



UNIVERSITY OF CALCUTTA

Notification No. CSR/ 12 /18

It is notified for information of all concerned that the Syndicate in its meeting held on 28.05.2018 (vide Item No.14) approved the Syllabi of different subjects in Undergraduate Honours / General / Major courses of studies (CBCS) under this University, as laid down in the accompanying pamphlet:

List of the subjects

<u>Sl. No.</u>	<u>Subject</u>	<u>Sl. No.</u>	<u>Subject</u>
1	Anthropology (Honours / General)	29	Mathematics (Honours / General)
2	Arabic (Honours / General)	30	Microbiology (Honours / General)
3	Persian (Honours / General)	31	Mol. Biology (General)
4	Bengali (Honours / General /LCC2 /AECC1)	32	Philosophy (Honours / General)
5	Bio-Chemistry (Honours / General)	33	Physical Education (General)
6	Botany (Honours / General)	34	Physics (Honours / General)
7	Chemistry (Honours / General)	35	Physiology (Honours / General)
8	Computer Science (Honours / General)	36	Political Science (Honours / General)
9	Defence Studies (General)	37	Psychology (Honours / General)
10	Economics (Honours / General)	38	Sanskrit (Honours / General)
11	Education (Honours / General)	39	Social Science (General)
12	Electronics (Honours / General)	40	Sociology (Honours / General)
13	English ((Honours / General/ LCC1/ LCC2/AECC1)	41	Statistics (Honours / General)
14	Environmental Science (Honours / General)	42	Urdu (Honours / General /LCC2 /AECC1)
15	Environmental Studies (AECC2)	43	Women Studies (General)
16	Film Studies (General)	44	Zoology (Honours / General)
17	Food Nutrition (Honours / General)	45	Industrial Fish and Fisheries – IFFV (Major)
18	French (General)	46	Sericulture – SRTV (Major)
19	Geography (Honours / General)	47	Computer Applications – CMAV (Major)
20	Geology (Honours / General)	48	Tourism and Travel Management – TTMV (Major)
21	Hindi (Honours / General /LCC2 /AECC1)	49	Advertising Sales Promotion and Sales Management –ASPV (Major)
22	History (Honours / General)	50	Communicative English –CMEV (Major)
23	Islamic History Culture (Honours / General)	51	Clinical Nutrition and Dietetics CNDV (Major)
24	Home Science Extension Education (General)	52	Bachelor of Business Administration (BBA) (Honours)
25	House Hold Art (General)	53	Bachelor of Fashion and Apparel Design – (B.F.A.D.) (Honours)
26	Human Development (Honours / General)	54	Bachelor of Fine Art (B.F.A.) (Honours)
27	Human Rights (General)	55	B. Music (Honours / General) and Music (General)
28	Journalism and Mass Communication (Honours / General)		

The above shall be effective from the academic session 2018-2019.

SENATE HOUSE
KOLKATA-700073
The 4th June, 2018

Paul
4/6/18
(Dr. Santanu Paul)
Deputy Registrar

DEFENCE STUDIES

Semester: 1 Core Course: 1 Paper Code: DFS - G - CC -1 - 1 - TH &DFS - G - CC - 1 - 1 - P	Credit: 4+2=6* Full marks: 50+30
Minimum number of class required: 60 + 40	
*4 credit for theory +2 credit for practical or project	

Unit – 1

30 L

National security: 25 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

Unit – 2

30 L

Military Geography of India: 25 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)

Practical:

30 Marks

Military Geography:

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

Semester: 2 Core Course: 2 Paper Code: DFS - G - CC - 2 - 2 - TH &DFS - G - CC - 2 - 2 - P	Credit: 4+2=6* Full marks: 50+30
Minimum number of class required: 60 + 40	
*4 credit for theory +2 credit for practical or project	

Unit – 1

25 L

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

Unit – 2 18 L

Tactics of War:15 Marks

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

Unit – 3 17 L

Military History of India: 15 Marks

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

Practical:30 Marks

Characteristics, Labeled sketch and Mechanism of the following Arms:

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

Semester: 3 Core Course: 3 Paper Code: DFS - G – CC – 3 – 3 - TH &DFS - G – CC – 3 – 3 - P	Credit: 4+2=6* Full marks: 50+30
Minimum number of class required: 60 + 40	
*4 credit for theory +2 credit for practical or project	

Unit – 1

30 L

Indian Economic and Industrial Potential: 25 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

Unit – 230 L

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.

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: 4 Core Course: 4 Paper Code: DFS - G - CC - 4 - 4 - TH &DFS - G - CC - 4 - 4 - P	Credit: 4+2=6* Full marks: 50+30
Minimum number of class required: 60 + 40	
*4 credit for theory +2 credit for practical or project	

Unit – 1

17 L

National Defence Policies: 15Marks

- India's Defence policy
- Objectives and scope

Unit – 2 25 L

India's Foreign Policy:20 Marks

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

Unit – 3 18 L

Military History: 15 Marks

- Military system of Pala Period
- Military system of Mughal Period
- Military system of Maratha and Sikh Period

Practical:

40 Marks

Diagram and Battle Formation

- First Battle of Panipath.
- Second Battle of Panipath.
- Third Battle of Panipath.
- Battle of Plassey.
- Battle of Chillianwala.

Choice for Skill Enhancement Courses:

Group – A (Sem. – 3 / Sem. - 5)	Group – B (Sem. – 4 / Sem. - 6)
Naval Armament & Drawing and Process of Night March (SEC – A 1)	Air Force Armament & Service Protractor and its Applications (SEC – B 1)
Land War Fare & Mountain War Fare (SEC – A 2)	Sketching of Strategic Maps of India (SEC – B 2)

Semester: 3 Skill Enhancement course: 1 Paper Code: DFS-G-SEC-A – 3 – 1 - TH	Credit: 2 Full marks: 80
Minimum number of class required: 30	

Unit – 1

20 L

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.

Unit – 2

10 L

Technical Drawing and Process of Night March.

Semester: 4 Skill Enhancement course: 2 Paper Code: DFS-G-SEC-B – 4 – 2 - TH	Credit: 2 Full marks: 80
Minimum number of class required: 30	

Unit – 1

20 L

Diagram, Characteristics and Mechanism of Air Force Armament:

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

Unit – 210 L

Service Protractor and its Applications.

Semester: 5 Skill Enhancement course: 3 Paper Code: DFS-G-SEC-A – 5 – 3 - TH	Credit: 2 Full marks: 80
Minimum number of class required: 30	

Unit – 1

20 L

Diagram, Characteristics and Applications of some weapons carrier of Land War Fare:

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

Unit – 1

10 L

Inter-visibility in perspective of Military Geography in Mountain War Fare:

Semester: 6 Skill Enhancement course: 4 Paper Code: DFS-G–SEC-B – 6 – 4 - TH	Credit: 2 Full marks: 80
Minimum number of class required: 30	

Sketching of Strategic Maps of India:

30 L

- 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.

N.B.:Defence Studies General shall have two groups (A & B) of SEC papers. One paper from Group A to be chosen in the third and fifth semester & one paper from Group B to be chosen in the fourth and sixth semester.

Choice for Discipline Specific Electives:

Group – A (Sem. - 5) (Any one)	Group – B (Sem. - 6) (Any one)
Security of India(DSE – A)	Frontiers of India(DSE – B)
Organizations of Indian Armed Forces(DSE-A)	International Relation(DSE – B)

Semester: 5 Discipline Specific Elective: 1 Paper Code: DFS-G–DSE-A – 5 – 1 - TH &DFS-G–DSE-A – 5 – 1 - P	Credit: 4+2=6* Full marks: 50+30
Minimum number of class required: 60 + 40	
*4 credit for theory +2 credit for practical or project	

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.

Project and Presentation: 30 Marks

- a. News Paper clippings on securities related issues.

Semester: 5 Discipline Specific Elective: 2 Paper Code: DFS-G–DSE-A – 5 – 2 - TH &DFS-G–DSE-A – 5 – 2 - P	Credit: 4+2=6* Full marks: 50+30
Minimum number of class required: 60 + 40	
*4 credit for theory +2 credit for practical or project	

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.

Project and Presentation: 30 Marks

- a. News Paper clippings on securities related issues.

Semester: 6 Discipline Specific Elective: 3 Paper Code: DFS-G–DSE-B – 6 – 3 - TH &DFS-G–DSE-B – 6 – 3 - P	Credit: 4+2=6* Full marks: 50+30
Minimum number of class required: 60 + 40	
*4 credit for theory +2 credit for practical or project	

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

Project and Presentation: 30 Marks

- a. Modern Weapons by Power Point.

Semester: 6 Discipline Specific Elective: 4 Paper Code: DFS-G–DSE-B – 6 – 4 - TH &DFS-G–DSE-B – 6 – 4 - P	Credit: 4+2=6* Full marks: 50+30
Minimum number of class required: 60 + 40	
*4 credit for theory +2 credit for practical or project	

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).

Project and Presentation: 30 Marks

- a. Modern Weapons by Power Point.