

**Dr. Babasaheb Ambedkar Marathwada University,  
Aurangabad.**

**SYLLABUS OF B.A. I<sup>st</sup> Year (Military Science)**

**War and Warfare (Paper - I)**

**SEMESTER SYSTEM**

- (a) All Paper are compulsory.
- (b) 50 marks for each paper: 20 marks for internal assessment and 30 marks for semester end examination. Passing both level is essential.
- (c) Semester end examination will be of 90 minutes for each paper.

<b>Chapter No.</b>	<b>Title of the Chapter</b>	<b>Credits Allotted</b>	<b>Periods</b>
<b>SEMESTER - I</b>			
1.	War	4	60
2.	Conventional Warfare		
3.	Modern War		
4.	Revolutionary war and low intensity Operations		
5.	Nuclear Warfare		
<b>SEMESTER - II</b>			
6.	Psychological Warfare	4	60
7.	Chemical and Biological Warfare		
8.	Economic Warfare		
9.	Electronic Warfare		
10.	Changing Perspectives of War		

**NOTE:-**

- 1) One period of 50 minutes.
- 2) 15 period = 01 credit.
- 3) 04 Credits = 60 periods.
- 4) Each paper is comprised of 04 credits.
- 5) 60 periods are meant for classroom Teaching and Internal Assessment of each paper.

# War and Warfare

**Paper: I**

**SEMESTER - I**

## **1. War**

- a) Meaning and concept.
- b) Nature and scope of war.
- c) Causes of War.
- d) Functions of War.
- e) Principles and consequences of War.

## **2. Conventional Warfare**

- a) Meaning and concept
- b) Evolution
- c) Limited War

## **3. Modern War**

- 1) Meaning and concept.
- 2) Features
- 3) Total War.

## **4. Revolutionary War and Low Intensity Operations**

### **a) Guerilla War/Asymmetric warfare**

- i) Meaning and concept.
- ii) Principles and characteristics.
- iii) Guerilla strategy and Tactics.
- iv) Contributors to the Guerilla War.

### **b) Insurgency and Counter Insurgency**

- i) Meaning and concept.
- ii) Basic characteristics.
- iii) Causes.
- iv) Counter Measures.

## **5) Nuclear War fare**

- 1) Meaning and concept.

- 2) Origin and development.
- 3) Effect of Nuclear War.
- 4) Nuclear strategy.
- 5) Arms race and its effects.
- 6) Theory of Nuclear Deterrence.

## **SEMESTER - II**

### **6) Psychological warfare**

- 1) Meaning and Nature.
- 2) Objectives.
- 3) Means and methods.
- 4) Mental health problems of soldiers.

### **7) Chemical and Biological warfare**

- 1) Meaning and Nature.
- 2) Objectives.
- 3) Types, Methods and Effects.
- 4) Preventive measures.

### **8) Economic warfare**

- 1) Meaning and concept.
- 2) Objective.
- 3) Nature and Means.

### **9) Electronic Warfare**

- a) Meanings
- b) Concept
- c) Objectives

### **10) Changing Perspectives of War**

## **Reference Books**

1. Samuel B. Payne - The conduct of war – An Introduction to Modern Warfare.
2. Gander T.J. – Nuclear Biological and chemical warfare, London – 1987.
3. Montgomery – A History of warfare.
4. Howard Michael – The theory and practice of war.
5. Liddell Hart B.H. – Strategy : The Indirect Approach.
6. Chaudhari J.N. – Arms, Aims and Aspects.
7. Palit D.K. – Essential of Military Knowledge.
8. Ropp Theodare – War in the Modern world.
9. Palit D.K. – War in the Deterrent Age.
10. Paret Peter (Ed.) - Makers of Modern strategy (Oxford-1986)
11. Garnett John (Ed.) - Theories of Peace and Security (Bristol-McMillan-1976)
12. Bordie B. – Strategy in the missile age.
13. Halperin Morton – Contemporary Military strategy.
14. Khan S.A. Probing war and war fare – A.P.H. Publishing corp. New Delhi- 2005.
15. परांजपे श्रीकांत - सामरिकशास्त्र, कॉन्टीनेन्टल प्रकाशन, पुणे.
16. चौधरी अर्चना - आधुनिक युध्दपध्दती.
17. चौधरी ए.पी. चौधरी अर्चना - आधुनिक युध्दकला, निराली प्रकाशन, पुणे.

**Dr. Babasaheb Ambedkar Marathwad University,  
Aurangabad.**

**SYLLABUS OF B.A. I<sup>st</sup> Year (Military Science)**

**Defence Organization of India (Paper - II)**

**SEMESTER SYSTEM**

- (a) All Paper are compulsory.
- (b) 50 marks for each paper: 20 marks for internal assessment and 30 marks for semester end examination. Passing both level is essential.
- (c) Semester end examination will be of 90 minutes for each paper.

<b>Chapter No.</b>	<b>Title of the Chapter</b>	<b>Credits Allotted</b>	<b>Periods</b>
<b>SEMESTER - I</b>			
1.	Military Organization and Principles of Administrations.	4	60
2.	Reconstruction of Indian Armed forces after 1947		
3.	Higher Defence Org. in India.		
4.	Defence Mechanism of the Indian Armed forces.		
5.	Second line of Defence/ Para Military Forces.		
<b>SEMESTER - II</b>			
6.	Organization of Intelligence in India	4	60
7.	Fighting Arms (Combat Arms)		
8.	Supporting Arms-Artillery, Engineers & Signal Corps		
9.	The Administrative Services-Role in peace and war time		
10.	Indian Navy		
11.	Indian Air force		

**NOTE :-**

- 1) One period of 50 minutes.
- 2) 15 period = 01 credit.
- 3) 04 Credits = 60 periods.
- 4) Each paper is comprised of 04 credits.
- 5) 60 periods are meant for classroom Teaching and Internal Assessment of each paper.

# **Defence Organization of India**

**Paper: II**

**SEMESTER - I**

## **1. Military organization and principles of Administrations.**

## **2. Reconstruction of Indian Armed forces after 1947.**

- a) Reconstruction of Indian Army.
- b) Reconstruction of Indian Navy.
- c) Reconstruction of Indian Air force.

## **3. 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

## **4. Defence Mechanism of the Indian Armed forces.**

- a) Chiefs of staff committee.
- b) Organization of Army Head-Quarters, Naval Head-Quarters and Air Head-Quarters. (Integrated HQ, Ministry of Defence)
- c) Organization of Army, Navy, Air commands and Nuclear Commands.

## **5. Second line of Defence / Para Military Forces**

- a) Border Security Force
- b) Coast Guard
- c) Territorial Army
- d) Civil Defence
- e) Home guards.
- f) Central Reserve Police Force
- g) State Reserve Police

## **SEMESTER -II**

### **6. Organization of Intelligence in India**

- a) Introduction and History of Intelligence.
- b) Principles and process of Intelligence.
- c) Role of Various Agencies.
- d) Devices for collecting Intelligence.
- e) Counter Intelligence.
- f) Indian Intelligence organization.

### **7. Fighting Arms (Combat Arms)**

#### **a) Infantry**

- I) Characteristics, Role and limitations.
- II) Infantry Divisions and Battalion organization.

#### **b) Armored Corps**

- I) Characteristics.
- II) Role and limitations.

### **8. Supporting Arms – Artillery, Engineers & Signal Corps**

- a) Characteristics.
- b) Role and limitations.

### **9. The Administrative Services – Role in peace and war time**

- a) Army service corps.
- b) Army ordnance corps.
- c) Army Medical corps.
- d) Electrical and Mechanical Engineers.
- e) Judge Advocate Generals Branch

### **10. Indian Navy**

- a) Organization of the Indian Navy
- b) Characteristics, Role and limitations.
- c) Various types of Battleships in Indian Navy.
- d) Role during war (after independence)

## 11. Indian Air force

- a) Organization of the Indian Air Force
- b) Characteristics, Role and Limitations
- c) Various types of Aircrafts, in Indian Air force.
- d) Role during war (after independence)

### **Reference Books :-**

- 1) Venkateshwaram A.L. – Defence Organization in India, India Pub. Divisional – 1967, Delhi-6.
- 2) Nagendra Singh – Defence Mechanism of Modern state.
- 3) Stephan Cohen – Indian Army – A sketch of it's History and Organization.
- 4) Brig. Rajendra Singh – Organization and Administration in the Indian Army.
- 5) Lt.Col.Abhyankar M.G. – Defence, Principles and Organization (Usha Prakashan, Pune-7, 1974)
- 6) Ministry of Defence – Annual reports.
- 7) वेंकटेश्वरन ए. एल. - भारत का रक्षा संघटन, मध्यप्रदेश हिंदी ग्रंथ अकादी, भोपाळ १९७३.
- 8) ले. के. अभ्यंकर एम.जी. - संरक्षण शास्त्र आणि संघटना, उषा प्रकाशन, पुणे-७, १९७४
- 9) चौधरी, जाधव, सैदाणे अर्चना चौधरी - भारतीय लष्करी संघटना, निराली प्रकाशन, पुणे.
- 10) श्रीवास्तव जे.एम. - आधुनिक राज्यका रक्षातंत्र.
- 11) डॉ. लल्लनजी सिंह - आधुनिक राज्य का रक्षातंत्र
- 12) डॉ. पुरुषोत्तम गुप्त - वर्तमान रक्षातंत्र