

UNIVERSITY OF ALLAHABAD



M.A. /M.Sc. in Defence & Strategic Studies (Choice Based Credit System)

SYLLABUS

(To be implemented from the Academic Year 2016-17)

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

SEMESTER- I

| <u>Course No.</u> | <u>Marks/Credits</u> | <u>Course Title</u> |
|-------------------|----------------------|-------------------------------------|
| DEF-501 | 100/5 | Indian Art of Warfare upto 1857 |
| DEF-502 | 100/5 | International Strategic Relations |
| DEF-551 | 100/5 | Politics & Security of Indian Ocean |
| DEF-552 | 100/5 | Theories of Modern Guerilla Warfare |

SEMESTER- II

| <u>Course No.</u> | <u>Marks/Credits</u> | <u>Course Title</u> |
|-------------------|----------------------|---------------------------------------|
| DEF-506 | 100/5 | Strategic Thought |
| DEF-507 | 100/5 | India's Defence Policy & Organization |
| DEF-531 | 100/4 | Dissertation & Viva Voce |
| DEF-561 | 100/5 | International Law |
| DEF-562 | 100/5 | Concept of War & Peace |

SEMESTER-III

| <u>Course No.</u> | <u>Marks/Credits</u> | <u>Course Title</u> |
|-------------------|----------------------|--|
| DEF-511 | 100/5 | National Security |
| DEF-512 | 100/5 | Science, & Technology and National Security |
| * DEF-571 | 100/5 | Disarmament & Arms Control |
| * DEF-572 | 100/5 | Geo –Politics and Military Geography |
| * DEF-573 | 100/5 | Internal Security in India |
| * DEF-574 | 100/5 | Strategic Dimensions of Sino-Indian & Indo-Pak Relations |
| * DEF-575 | 100/5 | WMD, Nuclear Proliferation and National Security |
| * DEF-576 | 100/5 | International Conflict Resolution |

SEMESTER- IV

| <u>Course No.</u> | <u>Marks/Credits</u> | <u>Course Title</u> |
|-------------------|----------------------|---|
| DEF-521 | 100/5 | Peace & Conflict Studies |
| DEF-522 | 100/5 | Defence Economics |
| DEF-541 | 100/4 | Dissertation and Viva Voce |
| * DEF-581 | 100/5 | South Asia: Conflict and Co-operation |
| * DEF-582 | 100/5 | War and Peace in the Modern World |
| * DEF-583 | 100/5 | Disaster Management and National Security |
| * DEF-584 | 100/5 | Human Rights and Humanitarian Law |
| * DEF-585 | 100/5 | Cyber Security and Crime |
| * DEF-586 | 100/5 | Research Methodology |

* Elective Course

UNIVERSITY OF ALLAHABAD

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

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SYLLABUS

(To be implemented from the Academic Year 2016-2017)

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

Semester-I

L-T-P-C: 3-2-0-5

DEF - 501 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

DEF - 502 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 |
| 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. and Wolfe, J.H. | International Relations: Power and Justice |

And other books and journals as recommended by the teacher

DEF- 551 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

DEF - 552 THEORIES OF MODERN GUERILLA 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 Giap 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.

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

BOOKS RECOMMENDED:

| | |
|------------------------------|---|
| Aspray, R.P. | War in the Shadow: The Guerrilla in History |
| Beaufre, A. | An Introduction to Strategy with particular reference to Problem of Defence, Politics, Economics and Diplomacy in Nuclear Age |
| Beaufre, A. | Strategy of Action |
| Brien, Bond | Liddel Hart : A Study of his Military Thought |
| Brodie, B. | A Guide to Naval Strategy |
| Brodie, B. | Strategy in Missile Age |
| Burton, A. | Revolutionary Violence |
| Clausewitz, K. | On War |
| Dixon, C.A. and Heilburn, D. | Communist Guerrilla Warfare |
| Earle, E.M. | Makers of Modern Strategy |
| Peter Parett | Makers of Modern Strategy |
| S.Adhikari | Modern Strategic Thought |

And other books and journals as recommended by the teacher

DEF-507 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's 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

DEF - 531 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

DEF-561 INTERNATIONAL LAW**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

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

DEF – 562 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

DEF – 511 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.

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. Bajpai, S.C. Northern Frontier of India
5. Bajpai, 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

DEF - 512 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

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) Publishers. | 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. |

- 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

DEF - 571 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 Actor and Nuclear Weapons

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

Semester-III

L-T-P-C: 3-2-0-5

DEF - 572 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

DEF - 573 INTERNAL SECURITY IN INDIA

Objective: The goal of course is to equip the students with the knowledge of internal aspects of India's National Security, possible threats and challenges and also to be able to construct a response to the perceived threats. The course intends to provide students an understanding of National Security, Concept, Scope and definition and to understand the variety of threats to the state. After participation in the course students would be able to analyze the various challenges to Internal Security and would also gain knowledge about the Role of the State in Security Governance.

UNIT-I

1. Internal Security as Integral form of National Security: Vital National Assets/Installations - Elements of Power – Concept of Internal Security Management
2. Traditional and Non – Traditional Threats - External and externally fostered Internal Threats - Threats from Land, Air, Sea and Space - Cyber & Economic Threats

UNIT-II

3. Brief Background of Insurgencies:
 - a) Indo-China
 - b) Malaya
 - c) Afghanistan
 - d) Sri-Lanka
4. Causes of Insurgency and Counter- Insurgency:
 - a) Causes of Insurgency in India.
 - b) Counter-Insurgency measures adopted by the government.
 - c) Growth of Urban terrorism in India and steps taken
 - d) Insurgency and Human Right Issues

UNIT-III

5. Cause of Internal Security Challenges and State's response:
 - a) Cross Border Terrorism
 - b) Low Intensity Conflicts
 - c) Maoism/Left Wing Extremism
 - d) Societal Challenges

UNIT-IV

6. Governance in Internal Security:
 - a) Role of Security Forces
 - b) Role of Policy and Doctrine
 - c) Role of Intelligence Agencies
 - d) Border Security Management

Unit-V

7. Role of State:
 - a) Structure of Internal Security Management System in Union of India & State Governments
 - b) Law Enforcement

- c) Policies of Union & State Governments
- d) Role of Armed Forces and Para-military Forces in Internal Security Management

RECOMMENDED:

| | |
|--------------------------|---|
| 1. Palit, D.K. | Essentials of Guerilla Warfare |
| 2. Tzu, Sun | The Art of War. |
| 3. Fall, Bernard | Street without Joy |
| 4. James, Dariial | 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. Liddell Hart | Deterrence of Defence |
| 10. Mark Franklin | Guerilla Warfare |
| 11. Mao Tse-Tung | Guerilla Warfare |
| 12. Buchan, A | War in Modern Society. |
| 13. Solvolosky | Soviet Military Strategy. |
| 14. Khan, H. | On Escalation |
| 15. George M. | 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. Thompson, Robert | Defeating Communist Insurgency |
| 23. Mohanty, Manoranjan | Political Philosophy of Mao Tse-Tung |

And other books and journals as recommended by the teacher

DEF - 574 STRATEGIC DIMENSIONS OF SINO-INDIAN & INDO-PAK RELATIONS**Objective:**

This course intends to enhance the knowledge of the Students/scholars with the issues, perspectives and analyses of the strategic dimensions of India's relations with China and Pakistan and oriented towards giving future projections.

Unit-I

1. Genesis of Sino-Indian Relations
2. The Boundary Dispute with China

Unit-II

4. China- India Military Balance
5. China's Policy towards India's Neighbors
6. Rise of India and China: Cooperation and Competition

Unit-III

7. Genesis of India-Pakistan Conflict
8. Strategic Dimension of India- Pakistan Relations
9. Sino- Pakistan Nexus

Unit-IV

9. The Kashmir Problem
10. Pakistan Sponsored Terrorism
11. Pakistan's Nuclear Strategy

Unit-V

12. Military in the Power Structure of Pakistan
13. Contentious. Issues: Siachin, Sir Creek, Sharing of River Waters etc.
14. Prospects for Indo-Pak Relations

BOOKS RECOMMENDED:

- | | |
|--|--|
| 1. Dalvi, J. P. | Himalayan Blunder |
| 2. Lamb Alistair | Kashmir: A Disputed Legacy |
| 3. Sandhu, P.J.S. | Rising China |
| 4. Sidhu, Waheguru Pal Singh & Yuan, Jing Ding | China and India: Cooperation or Conflict |
| 5. Subramaniam, R. R. | India Pakistan China: Defence and Nuclear Tangle in South Asia |
| 6. Maxwell, Nevile | India's China War |
| 7. Bajpai, Kanti | The Peacock and the Dragon: India- China Relations in the 21 st Century |
| 8. Rao, Gondkar Narayan | The India-China Border: A Reappraisal |

- | | |
|---------------------------|--|
| 9. Kaul, H. N. | India China Border in Kashmir |
| 10. Tinker, Hugh | India and Pakistan: A Political Analysis |
| 11. Sinha, S. K. Lt. Gen. | Operation Rescue: Military Operation in Jammu & Kashmir |
| 12. Noorani, A. G. | The Kashmir Dispute, Vol. I and II. |

And other books and journals as recommended by the teacher

DEF - 575 WMD, NUCLEAR PROLIFERATION AND NATIONAL SECURITY

OBJECTIVE: This course intends to make the Students/scholars aware with the advancements in the field of Security related to WMD and Proliferation of Weapons and the applications of corrective measures orientated.

Unit-I

1. Basic Concepts and Theory
 - (i) Concepts of Disarmament & Arms Control
 - (ii) Objectives and Conditions of Disarmament
 - (iii) Elements of Arms Control Mechanisms: Agreements, verification, inspection, control.
 - (iv) Approaches to Disarmament & Arms Control
2. Historical Survey of Disarmament Efforts:
 - (i) Under the League of Nations
 - (ii) Under the United Nations
 - (iii) Unilateral, Bilateral and Multilateral approaches
 - (iv) Role of Non-aligned Nations in Disarmament Negotiations

Unit-II

3. Weapons of Mass Destruction: Nuclear, Chemical & Biological Weapons.
4. Traditional Arms Control and Disarmament - Nuclear Arms Limitation Nuclear Arms Control Treaties.

Unit-III

5. Convention and Biological Weapons Convention
6. Concept of Nonproliferation, Nonproliferation Treaty, CTBT, PTBT & other treaties
7. Nuclear Export Control Regimes

Unit-IV

8. New Challenges and Responses - Missile Defense, Cooperative Threat Reduction and G-8 Global Partnership
9. Disarmament & Arms Control and Economic Development
10. Terrorism and Nuclear Proliferation.

Unit-V

11. Concept of Star Wars and NMD
12. Concept and Theory of Deterrence: Nuclear and Conventional.

BOOKS RECOMMENDED:

Books and journals as recommended by the teacher

DEF - 576 INTERNATIONAL CONFLICT RESOLUTION**Objectives:**

The Aim of the course is to provide knowledge about Conflict Management, Conflict Resolution and Conflict Prevention and develop the knowledge on issues and concerns of Conflict Resolution. The course intends to enable students to get a broad understanding of conflict theories and to understand the process of managing conflicts. Through participation in the course the student would be able to analyze the cause of conflicts and develop the ideas and methods of conflict resolution. In addition the student would also gain knowledge about methods of de-escalation and negotiations.

Unit I: Introduction to Conflict Resolution

Introducing international relations - What is conflict - Conflict Structure – Conflict Theories - Sources of conflict evaluation.

Unit II: Conflict Analysis

Evolution -Main concepts of conflict analysis - Tools of conflict analysis – Conflict Prevention and Conflict Management.

Unit III: International Law and Conflict Management

Processes of Conflict management: Mediation, Prevention and Intervention; Human rights/Refugee Laws - Case studies.

Unit IV: Conflict Management Practice

Complexities in Conflict Management - Use of technology to manage conflicts - From ceasefire to mediation - the process of conflict management - Case studies.

Unit V: From Management to Peace Building

Truth and reconciliation commission - New issues in conflict management - Case studies - Future of the field

BOOKS RECOMMENDED:**Text Books:**

1. Chester A. Crocker, Fen Osler Hampson, and Pamela Aall, eds. Turbulent Peace: The Challenges of Managing International Conflict, Washington, United States Institute of Peace, 2001.

2. Gil Loescherl and James Milner, Protracted Refugee Situations, Adelphi Paper 375 John Burton. Conflict: Resolution and Prevention. New York: St. Martin's Press.
3. Kriesberg, Louis, Constructive Conflicts: From Escalation to Resolution, Rowman & Littlefield, Maryland, 1998
4. Peter Wallensteen, Understanding Conflict resolution, Sage Publications, 2003

Reference Books:

1. Alex J. Bellamy and Paul D. Williams, Understanding Peacekeeping, Polity Press, UK, 2010
2. Crocker, Chester A., Fen Osler Hampson and Pamela Aall, (eds.,) Managing Global Chaos: Sources of and Responses to International Conflict Washington, D.C., USIP, 1996
3. Deutsch, Morton, The Resolution of Conflict: Constructive and Destructive Processes, New Haven, Yale University Press, 1973
4. Gerard Prunier, Darfur: The Ambiguous Genocide, Ithaca: Cornell University Press, 2005.
5. Myra Warren Isenhardt, Michael Spangle, Sage Publications, USA, 2000
6. Peter Harris, Ben Reilly, eds., Democracy and Deep-rooted conflict: Options for negotiators, IDEA, 1998

And other books and journals as recommended by the teacher

DEF - 521 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

DEF - 522 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.

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- James 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.

DEF - 541 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

DEF - 581 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

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.

DEF - 582 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

DEF – 583 DISASTER MANAGEMENT AND NATIONAL SECURITY**OBJECTIVE:**

This course intends to focus the various challenges faced by different kinds of disaster. Also mitigation and reconstruction issues would be covered; the role of various agencies and regulatory mechanism would also be discussed.

Unit I: Basic Concepts

What is Disaster, Introduction to terminologies associated with Disaster and National Security: Natural and Manmade, Vulnerability, Risk etc., - Identifying various types of Disasters

Unit II: Natural Disaster and Human Induced Disaster

Floods, Cyclone, Earthquake, Tsunami - WMD Disaster - Disaster associated with various industries

Unit III: Study of Disaster in India / Around the World

Case Studies: Tsunami 2004, Bhopal Gas Tragedy, Chernobyl, Fukushima, Uttarakhand etc.

Unit IV: Disaster Management

Meaning, Association and Distinction with related concepts like Disaster Mitigation, Response, and Recovery, Relief, and Reconstruction

Unit V: Institutional Mechanism for Disaster Management in India

Role of Armed Forces, Central and State Governments, NGO, National Disaster Management Authority, Indian National Centre for Ocean Information Services.

BOOKS RECOMMENDED:

1. Disaster Management, by I. Sundar, I. T. Sezhiyan, Sarup & Sons, 2007
2. Disaster Management, by Shailendra K. Singh, Shobha Singh Mittal Publications, 1998
3. Disaster Management: Warning Response and Community Relocation, by Amit Awasthy, Global India Publications, 2009
4. Disaster Communications in a Changing Media World, by George D. Haddow, Kim Haddow, Butterworth-Heinemann, 2009
5. The Media and Disasters: Pan Am 103, by Joan Deppa, Fulton, 1993

And other books and journals as recommended by the teacher

DEF - 584 HUMAN RIGHTS AND HUMANITARIAN LAW

Objective: This course intends to create awareness and build capacity on the Principles of Human Rights, Values and Legalities both at International & National Level among the students. The course will also focus on individual, group, State, Civil Society. Liberty, Freedom, Equality Justice, Violence and Counter Violence as mentioned in universal declaration of human rights.

Unit – I: Basic Aspect

Introduction - Meaning and Concept of Human Rights - Various Types of Human Rights and Distinction - Evolution of the Concept - Democracy and Human Rights.

Unit – II: United Nations and Human Rights

Universal Declaration of Human Rights - UN and Implementation of Human Rights - Contemporary human rights situation, issues and concerns.

Unit -III: Human Rights and International Politics

Human Rights and International Humanitarian Law - Refugee Law - Governmental and Non-Governmental Organizations for Human Rights Protection - Human Rights in Global and Regional Perspectives.

Unit-IV: Violation of Human Rights

Human Rights Violation against Women, Children, Differently abeled and Minorities.- Gender Discourse and Human Rights Violations in Conflict Zone.

Unit-V: India and Human Rights

Indian Constitution and Human Rights - Enforcement and Policy Implementation - Human Rights Protection/Violations as Chosen by Faculty - Special Laws for Protection of Specific Categories / Vulnerable Sections of the people - Problems of Enforcement of Human Rights in India.

Suggested Readings:

1. Alston, Phillip (ed.), (1992), *the United Nations and Human Rights: A Critical Appraisal*, Oxford: Clarendon Press.
2. Chaudhary, Jayant, *A Textbook on Human Rights* (New Delhi Wisdom Press, 2011)
3. Dube, M.P. and Neeta Bora, (ed.), (2000), *Perspective on Human Rights*, New Delhi: Anamika Publishers.
4. Mahadev Rao, L. R., *Global Trends of Human Right* (New Delhi: Sumit Enterprises, 2004).
5. Mani, V.S., *Human Rights in India: An Overview* (New Delhi: Institute for the World Congress on Human Rights, 1998).

- 6.** Menon, G. C. (ed.), *Genesis and Role of NGOs in Protecting Human Rights* (New Delhi, Dominant Publishers and Distributors, 2009).
- 7.** Paras Diwan, & Peeyushi Diwan, *Human Rights and the Law: Universal and Indian* (New Delhi : Deep & Deep,1998).
- 8.** Sehgal, B.P.Singh, ed., *Human Rights in India: Problems and Perspectives* (New Delhi: Deep and Deep, 1999).
- 9.** Sinha, P. C. *India's Human Rights Regime - A Comprehensive Presentation, Part-I* (New Delhi, Kanishka Publishers, 2003).
- 10.** Subramanyam. N., *Human Rights and Refugees* (New Delhi, A.P.H. Publishing Corporation, 2011).

And other books and journals as recommended by the teacher

DEF – 585 CYBER SECURITY & CRIME

Objective: The Goal of this course is to impart the knowledge about security dimensions of cyber threat and crime, and also to prepare students to apply their mind for prevention of such threats. The course should enable the students to gain knowledge about various types of Cyber Crime and Cyber Threats to National Security.

Unit I:

Introduction to Cyber Technologies

Information Systems - Networks/LAN/WAN - Military Sensors

Unit II:

Types of Cyber Crime

Hacking - Password Cracking - Insecure Network Connection –

Theft at Tele Communication Services

Unit III:

Impact of Cyber Crime on National Security

Impact on Armed Forces & Law enforcement Agencies' Information Systems -

Impact on National Economy/Market - Impact on Citizen Security

Unit IV:

Detection and Prevention methodologies

Risk Identification - Levels of Protection - Cyber Defensive Measures

Unity V:

Cyber Laws

Overview of General Laws and Procedures in India - Introduction to Indian Cyber Law

- Cyber Crime and Digital Evidence- Indian Perspective

BOOKS RECOMMENDED:

TEXT BOOKS:

1. Cyber Security – the Essential body of knowledge by Dan Shoemaker and Wm Arthur Conklin, published by Cengage Learning – ISBN – 978 – 1 – 4354 – 8169 – 5

2. Cyber Security and Homeland Security – edited by Lin V Choi – ISBN – 1 – 59454 – 728 – 9
3. Cyber Security – Public Sector threats and responses edited by Kim Andreasson, published by CRC Press , ISBN – 978 -1 – 4398 – 4663 – 6

REFERENCE BOOKS:

4. Cyber Security – the Essential body of knowledge by Dan Shoemaker and Wm Arthur Conklin, published by Cengage Learning – ISBN – 978 – 1 – 4354 – 8169 – 5
5. Cyber Security and Homeland Security – edited by Lin V Choi – ISBN – 1 – 59454 – 728 – 9
6. Cyber Security – Public Sector threats and responses edited by Kim Andreasson, published by CRC Press , ISBN – 978 -1 – 4398 – 4663 – 6

And other books and journals as recommended by the teacher

DEF – 586 RESEARCH METHODOLOGY

Objective: The Goal of this course is to impart the knowledge about the methodology of research, and also to prepare students to apply their mind for applying the tools of modern research.

Unit-I

Research in Social Sciences
Concept and types of Research - Nature & Theories of Social Science Research -
Research in Strategic Studies

Unit-II

Literature Search
Definition & Nature of Information Sources - Types of Information Sources -
Information Gathering skills - Literature Survey & Review

Unit-III

Research Design
Identification of Research Problem - Formulation of Hypothesis – Sampling - Data
Collection- Tools - Data Analysis - Techniques

Unit-IV

Application of Statistics in Social Sciences
Basics of Statistics - Data Analysis Techniques - Testing of Hypothesis - Statistical
Packages - Statistical Inference

Unit-V

Documentation
Report writing - Citation Types, Compilation and Arrangement - Footnotes and
References

BOOKS RECOMMENDED:

- | | |
|--|--|
| 1. Ranjit Kumar | Research Methodology: A Step-by-Step Guide for Beginners |
| 2. C.R. Kothari | Research Methodology: Methods and Techniques |
| 3. Chris Welman, Fanie Kruger & Bruce Mitchell | Research Methodology |
| 4. Chris Welman, Kruger S. J., & Fanie Kruger | Research Methodology for the Business and Administrative Sciences |
| 5. Kumar | Research Methodology: A Step By Step Guide For Beginners |

And other books and journals as recommended by the teacher.