

Pre. Ph.D. Course Work
Defence and Strategic Studies

Unit - I: Foundational Concepts & Warfare

1. **Key Concepts of National Security:** Defining National Security, National Defence and National Interest, National Character and Evolution of the National Security concept in 20th century and beyond.
2. **Contemporary Warfare:** Conventional Warfare in the Nuclear Age, Limited War., Revolutionary Warfare and Low-Intensity Operations, Guerrilla Warfare, Insurgency and Counter-Insurgency, Cognitive Warfare, Hybrid Warfare, Multi-Domain Warfare, Space War.

Unit- II Internal Security of India

1. Conceptual framework
2. Various Issues of Internal Security (Terrorism, J&K Issue, LWE, Insurgency in North-East India)
3. Border Management
4. Role of Armed Forces and CAPFs
5. Disaster Management

Unit - III: Strategy & Arms Control

1. Issues of **Mobilization of Resources** during War and Peace.
2. **Deterrence:** Concepts and elements of Nuclear & Conventional deterrence.
3. **Disarmament & Arms Control:** Concepts, objectives, approaches and various international treaties.

Unit - IV: Regional Security & India's Foreign Relations

1. **India's Maritime Security:** Strategy in the 21st century focusing on the Indian Ocean, Indo-Pacific region and Security of Sea Lanes.
2. **India-Pakistan Relations:** Genesis of the conflict and the Kashmir question, Indo-Pak military balance and Pakistan's Nuclear Strategy, State-sponsored terrorism

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and Pakistan's power structure, Contentious issues: Siachen, Sir Creek, River Waters, etc.

3. **China and India:** Military balance and Chinese policy towards South Asia.

4. South Asia, South East Asia, West Asia, Central Asia.

Unit - V: Global Security & Economic Factors

1. **Economic Causes of War** in modern times.

2. **Economic Diplomacy:** India's role in regional and global economic forums and organizations.

3. **Organized Crime:** Money laundering, narco-trafficking, human trafficking and small arms proliferation.

4. **Global Security Concerns:** Palestinian-Israeli conflict & Arab Spring, Developments in Central Asian Republics (CARs), Rise of Fundamentalism, Challenges in the Korean Peninsula, Taiwan and Power Rivalry in the South China Sea.

Unit - VI: Science, Technology, Cyber Security & Space Security

1. Relevance of **Science and Technology** in National Security.

2. Missile Technology and Space warfare.

3. **Cyber Security:** Vulnerabilities of IT and the internet, Need and importance of cyber security, Different kinds of cyber security vulnerabilities and Cyber wars (including propaganda).

4. Artificial Intelligence (AI) , Drone, Robotics and their uses in Modern Warfare.

5. **Security Measures:** Technology, laws, regulations and global issues in cyber security.

Suggested readings:

- पाण्डेय, सूरत (2022), राष्ट्रीय सुरक्षा एवं अंतर्राष्ट्रीय सम्बन्ध, प्रकाश बुक डिपो, बरेली।
- शरण, हरी एवं सिन्हा, हर्ष कुमार (2019), हिन्द-प्रशांत क्षेत्र में भारतीय सामुद्रिक रणनीति, राज प्रकाशन।
- अधिकारी, शेखर (2012), आधुनिक र्वातेजिक चिन्तक, एस. पी. जे. पब्लिकेशन्स, इलाहाबाद।

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- Buzan, Barry. (1991). *People, States and Fear: An Agenda for International Security Studies in the Post-Cold War Era*. London: Harvester Wheatsheaf.
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- Collier, Paul. (2007). *The Bottom Billion: Why the Poorest Countries are Failing and What Can Be Done About It*. Oxford: Oxford University Press.
- Freedman, Lawrence. (2003). *The Evolution of Nuclear Strategy*. London: Palgrave Macmillan.
- Goldblat, Jozef. (2002). *Arms Control: The New Guide to Negotiations and Agreements*. London: Sage.
- Heuser, Beatrice. (2010). *The Evolution of Strategy: Thinking War from Antiquity to the Present*. Cambridge: Cambridge University Press.
- Kalyanaraman, S. (2021). *India's Military Strategy: Countering Pakistan's Challenge*. New Delhi: MP-IDSA.
- Kohli, S.N. (1978). *Sea Power and the Indian Ocean*. New Delhi: Tata McGraw-Hill.
- Maxwell, Neville. (1970). *India's China War*. Bombay: Jaico Publishing House.
- Nayan, Rajiv & Shekhar, Ravi. (2020). "Paradoxes of South Asian Security." *Asian Journal of Peacebuilding*, 8(2), 333-356.
- Osanka, F.M. (1962). *Modern Guerrilla Warfare*. New York: Free Press of Glencoe.
- Payne, Keith B. (2020). *Shadows on the Wall: Deterrence and Disarmament*. Fairfax, VA: National Institute Press.
- Sanger, David E. (2018). *The Perfect Weapon: War, Sabotage, and Fear in the Cyber Age*. New York: Crown.
- Schelling, Thomas C. (1966). *Arms and Influence*. New Haven: Yale University Press.
- Singer, P.W. & Friedman, Allan. (2014). *Cybersecurity and Cyberwar: What Everyone Needs to Know*. Oxford: Oxford University Press.
- Steinberg, Joseph. (2026). *Cybersecurity for Dummies*. Hoboken: Wiley.
- United Nations Office for Disarmament Affairs (UNODA). (2017). *Disarmament: A Basic Guide* (4th ed.). New York: United Nations.

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- **Upadhyaya, Shishir.** (2023). *India's Maritime Strategy: Balancing Regional Ambitions and China*. London: Routledge.
- **Van Evera, Stephen.** (1999). *Causes of War: Power and the Roots of Conflict*. Ithaca: Cornell University Press.

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Van Evera