

# **VIDYASAGAR UNIVERSITY**

Midnapore, West Bengal



*PROPOSED CURRICULUM & SYLLABUS (DRAFT) OF*

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## **BACHELOR OF ARTS WITH NCC (MULTIDISCIPLINARY STUDIES)**

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**3-YEAR UNDERGRADUATE PROGRAMME**  
*(w.e.f. Academic Year 2023-2024)*

*Based on*

**Curriculum & Credit Framework for Undergraduate Programmes  
(CCFUP), 2023 & NEP, 2020**

**VIDYASAGAR UNIVERSITY**  
**BACHELOR OF ARTS IN HUMANITIES with NATIONAL CADET CORPS (NCC)**  
**(Under CCFUP, 2023)**

Level	YR.	SEM	Course Type	Course Code	Course Title	Credit	L-T-P	Marks				
								CA	ESE	TOTAL		
B.A. in Humanities with NCC	3 <sup>rd</sup>	V	SEMESTER-V									
			Major-A4	NCCPMJ04	T: Military Sociology, Military Psychology, Communication Process, Field Engineering,: P: Practical (To be studied by students taken NCC as Discipline- A )	4	3-0-1	15	60	75		
			Major-A5	NCCPMJ05	T: Weapons, Armaments, Arms control & Disarmament; P: Practical (To be studied by students taken NCC as Discipline- A )	4	3-0-1	15	60	75		
			Major-A6	NCCPMJ06	T: Role of NCC in Nation Building (To be studied by students taken NCC as Discipline- A )	4	3-1-0	15	60	75		
			Major (Elective) -2	NCCMJE02	India’s Defence Mechanism OR Cyber Security & Crime (To be studied by students taken NCC as Discipline- A )	4	3-1-0	15	60	75		
			Minor-5 (Disc.-C5)	NCCMIN05	T Military Sociology, Military Psychology, Communication Process, Field Engineering,: P: Practical (To be studied by students taken NCC as Discipline- C )	4	3-0-1	15	60	75		
						Semester-V Total		20				375
		VI	SEMESTER-VI									
			Major-B4		To be decided (Same as Major–A4 for NCC taken as Discipline-B)	4	3-1-0	15	60	75		
			Major-B5		To be decided (Same as Major–A5 for NCC. taken as Discipline-B)	4	3-1-0	15	60	75		
			Major-B6		To be decided (Same as Major–A6 for NCC. taken as Discipline-B)	4	3-1-0	15	60	75		
			Major (Elective) -3	NCCMJE03	Non Traditional Security Threats OR : International Terrorism (To be studied by students taken NCC as Discipline- A )	4	3-1-0	15	60	75		
			Minor -6 (Disc.-C6)	NCCMIN06	T: Weapons, Armaments, Arms control & Disarmament; P: Practical (To be studied by students taken NCC as Discipline- C )	4	3-0-1	15	60	75		
						Semester-VI Total		20				375
						TOTAL of YEAR-3		40	-	-	-	700
		Eligible to be awarded Bachelor of Arts in Multidisciplinary Studies with NCC on Exit						126	Marks (Year: I+II+III)			2325

MJP = Major Programme (Multidisciplinary), MI = Minor, A/B = Choice of Major Discipline; C= Choice of Minor Discipline; CA= Continuous Assessment, ESE= End Semester Examination, T = Theory, P= Practical, L-T-P = Lecture-Tutorial-Practical

VIDYASAGAR UNIVERSITY, PASCHIM MIDNAPORE, WEST BENGAL

## MAJOR (MJ)

**Major A4/B4: Military Sociology, Military Psychology, Communication Process, Field Engineering**  
**Credits 04 (FM: 75)**

**MJ A4/B4T: Military Sociology, Military Psychology, Communication Process, Field Engineering**  
**Credits 03 (45Hrs.)**

### **Course contents:**

**Module - I: Military Sociology:** **a)** Study of Society, Social groups, social interaction: motivation, morality, Personality – Definition and determinants. Social aspects of war. Social effects of war. Post war social problems. Social background of military personnel of India. **b)** Armed Force and Society: Role of Indian Armed force society and inter-dependence, military aid to civil authorities. Civil – Military relation in India. **c)** Indian Armed Forces and Disaster Management: Disaster – aims and objectives, Disaster management – meaning, concept, elements and preventive measures. War and disaster. **d)** Overseas bases and relations – peace keeping – anti piracy and exploration mission. **e)** Military Coups: causes and its consequences on society. **f)** Problem of ex-service men of India. Benefits of service for *Jawans* and Officers. One man one person demands. Role of women in Armed forces: contemporary trends.

**Module - II: Military Psychology:** Military Psychology - Meaning, definition, historical development, role, aim and importance. Relevance of Psychology in the defense problems. Use of the psychology in the war and military use of Psychology. Application of the principles of psychology in the Military training. Personal adjustment factors in adjustment during army life, the recruits of adjustment to combat. Problem of adjustment and the problem of Re-adjustment of ex-soldiers.

**Module - III: Communication process:** Communication- main elements, types and methods of communications, media. Communication systems- internet, Faxi mail, Satellites. Characteristics of Wireless Technology (Mobile, Wi Fi, etc). Characteristics of Walkie /Talkie. Basic Radio Telephony (RT) Procedure. Military Language. Latest trends and development (Multi Media, Video Conferencing, IT). Information system and type of information. Signals- introduction to radio, telephony procedure. Field signals. Air raid warnings

**Module - IV: Field Engineering:** Principles and applications, camouflage and concealment. Section formation. Mines and types of mines fields, anti tanks and explosive

**Major A4/B4P: Military Sociology, Military Psychology, Communication Process, Field Engineering**  
**Credits 01 (30Hrs.)**

### **Practical:**

#### **a) Field craft, Battle craft, Patrolling and Field engineering:**

1. Judging distance and indication of targets.
2. Camouflage & Concealment
3. Fire discipline & Fire control order.

4. Observation and Concealment exercise.
5. Simple Verbal orders.
6. Field Signals
7. Section battle drill.

**b) Project:** Project report will be based on Field visit to military establishment/ places of military interests.

**c) Laboratory Note Book and Viva Voce:**

Students will be required to maintain records of all works done in connection with the topic taught in this paper

**Major A5/B5: Weapons, Armaments, Arms control & Disarmament Credits 04 (Full Marks: 75)**

**Major A5/B5T: Weapons, Armaments, Arms control & Disarmament Credits 03 (Lectures: 45)**

**Course contents:**

**A. Weapons and Armaments:**

1. **Evolution of arms and armaments** in art of war.
2. **Modern weapons –**
  - a) Assault Rifles – INSAS, AK-47, AK-103
  - b) Sniper Rifles- Vidhwansak, Barrett m95
  - c) Machine Guns- INSAS, LMG
  - d) Artillery- Bofors 155mm Howitzer, M777 Howitzer, Dhanush Artillery gun
  - e) Missile- Brahmos, Nag, Akash, Prithvi
  - f) UAVs- Searcher MK11, Heron, Nishant, Netra, skylark
  - g) Aircraft-HAL Dhruv, Mi-17, CH-47 Chinok
  - h) Tank- Arjun, T-90S Bhishma
3. **Weapon Carriers:** Characteristics, mechanisms of operation, fire power and military importance of following: Land war weapon carrier, Naval war weapon carrier, Air war weapon carrier, Strategic transport aircraft, Tactile transport aircraft. Military Glider, Military Helicopter Fighter airplane, Bomber, Fighter- Bomber Airplane.
4. **Weapons of Mass Destruction - Chemical & Biological Weapons:** concept, characteristics and, uses. Nuclear weapons: Nuclear Command Authority in India. Strategic forces command, Indian land based nuclear armed ballistic missile, Indian Sea based nuclear armed ballistic missiles, Nuclear armed cruise missiles. Air Defense: Brief idea.

**B. Arms control and Disarmament**

1. Introduction; Definition of arms control, Arms limitations, Arms reduction and Arms trade; Differences between Arms control, Arms limitations, Arms reduction and Arms trade; Nature and Scope of arms control and Disarmament; Efforts towards Disarmament from Treaty of Westphalia to World War – II
2. UN and Disarmament: Efforts towards the formation of the UNO. UN's Perception on Disarmament and Arms control. Major efforts till the Disarmament decade. Causes and failures. Disarmament Efforts – Success story.
3. Disarmament efforts by other Bodies- a. NAM b. Nuclear Free Zones c. Efforts of India

## Major A5/B5 P: Weapons, Armaments, Arms control & Disarmament (Practical)

Credits 01 (30 hrs.)

### Practical:

1. Demonstrate following arms small arms: 0.22 Rifles. 0.303 Rifle, 7.62 Self Loading Rifles(SLR), Indian Small Arms System (INSAS) 5.56 mm Rifle, Light Machine Gun (LMG), Sten Machine Carbine. Modern Submachine Carbine (MSMC), Pistol & Revolvers. No 36 HE Grenade, 2 inch Mortar. Artillery Gun, Air Defense Gun, Indian Field gun 105 mm., Multiple Rocket Launchers. Students will be required to draw Labeled sketch and explain the important stages of mechanism of the above weapons.
2. Students will be required to draw sectional diagrams showing the parts connected with the mechanisms of movements and firing of the following armaments: Tanks, Air craft - Fighters, Bombers, Transport, and Helicopters. Naval Ships - Frigates, Destroyers, Submarine and Torpedo.
3. Project Report: Preparation of Project Report out of the data collected from field visit t to different defense establishment and geo-strategic areas of importance.

### Suggested Readings:

1. A Cooper, D. (2021). Arms Control for the Third Nuclear Age. Georgetown University Press.
2. Abbasi, R. (2021). Building a Road to Nuclear Disarmament (1st edition). Routledge.
3. Badri Maharaj, S. (2019). Indian Nuclear Strategy. Routledge.
4. E. Williams, R., & R. Viotti, P. (2012). Arms Control: History, Theory and Policy. ABC-CLIO Publications.
5. Irmgard, N. (2020). Nuclear Non-Proliferation and Arms Control Verification. Springer Nature.
6. Rotfeld, A. D. (2000). Arms control and disarmament: SIPRI's new conceptual approach | United Nations iLibrary. United Nations iLibrary.  
<https://www.unilibrary.org/content/books/9789210581424c002>
7. S.P, C. (1994). Nuclear Proliferation in South Asia: The Prospects for Arms Control. New Delhi: Lancer
8. Sethi, M. (2009). Nuclear Strategy: India's March towards Credible Deterrence. New Delhi: KW Publishers
9. Steen, B. N. V., & Njølstad, O. (2019). Nuclear Disarmament. Routledge.
10. Street, T. (2021). The Politics of Nuclear Disarmament. Routledge.

**Major A6/B6: Role of NCC in Nation Building**

**Credits 04 (Full Marks: 75)**

**Major A6/B6 T: Role of NCC in Nation Building**

**Credits 04 (Lectures: 60)**

**Course contents:**

**Course Contents:**

**Unit 1: National Integration:**

- a) Concept, Importance, Religion, Culture, Tradition and Customs of India,
- b) National Interests and National Threats,
- c) Problems and Challenges of National Integration-Social Disparity, Linguistic, Fanaticism, Casteism, Regionalism, Communalism, Economic inequalities-Poverty, Unemployment, Growth of Population, Corruption;
- d) Opportunities- Defence & Police Force, National Games
- e) NCC's Role in Unifying India

**Unit 2: Social Service and Community Development**

- a) Introduction, Weaker Section of Society and their Needs
- b) Contribution of NCC towards Social Welfare
- c) NGO's Role and Contribution

**Unit 3: Human Rights**

- a) Fundamental Rights, Duties of Citizen;
- b) Human Right Organizations;
- c) Rural Development Programmes: MGNREGA, SGSY, JGSY, IAY, NASP, PMGSY
- d) Contribution of NCC towards Community Development

**Unit 4: Aid to Civil Authority**

- a) Disaster Management: introduction, Types of Natural Disaster, Role of NCC in various Disasters
- b) Civil Defence, Organization of Civil Defence; Role of NCC;
- c) Fire Fighting-Fire Fighting Equipments, Role of NCC
- d) Role of NCC in Traffic Control

**Suggested Books/ Readings:**

- 1. NCC Cadet Hand Book
- 2. V. Longer: Youth In Step
- 3. NCC Common Subject
- 4. Lt G. D. Singh, Pvm, Vsm: Field Marshal S. Manekshaw (Soldiering With Dignity)

## **MAJOR ELECTIVE**

*(To be studied by students taken NCC as Discipline- A)*

### **Major Elective (MJE)-02:**

*(India's Defence Mechanism OR Cyber Security & Crime)*

#### **Major Elective (MJE)-02T: India's Defence Mechanism**

**Credits 04 (Full Marks: 75)**

#### **Course Content:**

##### **Unit I: India's Defence Forces**

- a) Rank Structure of three Services
- b) Recruitment Methods of three Services
- c) Important Training Institutions of three Services
- d) Second Line of Defence(Introduction to Paramilitary Forces, in brief)

##### **Unit II: Defence Organizations in India**

- a) Power of President of India in relation to Defence
- b) Role and Functions of Ministry of Defence, Government of India
- c) Composition and Function of Defence Committee/National Security Council(NSC)
- d) Chief of Staff (COS) and Joint Service Organization

##### **Unit III: Army Organization**

- a) Organization of Army Headquarter(Role of Chief of Army Staff(COAS) and Principal Staff Officers(PSOs)
- b) Static and Field Formation of Indian Army
- c) Arms and Services

##### **Unit IV: Air Force Organization**

- a) Organization of Air Force Headquarter;
- b) Role of Chief of Army Staff(COAS) and Principal Staff Officer(PSOs)
- c) Static and Field Formation of Indian Air force

##### **Unit V: Navy Organization**

- a) Organization of Air Force Headquarter
- b) Role of Chief of Army Staff(COAS) and Principal Staff Officer(PSOs)
- c) Static and Field Formation of Indian Navy

#### **Suggested Readings:**

- Government of India (1924):The Army of India and its Evolution, Calcutta
- Ministry of Defence, Government of India, Indian Arm Forces, Year Book(Annual)
- Palit, D. K. (1989):Essentials of Military Knowledge, New Delhi
- Singh Nagendra (1967): Defence Mechanism of Modern State, New Delhi
- Venkateswaran A. L. ( 1967): Defence Organizationin India, New Delhi

**OR**

**Major Elective (MJE)-02T: Cyber Security & Crime**

**Credits 04 (Full Marks: 75)**

**Course Contents:**

**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

**Unit V:** Cyber Laws. Overview of General Laws and Procedures in India - Introduction to Indian Cyber Law - Cyber Crime and Digital Evidence- Indian Perspective

**Suggested Readings:**

1. Cyber Crime Impact in the New Millennium, by R. C Mishra , Auther Press. Edition 2010.
2. Cyber Security Understanding Cyber Crimes, Computer Forensics and Legal Perspectives by Sumit Belapure and Nina Godbole, Wiley India Pvt. Ltd. (First Edition, 2011)
3. Security in the Digital Age: Social Media Security Threats and Vulnerabilities by Henry A. Oliver, Create Space Independent Publishing Platform. (Pearson , 13<sup>th</sup> November, 2001)
4. Electronic Commerce by Elias M. Awad, Prentice Hall of India Pvt Ltd.
5. Cyber Laws: Intellectual Property & E-Commerce Security by Kumar K, Dominant Publishers.
6. Network Security Bible, Eric Cole, Ronald Krutz, James W. Conley, 2nd Edition, Wiley India Pvt. Ltd.
7. Fundamentals of Network Security by E. Maiwald, McGraw Hill.

### **Major Elective (MJE)-03:**

*(Non-Traditional Security Threats OR International Relations)*

**Major Elective -3T: Non-Traditional Security Threats**

**Credits 04 (FM: 75)**

**MJE-03T: Non Traditional Security Threats**

**Credits 04**

#### **Course contents:**

**Unit I:** Human Security; Definition, Meaning, Concept, Threats & Challenges in the Indian context

**Unit II:** Environment Security: Definition, Meaning, Concept and Contemporary Issues in the Indian context

**Unit III:** Illegal Migration: Definition, Meaning, Concept and Contemporary Issues in the Indian context

**Unit IV:** Organised Crimes: Definition, Meaning, Concept, Recent Trend in the Indian Context

#### **Suggested Readings:**

1. Joakim Palme, Kristof Tamas (2006): Globalizing Migration Regime: New Challenges to Transnational Cooperation
2. Moufida Goucha, John Crowley (2008): Rethinking Human Security
3. Shahrbanou Tadjbakhsh, Anuradha M. Chenoy (2007): Human Security: Concepts and Implications, Rutledge Advances and International Relations and Global Politics
4. Richard A Matthew and John Barnett Bryan Macdonald and Karen L. O'Brien (2010): Global Environmental Change and Human Security
5. Kimberley L. Thachuk (2007): Transitional Threats; Smuggling and Trafficking in Arms, Drugs and Human Life
6. Lal Marie (2008): The Geopolitics of Energy in South Asia, Institute of Southeast Asian Studies, Singapore
7. Leena (2000): Energy Infrastructure; Priorities, Constraints and Strategies for India, Oxford

**OR**

**Course contents:**

**Unit I:** Terrorism, Meaning, Concept, Philosophy and Historical Perspective

**Unit II:** Causes of Terrorism: Social, Economic, Political and Religious

**Unit III:** International Terrorism, State Terrorism and State-sponsored Terrorism Context

**Unit IV:** Terrorism and National Security, Strategy for fighting against Terrorism

**Suggested Readings:**

1. Brass, Paul R., (1991): Ethnicity and Nationalism, New Delhi, Sage Publications.
2. Combs, Cindy C., (1997): Terrorism in the Twenty-first Century, New Jersey, Prentice Hall.
3. Kartha, Tara (1999): Tools and Terror: Light Weapons and India's Security, New Delhi, Knowledge World and ISDA
4. Lequer, Walter (1999): The New Terrorism, Oxford, Oxford University Press
5. Sondhi M L.(ed), (1999): Terrorism and Political Violence-A Source Book, New Delhi
6. Wardlaw, Grant(1982): Political Terrorism, Cambridge

**MINOR (MI)**  
*(To be studied by students taken NCC as Discipline- C)*

**MI-5/C5: Military Sociology, Military Psychology, Communication Process, Field Engineering**  
**Credits 04 Full Marks: 75**

**MI-5/C5T: Military Sociology, Military Psychology, Communication Process, Field Engineering**  
**Credits 03 (45Hrs.)**

**Module - I: Military Sociology:** **a)** Study of Society, Social groups, social interaction: motivation, morality, Personality – Definition and determinants. Social aspects of war. Social effects of war. Post war social problems. Social background of military personnel of India. **b)** Armed Force and Society: Role of Indian Armed force society and inter-dependence, military aid to civil authorizes. Civil – Military relation in India. **c)** Indian Armed Forces and Disaster Management: Disaster – aims and objectives, Disaster management – meaning, concept, elements and preventive measures. War and disaster. **d)** Overseas bases and relations – peace keeping – anti piracy and exploration mission. **e)** Military Coups: causes and its consequences on society. **f)** Problem of ex-service men of India. Benefits of service for *Jawans* and Officers. One man one person demands. Role of women in Armed forces: contemporary trends.

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**MI-5/C5T: Military Sociology, Military Psychology, Communication Process, Field Engineering**  
**Credits 01 (30Hrs.)**

**Practical:**

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1. Judging distance and indication of targets.
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**Course contents:**

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  - j) Sniper Rifles- Vidhwansak, Barrett m95
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  - l) Artillery- Bofors 155mm Howitzer, M777 Howitzer, Dhanush Artillery gun
  - m) Missile- Brahmos, Nag, Akash, Prithvi
  - n) UAVs- Searcher MK11, Heron, Nishant, Netra, skylark
  - o) Aircraft-HAL Dhruv, Mi-17, CH-47 Chinok
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7. **Weapon Carriers:** Characteristics, mechanisms of operation, fire power and military importance of following: Land war weapon carrier, Naval war weapon carrier, Air war weapon carrier, Strategic transport aircraft, Tactile transport aircraft. Military Glider, Military Helicopter Fighter airplane, Bomber, Fighter- Bomber Airplane.
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**B. Arms control and Disarmament**

4. Introduction; Definition of arms control, Arms limitations, Arms reduction and Arms trade; Differences between Arms control, Arms limitations, Arms reduction and Arms trade; Nature and Scope of arms control and Disarmament; Efforts towards Disarmament from Treaty of Westphalia to World War – II
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6. Disarmament efforts by other Bodies- a. NAM b. Nuclear Free Zones c. Efforts of India

## **MI-6/C6 P: Weapons, Armaments, Arms control & Disarmament (Practical)**

**Credits 01 (30 hrs.)**

### **Practical:**

4. Demonstrate following arms small arms: 0.22 Rifles. 0.303 Rifle, 7.62 Self Loading Rifles(SLR), Indian Small Arms System (INSAS) 5.56 mm Rifle, Light Machine Gun (LMG), Sten Machine Carbine. Modern Submachine Carbine (MSMC), Pistol & Revolvers. No 36 HE Grenade, 2 inch Mortar. Artillery Gun, Air Defense Gun, Indian Field gun 105 mm., Multiple Rocket Launchers. Students will be required to draw Labeled sketch and explain the important stages of mechanism of the above weapons.
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<https://www.unilibrary.org/content/books/9789210581424c002>
17. S.P, C. (1994). Nuclear Proliferation in South Asia: The Prospects for Arms Control. New Delhi: Lancer
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