

UNIVERSITY OF KALYANI

REVISED SYLLABUS

FOR THREE YEARS B.Sc. DEGREE COURSE

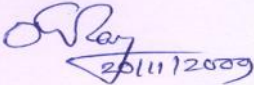
(GENERAL)

IN

DEFENCE STUDIES

**According to the New Examination Pattern
Part – I, Part- II & Part- III**

**WITH EFFECT FROM THE SESSION
2009 – 2010**


20/11/2009
Secretary, Faculty Councils (U.G.)
University of Kalyani
Kalyani, Nadia


UNIVERSITY OF KALYANI
KALYANI NADIA
COUNCIL FOR UNDER GRADUATE STUDIES
PROCEEDINGS OF THE 21ST MEETING OF THE (PREVIOUS) COUNCIL FOR UG
STUDIES HELD ON 13/09/2005

Revised Structure and Distribution of Marks for Practical Based S Subjects at UG Level
w.e.f. Academic Session 2005-2006

BACHELOR OF SCIENCE (GENERAL)	PART-I	PART-II	PART-III
Compulsory English : One half paper : 50 Marks Modern Indian Language : One half paper : 50 Marks	50 Marks 50 Marks	- - -	- - -
Environmental Studies : One full paper* : 100 Marks*	100 Marks*		
Elective Subjects : Three : Four full papers : 3x4x100 each =1200 Marks	3x1x100 =300 Marks	3x2x100 =600 Marks } Th: 3x1x100 = 300 Marks Pr: 3x1x100 = 300 Marks	3x1x100 =300 Marks } Th : 3x1x 60 = 180 Marks Pr : 3x1x40 = 120 Marks
AGGREGATE MARKS : 1400	500 Marks	600 Marks	300 Marks

BACHELOR OF SCIENCE (HONOURS)	PART-I	PART-II	PART-III
Compulsory English : One half paper : 50 Marks Modern Indian Language : One half paper : 50 Marks	50 Marks 50 Marks	- -	- -
Environmental Studies : One full paper* : 100 Marks*	100 Marks*	-	-
Elective subjects : Two : Three full papers : 2x3x100 each = 600 Marks	2x1x100 Marks =200 Marks	2x2x100 =400 Marks } Th: 2x1x100 =200 Marks Pr: 2x1x100 =200 Marks	- -
One Honours Subject = 800 Marks			
Theory: Seven Papers = 540 Marks Practical: Four Papers = 260 Marks	200 Marks (Th: 2 x 75 Marks) (Pr : 1 x 50 Marks)	200 Marks (Th: 2 x 75 Marks) (Pr : 1 x 50 Marks)	400 Marks (Th: 3 x 80 Marks) (Pr : 2 x 80 Marks)
<u>For Computer Science Honours</u>		<u>For Computer Science Honours</u>	
Theory : Seven Papers = 440 Marks Practical : Four Papers = 280 Marks Project : One Paper = 80 Marks	200 Marks (Th: 2 x 50 Marks) (Pr: 1 x 100 Marks)	200 Marks (Th: 2 x 50 Marks) (Pr: 1 x 100 Marks)	400 Marks (Th: 3 x 80 Marks) (Pr : 1 x 80 Marks) (Project : 1 x 80 Marks)
AGGREGATE MARKS : 1600	600 Marks	600 Marks	400 Marks

* With effect from the session 2009-2010.


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Revised Syllabus of Defence Studies (General Course)

(w.e.f. the session 2009-2010)

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Paper- III	Practical	<i>(Page-G-3)</i>
<u>Part-III</u>		
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	Practical	<i>(Page-G-4)</i>


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Distribution of Marks

1. Part – I
- | | | |
|---------------------------|---------------------|-----------------------|
| Paper – I | - Marks -100 | - Periods -100 |
| India's National Security | | |
2. Part – II
- | | | |
|---------------------------------|----------------------|------------------------|
| Paper – II (Theory) | - Marks - 100 | - Periods- 100 |
| Warfare and Indian Armed Forces | | |
| Paper – III (Practical) | - Marks -100 | - Periods - 100 |
| Military History | 20 Marks | |
| Map Reading | 25 Marks | |
| Weapon System | 25 Marks | |
| Project & Viva-Voce | 30 Marks | |
3. Part – III
- | | | |
|----------------------------------|---------------------|------------------------|
| Paper – IV | - Marks -100 | - Periods - 100 |
| (a) Theory- | 60 Marks | - Periods -70 |
| India & her neighbours | | -25 |
| Defence Production & Procurement | | -15 |
| Armed Forces and Society | | -15 |
| Recruitment/Enrolment | | -15 |
| (b) Practical | 40 Marks | -Periods - 30 |
| Project | | - 30 |
| Viva-Voce | | - 10 |

Part – I**Paper – I****Indian's National Security (Periods – 100)****Full Marks – 100****No. of Periods**

- | | |
|--|----|
| 1. Introduction to Defence Studies – Aim Scope and career prospect in Defence. | 10 |
| 2. Geo-Strategic Aspects of Defence & Security | 20 |
| a) Factors affecting war & security – Boundary, Size & shape, topography | |
| b) Location, climate, population – | |
| c) Strategic resources | |
| d) Frontiers & Characteristics | |
| e) Sea Coasts & Ports | |
| 3. Economic Aspects of Defence & Security - | 15 |
| a) Industrial Developments & Defence | |
| b) Transport & Communications | |
| c) Defence Expenditure & Procurement | |
| d) Science and Technology in Defence | |
| e) Effects of war on economy | |
| 4. National Security - Internal & External | 15 |
| a) Problems of Internal Security and its causes. | |
| b) Insurgency & Terrorism | |
| c) Problems of External Security – Threats from Hostile neighboring Countries, Cross -border terrorism | |
| d) Foreign Policy considerations | |
| e) International obligations for Peace & Security | |
| 5. International Defence Pacts/ Agreements | 20 |
| a) Pacts & Treaties concepts & scope | |
| b) NATO, WARSAW, CENTO, SEATO | |
| c) SAARC & Economic/Social cooperation | |
| d) Relations with Big Powers – USA, RUSSIA, UK, FRANCE, CHINA | |
| e) Disarmament – NPT, Civil Nuclear agreement, Future Nuclear cooperation | |
| 6. National Security Organizations – India | 20 |
| a) National Defence Policy | |
| b) Policy & Methods – Public information, Publicity & Propaganda | |
| c) Organization & Administration – Ministry of Defence | |
| d) Organization & Administration of Defence Forces – Army, Navy and Air force | |
| e) Role of Intelligence | |
| f) National Security System including NSG | |

Part – II**Paper – II****Warfare & Indian Armed Forces (Period -100)****Full Marks – 100****No of Periods**

- | | |
|--|----|
| 1. Warfare - | 50 |
| a) War – Definition, objective , scope, causes | |
| b) War – Characteristics, Principles & Functions | |
| c) War – Hot, Cold, Psychological | |
| d) Operations of war – Attack, Defence, Withdrawal | |
| e) Air operations –Aggressive, Protective, Supportive | |
| f) Naval operations – Aggressive, Protective, Supportive | |
| g) Special operations of war – | |
| i) Low Intensity – Counter Insurgency | |
| ii) Jungle, Mountain & Desert warfare | |
| iii) Guerilla warfare | |
| iv) Nuclear, Biological, Chemical warfare | |
| v) Aid to civil Authorities & Disaster Management | |
| 2. Indian Armed Forces - History & Organizations - | 20 |
| a) History – Pre & Post Indepence – Army, Navy , Air force | |
| b) Organization of Armed Forces – Chief of Staff Committee, Head quarters & Commands | |
| c) Second line of Defence – BSF, CRPF, ITBP, Assam Rifles, CISF & Coast Guard | |
| d) National Cadet Corps (NCC) | |
| 3. Indian Army - Functional Organizations | 30 |
| a) Combat Branches – Infantry , Armoured | |
| b) Supporting Arms – Artillery incl Air Def, Engineers , signals, Aviation | |
| c) Logistics – ASC, AOC, EME, AMC | |
| d) Others – Intelligence, Education, Postal, Legal | |

Paper – III**Practical (Periods – 100)****Full Marks – 100**

- | | <u>No of Periods</u> | <u>Marks</u> |
|---|-----------------------------|---------------------|
| 1. Military History | 25 | 20 |
| a) Meaning , scope & relevance | | |
| b) Indian Military Systems – Palas, Sikhs(Ranjit Singh), Maratha(Shivaji) & Mughals | | |
| c) Battle of Panipath, Chillianwala, Plassey | | |
| d) Brief account of Military Operations – Kashmir-47, Chinese 62, Pakistan 65 & 71, Kargil 99 | | |

	<u>No of Periods</u>	<u>Marks</u>
2. Map Reading	20	25
a) Use of Maps - Finding own position, Ground to map and map to ground. b) Use of Compass, Protector – Bearing & Conversion c) Field Sketching & Preparation of Night March Chart d) Conventional symbols		
3. Weapon system	25	25
a) Parts & Characteristics of Small Arms, Guns, Tanks, APCs, Missiles b) Aircrafts – Fighters, Bombers, Transport, Helicopters c) Naval ships – Frigates, Destroyers, Submarine and Aircraft Carriers d) Note : Student will be required to draw and explain important parts / mechanism of different weapons/Equipments.		
4. Project & Viva-Voce	20	30
Note : A - Student will be required to prepare and maintain Laboratory Note Book Covering aspects of Military History, Map Reading and Weapon System and will be assessed out of 70 Marks. B - Viva-Voce will be conducted and assessed out of 30 Marks.		
5. Examination/Visit < Defence Establishment/Places of Military Interest	10	

Part – III

Paper – IV

[Marks – 100 (Theory-60, Practical-40)]- Periods – 100

Part : A – Theory (Periods – 70)

Marks – 60

1. India and her Neighbouring countries – study of Geo-Strategic factors relating to Pakistan, China, Nepal, Bhutan, Bangladesh, Myanmar and Sri Lanka.
2. Defence production & Procurement – Details of Ordnance Factories & Public sector Undertakings, DRDO. Self-sufficiency and dependence for weapons and armaments.
3. Recruitment Systems- Procedure, Selection & Training, benefits of service in respect of Jawans and Officers.
4. Armed Forces and Society – interdependence, role of Armed Forces in National Integration.

PART : B – Practical (Periods 30)

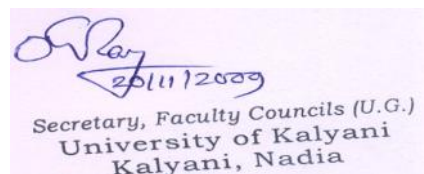
Marks 40

Note 1 : Students will be required to write a Project on a Topic of own choice from out of Theory Part (Sec 1 to 4) using journals and internet and will be assessed out of 30 Marks.

Note 2 : Viva-Voce will be conducted and assessed out of 10 Marks.

REFERENCES

1. Defence Studies – Major P. Sarkar
2. Indian's Security – U.S. Bajpai
3. National Security Problems in India – Dr. L.R. Singh
4. Military Geography – Paltrier Louis
5. Defence Studies- Major M.R. De
6. Economics of National Defence – A.N. Agarwala
7. Indian Security Considerations- Gautam Sen
8. Indian Defence & Foreign Policy - A. Shah
9. Security of South Asia - Khalilzad
10. Defence Organization in India- A.L. Venkataraman
11. Defence Principles & Organization- LT.COL.M.G.Abhyankar
12. Defence Mechanism- Nagendra Singh
13. Military Logistics- Brig. Pranod Sahai
14. Defence Management of India – H.B. Mishra
15. Military History of India- J.N. Sarkar
16. Kautilya Arthashastra – K.B. Kaugly
17. Mannual of Map Roothing – M.P. Sharma
18. Evolution of National Strategy – Col. Ravi Nanda
19. Introduction to Battlefield Weapon System & Technology - P.G.Lee
20. Military technology and Defence Industries – AVM Samir Sen
21. Handbook of Military Science- Capt-KS. Chatterjee
22. India and its Neighbours – U.S. Bajpai
23. South Asia in Transition – K. Bahadur
24. Indo Pak Conflict since 47 – S Ganguly.
25. Akshai Chin and Sino. Indian Border – John Lal
26. Foreign Policy of India- C.P. Bhambri
27. Struggle for Himalayas- S.P. Verma
28. Politics of Srilanka- J. Wilson
29. Defence Production in India – Ron Mathews
30. Defence Management in India- H.B. Mishra
31. Choice of Military Career – J.A. Khan
32. S.S. B. Interviews - M.P. Sharma
33. Military in India - Apurba Kundu
34. The Indian Army – M.K. Singh
35. A handbook of N.C.C.- Major R.C. Mishra
36. An Outline of International Politics – R.T. Jagnane



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