

# Vidyasagar University

## Curriculum for B.Sc ( General) in Military Science [Choice Based Credit System]

### Semester-I

Course	Course Code	Name of the Subjects	Course Type/ Nature	Teaching Scheme in hour per week			Credit	Marks
				L	T	P		
<b>CC1</b> [DSC-1A]		<b>C1T:</b> Defense Mechanism , Strategists in Art of War & Defense Organization of India – I	Core Course-1	4	0	0	6	75
		<b>C1P:</b> Drill (without Arms), First Aid & Social Service (Practical)		0	0	4		
<b>CC2</b> [DSC-2A]	TBD	<b>DSC-2A (other Discipline)</b>	Core Course-2				6	75
<b>CC3</b> [DSC-3A]	TBD	<b>DSC-3A (other Discipline)</b>	Core Course-3				6	75
AECC		English	AECC (Elective)	1	1	0	2	50
<b>Semester Total</b>							<b>20</b>	<b>275</b>

**L**=Lecture, **T**=Tutorial, **P**=Practical, **CC** = Core Course, **TBD** = To be decided, **AECC**= Ability Enhancement Compulsory Course

**DSC-1** = Discipline Specific Core of Subject-1, **DSC-2** = Discipline Specific Core of Subject-2,

**DSC-3** = Discipline Specific Core of Subject-3.

### Semester-I

#### Core Course (CC)

**CC-1: Defense Mechanism, Strategists in Art of War & Defense Organization of India – I**  
**Credits 06**

**C1T: Defense Mechanism , Strategists in Art of War & Defense Organization of India – I**  
**Credits 04**

#### Course Content:

##### 1. Principles of Defense Mechanism

- a) Principles of Defense Organization
  - i) Objectives ii) Co operation iii) Flexibility iv) balance V) Economy vi) Accuracy VII) De centralization VIII) Unity of Efforts, ix) Defense technique/ Technicalities.
- b) Principles of Defense Administration
  - i) Foresight, ii) Flexibility, iii) Economy, iv) Simplicity, v) Co – operation, vi) Organs / Units of defense Administration..

## 2. Reconstruction of Indian Armed Forces in colonial & post - colonial India.

- a) Indian armed forces under the British, b) Reconstruction of Army after 1947,
- b) Reconstruction of Navy, c) Reconstruction of Air Force.

## 3. Hierarchy of Higher Defense Organization

- a) President and Indian Armed Forces,
- b) Defense committee of cabinet,
- c) Ministry of Defense,
- d) National Defense Council.

## 4. Defense Organization of India – I

- A. Indian Armed Forces : Strength, task of Indian armed forces. Gallantry award & Military decoration of Indian army. Doctrine, corps and field forces.
- B. Organizational structure of Indian Army : Commands -- operational commands, training commands. Static formation of army, field formation of army. Composition of Indian army: a) Organization structure of an infantry battalion, b) Organizational structure of an armoured regiment, c) Organizational structure of artillery Field Regiment: Field artillery, air defense artillery. Artillery equipments and ammunition: arms and armaments, Shell and ammunition. Chief function of artillery Regiments.
- C. Structural changes in Indian Defense Organization.
- D. Indian Navy : History, structure, organization, characteristics, command, support services, role during war.
- E. D. Indian Air Force: History, structure, organization, characteristics commands: operational command, training commands and maintenance commands. Limitation role during war.

## 5. A brief account of the contributions made by the following Strategists in Art of War

### A. International

- a) Niccolo Machiavelli (1469 – 1527), b) Antoine Henri Jomini (1779 – 1869), c) Alfred Thayer Mahan (1840 – 1914), d) Giulio Douhet (1869 – 1930), e) Carl Von Clausewitz (1780 – 1831), f)**

Jorge Smith Patton (1885-1945), **g**) Bernard Law Monogomery (1887-1976), **h**) Erwin Johannes Eugen Rommel ( 1891-1944), **i**) Mao-Tse-Tung (1893 – 1976), **j**) Basil Henry Liddell Hart (1895 – 1970).

## **B. National**

**a)** Kodandera Madappa Cariappa ( 1899 – 1993), **b)** S.H.F.J. Manekshaw (1914 – 2008), **c)** Jayanta Nath Choudhury ( 1908-1983), **d)** Subrata Mukherjee ( 1911 -1960), **e)** Adhar Kumar Chatterjee( 1914 -2001), **f)** Sundarilal Mathradas Nanda ( 1915 – 2009)

### **C1P: Drill (without Arms), First Aid & Social Service (Practical)**

**Credits 02**

#### **1. Drill (without Arms)**

i) Savdhan ( Attention), ii) Vishram( Stand on easy), iii) Aram se( Stand easy), iv) Tej Chal ( Quick March), v) Thum ( Halt), vi) Dahine Mur ( Right Turn), vii) Baen Mur( Left Turn), viii) Piche Mur ( About Turn), ix) Samne ka salute, x) Patra ke sath salute, xi) Line Tour( Falling out), xii) Visarjan ( Dismiss).

#### **2. First Aid**

- i. Principles of First Aid, ii. Importance of First Aid,
- iii. First aid for:
  - a. Snake bite,
  - b. Burns and scalds
  - c. Drowning,
  - d. Poisoning,
  - e. Dog bite.

#### **3. Social Service- any one**

i) Tree plantation, ii) Blood Donation, iii) Participation in social awareness programme.

#### **4. Laboratory Note Books & Viva-Voce**

Students will be required to maintain records of all practical works done in connection with this paper.

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**Semester-II**

Course	Course Code	Name of the Subjects	Course Type/ Nature	Teaching Scheme in hour per week			Credit	Marks
				L	T	P		
<b>DSC-1B</b>		DSC1BT:Man management in Armed Force and Defense Organization of India – II	Core Course	4	0	0	6	75
		DSC1BP:Tactical Exercise without Troops and Drill without arms <b>(Practical)</b>		0	0	4		
<b>DSC-2B</b>	TBD	<b>DSC-2B (other Discipline)</b>	Core Course				6	75
<b>DSC-3B</b>	TBD	<b>DSC-3B (other Discipline)</b>	Core Course				6	75
<b>AECC</b>		ENVS	AECC (Elective)				4	100
<b>Semester Total</b>							<b>22</b>	<b>325</b>

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## Semester-II

### Core Course (CC)

**DSC-1B (CC-2): Man management in Armed Force and Defense Organization of India – II**  
**Credits 06**

**DSC1BT: Man management in Armed Force and Defense Organization of India – II**

**Credits 04**

#### **Course Contents:**

#### **Unit A: Military leadership, Man management in Armed Force, Military awards & Decoration**

- a. Discipline: Definition, purpose & tools of maintaining discipline. Discipline and duties of a citizen, leadership traits.
- b. Awareness of major problems -- communal problem, health, sanitation, public service. Economic, handicaps, ignorance of education. Forest ecology and wild life, Health and Hygiene, infective diseases, personal hygiene and preventive diseases, water supply, disposal of garbage.
- c. Personality: traits, group behavior and communication skills in organizing armed force.
- d. Leadership: Meaning, definition, types & levels. Theories of leadership. Military leadership - meaning, attribute, importance and role in training & warfare.
- e. Man management -- concept, importance - Motivation and morale factors and their utilization in the armed forces.
- f. Awards & Decoration: Military orders, decoration, medals, awards and Honours – international aspects. Military awards and decorations of India.

#### **Unit – B: Defense organization of India -II**

**Second line of Defenses:** Armed Force of the Union -- History, formation, division, functions.

- a) Paramilitary Forces: Indian Coast Guard, Assam Rifles, Special Frontier Forces.
- b) Central Armed Police Forces: Central Reserve Police Forces (CRPF), Boarder Security Forces (BSF), Indo - Tibetan Boarder Police (ITBP), Shasatra Seema Bal (SSB), Central Industry Security Force (CISF).
- c) Other Forces: National Security Guards (NSG), Special Protection Group (SPG), Railway Protection Forces (RPF).
- d) Special Forces: Para Special Force [Para (SF)], Ghatak Force, Marine Commando (MARCOS), Garud Commando Force.
- e) National Cadet Corps(NCC)

f) Territorial Army

## **DSC1BP: Tactical Exercise without Troops and Drill without arms (Practical)**

**Credits 02**

### **A. Tactical Exercise without Troops**

1. Sand model on the following : a) attack, b) defense
2. Outline organization of Infantry Battalion in Lab Note Book
3. Chart showing organization, weapons at equipments at platoon level
4. Field crafts:
  - (a) Study and description of ground
  - (b) Judging distance – visual training & observation (use of Cover, concealment and camouflage)
  - (c) Indication, Recognition and description of targets
  - (d) Field Signals, Fire control order, Section formations, Platoon formations
5. Verbal order at Platoon level
6. Movement without arms and section Battle Drill
7. Patrolling: (1) Rescue Patrol (2) preparation (3) conduct and (4) de- briefing
8. Message Writing

### **B. Drill without arms**

1. Sizing, forming up in three ranks, numbering, open and close order march and dressing
2. Getting on parade, dismissing and fall out
3. Saluting at the halt
4. Marching, length of space and time of marching, marching in quick time and halt
5. Turning at the march and wheeling
6. Saluting at the march
7. Side space, pace forward and to the rear
8. Marking time, forward and halt in quick time and changing step
9. Formation of squad and squad drill

### **C. News paper clippings :**

News paper clippings on relevant military related topics and a short essay on the basis of clippings to be produced.

**D. Field visit:** Field visit to defense establishment/ places of military interests. Students will submit a field report.

### **E. Laboratory Note Books**

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