

PROF. RAJENDRA SINGH (RAJJU BHAIYA) UNIVERSITY, PRAYAGRAJ

M.A./M.Sc. Defence and Strategic Studies

Examination & Syllabus Scheme

(Credit and Grading System)

Annexure-2

COURSE CODE	COURSE TITLE	CREDITS	T/P	EVALUATION (MM=100)			
				Internal		External	
				CIE	Practical	ETE	
Semester-I							
DEF-501	CORE	INDIAN ART OF WARFARE upto 1857	5	T	25	-	75
DEF-502	CORE	INTERNATIONAL STRATEGIC RELATIONS	5	T	25	-	75
DEF-503	CORE	POLITICS & SECURITY OF INDIAN OCEAN	5	T	25	-	75
DEF-504	CORE	THEORIES OF MODERN GUERILLA WARFARE	5	T	25	-	75
DEF-531	CORE	FIELD WORK/MINOR PROJECT/PRACTICAL	4	P	-	100	-
Semester-II							
DEF-505	CORE	STRATEGIC THOUGHT	5	T	25	-	75
DEF-506	CORE	INDIA'S DEFENSE POLICY & ORGANIZATION	5	T	25	-	75
DEF-507	CORE	INTERNATIONAL LAW	5	T	25	-	75
DEF-508	CORE	CONCEPT OF WAR & PEACE	5	T	25	-	75
DEF-532	CORE	FIELD WORK/MINOR PROJECT/PRACTICAL	4	P	-	100	-
Semester-III							
DEF-601	CORE	NATIONAL SECURITY	5	T	25	-	75
DEF-602	CORE	SCIENCE & TECHNOLOGY AND NATIONAL SECURITY	5	T	25	-	75
DEF-603	CORE	DISARMAMENT & ARMS CONTROL	5	T	25	-	75
DEF-604	CORE	GEO-POLITICS AND MILITARY GEOGRAPHY	5	T	25	-	75
DEF-631	CORE	FIELD WORK/MINOR PROJECT/PRACTICAL	4	P	-	100	-
Semester-IV							
DEF-605	CORE	PEACE & CONFLICT STUDIES	5	T	25	-	75
DEF-606	CORE	DEFENCE ECONOMICS	5	T	25	-	75
DEF-607	CORE	SOUTH ASIA: CONFLICT AND CO-OPERATION	5	T	25	-	75
DEF-608	CORE	WAR AND PEACE IN THE MODERN WORLD	5	T	25	-	75
DEF-632	CORE	FIELD WORK/MINOR PROJECT/PRACTICAL	4	P	-	100	-

There is:

CIE: Continuous Internal Evaluation.

Practical: 100% Internal

ETE: End Term Examination (University Examination).

ALLAHABAD STATE UNIVERSITY

M.A. /M.Sc. in Defence and Strategic Studies

(Semester System)

SYLLABUS

(To be implemented from the Academic Year 2017-2018)

List of Courses (M.A. / M.Sc. in Defence and Strategic Studies)

Semester-I

DEF - 101 INDIAN ART OF WARFARE UPTO 1857

Objective:

This course intends to enhance the knowledge and skills of the students with the historical aspects of Indian Art of Warfare.

Unit I:

1. Development of Military System as out lined in the Vedic and Epic literature.
2. Indian Philosophy of War- Manu-Kautilya (Military Organization, weapon, Patterns, of Warfare.

Unit II:

3. Mauryan Military System as described by Megasthenese.
4. Age of Guptas and Harshvardhan- Changes in Hindu Military System.

Unit III

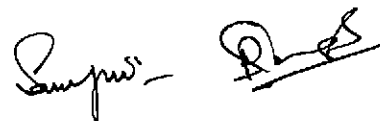
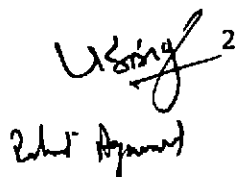
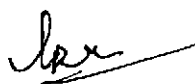
5. Arab and Turkish Invasion of India: New Trends of Warfare.
6. Rajput Military System-Art of Warfare with special reference to the battle of Terrain.
7. Sultanate Period- Pattern of warfare with special reference to the economic reforms of Alaudin Khilji.

Unit IV

8. Mughal Military System- New Trends –causes of Failure.
9. Maratha Military System- Land and Sea Warfare –Impact of Western influence during 18th century.
10. Sikh Military System- Pattern of Warfare of Khalsa Army

Unit V

11. Anglo-Sikh Warfare with special reference to the battle of Sobraon.
12. Presidency Armies- Development with special reference to the battle of Assaye, 1803 A.D.
13. Indian war of Independence 1857 A.D.



BOOKS RECOMMENDED:

- 1- Singh, S.D. Ancient Indian Warfare with special reference to the Vedic Period
- 2- Basham, A.L. The Wonder that was India.
- 3 Dikshitar, R.C. War in Ancient India
- 4- Fuller, J.F.C. The Generalship of Alexander the Great.
- 5- Majumdar, R.C. Classical Account of India
- 6- Bhartiya Vidya Bhawan Publication The Age of Imperial Unit.
- 7- Sastri, K.A. Nilakantha Age of the Nandas and Mauryas
- 8- Ghoshal, U.N. A History of Indian Public Life
- 9- Sastri, K.A. Nilakantha A Comprehensive History of India Vol.II
- 10- Majumdar, R.C. The Classical Age.
- 11- Kangle, R.P. The Kautilya Arthashastra
- 12- Tod, James Annals and Antiquities of Rajasthan Vol. II
- 13- Habib, M. and Nizami, K.A. Comprehensive History of India.
- 14- Kar, H.C. Military History of India.
- 15- Robert, P.E. History of British India
- 16- Smith, V.A. Oxford History of India
- 17- Fraser, L. India under Curzon and After.
- 18- Prasad, B. Freedom and Bondage
- 19- Prasad, B. The Indian Armed Forces in World War II.
- 20- Dodwell, H.H. Cambridge History of India, Vol.VI
- 21- Longer, V. From Red Coat to Olive Green
- 22- Gopal, S. British Policy in India

And other books and journals as recommended by the teacher

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Semester-I

DEF - 102 INTERNATIONAL STRATEGIC RELATIONS

Objective:

The objective of the course is to develop a basic understanding of the theoretical and practice related perspectives of the conduct of International Relations which is very relevant for nation states and would lead towards a holistic appreciation of National Security studies and allied aspects.

Unit I

1. Introduction to the understanding of International Relations
2. Theories and Approaches:
 - a) The Classical (Traditional) Approaches- Utopian Liberalism (Idealism) and Realism
 - b) The Scientific Revolution- Behavioral approach, Systems Approach,
 - c) Decision Making Theory, Game Theory & Communication Theory
 - d) Post Scientific Revolution: Neo Liberalism and Neo Realism

Unit II

3. The role of ideology in international relations with special reference to Its role in Foreign Policy: Images & Beliefs.
4. Foundations and Limitations of National Power.
5. Concept of National Interest and its role in the formulation of foreign policy
6. Impact of Nuclear Developments on International Relations

Unit III

6. The theories of Balance of Power and Collective Security.
7. Non-alignment: concept and importance in modern times.
8. Diplomacy: Traditional concepts and contemporary trends.
9. Détente: Nature and US and Soviet perceptions

Unit IV

10. Concept of Nation State and Nation State - Elements of State
11. The birth of nations, Decolonization and the Neo-colonialism.
12. End of Cold War and New Cold War.
13. Developments in the Third World: Regionalism

Unit-V

14. India and ASEAN; India as an Asia Pacific Power
15. India's Relation with USA, Russia, China, Pakistan, Israel, European Union and Central Asia
16. India's Foreign Policy: Its Foundations and Practice.

BOOKS RECOMMENDED:

- | | | |
|----|-----------------|----------------------------|
| 1- | Aron, R. | War and Peace |
| 2- | Wright, Q. | A Study of War |
| 3 | Frankel, J. | International Relations |
| 4- | Knorr and Verba | The International Politics |

P. A. J. Arjun

Devi

U. Singh

Singh

R. S.

- 5- Sprout and Sprout International Politics
- 6- Gibbs, G. Problem of International Relations
- 7- Northeges Foreign Policy and Powers
- 8- Frankel, J. Making of the Foreign Policy
- 9- Goldwin, R. Readings in World Politics
- 10- Gupta, M.G. International Relations, Vol. I and II
- 11- Morgenthau, H.J. Politics among the Nations
- 12- Thompson, D. Foreign Policy of the World
- 13- Black, C. Neutralization
- 14- Kar, E.H. Between Two World Wars
- 15- Bernard, L. War and Its Cause
- 16- Deutsch, Karl, W. The Analysis of International Relations
- 17- Palmer, N.D. & Perkins, H.C. International Relations
- 18- Kumar, M. Theoretical Aspects of International Politics
- 19- Calvocoressi, P. World Politics since 1945
- 20- Columbus, T.A. International Relations: Power and Justice
and Wolfe, J.H.

And other books and journals as recommended by the teacher

Patel *Sharma* *Uroigal* *Sanyal* *Rao*

Semester-I

DEF- 103 Politics and Security of the Indian Ocean

Objective:

This course intends to teach about the security concerns emanating from Indian Ocean region; Traditional and Non-Traditional issues would be covered. The current strategic scenario and modern means to protect India's maritime interest would also be covered.

Unit I

1. Indian Ocean region as a concept and reality
2. Coastal states, hinterland states and islands:
 - (i) The Political characteristics of the region
 - (ii) Demographic survey
 - (iii) The sub regions
 - (iv) Naval bases in the Indian Ocean Area during the Cold War and after
 - (v) Major Sea routes in the region
 - (vi)

Unit II

3. Political, strategic, Economic and Military importance of Indian Ocean
 - (i) Ideologies in Indian Ocean
 - (ii) Economic and strategic interdependence of the region
 - (iii) Super power vs Middle Powers and militarization of the region
 - (iv) Strategic Importance of the region: Militarily and Economically
4. Sub-regional Perspectives:
 - (i) Persian Gulf
 - (ii) Red Sea & Horn of Africa
 - (iii) Eastern and Southern Africa
 - (iv) South Asia
 - (v) Australia and eastern Approaches

Unit III

5. Interests of External Powers: USA, Russia, China, Japan, Western Europe.
6. Future trends and prospects of security in the region.
7. Indian Ocean as a Zone of Peace

Unit IV

8. Development of New marine technologies
9. Maritime Strategy of India
10. Prospects of Cooperation in the Indian Ocean Region

Unit V

11. Concept of RIM and Indian Ocean
12. Impact of the Globalization on the region
13. New developments in the Indian Ocean region

BOOKS RECOMMENDED:

1. "Freedom to use the Seas: India's maritime Military Strategy", Integrated HQ, Ministry of Defence, (Navy), New Delhi, 2007
2. Jasjit Singh, "Maritime Security", Institute for Defence Studies and Analyses, New Delhi, 1993
3. Kunwar Rajendra Singh, "Maritime security for India: New Challenges and Responses", New Century Publications, 2008
4. Michael Mc Nicholas, "Maritime Security: An Introduction", Butterworth-Heinemann Publications, USA, 2008.
5. Prabhakaran Paleri, "Role of the Coast Guard in the Maritime Security of India" (Second Edition), Knowledge World Publishers Pvt. Ltd, New Delhi, 2007

And other books and journals as recommended by the teacher

Prabhakar Paleri

U. Singh

Sanjay

R. S.

Semester-I

DEF - 104 THEORIES OF MODERN GUERRILLA WARFARE

Objective:

This course intends to enhance the knowledge and skills of the students with the theoretical aspects of Guerilla Warfare.

Unit I

1. Ancient and Modern Concepts of Guerilla Warfare.
2. Operational definition of Guerilla Warfare. Principles of Guerilla and Counter-Guerilla Warfare

Unit II

3. Concept of Urban Guerillas Application of theories and practice of Guerilla and Counter Guerilla Warfare with reference to Che-Guevara.
4. (a) Practice of Mao's theory of Peoples War in China.
(b) Influence of Sun Tzu on Mao.
(c) The Long March as an extended Guerilla Warfare.
(d) The Red Army of China and Guerilla Warfare during the time of Mao.
(e) An evaluation of Mao as a Guerilla leader

Unit III

5. (a) Causes of the French defeat in the War of Indo-China with special reference to the battle of Dien Bien Phu.
(b) Lessons learnt from the Guerilla and Counter-Warfare in Indo-China.
(c) U.S. involvement in the war of Vietnam and an analysis of their Counter-Guerilla operations.
(d) Role of General V. Nguyen Glap in the victory of Vietnamese struggle against French and American Forces.
(e) Application of Ho Chi Minh and Mao Tse Tung's strategy and tactics in the Indo - China Conflict and the Vietnam War.
6. (a) Causes of emergency in Malaya with reference to the rise of M.C.P.
(b) Insurgency and counter Insurgency in Malaya during 1948-60.
(c) It's lessons and post emergency developments. Resurgence of Armed Communism in West and East Malaysia.
(d) Counter-Insurgency operations with reference to joint Indonesian- Malaysian and Malaysian operations.

Richard Raymond

Sam

U. King
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R. S.

Unit IV

7. (a) Rise of Communism in Indonesia.
(b) Causes of the communist Guerilla Warfare. ,
(c) An evaluation of Gen. A.H. Nasution's role in Counter-Guerilla operations and application of his theory.
8. Insurgency and Terrorism in South Asia

Unit V

9. An Evaluation of the existence, importance and future of Guerilla Warfare in the Nuclear Age.
10. Terrorism and Human Right Issues.

BOOKS RECOMMENDED:

- 1- Palit, D.K. Essentials of Guerilla warfare
- 2- Tzu, Sun The Art of War
- 3 Fall, Bernard Street without Joy
- 4- James, Danial Che Guevara
- 5- Debrey, Regis Che Guevara
- 6- Earle, E.M. Makers of Modern Strategy
- 7- Wolf, Eric R. Peasant Wars of the 20th Century.
- 8- Shub, David Lenin
- 9- Liddel Hart Deterrence
- 10- Mark Franklin Modern Guerilla Warfare
- 11- Mao Tse-Tung Guerilla Warfare
- 12- Buchan, A War in Modern Strategy
- 13- Solvolosky Soviet Military Strategy
- 14- Khan, H. On Escalation
- 15- George M. Khan Nationalism and Revolution in Indonesia
- 16- Cady, J.F. History of Burma
- 17- Osanka, F.M. Modern Guerilla Warfare
- 18- Asprey, Robert War in the Shadows
- 19- Nasution, A.H. Fundamentals of Guerilla Warfare
- 20- Clutterbuck, Richard Guerillas and Terrorist.
- 21- Lacquer, Walter Guerilla
- 22- Thomson, Robert Defeating Communist Insurgency
- 23- Mohanty, Manoranjan Political Philosophy of Mao-Tse-Tung

And other books and journals as recommended by the teacher

Robert Asprey *Alan* *U.S. Army* *Clutterbuck* *R. Thomson*

Semester-II

DEF - 201 STRATEGIC THOUGHT

Objective:

The growing significance of the economic and political consideration for waging war and the profound influence of this on the art of war attracted the attention of more and more men of intellectual bent. Their writings on the subject of war hold a special position in the realm of strategic thought. All aspects of military affairs had been subjected to analysis in the revival of interest in the theory of war and its implication in contemporary world. The paper will examine the political and military thought from ancient to the nuclear age.

Unit I

- 1- Manu : On War, Elements of the Army, Military March, Tactics, Inter-State Relations and Diplomacy
- 2- Kautilya : On War, Types of War, Saptang Theory, Composition of the Army, Inter-State Relations and Diplomacy
- 3- Sukracharya : Art of War, Army, battle Order, Fortresses, Diplomacy and Inter-State Relations

Unit II

- 4- N. Machiavelli : On War, War and Policy, Military Organization
- 5- K. Clausewitz : On War, War and Policy, Strategy and Tactics
- 6- A. Jomini : Mass Army Strategy, Line of Operation, Logistics

Unit III

- 7- F. Engels and K. Marx : War and Insurrection
- 8- V.I. Lenin : War, War and Policy, Concept of Peace.
- 9- L. Trotsky : Theory of Permanent Revolution, Global Revolution, Military Policy
- 10- J. Stalin : The Theory of Socialism in One Country United Front Strategy, Soviet Strategy in World War II.

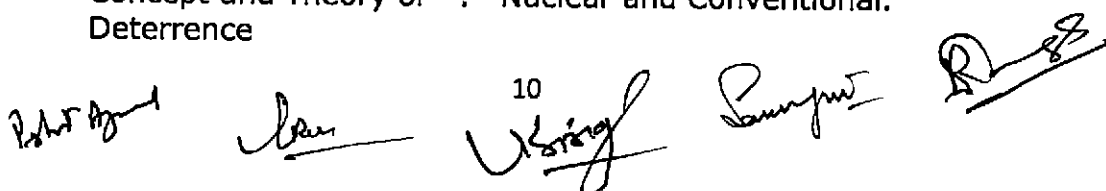
Unit IV

- 11- J.F.C. Fuller : Armoured Warfare
- 12- L. Hart : Armoured Warfare
- 13- G. Douhet, W. Mitchell and A. Seversky : The Theory of Airpower
- 14- H. Mackinder : Heartland Theory

Unit V

- 15- Mao-Tse-Tung : Guerrilla Warfare
- 16- M. Gandhi : Techniques of Conflict Resolution
- 17- Concept and Theory of Deterrence : Nuclear and Conventional.

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BOOKS RECOMMENDED:

Aspray, R.P.
Beaufre, A.

War in the Shadow: The Guerrilla in History
An Introduction to Strategy with particular
reference to Problem of Defence, Politics,
Economics and Diplomacy in Nuclear Age
Strategy of Action
Liddel Hart : A Study of his Military Thought
A Guide to Naval Strategy
Strategy in Missile Age
Revolutionary Violence
On War
Communist Guerrilla Warfare
Makers of Modern Strategy
Makers of Modern Strategy
Modern Strategic Thought

Beaufre, A.
Brien, Bond
Brodie, B.
Brodie, B.
Burton, A.
Clausewitz, K.
Dixon, C.A. and Heilburn, D.
Earle, E.M.
Peter Parett
S.Adhikari

And other books and journals as recommended by the teacher

Prabir Agnew

Deen

U. Singh

Ramprasad

P. S.

Semester-II

DEF-202 INDIA'S DEFENCE POLICY & ORGANIZATION

Objective:

This course intends to enhance the knowledge and skills of the students with India's defence policy and organisation.

Unit I

1. India's Defence Policy during British Period.
2. Partition of Indian Armed Forces
3. Reconstruction of Indian Armed forces after 1947.
4. Defence Policy of India: 1947-1971.
5. Defence Policy of India: 1971 onwards

Unit II

6. India-China boundary disputes and India-China Relations
7. India-Pakistan Relations in the light of disputes exist between them.
8. Higher Defence Organization in India.
 - a) Powers of the President in relation to the Armed forces.
 - b) Parliament and Armed forces.
 - c) Defence committee of the cabinet.
 - d) Ministry of Defence.
 - e) National Security Council

Unit III

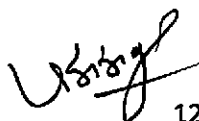
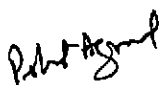
9. Second line of Defence / Para Military Forces
10. India' Nuclear and Missile programme
11. Structure of Indian Armed Forces: Army, Navy, Air force.
12. Modernization of Indian Armed Forces and overall defence preparedness

Unit IV

13. Civil-Military Relations
- 14 Research & Development and Defence Production
15. India's Overall Security Perspectives and Defence Preparedness.

Unit V

- 16 Internal Threats to India's Security: Socio, economic, political, science & Technological, Military and allied aspects



- 17. Security problems in the North Eastern region of India
- 18. Counter Terrorist Strategy of India

Suggested Readings:

- | | | |
|----|-------------------|--|
| 1- | Rao, P.V.R. | India Defence Policy and Organization since Independence |
| 2- | Rao, P.V.R. | Defence without Drift |
| 3- | Saigal, J.R. | Un-fought War of 1962 |
| 4- | Shah, A. | India's Defence and Foreign Policy |
| 5- | Singh, S | Defence of the Western Border |
| 7- | Singh, R. | Aspect of Indian Defence |
| 8- | Subrahmanyam, K. | India's Security Perspectives |
| 9- | Venkateswar, A.L. | Defence Organization in India |

And other books and journals as recommended by the teacher

P.V.R. Rao

J.R. Saigal

S. Singh

R. Singh

Objective:

This course intends to enhance the knowledge and skills of the students/scholars with the legal aspects of International Security.

Unit I

1. International Law: Definition and Nature, Sources, subject
2. Concept of State and its types, Recognition of State, Nationality.
3. Extradition and Asylum.

Unit II

4. International Institutions with particular reference to the League of Nations and the United Nations Organization.
5. Collective Security under United Nations
6. Settlement of Disputes: Peaceful and Coercive methods

Unit III

7. Restructuring of United Nations
8. War in General, Characteristics of war. The Belligerents, The Armed Forces of the Belligerents, Enemy Character. Effect of Out Break of war
9. Laws of Land, Sea and Air Warfare

Unit IV

10. Nuclear Biological & Chemical Warfare.
11. Legal Control of International Conflict. Attempts to Prohibit War (From Pact of Paris to the Charter of United Nations.)
12. Relation between Belligerents and Neutrals. Rights and Duties of Neutrals, War like preparation and operations; Violation of Neutrality

Unit V

13. Blockade: Conception, Establishment, breach and penalties for breach, The long distance blockade.
14. Contraband: Conception, Absolute and Conditional contraband. Direct, circuitous and Indirect carriage of contraband penalties.
15. Modern developments and the Law of Neutrality.

Selected Readings:

1. Oppenheim International Law Vol. I & II
2. Julius Stone Legal Controls of International Conflict

P. M. Agast

Almeida

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U. Singh

Singh

Singh

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|---------------------|--|
| 3. Castren | Modern International Law of War |
| 4. Wright, Q. | Study of War, 2 Vols. |
| 5. Starke, J.G. | International Law |
| 6. Dhokalia, R.P. | International Law |
| 7. Fenwick. | International Law |
| 8. Ian Brownlie. | Principles of Public International Law |
| 9. Max Sorensen. | Manual of Public International Law |
| 10. Kotzsch. | The Concept of War in Contemporary-history
and International Law. |
| 11. Brierly. | The Law of Nations |
| 12. Oscar Svarlien. | An Introduction to the Law of Nations |

And other books and journals as recommended by the teacher

Wm. A. G. ...

Law

W. King

Simpson

R. P.

Semester-II

DEF – 204 Concept of War & Peace

Objective: War & Peace has been the History of mankind. They come one after the other and condition of human progress and development. This paper attempts to introduce fundamentals of these two concepts.

Unit I

1. Introduction (a) Nomenclature, Understanding of Military Science. Military Studies, War Studies, Peace Studies, Conflict Studies Defence Studies and Strategic Studies (b) Relevance & Significance.

Unit II

2. (a) Basic Concepts of War, Strategy, Grand Strategy, Tactics, Campaign, Battels, Operation Defence & Security (b) Categorization of War: Civil War. Limited War, Chemical and Biological War, Nuclear War, Guerilla War, Insurgency and Low Intensity Conflicts.

Unit III

3. Causes and Principles of War: Practice in modern times with examples

Unit IV

4. Understanding of Peace:
 - (a) Meaning, Definition & Forms of Peace
 - (b) Role of Peace Education and Peace Movements
 - (c) Concepts of peaceful Co-existence & Zone of Peace.

Unit V

5. Mechanics of War & Peace:
 - (a) Amicable Settlement of International dispute
 - (b) Peace Treaties,
 - (c) Concepts of Peace making, Peace Keeping & Peace Building

BOOKS RECOMMENDED:

Books and journals as recommended by the teacher

Pratibha

Ana

*U King*¹⁶

Ranjit

Raj

Semester-II

DEF - 205 DISSERTATION & VIVA VOCE

The candidates would be required to write a Dissertation on an allotted topic under the supervision of a Faculty Member who would act as the Supervisor.

The topic would be decided by candidates in consultation with respective Supervisors within a board framework of the research methodology, discipline with particular reference to national Security, International Relations, Area Studies and International Security

Prabir Ghosh *Devi* *Ushita* *Sampat* *R. S.*

Semester-III

DEF – 301 NATIONAL SECURITY

Objective:

The course is intended to provide an overview of the concepts and structures prevalent in the area of national security studies in recent thinking. It is hoped that through participation in the course students will gain not only an appreciation of the broad array of challenges that a country faces.

Unit I

1. Concept of National Security with reference to the contemporary thinking.
2. Comprehensive Security and Human Security
3. Defence, Foreign, Security and Domestic Policies; Concept. formulation, objectives and linkages.

Unit II

4. Military Alliances and Pacts, Peace Treaties, Defence Cooperation, Strategic Partnerships and Security Dialogue
5. Environmental Security: Relationship between Environmental degradation and Human Conflict, Environmental Hazards
6. Armaments: Arms Race, Arms Aid, Arms Trade and Small Arms Proliferation.
7. Problem of System of Governance and Human Rights.

Unit III

8. Proliferation of Weapons of Mass Destruction (WMD) and NPT, CTBT, MTCR, NMD, and FMCT.
9. Military, Nuclear and Missile capabilities of China, Pakistan and India.
10. Military-Industrial Complex.

Unit IV

11. End of Cold War and emergence of New World Order. New Trends after Sept. 11, 2001
12. Developments in Central Asian Republics.
13. Ethnic issues in Yugoslavia.
14. Crisis in Chechnya.

Unit V

15. Confidence Building Measures: Concept, Kinds, Tools and Implementation.
16. Civil Defence
17. Civil-Military Relations
18. India's Relation with USA, Russia, China, Pakistan, Israel, European Union & Central Asia.

Rohit Aggarwal

Arun

Uday

Sanjay

Rohit

Suggested Readings:

1. Adic, W.A.C. Oil Politics and Sea: The Indian Ocean Ports
2. Agarwal, R.K. Defence Production & Development
3. Anand, V.K. Insurgency & Counter-Insurgency
4. Bajpal, S.C. Northern Frontier of India
5. Bajapi, U.S. Non-Alignment, Perspective and Prospective
6. Bandopadhyaya, J. Making of India's Foreign Policy
7. Brines, R. Indo-Pak Conflict
8. Chaudhary, J.N. India's Problem of National Security in the 70s.
9. Frankel, J. National Interest
10. Khera, S.S. India's Defence Problem.
11. Kohli, S.N. Sea Power and the Indian Ocean
12. Kumar, M. Theoretical Aspects of International Politics
13. Maxwell, M. India's China War.
14. Mishra, K.P. Non-alignment Frontier & Dynamics
15. Morgenthau, H.J. Politics Among the Nations
16. Panikkar, K.M. India and the Indian Ocean
17. Panikkar, K.M. Problems of Indian Defence
18. Prasad, B. India's Foreign Policy
19. Poulouse, T.T. Indian Ocean Rivalry
20. Rahman, M.W. Politics of Non-alignments
21. Rao, P.V.R. India's Defence Policy and Organisation Since Independence
22. Rao, P.V.R. Defence Without Drift
23. Saigal, J.R. Un-fought War of 1962
24. Shah, A. India's Defence and Foreign Policy
25. Singh, S. Defence of the Western Border
26. Singh, K.R. Indian Ocean
27. Singh, R. Aspect of Indian Perspectives
28. Subrahmanyam K., India's Security Perspectives
29. Venkateswaran A.L., Defence Organisation in India
30. Subrahmanyam K., Defence & Development
31. Thomas, Raju. Defence of India.

And other books and journals as recommended by the teacher

P.V.R. Rao

Arora

U. Singh

Sanyal

P. V. R.

Semester-III

DEF - 302 Science & Technology and National Security

Objective:

The objective of this paper is to introduce the social science student to the developments in science and technology that have had an impact on the approaches to security over the ages. The changes in weapon systems and the method of warfare that come about due to innovations in science and technology are sought to be introduced in the course on Science, Technology and National Security.

Unit I

1. The Age of Gun Powder and the beginning of Modern Warfare up to Napoleonic Era :-
 - a) Small Arms; b) Artillery; c) Naval Weapons; d) Strategy & Tactics on Land & Sea; e) Strategy & Tactic on Land & Sea during Napoleon Era; f) Evolution of Air Power
2. Impact of S & T before World War I
 - a) Emergence of Professional Army & military theory
 - b) Weapons and Tactics on Land
 - c) Weapons and Tactics on Sea
 - d) Introduction of Aerial Weapons and concepts of Air Power

Unit II

3. World War I and The era of Total Wars
 - a) Weapons, doctrines and Tactics on Land
 - b) Revolution in Arms & Technical Advances in Land Warfare
 - c) Weapons & Tactics in Sea Warfare
 - d) Weapons & Tactics in Air Warfare – the concept of Flights Triumph
 - e) Technological development between the World Wars – I and II in Land, Sea and Air
4. World War II and the dawn of Nuclear Era.
 - a) Introduction of Hi-Tech weapons-Missiles, Submarines etc.,
 - b) The Birth of Nuclear Weapons & Nuclear Doctrines
 - c) Revolution in Delivery systems – introduction to various kinds of Missiles-ICBM, SLBM etc

Unit III

5. Revolution in Military Affairs and its impact on weapons and warfare
 - a) Emergence of New Technologies
 - b) Revolution in Small Arms In Low Intensity Conflicts
 - c) Emergence of Improvised Explosive Devices (IED) & its impact on LIC

P. S. H. Aggarwal

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6. Electronic Warfare and its Impact.
7. Information Warfare

Unit IV

8. Chemical & Biological Weapons
9. Nuclear Weapons and Missile technology
10. Emerging New technologies in Air force & Navy

Unit V

11. New Conventional Weapons: Precision Guidance, Accuracy, Throw weight, Command and Control and Communications
12. Transfer of Technology
13. Structure of Interdependence
14. Automation of Weapon System and its Impact of Strategy

SUGGESTED READINGS:

- | | |
|---------------------------|--|
| Deva Yashwant(1996) | Duel-use of Information Technology (An Indo Centric perspective): New Delhi, IDSA. |
| Hard David(1983) | Nuclear power in India: London, George Allen. |
| Jayant Baranwal | S.P's Military Year Book: New Delhi, Guide Publishers. |
| John Erickson (1966) | The Military Technical Revolution: Its impact on strategy and foreign policy: New York, Frederick A Praeger. |
| Khana S.K(1998) | India: A Nuclear Power: New Delhi, Commonwealth Publishers. |
| Lal A K (2003) | Space warfare and Military Strategy.(An Indian Perspective): New Delhi, USI of India. |
| Rajan, Y.S(2001) | Empowering India(with Economic, Business and Technology, Strengths for the twentyfirst century): New Delhi, Har Anand. |
| Sen S.K(2000) | Military Technology and Defence Industrialisation: New Delhi, Manas Publishers. |
| Siddhartha. K(1999) | Oceanography, A brief introduction 3rd. Edition: New Delhi, Kisalaya Publishers. |
| Tellis, A(2001) | India's Emerging nuclear posture: Oxford, Oxford University Press |
| Tewari, R. &Tewari | The High-Tech War of twentieth century: New Delhi, Vikas Publishing House. |
| Tewari, V.M(1996) | |
| Thee Marek(1986) | Military technology, Military Strategy and Arms Race: London, Groom Helm. |
| Arcangelis, Mariode(1990) | Electronics Warfare, Ratna , New Delhi. |
| Rehman,A (1972) | Science Technology and Society: New Delhi, People's Publishing House. |
| Anand A(2003) | Information Technology : The future warfare weapons: New Delhi, Ocean books. |
| Baranson, Jack(1978) | Technology and the Multinationals: Lexington, Lexington Books. |

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- Johan Erickson (Ed.)(1966) The Military Technical Revolution: Its Impact on strategic and Foreign Policy: New York, Frederick A Prager.
- Macksey, Kenneth (1986) Technology in War: The impact of Science on weapon development and modern Battle: NY, Printice Hall.
- Mann T.S.(1982) Transfer and Technology: Bombay, Himalaya Publications House.
- Jasbir R.K(1987) Handbook of military science and Armament Technology: Dehradun, Natraj publications.
- Jasbir R.K. Indian Defence Year Book: Dehradun Natraj Publication.
- Jayant Baranwal SP` s Military Year Book: New Delhi, , Guide Publishers.
- Singer, H.W(1988) Technology Transfer by Multinational Vol.I & II: New Delhi, Ashish
- Rajan, Y.S. (2001) Empowering India (with Economic Business & Technological strengths for the twenty First Century) : New Delhi, Hari Anand.
- Zackerman Sully Sir(1966) Science and war : London, Harmish Hamilton.

And other books and journals as recommended by the teacher

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Semester-III

DEF - 303 DISARMAMENT & ARMS CONTROL

Objective:

This course intends to make the students/scholars aware with the advancements in field of armament. This development has led to various conflicts which in turn resulted in massive destruction of human being and state's resources. Hence, the study of disarmament and arms control becomes important in containing not only war but also the proliferation of weapons.

Unit I

- 1- Role of Nuclear Weapons In International Politics.
- 2- Concept & Nature of Disarmament.
- 3- Theories of Disarmament.
- 4- Arms Control : Agreements, Verification, Inspection, Control

Unit II

- 5- History of Disarmament: League of Nations and United Nations.
- 6- History of Arms Control: Theory and Practice.
- 7- Unilateral, Bilateral and Multilateral Approaches.

Unit III

- 8- Treaties: (i) Under Disarmament, Partial Test Ban Treaty, Nuclear Non Proliferation Treaty, Outer Space Treaty Comprehensive Test Ban Treaty.
(ii) Arms Control, SALT I and II, INF Treaty, START I and II. Chemical and Biological Weapons.

Unit IV

- 9- MTCR: Objectives, Challenges and Role of Great Powers.
- 10- Nuclear Supplier group : Objective, Problems and Prospects
- 11- New Challenges to Reduce Nuclear Threat.
- 12- Star Wars and National Missile Defence

Unit V

- 13- National Policies in Disarmament and Arms Control: USA, Russia, China, India and Pakistan.
- 14- Disarmament and Economic Development.
- 15- Terrorism and Nuclear Proliferation.
- 16- Non-State Actors and Nuclear Weapons

Robert Agard

Alan

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V. V. V.

Surya



BOOKS RECOMMENDED:

1. A Carnesale et al, Living with Nuclear Weapons, Cambridge, Howard University Press, 1983.
2. Andre Beaufre, Deterrence and Strategy, London, 1965.
3. A.Y. Yefremov, Nuclear Disarmament, Moscow, 1979.
4. E.Luard, First Step to Disarmament, London, 1965
5. J.Dougherty and J.F. Lehman Jr (ed), Arms Control for Late 60s, Inc, Crane, Russels& Co. New York.
6. J.J. Mearsheimer, Conventional Deterrence, London, 1983.
7. J.H. Kahn, Security in the Nuclear Age Washington, 1975
8. R.E. Jones, Nuclear Deterrence; A Short Political Analysis, New York, 1968.
9. SIPRI Yearbook
10. The United Nations, Disarmaments Year Book, New York, 1994.
11. Y. Harkabi, Nuclear War and Nuclear Peace, Jerusalem.

And other books and journals as recommended by the teacher

Prakash *Alan* *Wong* *Singh* *R*

Semester-III

DEF - 304 Geo –Politics and Military Geography

This course intends to make the students/scholars aware with the advancements in field of Geo-Politics and Military Geography.

Unit I

1. Scope and Importance of geopolitics
2. Evolution of Geopolitical Thought since the 19th Century: (a) Organic Theory of State (b) Sea Power Theory, (c) land Power Theory, (d) Rim Land Theory, (e) German Geopolitics

Unit II

3. Geopolitics during the Cold War Period: (a) Cold War relevance of Heartland Theory, (b) Four Dimensional Worlds
4. Geopolitics in the post cold war era.
5. Role of Geography In Military applications

Unit III

6. Important and Scope of Logistics: (a) Resources, (b) Industries, (c) Supply Chain, (d) Transportation and Communication
7. Planning Process and Principles of Strategic Geography
8. Role of Geography in land Warfare

Unit IV

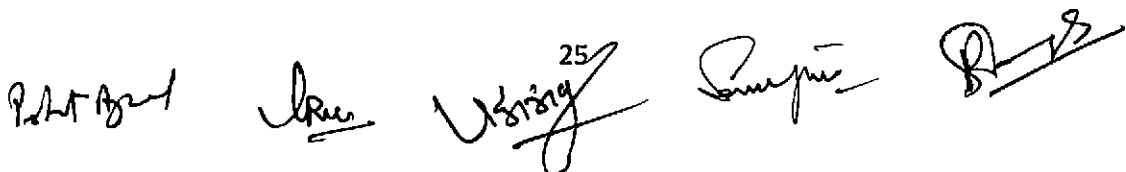
9. Role of Geography in Sea Warfare
10. Role of Geography in Air Warfare
11. Weather conditions of Sea as factors in amphibious and airborne Operations.

Unit V

12. Military Geography of India and Defence Problems: (a) India's boundaries, terrain in border areas, weather and communication, (b) Population in border areas and its implications to border security
13. Remote Sensing: Role of Remote Sensing in Development and National Security

SUGGESTED READINGS:

Books and journals as recommended by the teacher



Semester- IV

DEF - 401 Peace & Conflict Studies

This course intends to make the students aware with the advancements in field of Peace and Conflict Studies.

Unit I

1. Peace and Conflict Studies: Nature and Scope
2. Conceptual analysis of Conflict and Peace

Unit II

3. Origin, Nature, Forms and structure of Conflict at inter and intra-state levels
4. Conflict Management and Conflict Resolution
5. Theories of Conflict Resolution.

Unit III

6. Techniques of Conflict Resolution
7. Role of NGO and IGO in Conflict Resolutions.
8. UN System: Peace Keeping, Peacemaking and Adjudication

Unit IV

9. Identification of Zones of Potential Conflicts and their Management
10. Regional Conflicts and Role of United Nations
11. Functional Approaches and Regionalism

Unit V

12. Use of Non-Violence in National Identity and Policy - Gandhian Approach and its relevance today
13. Comprehensive Security and Human Security
14. Role of International Monetary Organisations in Conflict Resolution

BOOKS RECOMMENDED:

Books and Journals as recommended by the teacher



● Semester- IV

DEF - 402 Defence Economics

Objective:

The objective of the course is to develop a basic understanding of the economic aspects of India's national security. It is hoped that after participation in the course the student would be able to appreciate the constraints under which a nation state operates in securing itself.

Unit I

1. Economic systems—Role of states vs markets ; Capitalism, Socialism and Mixed Economy from Industrial Revolution to modern times
2. Economic Theory of Defence.—Adam Smith, David Ricardo, F.W. Hirst, Evan F.M. Durbin, J.M. Keynes.
3. Defence, Development and Disarmament relationship.
4. Systems Analysis for Defence

Unit II

5. War Potential of a nation.—Natural, Physical, Financial, Industrial and Manpower resources.
7. Economic Constraints in Defence Planning and Management.
9. Defence Production Programme in India:
 - (i) Ordnance Factories.
 - (ii) Defence Public Sector Undertakings.

Unit III

10. National Income Analysis.
11. Determinants of Planning, Programming and Budgeting.
12. Defence Budgeting in India after 1947.
13. Nature of Modern war and peace economy.

Unit IV

14. Mobilisation of Resources for Defence: Domestic and Foreign resources, Methods of mobilisation, War and Peace time mobilisation Policy, effectiveness in short duration wars, mobilisation during nuclear war.
15. National Security and International Trade: WTO, TRIPS, TRIMS, NAFTA, SAPTA

Unit V

16. Impact of Economic Liberalisation and globalisation on India.
17. Economic Causes of War.
18. Economic Warfare in modern times.
19. Economic Problems of Post War reconstruction.

Prabhat Aggarwal

Arjun

Utkarsh

Ranjit

R

● **BOOKS RECOMMENDED:**

- | | | |
|-----|--------------------------|---|
| 1- | Samuelson Paul | Economics |
| 2- | Murphy | The British War Economy |
| 3 | Pagou A.C. | Political Economy of War |
| 4- | Medicott W.N. | The Economic Warfare |
| 5- | Robinson, L.R. | The Economic Problems in War and Peace |
| 6- | Hirst, F.W. | The Political Economy of War |
| 7- | Richard, K. Ashley | The Political economy of War & Peace in the Nuclear Age |
| 8- | Hitch & Mckean | The Economics of Defence in the Nuclear Age |
| 9- | Clark, J.J. | The New Economics of National Defence. |
| 10- | Hitch | Decision Making for Defence |
| 11- | Merril & Carter | Mobilization and the National Defence. |
| 12- | Scitovsky, Shaw, Tarshis | Mobilizing Resources for War |
| 13- | Jain, L.C. | Indian Economy During the War |
| 14- | Mehta, J.K. | Problems of Economic Development |
| 15- | Khanna, D.D. | Defence Versus Development |
| 16- | Chopra, V.D. | Disarmament and Development. |
| 17- | Gavin Kennedy | Defence Economics |
| 18- | Stephen, Enke | Defence Management |
| 19- | Samuael A. Tucker | A Modern Design for Defence Decision. |
| 20- | S.P. Pandey | An Outline of Defence Economics |
| 21- | R. Faramazyan | Disarmament and the Economy |
| 22- | Jemes Everett Katz | Arms Production in Developing Countries |
| 23- | Rajesh K. Agarwal | Defence Production and Development |
| 24- | G.A. Kozlow | Political economy : Capitalism |
| 25- | H.G. Mannur | International Economics |

And other books and journals as recommended by the teacher.

Pratik Singh

Arav

Ujjay

Sanjay

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Semester-IV

DEF - 403 South Asia: Conflict and Co-operation

Objectives:

The goal of the course is to enable the students to learn and understand root cause of conflicts in the region. Also students should be able to analyze various issues and concerns towards a solution for lasting peace in South Asian Region. The course is designed for students to gain knowledge of conflict in South Asia and to be able to gain the knowledge of various means of cooperation among the countries of the region and to understand the meaning and importance of lasting peace in the South Asian Region.

Unit I

1. Geo-Political setting of South Asia.
2. Social & Cultural Structure of South Asia (Diversity of Race, Language & Religion)
3. Economic & Human resources of South Asia

Unit II

4. Governance of Modern South Asia.
5. Power Rivalries in South Asia: USA, USSR, U.K, & China during Cold War era.
6. Indo-Sri Lankan Relations.

Unit III

7. Internal Problems & Conflicts in South Asian Region India Pakistan Sri Lanka, Bangladesh, Nepal, Bhutan & Maldives
8. Afghanistan, Myanmar & China Strategic importance for South Asia.
9. Regional Cooperation in South Asia under the aegis of SAARC.

Unit IV

10. Intra-Regional Trade & Balance of Payment.
11. Prospects of Sub-Regional Cooperation
12. Problem of Refugees Causes of Migration and population in Border & Border Security

Unit V

13. Role of Pressure Groups (Religion Language, Caste Tribal Groups. Women, Youth, Media) in National Integration
14. Pattern of Civil-Military Relations in South Asian Countries

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BOOKS RECOMMENDED:

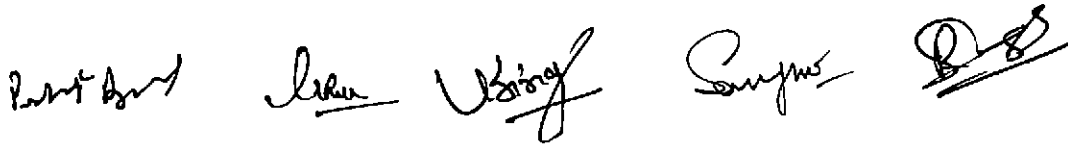
Text Books:

1. Problems of governance in South Asia, Centre for Policy Research (New Delhi, India), Konark Publishers, 2000 – Political Science – 479 pages.
2. The Geopolitics of South Asia: From Early Empires to the Nuclear Age Graham Chapman, Ashgate Publishing, Ltd., 2003 – 333 pages

Reference Books:

1. Cooperation And Conflict In South Asia, Partha Sarathy Ghosh Technical Publications, 1989 – 265 pages
2. South Asian Security and International Nuclear Order: Creating a Robust Indo-Pakistani Nuclear Arms Control Regime, Mario Esteban Carranza, Ashgate Publishing, Ltd., 14-Sep-2009 – 198 pages
3. Stability in South Asia, Ashley J. Tellis, Rand Corporation, Arroyo Centre, United States. Army, RAND, 1997 – History - 80 pages.

And other books and journals as recommended by the teacher.



Semester-IV

DEF - 404 WAR AND PEACE IN THE MODERN AGE

This course intends to make the students/scholars aware with the advancements in field of War and Peace Studies.

Unit I

1. Roots of Conflict in World Politics
2. Origins of War: World Wars I and II, the Vietnam War

Unit II

3. The Cold War and the Struggle against the weapons of mass destruction (WMD)
4. The United Nations, common Security and Globalization.

Unit III

5. The Event of September 11, 2001 and the Campaign against Terrorism
6. The Invasion and Occupation of Iraq.

Unit IV

7. Alternative to Unilateral Preemption
8. Role of NATO in world politics.

Unit V

9. Media and war, social networking and uprising.
10. Rise of Regionalism and world politics.

BOOKS RECOMMENDED:

Books and Journals as recommended by the teacher

P. Ashraf *Ali* *U. King* *Ramjani* *R. V. S.*

Semester-IV

DEF - 405 DISSERTATION & VIVA VOCE

The candidates would be required to write a Dissertation on an allotted topic under the supervision of a Faculty Member who would act as the Supervisor.

The topic would be decided by candidates in consultation with respective Supervisors within a board framework of the research methodology, discipline with particular reference to national Security, International Relations, Area Studies and International Security

P. Anand

Amu

U. King

S. Srinivas

D. S.

टिप्पणी एवं आदेश

परीक्षा नियंत्रक / कुलसचिव

विद्या परिषद की बैठक दिनांक 02.11.2019 में अध्यक्ष महोदय की अनुमति से उठाये गये बिन्दुओं में प्रतापगढ़ जनपद में स्थित सरस्वती विद्या मंदिर विज्ञान एवं प्रौद्योगिकी संस्थान को शैक्षणिक सत्र 2019-20 हेतु परास्नातक स्तर पर सैन्य विज्ञान में सम्बद्धता प्रदान की गई है। सैन्य विज्ञान विषय के पाठ्यक्रम जो सम्बन्धित पाठ्यक्रम समिति द्वारा तैयार किया गया था में त्रुटिवश प्रथम एवं तृतीय सेमेस्टर में वाईवा / मौखिक परीक्षा (100अंक) का अंकन नहीं किया गया था। विद्यापरिषद द्वारा प्रथम एवं तृतीय सेमेस्टर में वाईवा / मौखिक परीक्षा (100अंक) का अंकन पर सहमति प्रदान की गई।

कृपया उक्त निर्णय से एजेन्सी को अवगत कराया जा सकता है।


5/11/19
DR

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एजे-सी