battle of Assaye,	
	1803 A.D.	
II	2. Sketching of the Charts of Indian Battles	05
11	a.Battle of Thagla Ridge, 1962.	05
	b.Kargil Conflict, 1999	
III	3. Sketching of the Charts of Western Battles	
111	aBattle of Trafalgar, 1805.	05
	b.Battle of Somme, 1919.	
IV	4. Lecture and group discussion on current defence topics.	12

Suggested Continuous Evaluation Methods:

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

Theoretical Paper -I

A120501T: Indian Defence Machanism

Unit	Topics	Total No. of Lectures (60)
	1. Introduction and Differences between Army, Military and Defence	
	Forces	
Ι	2. Second line Defence [introduction to Paramilitary Forces inbrief)	08
	2. The Indian Defence Forces	
	a. Rank Structure of the Three Services.	07
II	b. Recruitment methods for Defence Services.	
	c .Important training Institution of the Three Services.	
	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.	08
III	c .Composition and function of Defence Committees/NSC.d .Chief	
	of Staff and joint service Organization.	
	4.Army Organization	
	a.Organization of army Headquarters (Role of COAS and PSOs).	07
IV	b.Static and Field formation of Indian Army.	07
	c. Arms and Services.	
	5. Air Force Organization	
		7
	a. Organization of Air Force Headquarters (Role of CAS and PSOs).	
V	1508).	
	b. Static and Field formation of Indian Air Force.	
	6.Navy Organization	7
VI	a. Organization of Naval Headquarters (Role of CNS & PSOs).	
V I	b. Static and Field formation of Indian Navy.	
	7.Cooperation Between Armed Forces and Civil Authoritiesa	
	.Maintenance of Law and Order	8
VII	b.Flood Relief Operations	
	c .Rescue and Relief Operation	
	8. Indian's Defence Cooperation with Foreign Countries	8
VIII	a. Defence Diplomacy.	

	b. Cooperation on Capacity Building and Training		
	c. Defence Partnerships with Major Powers		
Suggested	Readings:		
1.Venkateswara	1.Venkateswaran, A.L., (1967) Defence Organisation in India, New Delhi: Government of India.		
2.Government of	2.Government of India, (1924) The Army of India and its Evolution, Calcutta.		
3.Ministry of D	efence, Government of India, Indian Armed Forces Year Book, (Annual).		
4.Palit, D.K., (1	989) Essentials of Military Knowledge, New Delhi		
5.Singh, Nagen	dra., (1967) Defence Mechanism of Modern State, New Delhi.		

A120502T: National Security of India

Unit	Topics	Total No. of Lectures (60
	1.India's Geo-Strategic Location and significance.	
Ι	a.India's Borders- Nature and characteristics of land borders.	08
	b. Indian ocean territory and its strategic significance	
	2.Indian Concept of National Security	
	a.Meaning and Definition	
II	b.Threat Perceptions	07
	c.Types of threats to India	
	3.India's Security Problems since independence.	
TTT	a.Geo-political effects of partition.	
III		08
	 b.Effects on Armed Forces 4. Determinants of Indian Foreign Policy - Basic Determinants:Objectives of 	
IV	Indian foreign policy; global and regional perspective.	07
	4. 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	07
	war.	07
V	a Regional Security challenges	
	c. Regional Security challenges.	
	d.India's Maritime Security Challenges	
	5. Internal dimension of India's security	
	a.Terrorism in Jammu & Kashmir	
VI	b.Insurgency in North eastern states	07
	c. Naxalism	
	6. Defence Organization in India: - Structure, Objectives, Role, and	
VII	Problems.	08
	7.National Security Council: Structure and Role	
VIII	8. National Security Management and Future Challenges	08

1.Bajpai, U.S., (1986) India and its Neighbourhood: New Delhi, Lancer International. 2.Baranwal, S.P., (1984) Measures of Civil Defence in India: New Delhi, Guide Publications.

3.Bobbing, Ross and Gordon, Sandy, (1992) India's Strategic Future: Delhi, Oxford University Press.
4.Chatterjee, R.K. (1978) India's Land Borders- Problems and Challenges: New Delhi, SterlingPublishers.

Practical -I

A120503P: Military use of Electromagnetic Spectrum, Press Clipping, Tour

Unit	Topics	Total No. of Lectures (60)
I	1.Thermal Imaging and Sensors. 2.Radars and its significance.	10
II	3.Introduction to Electronic Warfare in terms of Lasers, ECM, ECCM	08
III	4.Press Clippings on allotted current topics with a brief assignment	06
IV	6.Educational Tour and its report.	06
uggested	Continuous Evaluation Methods:	
	nultiple choice questions/ Research Orientation/short and long answer on/Lecturer,Record,Viva Voce	questions,orShort

Practical -II

A130504R: Research project-l

Unit	Topics	Total No. of Lectures (60)
Ι	The Candidate has to select and give inputs in any one of the following.	10
	It many include	
	1.Indo-NepalBorderSecurityandManagement	
	2.Study and assessment of potential cyber threats in your area.	
Π	Involving application of knowledge in solving/analyzing/exploring real life situation/difficult issues related to Defence and StrategicStudies	11
III	Develop a tool for conducting a survey of the selected area and collect data from the area/ seek permission to conduct short training in the area.	12
IV	A detailed Report to be prepared and submitted.	12

Suggested Continuous Evaluation Methods:

Prepare Survey or tool on any one of the above areas Research Orientation-Collection of data related to the area.

A letter certifying the authenticity of work done from the mentorReport of the identified problems and survey conducted.

Theoretical Paper-I

A130601T: Science and Technology in Relation to Warfare

gy and National Security. and Technology on Society and warfare. blogy: dependence b. Role of Multinational Corporations. ogy (in brief): Tanks and APC`s	07 07 08
and Technology on Society and warfare. blogy: dependence b. Role of Multinational Corporations. ogy (in brief):	07
blogy: dependence b. Role of Multinational Corporations. ogy (in brief):	
blogy: dependence b. Role of Multinational Corporations. ogy (in brief):	
dependence b. Role of Multinational Corporations. ogy (in brief):	08
ogy (in brief):	08
Tanks and APC`s	
l Missile	08
aft carrier	
re: Concept and applications	
	07
efence (BMD): Concept and applications.	07
tary Affairs (RMA)	
• • • •	08
Defence Production in India	08
	1
	Defence Production in India ctronics Warfare, Ratna , New Delhi.

3.Anand. A. (2003) Information Technology: The future warfare weapons: New Delhi, Ocean

books,.4.Baranson, Jack. (1978) Technology and the Multinationals: Lexington, Lexington Books.

5. Johan Erickson (Ed.) (1966) The Military Technical Revolution: Its Impact on strategic and ForeignPolicy: New York, Frederick A Prager.

A130602T: Military Psychology

	Topics	Total No. of Lectures (60)
Ι	1. Military Psychology: Definition, Scope, Significance and its role during war and peace.	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
V	5. Discipline: Definition, purpose and tools of maintaining discipline	7
VI	6. Motivation and Morale factors and their 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.

1.Bartlett, F.C., (1927) Psychology and the Soldier, Cambridge, Cambridge University Press.

2.Baynes, John., (1967) Morale,: A study of Men and courage London, Cassell.

3.Boring, E.G., (ed.), (1945)Psychology for the Armed Services, Dehradun, Natraj Publishers.

4. Chibber, M.L. (1986) Military Leadership to Prevent Military Coup, New Delhi, Lancer

International5.Copeland, Norman., (1967) Psychology and the soldier, Dehradun,

English Book Depot..

6. Hasnain Qamar., (1967) Psychology for the fighting man, Dehradun, English Book Depot, PublishingCompany.

Practical-I

<u>Defence and Strategic Studies</u> <u>A130603P: Course Title: Spotting Strategic Locations, Military Models, Presentations</u>

Unit	Topics	Total No. of Lectures (60)
	1. Strategic Maps of India: India and her neighbours; Indian Statesand Union Territories with Capitals; Strategic Raw Materials and Defence Industries and Atomic Reactors.	08
I	2. World: World Map in 1945, Countries of NATO, Non-AlignedCountries, Countries of South Asia, South East Asia, Far East andWest Asia; Nuclear Nations, Indian Ocean Littoral States and World Sea Routes.	08
	3. Making of Models -	
	a. Fighter Plane.	
	b. Battle Ship.c.Rader	08
II	d.Submarine e.Tank	
	f.Missile	
	g. Helicopter	
X7	4. Presentations on current defence topic	
V		06

Practical -II

A13604R: Research Project-II

Unit	Topics	Total No. of Lectures (60)
I	The Candidate has to select and give inputs in any one of the following.	10
	It may include	
	1Any Natural/Man Made disaster of your area and its management.	
	2.potential threats to the city security and its management	
II	An intervention plan would be developed based on problem identified in the area/a field visit is mandatory to develop an understanding of the whole process.	12
III	The planned intervention to be carried in the selected area Based on the intervention, the pre-	11
	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.	
	A detailed Report is to be submitted and evaluated.	12
VI		
00	I Continuous Evaluation Methods: Prepared intervention plan on any one ection of data related to the area-Research Orientation	of the above
	etter certifying the authenticity of work done from the mentor Report of the n and impact/experience of intervention.	implemented