

**KAVAYITRI BAHINABAI CHAUDHARI NORTH MAHARASHTRA
UNIVERSITY, JALGAON**

Syllabus for SYBA

Programme in-

DEFENCE AND STRATEGIC STUDIES



‘A’ Grade NAAC Re-accredited (4th Cycle)

SYBA- (Semester- III and IV)

With Effect from Academic Year: 2025-2026

(Syllabus Structure Revised Under NEP-2020 for UG Course)

Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon
FACULTY OF Humanities, B.A. (Honors) PROGRAMME
Credit distribution structure for Three/ Four year Honours/Honours with Research Degree
Programme with Multiple Entry and Exit options
Defence and Strategic Studies
SYBA NEP 2020 Pattern

B.A. (Level 5.0) Sem- III

Sr No	Course Category	Paper Code	Title of the Paper	Total Credit
1	DSC - 7	DEF-211	Strategic Thinkers –I	2
2	DSC - 8	DEF-212	Conceptual Aspects of National Security -I	4
3	DSC - 9	DEF- 213-IKS	Basics of Defence Journalism	2
4	Minor -1	DEF-214	Geo-strategy –I	2
5	OE- 3	DEF-215	India's Internal Security Threats -I	2
6	VSC - 1	DEF-216	Fire Safety and Management	2
7	SEC – 1	DEF- 217	Basics of Cyber Security- I	4
Total				18

B.A. (Level 5.0) Sem- IV

Sr No	Course Category	Paper Code	Title of the Paper	Total Credit
1	DSC – 10	DEF-221	Strategic Thinkers –II	2
2	DSC – 11	DEF-222	Conceptual Aspects of National Security -II	4
3	OJT/INT	DEF- 223	On Job Training/Internship	4
4	Minor -2	DEF-224	Geo-strategy –II	2
5	OE- 4	DEF-225	India's Internal Security Threats- II	2
6	VSC - 2	DEF-226	Use of Digitalization in Defence and Strategic Studies	2
7	SEC – 2	DEF- 227	Basics of Cyber Security - II	2
Total				18

Defence and Strategic Studies
SYBA NEP 2020 Pattern
DSC- DEF-211- Strategic Thinkers -I

Credits- 02
Total Hrs- 30

Objective-

1. To introduce students to the foundational concepts and definitions in the field of strategic thought, enabling them to understand how military, political, and cultural elements influence strategy formulation throughout history.
2. To explore the evolution and diversity of strategic culture, examining how different civilizations and thinkers interpreted the nature of war, peace, and statecraft in accordance with their geopolitical and socio-cultural contexts.
3. To examine the contributions of classical strategic thinker—Kautilya—whose writings continue to shape modern military strategy, diplomatic practice, and political leadership.
4. To develop a critical understanding of Kautilya's Arthashastra, focusing on his integrated approach to war, diplomacy, internal administration, and the strategic role of society and state in national security.

Unit 1- Introduction to Strategic Thoughts

(15 Hrs.)

- a) Concept and Definitions
- b) Overview of Strategic Culture
- c) Types of Strategy

Unit 2 – Kautilya's Philosophy of War

(15 Hrs.)

- a) Kautilya's view on War and Peace
- b) Kautilya's Diplomacy and Policy of Extension of Warfare
- c) Kautilya's view on Role of State and Society

Reference-

1. Carl Von Clausewitz (Author), Col J J Graham (Translator), On War, Wilder Publications, 2008.
2. Carl von Clausewitz, On War: Complete First Four Unabridged Books, 4 April 1835
3. Antoine-Henri de Jomini, George Henry Mendell (Translator), The Art of War, Digital Pulse Publishing, June 26, 2005
4. Thomas Hippler. Bombing the People: Giulio Douhet and the Foundations of Air-Power Strategy, 1884-1939, Cambridge University Press, 2013.
5. Louis A. Sigaud, Air Power and Unification: Douhet's Principles of Warfare and Their Application to the United States, The Military Service Publishing Co., 1949
6. Shekhar Adhikari (2004), Modern Strategic Thought: Machiavelli to Nuclear Warfare, New Delhi: Kilaso Books. 2002.
7. H. Liddell Hart, Strategy: The Indirect Approach, Pentagon Press, 2013
8. M. Earle (1943), Makers of Modern Strategy: From Machiavelli to Nuclear Age, Princeton: Princeton University Press.
9. Beatrice Heuser (2010), The Strategy Makers: Thoughts on War from Machiavelli to Clausewitz, California: Praeger
10. Dharmadhikari Kavita D., Strategic Thinkers, Payal Publications, Pune, July 2018

Defence and Strategic Studies
SYBA NEP 2020 Pattern
DSC- DEF- 212 Conceptual Aspects of National Security -I

Credits- 04

Total Hrs- 60

Objectives –

1. Understand the meaning, nature, and scope of national security and its distinction from national defence.
2. Identify key elements shaping national security, including geography, economy, politics, and technology.
3. Analyze contemporary security threats at national, regional, and global levels.
4. Examine the role and impact of military alliances like NATO, the Warsaw Pact, and CSTO.
5. Encourage strategic thinking and assess how security perceptions influence policy and international relations.

Unit- 1 National Security

(15 Hrs.)

- a) Introduction
- b) Meaning , Nature
- c) Scope : Conceptual Aspects
- d) Different between National Security and National Defence

Unit- 2 Elements of National Security.

(15 Hrs.)

- a) Geography
- b) Mineral resources
- c) Social, Political and Economic Factors
- d) Scientific and Technological Development
- e) Military Preparedness

Unit- 3 Concept of National Security with special reference to contemporary thinking.

(15 Hrs.)

- a) Introduction
- b) National Defence
- c) Threats Perception
- d) Regional Security
- e) Global Security

Unit- 4 Military Alliances and their role in 21st century.**(15 Hrs.)**

- a) Introduction
- b) Meaning and Significance
- c) NATO, WARSAW Pact.and Collective Security Threats Organisation (CSTO)
- d) Security and Contemporary World.

Reference -

1. Hans J Morgenthau, Politics Among Nations: The Struggle for Power and Peace 5th Revised Ed. (New York: Knopf Inc., 1973)
2. Henz, John H, The Nation-State and the crisis of World Politics, David McKay Company Inc, New York, January 1976
3. Jayaramu, P.S., India's National Security and Foreign Policy, New Delhi: ABC Publishers, 1978.
4. Barry, Buzon, People, State and Fear: The National Security Problems in International Relations, Sussex; Wheatsheaf Books, 1983.
5. Shrikant Paranjpe (ed.) India' s Internal Security: Issues and Perspectives (Kalinga, New Delhi,2009)
6. डॉ. बाबू राम पांडेय , डॉ. रामसुरत पांडेय राष्ट्रीय रक्षा एवं आंतरराष्ट्रीय संबंध, प्रकाश बुक डेपो, बरेली २००५.
7. डॉ. सूरज कुमार मिश्रा, राष्ट्रीय रक्षा एवं सुरक्षा, मॉडर्न पब्लिशर्स नवी दिल्ली, २०१०
8. डॉ. सुरेन्द्र कांबळे, युद्ध आणि शांततेचा समकालीन अभ्यास, सुमेध प्रकाशन, पुणे २०१६
9. डॉ. बी. डी. तोडकर, संरक्षण आणि सामरिक शास्त्र मुलभूत संकल्पना आणि भारत प्रशांत पब्लिकेशन , जळगाव, २०१९
10. डॉ. व्ही. वाय. जाधव, भारताची राष्ट्रीय सुरक्षा स्नेहवर्धन प्रकाशन , पुणे २०११
11. डॉ. के. बी. पाटील, डॉ. के. डी. धर्माधिकारी, डॉ. जी. जे. गावीत , भारतीय राष्ट्रीय सुरक्षा, अथर्व पब्लिकेशन, जळगाव, २०१९

Defence and Strategic Studies
SYBA NEP 2020 Pattern
DSC-DEF-213- Basics of Defence Journalism

Credits- 02

Total Hrs- 30

Objectives-

1. The basic Learning Objective of this course is to make aware of the various defence happenings.
2. Students will be aware of the vast canvass like defence journalism.
3. To prepare the students in handling a specialized field of defence journalism.
4. Develop investigation skills among the students.
5. This paper aims to offer a broader understanding of defence news and war front reporting.
6. Understanding conceptual knowledge related to the defence sector to assess its applicability and utility in the defence sector of society and the nation.
7. Understanding various geographical conditions and various geopolitical and strategic military movements in that era.

Unit- 1 Basics of Journalism

(15 Hrs.)

- a) Meaning and Concept
- b) Definitions, Brief History, Nature
- c) Scope of Journalism
- d) Responsibilities of Journalists

Unit- 2 Defence Journalism

(15 Hrs.)

- a) Meaning and Concept
- b) Defence News and War front Reporting
- c) Role of Electric & Print Media for Nation Building

Reference -

1. Menon P.K., Practical Journalism, Jaipur, Aavishkar Publishers and Distributers, 2005
2. Dhara, R., Journalism, Calcutta: Industry Publishers, 1945
3. Basu, R. N., Handbook of Journalism, Jaipur: Pointer Publishers, 2005.
4. Kamath M.V. The Journalists Handbook, New Delhi: Vikas, 1980
5. Deepa Viswam, Role of the Media in Kashmir Crisis, Kalpaz Publication, 2010.
6. Bhatt, S.C., Practical Journalism, Jaipur: Aavishkar, 2005.
7. Chatterjee, R.K., Mass Communication, New Delhi: National Book Trust, 1973.
8. Dhara, R., Journalism, Calcutta: Industry Publishers, 1945.
9. Waren, K Agrie., (ed)., The Press and the Public Interest, Washington, D.C., Public Affairs Press, 1968.
10. Vijay Khare Impact of social media on Peace and Security Pentagon Press 2022

Defence and Strategic Studies
SYBA NEP 2020 Pattern
MIN- DEF-214- Geo – Strategy-I

Credits- 02

Total Hrs- 30

Objectives-

1. To introduce students to the foundational concepts of geo-strategy and military geography, focusing on their relevance in shaping national and international security policies in the modern world.
2. To define and differentiate between key terms such as strategy, grand strategy, and tactics, enabling students to understand the layered nature of military and political planning within the framework of national defence.
3. To help students comprehend the theoretical and practical scope of geo-strategy, including its definitions, core principles, and applicability to real-world situations, especially within the context of Indian strategic needs.
4. To explore the significance of geographic factors—such as location, terrain, resources, and borders—in strategic decision-making, emphasizing how these elements influence both peacetime planning and wartime operations.
5. To foster the ability to analyze strategic policies of nation-states, with a focus on India's geographical and strategic environment, thereby promoting critical awareness of the link between geography and national security.
6. To examine the development and role of grand strategy in historical and contemporary contexts, highlighting how long-term national goals, resources, and military planning converge to secure the interests of a state.
7. To enhance students' understanding of tactics and operational planning, as distinct from broader strategic frameworks, and to appreciate their roles in the successful execution of defence policies.

To cultivate strategic thinking skills among students, empowering them to assess geopolitical challenges and security issues using concepts grounded in geo-strategic theory and military geography.

Unit 1 -Geo - strategy

(15 Hrs.)

- a) Meaning.
- b) Concept.
- c) Definitions.
- d) Scope.

Importance of Geo strategy.

Unit 2-Strategy, Grand Strategy and Tactics

(15 Hrs.)

- a) Definitions of Strategy

- b) Types of Strategy
- c) Grand Strategy
- d) Difference between Strategy and Grand Strategy
- e) Tactics

References-

1. Singh Jusjit, *Air Power*, Lancer international, Delhi 1988.
2. Peder and Percy, *Military Geography*, East west Press Pvt. 1981.
3. Sharma H., *Yuddha Avam Bhautiki Tattva*, Prakash Book Depot, Barreily, 2001
4. Guputa P., *Sainiki Bhoogol*, Prakash Book Depot, Barreily, 2001
5. Das S.T., *Studies in Defence Strategy*, Sagar Publication Delhi
6. Modie A E, *Geography behind politics*, B. I. Publication, Delhi 1965.
7. Bhagwat A. V. *Rajkiya Bhoogol*, Narendra Prakashan, Pune, 1978
8. Sharma Gautam & Nagar R S, *Indias Northern security*, Reliance Publishing Delhi 1986.
9. Sali M. L., *Military Geography*, Manas Publication, New Delhi, 2004.
10. Sali M.L., *Indo – China Border Disputes*, New Delhi, APH. Publishing House, 1998.
11. Ghrpure V. T., *Rajkiya Bhugol*, Pimpalapure & Co., Nagpur, 2001.
12. Sukhwal, B.L., *India: Political Geography*, Bombay, Allied Pub., 1971
13. Paranjape Srikant, *India and South Asia Since 1971*, Radiant publishers, New Delhi, 1985
14. Agrawal Amita., *Indian Ocean and World Peace*, New Delhi, Kanishka Publishers & Distributers, 2000.
15. Palleri Prabhakaran., *Role of the Coast Guard in the Maritime Security of India*, New Delhi, knowledge World, 2004.
16. Roychaudhury Rahul ., *India's Maritime Security*, New Delhi, knowledgeWorld, 2000.
17. Roychaudhury Rahul ., *Sea Power and Indian Ocean* , London, Bresseys,

Defence and Strategic Studies
SYBA NEP 2020 Pattern
OE- DEF-215- India's Internal Security Threats- I

Credits- 02

Total Hrs- 30

Objectives-

1. To understand the concept, scope, and importance of internal security in India.
2. To examine the origin, growth, and impact of Maoist movements.
3. To understand the meaning and dynamics of regionalism in India.
4. To analyze the causes, types, and effects of regionalism on national integration and security.

Unit 1- Introduction to Internal Security and Threats

(15 Hrs.)

- a) Understanding Internal Security: Definitions, scope, and significance.
- b) Maoism in India- Introduction, Meaning, Scope
- c) Maoist Movements in India

Unit 2- Regionalism in India

(15 Hrs.)

- a) Introduction and Meaning
- b) Concept of Regionalism
- c) Causes of Regionalism
- d) Types of Regionalism
- e) Effects of Regionalism

References

1. M.K. Narayanan – Internal Security and Terrorism
2. Ajai Sahni – India's Internal Security: Issues and Perspectives
3. Vappala Balachandran – National Security and Intelligence Management
4. Raman – India's Security Challenges
5. Paul R. Brass – The Politics of India Since Independence
6. Rajni Kothari – Politics in India
7. Reports and publications from MHA and IDSA

Defence and Strategic Studies
SYBA NEP 2020 Pattern
VSC- DEF-216 -Fire Safety and Management

Credits- 02

Total Hrs- 30

Objectives

1. To introduce students to the basic principles of fire safety and fire prevention.
2. To develop an understanding of fire hazards, risks, and the necessary management Import knowledge about firefighting techniques and emergency planning.
3. To familiarize students with fire safety equipment, laws, and regulations.
4. To prepare students for effective participation in fire safety initiatives and practices.

Unit 1-Fire Safety

(15 Hours)

- a) Introduction
- b) Meaning and Definitions of Fire Safety
- c) Importance and Significance of Fire Safety
- d) Causes and Types of Fire
- e) Components of Fire: Fire Triangle (Heat, Fuel, Oxygen)
- f) Common Fire Hazards in Residential and Workplace Environments

Unit 2-Firefighting Equipment and Techniques

(15 Hours)

- a) Fire Extinguishers: Types, Uses, and Maintenance Water, Foam, Dry Chemical, CO₂, and Specialized Extinguishers.
- b) Fire Detection Systems: Alarms, Sensors, and Fire Suppression Systems
- c) Basic Firefighting Techniques and Fire Drill Practices
- d) Use of Hydrants, Hosepipes, Sprinklers, and Standpipes
- e) Personal Protective Equipment (PPE) for Firefighters

References-

Books:

1. Fire Protection Handbook " by National Fire Protection Association (NFPA)
2. Principles of Fire Prevention& by David Diamantes
3. Fire and Explosion Hazards Handbook by Sam Mannan
4. Fire Safety Management Handbook; by Daniel E. Della-Giustina
5. अग्निसुरक्षा आणि व्यवस्थापन – लेखक: डॉ. आर. के. शर्मा
6. फायर सेफ्टी आणि आपत्ती व्यवस्थापन— लेखक: सुभाष पाटील

National and International Standards:

1. National Building Code of India (NBC), 2016 – Part 4: Fire and Life Safety
2. Occupational Safety and Health Administration (OSHA) Guidelines
3. Bureau of Indian Standards (BIS) – IS 1646: Code of Practice for Fire Safety of Buildings.

Web Resources:

1. National Fire Protection Association (NFPA): www.nfpa.org
2. Occupational Safety and Health Administration (OSHA): www.osha.gov
3. Bureau of Indian Standards (BIS): www.bis.gov.in

National Disaster Management Authority (NDMA): www.ndma.gov.in

1. महाराष्ट्र अग्निशमन आणि आपत्कालीन सेवा: www.maharashtra.gov.in
2. राष्ट्रीय आपत्ती व्यवस्थापन प्राधिकरण (NDMA): www.ndma.gov.in
3. भारतीय मानक ब्यूरो (BIS): www.bis.gov.in
4. कायदे व सरकारी नियम:
5. राष्ट्रीय बांधकाम संहिता (NBC) - भाग 4: अग्निसुरक्षा आणि जीवन सुरक्षा— भारतीय मानक ब्यूरो (BIS)
6. महाराष्ट्र अग्निसुरक्षा आणि जीवन सुरक्षा उपाय अधिनियम, २००६
7. भारतीय कारखाना अधिनियम, १९४८ औद्योगिक आगी प्रतिबंधासाठी महत्वाचे कायदे.

अधिक वाचनासाठी:

1. अग्निशमन तंत्र आणि यंत्रणा – लेखक: आर. टी. कुलकर्णी
2. आपत्ती व्यवस्थापन आणि सुरक्षितता— लेखक: संदीप महाजन

Defence and Strategic Studies
SYBA NEP 2020 Pattern
SEC- DEF-217 -Basics of Cyber Security - I

Credits- 04

Total Hrs- 60

Objectives-

- 10 To provide fundamental knowledge about cyber security, cyber threats, and protection mechanisms.
- 10 To understand key concepts in network security, data privacy, and cryptography.
- 10 To develop the ability to assess and respond to common cyber attacks.
- 10 To explore legal and ethical dimensions of cybersecurity.
- 10 To promote cyber hygiene and safe practices among students and professionals.

Unit 1: Introduction to Cyber Security

(15 Hours)

- a) Definitions, scope, and importance of cyber security
- b) Components of cyber space: Internet, network, data, software
- c) Cyber crimes: types, classification, and real-world examples

Unit 2: Cyber Threats and Attacks

(15 Hours)

- a) Malware: Viruses, Worms, Trojans, Ransomware, Spyware
- b) Phishing, Pharming, Spoofing, Social engineering attacks
- c) Denial of Service (DoS) and Distributed DoS attacks
- d) Advanced Persistent Threats (APT)

Unit 3: Network and Communication Security

(15 Hours)

- a) Network fundamentals: LAN, WAN, IP, TCP/IP
- b) Firewalls, Intrusion Detection Systems (IDS), Intrusion Prevention Systems (IPS)
- c) Network security protocols: HTTPS, SSL/TLS, VPN
- d) Wireless network vulnerabilities and security measures

Unit 4: Operating System and Application Security

(15 Hours)

- a) Security vulnerabilities in Windows, Linux, and Android
- b) Secure software development lifecycle (SDLC)
- c) Web application vulnerabilities: SQL Injection, Cross-Site Scripting (XSS)
- d) Browser and email security

References:

1. William Stallings – *Network Security Essentials: Applications and Standards*
2. Michael E. Whitman & Herbert J. Mattord – *Principles of Information Security*
3. Mark Stamp – *Information Security: Principles and Practice*
4. Chwan-Hwa (John) Wu & J. David Irwin – *Introduction to Computer Networks and Cybersecurity*
5. Behrouz A. Forouzan – *Cryptography and Network Security*
6. Indian Cyber Law – *IT Act, 2000 (amended 2008), Government of India*
7. CERT-In Guidelines and NIST Cybersecurity Framework (Official Publications)

Semester-IV

Defence and Strategic Studies
SYBA NEP 2020 Pattern
DSC- DEF-221- Strategic Thinkers -II

Credits- 02

Total Hrs- 30

Objectives-

1. To introduce students to the foundational ideas of modern military thought through the study of prominent strategic theorists.
2. To understand Clausewitz's theory of war, the relationship between war and policy, and his views on strategy, tactics, offence, and defence.
3. To study Jomini's concepts of warfare, with emphasis on strategy, tactics, logistics, and his principles of battle and operational art.
4. To compare and evaluate different schools of military thought and their impact on modern warfare and strategic planning.

Unit 1- Carl von Clausewitz

(15 Hrs.)

- a) On War- Concept and Theory
- b) War and Policy
- c) Strategy and Tactics
- d) Offence and Defence

Unit 2 – Antonio Heanri Jomini

(15 Hrs.)

- a) Concepts of Jomini
- b) Jomini- Strategy, Tactics and Logistics
- c) Battle and Combined Arms

Reference-

11. Carl Von Clausewitz (Author), Col J J Graham (Translator), On War, Wilder Publications, 2008.
12. Carl von Clausewitz, On War: Complete First Four Unabridged Books, 4 April 1835
13. Antoine-Henri de Jomini, George Henry Mendell (Translator), The Art of War, Digital Pulse Publishing, June 26, 2005
14. Thomas Hippler. Bombing the People: Giulio Douhet and the Foundations of Air-Power Strategy, 1884-1939, Cambridge University Press, 2013.
15. Louis A. Sigaud, Air Power and Unification: Douhet's Principles of Warfare and Their Application to the United States, The Military Service Publishing Co., 1949
16. Shekhar Adhikari (2004), Modern Strategic Thought: Machiavelli to Nuclear Warfare, New Delhi: Kilaso Books. 2002.
17. H. Liddell Hart, Strategy: The Indirect Approach, Pentagon Press, 2013
18. M. Earle (1943), Makers of Modern Strategy: From Machiavelli to Nuclear Age, Princeton: Princeton University Press.
19. Beatrice Heuser (2010), The Strategy Makers: Thoughts on War from Machiavelli to Clausewitz, California: Praeger
- 10 Dharmadhikari Kavita D., Strategic Thinkers, Payal Publications, Pune, July 2018

Defence and Strategic Studies
SYBA NEP 2020 Pattern
DSC-DEF-222- Conceptual Aspects of National Security -II

Credits- 04

Total Hrs- 60

Objectives-

1. To understand the nature and scope of internal threats such as terrorism, illegal migration, smuggling, and regional instability.
2. To explore external challenges to national security including cyber-attacks, terrorism, organized crime, and natural disasters.
3. To analyze the elements that constitute national power—population, resources, industrial and military capabilities.
4. To comprehend key strategic concepts such as the nation-state, national interest, and approaches to insurgency and counter-insurgency.
5. To develop a multidimensional understanding of security issues that impact the nation's sovereignty, stability, and development.

Unit- 1 Internal Challenges of National Security

(15 Hrs.)

- a) Introduction
- b) Cross Border Terrorism
- c) Illegal migrations and refugees
- d) Drugs and Arms smuggling.
- e) Instability in the neighbourhood.

Unit- 2 External Challenges of National Security.

(15 Hrs.)

- a) Introduction
- b) Military or Cyber Attack
- c) Terrorist Attack
- d) Organize Crime

Natural Disaster.

Unit- 3 Elements of National Power.

(15 Hrs.)

- a) Population
- b) Extent Territories
- c) National Resources

- d) Industrial Capability
- e) Financial Capability
- f) Science and Technology Capability
- g) Military Capability

Unit- 4 Conceptual Analysis

(15 Hrs.)

- a) Introduction
- b) Nation - State
- c) National Interest
- d) Insurgency and counter Insurgency

References –

12. Hans J Morgenthau, Politics Among Nations: The Struggle for Power and Peace 5th Revised Ed. (New York: Knopf Inc., 1973)
13. Henz, John H, The Nation-State and the crisis of World Politics, David McKay Company Inc, New York, January 1976
14. Jayaramu, P.S., India's National Security and Foreign Policy, New Delhi: ABC Publishers, 1978.
15. Barry, Buzon, People, State and Fear: The National Security Problems in International Relations, Sussex; Wheatsheaf Books, 1983.
16. Shrikant Paranjpe (ed.) India' s Internal Security: Issues and Perspectives (Kalinga, New Delhi,2009)
17. डॉ. बाबू राम पांडेय , डॉ. रामसुरत पांडेय राष्ट्रीय रक्षा एवं आंतरराष्ट्रीय संबंध, प्रकाश बुक डेपो, बरेली २००५.
18. डॉ. सूरज कुमार मिश्रा, राष्ट्रीय रक्षा एवं सुरक्षा, मॉडर्न पब्लिशर्स नवी दिल्ली, २०१०
19. डॉ. सुरेन्द्र कांबळे, युद्ध आणि शांततेचा समकालीन अभ्यास, सुमेध प्रकाशन, पुणे २०१६
20. डॉ. बी. डी. तोडकर, संरक्षण आणि सामरिक शास्त्र मुलभूत संकल्पना आणि भारत प्रशांत पब्लिकेशन , जळगाव, २०१९
21. डॉ. व्ही. वाय. जाधव, भारताची राष्ट्रीय सुरक्षा स्नेहवर्धन प्रकाशन , पुणे २०११
22. डॉ. के. बी. पाटील, डॉ. के. डी. धर्माधिकारी, डॉ. जी. जे. गावीत , भारतीय राष्ट्रीय सुरक्षा, अथर्व पब्लिकेशन, जळगाव, २०१९

Defence and Strategic Studies
SYBA NEP 2020 Pattern
OJT/INT- DEF-223 -On Job Training/Internship

Credits- 04

Total Hrs- 60

Internal Examination :40

External Examination :60

A Separate guideline will be issued by the university

Defence and Strategic Studies
SYBA NEP 2020 Pattern
MIN- DEF-224 - Geo – Strategy- II

Credits- 02

Total Hrs- 30

Objectives-

1. To understand the meaning and significance of geostrategic mineral resources in the context of national and global security.
2. To explore the geopolitical importance of mineral-rich regions, particularly in West Asia, and their role in shaping international relations.
3. To study the strategic uses of critical minerals in defence, industry, and energy sectors.
4. To examine the geostrategic importance of key locations such as Diego Garcia, Andaman & Nicobar Islands, Lakshadweep, Jammu & Kashmir, and Afghanistan.
5. To assess how the control and location of ports, islands, and conflict-prone states influence regional power dynamics and strategic planning.

Unit 1 - Geo - strategic Minerals Resources

(15 Hrs.)

- a) Introduction and Meaning of Geostrategic Minerals.
- b) Various Geostrategic Minerals
- c) Uses and Importance of Geostrategic Minerals.
- d) Geostrategic Importance in West Asia.

Unit 2 - Geo - strategic Importance various port, Island and state

(15 Hrs.)

- a) Diego- Garcia
- b) Andaman and Nicobar
- c) Lakshadweep.
- d) Jammu and Kashmir.
- e) Afghanistan.

References

1. Singh Jusjit, *Air Power*, Lancer international, Delhi 1988.
2. Peder and Percy, *Military Geography*, East west Press Pvt. 1981.
3. Sharma H., *Yuddha Avam Bhautiki Tattva*, Prakash Book Depot, Barreily, 2001
4. Guputa P., *Sainiki Bhoogol*, Prakash Book Depot, Barreily, 2001
5. Das S.T., *Studies in Defence Strategy*, Sagar Publication Delhi
6. Modie A E, *Geography behind politics*, B. I. Publication, Delhi 1965.
7. Bhagwat A. V. *Rajkiya Bhoogol*, Narendra Prakashan, Pune, 1978
8. Sharma Gautam & Nagar R S, *Indias Northern security*, Reliance Publishing Delhi 1986.
9. Sali M. L., *Military Geography*, Manas Publication, New Delhi, 2004.
10. Sali M.L., *Indo – China Border Disputes*, New Delhi, APH. Publishing House, 1998.
11. Ghrpure V. T., *Rajkiya Bhugol*, Pimpalpure & Co., Nagpur, 2001.
12. Sukhwat, B.L., *India: Political Geography*, Bombay, Allied Pub., 1971
13. Paranjape Srikant, *India and South Asia Since 1971*, Radiant publishers, New Delhi, 1985
14. Agrawal Amita., *Indian Ocean and World Peace*, New Delhi, Kanishka Publishers & Distributers, 2000.
15. Palleri Prabhakaran., *Role of the Coast Guard in the Maritime Security of India*, New Delhi, knowledge World, 2004.
16. Roychaudhury Rahul ., *India's Maritime Security*, New Delhi, knowledgeWorld, 2000.
17. Roychaudhury Rahul ., *Sea Power and Indian Ocean*, London, Bresseys,

Defence and Strategic Studies
SYBA NEP 2020 Pattern
OE- DEF-225 India's Internal Security Threats- II

Credits- 02
Total Hrs- 30

Objectives-

1. To understand the major social problems in India—such as poverty, corruption, illiteracy, and urbanization—and their impact on internal security and national stability.
2. To analyze how these social issues contribute to unrest, radicalization, and other security challenges within the country.
3. To examine the nature and scope of terrorism in India, with a focus on major terrorist organizations, their ideologies, goals, and operational methods.
4. To study India's legal and institutional counter-terrorism measures, including key legislations like the National Security Act (NSA), Unlawful Activities (Prevention) Act (UAPA), and the role of the National Investigation Agency (NIA).
5. To explore India's participation in global counter-terrorism efforts and its cooperation with international organizations and nations in combating terrorism.

Unit 1- Social Problems in India and its effects on Internal Security

(15 Hrs.)

- a) Introduction
- b) Poverty
- c) Pollution
- d) Corruption
- e) Illiteracy
- f) Gender Inequality
- g) Violences against Women
- h) Effects on Internal Security

Unit 2- Terrorism and Counter-Terrorism Measures

(15 Hrs.)

- a) Terrorism in India: Major terrorist organizations, their motives, and methods.
- b) Counter-Terrorism Strategies: National Security Act, UAPA, and NIA.
- c) International Cooperation on Counterterrorism: India's role in global counter- terrorism efforts.

References

1. Gupta Parashuram, Sainiky Bhoogol, Prakash Book Depot, Bareilly, 1997
2. Das S.T., Studies in Defene Strategy, Sagar Publication Delhi.
3. Modie A E, Geography behind politics, B I Publication, Delhi 1965.
4. Bhagwat A. V., Rajkiya Bhoogol, Narendra Prakashan, Pune, 1978.
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6. Sali M. L., Military Geography, Manas Publication Delhi, 2009.

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Defence and Strategic Studies

SYBA NEP 2020 Pattern

VSC- DEF-226- Use of Digitalization in Defence and Strategic Studies

Credits- 02

Total Hrs- 30

Objectives-

1. To understand the evolution and current landscape of cyber warfare in the context of global security dynamics.
2. To analyze the impact of cyber threats and digital warfare on national security infrastructures, including critical sectors like defence, energy, finance, and communications.
3. To explore the components of digital systems used in cyber defence and offensive operations, including network defence mechanisms, encryption, and cyber surveillance tools.
4. To develop insight into national and international strategies being formulated to counter cyber threats, including policy frameworks, military doctrines, and international cyber laws.
5. To assess the role of cyber warfare in hybrid warfare and its implications for geopolitical power structures.

Unit-1-Cyber Security and Digital Warfare.

(15 Hrs.)

- a) Rise of Cyber warfare.
- b) Impact on National Security
- c) Digital Systems and Developing strategies.
- d) Counter cyber threats.

Unit-2-Technology and Military Operations

(15 Hrs.)

- a) Digitalization in Military operations.
- b) Use of Drones.
- c) AI Powered systems.
- d) Technology in Warfare and Strategic Planning.

References

1. Kaspersen, A. (2020). AI and the Future of Military Operations. World Economic Forum White Paper.
2. Scharre, P. (2018). Army of None: Autonomous Weapons and the Future of War. W. W. Norton & Company.
3. Horowitz, M. C. (2018). The Diffusion of Military Power: Causes and Consequences for International Politics. Princeton University Press.
4. Singer, P. W. (2009). Wired for War: The Robotics Revolution and Conflict in the 21st Century. Penguin Books.
5. Medeiros, E. S. (2019). Emerging Military Technologies: Implications for Strategic Stability and Arms Control. RAND Corporation.
6. Reports by SIPRI (Stockholm International Peace Research Institute) and IISS (International Institute for Strategic Studies) on military technology trends.
7. Ministry of Defence white papers and reports on military modernization (specific to India or relevant country).

Defence and Strategic Studies
SYBA NEP 2020 Pattern
SEC- DEF-227 -Basics of Cyber Security - II

Credits- 02

Total Hrs- 30

Objectives

1. To provide fundamental knowledge about cyber security, cyber threats, and protection mechanisms.
2. To understand key concepts in network security, data privacy, and cryptography.
3. To develop the ability to assess and respond to common cyber attacks.
4. To explore legal and ethical dimensions of cybersecurity.
5. To promote cyber hygiene and safe practices among students and professionals.

Unit 1: Cyber Security Management and Policies

(15 Hrs.)

- a) Organizational cyber security policies and governance
- b) Security audits, risk management, and business continuity
- c) Incident response planning and disaster recovery
- d) Role of Chief Information Security Officer (CISO)

Unit 2: Emerging Trends and Career Opportunities in Cyber Security

(15 Hrs.)

- a) Artificial Intelligence in cyber defence
- b) Internet of Things (IoT) and cloud security
- c) Blockchain for cyber security
- d) Cyber security certifications (CEH, CISSP, CompTIA Security+, etc.)
- e) Career prospects in the field of cyber security

References:

1. William Stallings – Network Security Essentials: Applications and Standards
2. Michael E. Whitman & Herbert J. Mattord – Principles of Information Security
3. Mark Stamp – Information Security: Principles and Practice
4. Chwan-Hwa (John) Wu & J. David Irwin – Introduction to Computer Networks and Cybersecurity
5. Behrouz A. Forouzan – Cryptography and Network Security
6. Indian Cyber Law – IT Act, 2000 (amended 2008), Government of India
7. CERT-In Guidelines and NIST Cybersecurity Framework (Official Publications)