



# UNIVERSITY OF CALCUTTA

**GURUPADA SAREN**  
**SECRETARY**

COUNCILS FOR UNDERGRADUATE STUDIES,  
UNIVERSITY OF CALCUTTA.

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To  
The Principals/T.I.C.  
of all the Undergraduate Colleges  
offering Defence Studies (General)  
affiliated to the University of Calcutta

Sir/Madam,

The undersigned is to inform you that the proposed **revised semester wise draft Syllabus for Defence Studies (General)** under **CBCS** has been uploaded in the Calcutta University website ([www.caluniv.ac.in](http://www.caluniv.ac.in)).

The said syllabus has been prepared by the **U.G. Board of Studies in Defence Studies, C.U.**, suppose to be implemented from the academic session 2018-2019.

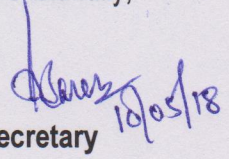
You are requested kindly to go through it and send your feedback within 21<sup>st</sup> May, 2018.

In this regard you may send your observation/ suggestion to the **Department of U.G. Councils, C.U.** or through email ([u.g.councilsc.u@gmail.com](mailto:u.g.councilsc.u@gmail.com)), and you also may contact **Prof. Gobindalal Mandal**, through e-mail ([gobindalal.mandal2@gmail.com](mailto:gobindalal.mandal2@gmail.com) ).

Your cooperation in this regard will be highly appreciated. Kindly treat the matter as urgent.

Thanking you,

Yours faithfully,

  
Secretary



## **UNIVERSITY OF CALCUTTA**

# **DEFENCE STUDIES**

Semester: I Core course: 1 Paper code: DFSG	Credit: 4+2=6* Full marks: 60+40
Minimum number of class required: 50 + 40	
*4 credit for theory +2 credit for practical or project	

### **Module - I: National Security and Military geography of India (60 marks)**

#### **National security: 30 Marks**

- a. Definition, objective, scope and elements
- b. Geographical factors affecting national security
- c. Economic factor affecting security
- d. Military potentialities affecting national security
- e. National policy and national morale affecting on national security

#### **Military Geography of India: 30 marks**

- a. Strategic location with reference to geo-strategy and geo-politics
- b. Size, shape, location, nature, climate, population and national resource affecting the national Defence of the country.
- c. Military geography of some states of India (Punjab/Gujarat/ Rajasthan/ West Bengal/ Tripura/ Mizoram/ Manipur, Nagaland)

### **Module - II: Practical 40 marks**

#### **Military Geography:**

- a. Conventional sign.
- b. Map reading.
- c. Scale.
- d. Relief and it's Representation.

Semester: II Core course: II Paper code: DFSG	Credit: 4+2=6* Full marks: 60+40
Minimum number of class required: 50 + 40	
*4 credit for theory +2 credit for practical or project	

### **Module - I: Types of War, Tactics and Military History of India (60 marks)**

#### **Types of war: 20 Marks**

- Definition and objectives of war and its causes and effects
- Different types of war: Psychological, Cold war, Chemical warfare and Biological warfare
- Hot warfare and Guerilla warfare, Jungle warfare, Desert warfare and mountain Warfare
- Naval warfare and Air warfare

#### **Tactics of War: 20 Marks**

- Principles of War as followed in Modern India only.
- Operation of War.
- Strategy and Tactics – Explanation and their inter-relation.

#### **Military History of India: 20 marks**

- Modern war : First World War, Second World War, 1965 and 1971 Indo-Pak War, 1962 Indo –China War

### **Module - II: Practical 40**

#### **Characteristics, Labeled sketch and Mechanism of the following Arms:**

- Basic idea of Small Arms.
- 0.303 Rifle
- SLR
- LMG
- SMC

Semester: III Core course: III Paper code: DFSG	Credit: 4+2=6* Full marks: 60+40
Minimum number of class required: 50 + 40	
*4 credit for theory +2 credit for practical or project	

**Module - I: Indian economic & industrial Potential and transport and communication system of India (60 marks)**

**Indian economic and Industrial Potential (30 marks)**

- Definition of Resource and its importance in national security
- Industrialization of India and its impacts
- Scientific and industrial development since independence
- Defence industries development since independence
- Strategic minerals and logistic problems of India

**India's transportation and communication system (30 marks)**

- Different types of transportation system in Indian
- Development of Roadways, Railways, Airways and Naval ways
- Types of communications: Postal, Telegraph, telephones, wireless, internet
- Media: Publicity and Propaganda and its impact on National security.

**Module - II: Practical 40 marks**

**Characteristics, Labeled sketch and Mechanism of the following Arms:**

- 36HE Grenade
- 2 inch Mortar
- Nuclear Bomb
- Idea of different parts of a Compass and its uses.

Semester: IV Core course: IV Paper code: DFSG	Credit: 4+2=6* Full marks: 60+40
Minimum number of class required: 50 + 40	
*4 credit for theory +2 credit for practical or project	

## **Module - I: National Defence Policies and India's foreign policy (60 marks)**

### **National Defence Policies: (20 marks)**

- a. India's Defence policy
- b. Objectives and scope

### **India's Foreign Policy: (20 marks)**

- a. Nature, objectives and Development
- b. India's foreign policy
- c. Impact of National Foreign policy in Defence

### **Military History: (20 Marks)**

- a. Military system of Pala Period
- b. Military system of Mughal Period
- c. Military system of Maratha and Sikh Period

## **Module - II: Practical (40 marks)**

### **Diagram and Battle Formation**

- a. First Battle of Panipath.
- b. Second Battle of Panipath.
- c. Third Battle of Panipath.
- d. Battle of Plassey.
- e. Battle of Chillianwala.

Semester: III Skill Enhancement course: I Paper code: DFSG	Credit: 2 Full marks: 30
Minimum number of class required: 30	

### **Practical (30 marks)**

#### **Group A: Diagram, Characteristics and Mechanism of Naval Armament:**

- a. Battle Ship
- b. Battle Cruiser.
- c. Destroyer
- d. Air-Craft Carrier.
- e. Sloop.
- f. Frigate.
- g. Mine and Mine Sweeper.
- h. Motor Torpedo Boat.
- i. Submarine.
- j. Torpedo.
- k. Depth Charge.

#### **Group B:**

#### **Technical Drawing and Process of Night March.**

Semester: III Skill Enhancement course: II Paper code: DFSG	Credit: 2 Full marks: 30
Minimum number of class required: 30	

**Practical (30 marks)**

**Group A: Diagram, Characteristics and Mechanism of Air force Armament:**

- a. Glider
- b. Helicopter.
- c. Bomber
- d. Fighter (Varies MIG versions).
- e. Missile.
- f. Fighter-Bomber.

**Group B:**

**Service Protractor and its applications.**

Semester: IV Skill Enhancement course: III Paper code: DFSG	Credit: 2 Full marks: 30
Minimum number of class required: 30	

**Practical (30 marks)**

**Group A: Diagram, Characteristics and Applications of some weapons carrier of land Warfare:**

- a. Vijayanta Tank.
- b. Patton Tank.
- c. Chaffee.
- d. Arjun.

**Group B:**

**Inter-visibility in perspective of Military Geography in Mountain Warfare:**



Semester: IV Skill Enhancement course: IV Paper code: DFSG	Credit: 2 Full marks: 30
Minimum number of class required: 30	

### **Practical (30 marks)**

#### **Sketching of Strategic Maps of India:**

- a. States and Union Territories with Capital of India.
- b. Strategic raw materials.
- c. Defence Industries and Atomic installation.
- d. India and her neighbors.
- e. Indian Army, Navy and Air force Command and Fleet HQs.

Semester: V Discipline Specific Elective: 1A Paper code: DFSG	Credit: 3(Th)+2(Proj)+ 1(IA & Att.) = 6 Full marks: 50+30+20*= 100
Minimum number of class required: 50+30	
*20 marks are reserved for internal assessment & attendance of 10 marks each.	

**Module - I: Security of India (50 marks)**

- a. Concept and factors affecting security of India.
- b. Internal security problem of India.
- c. Concepts of Arm control and disarmaments.
- d. Military Pacts and Treaties.
- e. Second line of defence – BSF, CRPF, ITBP, Assam Rifle, CISF, Coast Guard.

**Module - II:**

**Project and Presentation (30 marks)**

- a. News Paper clippings on securities related issues.

Semester: V Discipline Specific Elective: 1A Paper code: DFSG	Credit: 3(Th)+2(Proj)+ 1(IA & Att.)= 6 Full marks: 50+30+20*= 100
Minimum number of class required: 50+30	
*20 marks are reserved for internal assessment & attendance of 10 marks each.	

**Module - I: Organizations of Indian Armed forces (50 marks)**

- a. Organization of Ministry of Defence.
- b. Organization of Army.
- c. Organisation of Naval Force.
- d. Organisation of Airforce.
- e. N.C.C. and Territorial Army.

**Module - II:**

**Project and Presentation (30 marks)**

- b. News Paper clippings on securities related issues.

Semester: VI Discipline Specific Elective: 1B Paper code: DFSG	Credit: 3(Th)+2(Proj)+ 1(IA & Att.)= 6 Full marks: 50+30+20*= 100
Minimum number of class required: 50+30	
*20 marks are reserved for internal assessment & attendance of 10 marks each.	

**Module - I: Frontiers of India (50 marks)**

- a. Strategic importance of Land frontier
- a. Strategic frontiers of coastal frontiers
- b. Strategic importance of Air border
- b. Strategic importance of Himalaya in the Defence of India

**Module - II:**

**Project and Presentation (30 marks)**

- a. Modern Weapons by Power Point.

Semester: VI Discipline Specific Elective: 1B Paper code: DFSG	Credit: 3(Th)+2(Proj.)+ 1(IA & Att.)= 6 Full marks: 50+30+20*= 100
Minimum number of class required: 50+30	
*20 marks are reserved for internal assessment & attendance of 10 marks each.	

### **Module - I: International Relation (50 marks)**

- a. Nature and Scope of Inter National relations.
- b. India's relation with big Powers (USA / Russia / UK / France).
- c. India's relations with her neighbors (Nepal / Pakistan / China / Bangladesh / Sri Lanka / Bhutan).

### **Module - II:**

#### **Project and Presentation (30 marks)**

- a. Modern Weapons by Power Point.

