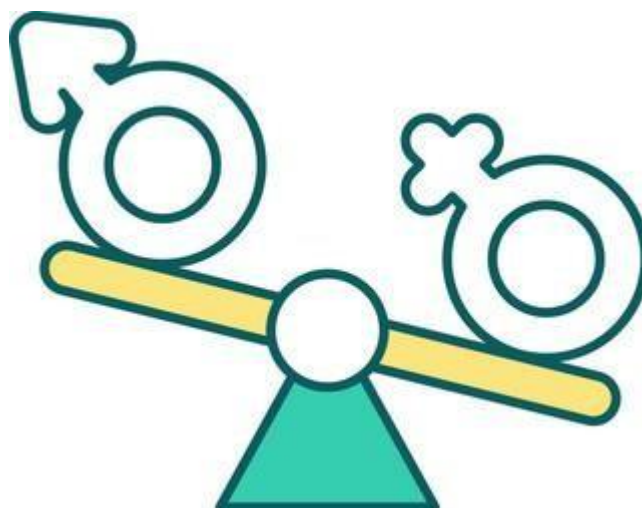




DINABANDHU ANDREWS COLLEGE



**Certificate Course on the Application of Clinical Biochemistry in
Understanding the Hormonal and Enzymatic Disorders and Antibiotics**

Offered by Department of Molecular Biology

Dinabandhu Andrews College

Garia, Kolkata- 84

Title: Certificate Course on the Application of Clinical Biochemistry in Understanding the Hormonal and Enzymatic Disorders and Antibiotics

Course Overview: This course aims to provide participants with a thorough understanding of human hormonal diseases, covering theoretical knowledge and practical applications of clinical Biochemistry.

Eligibility: B.Sc. students with molecular Biology, Microbiology, Zoology, Botany as one of their subjects.

Course Coordinator: Dr. Jayani Guha Roy, Department of Molecular Biology

Joint Coordinator: Dr. Ratna China, Department of Microbiology

Course Duration: 30 Hours (6 hrs x 5 weeks)

Module 1: Common Hormonal Disorders

- Thyroid disorders
- Adrenal disorders
- Pituitary disorders
- Reproductive hormone disorders (ovarian and testicular) disorders
- Hypothalamic and renal disorders

Module 2: General properties and importance of clinically significant enzymes

- SGOT, SGPT
- Alkaline phosphatase and Creatine kinase, lactate dehydrogenase

Module 3: Diagnostic Application

- Measurement of Iron status
- Protein abnormalities
- Therapeutic drug monitoring
- Drugs of abuse testing and the genetic basis of disease

Module 4: General properties of synthetic and naturally occurring antimicrobial drugs

- Selective toxicity and modes of action of Penicillin, Chloramphenicol and Streptomycin.
- Antibiotic resistance.: mechanism of drug resistance, origin & transmission of drug resistance in microbes.

Module 5: Antibiotic sensitivity testing in patients with hormonal disorders

- Isolation of pure culture from patients with hormonal disorder
- Antibiotic Sensitivity Assay

Course Outcome

After completing the course, the participants will learn about the significance of hormonal regulation in human health. They can identify and differentiate between various hormonal disorders affecting different endocrine organs. They will also know about the pathophysiology of some common enzymatic disorders and learn about antibiotics and their role in human health.



LEARNING RESOURCES

SL. NO.	TITLE OF THE BOOK	AUTHOR(S)	PUBLISHER
1.	Clinical Biochemistry and Metabolic medicine	Crook, M. A.	Hodder Arnold
2.	Introduction to Biomedical Instrumentation	Singh, M.	Prentice Hall, India
3.	Biochemistry	Voet, D. and Voet J. G.	John wiley and Sons
4.	Essentials of medical Microbiology	Apurba S Sastry, Sandhya Bhatt	Diginerve
5.	Principles Of Microbiology	Ronald M, Atlas	Brown Publisers

EVALUATION POLICY FOR THE ADD-ON COURSE :

Total Marks of the Evaluation process would be – 50

The Evaluation would be done through 2 components –

- i) Course-end Assessments (Written Test) [Total Marks: 40]
- ii) Practical /LAB [Total Marks: 10]

TABLE FOR QUALIFICATION TOTAL SCORE (OUT OF 50)

TOTAL SCORE (OUT OF 50)	GRADE
45 – 50	O – OUTSTANDING
40 – <45	E – EXCELLENT
35 – <40	A – VERY GOOD
30 – <35	B – GOOD
25 - <30	C - FAIR
BELOW 25	F - FAILED

GENERAL RULES AND REGULATIONS

1. Students must attend and appear for the Course-End Assessment Examination. If any student fails to submit the Course-End Assessment or fails to attend the Course-End Assessment Examination , the particular Student would NOT BE ELIGIBLE FOR CERTIFICATE.
2. Students must attend and appear for the Course-End Viva. If any student fails to attend the Course-End Viva, the particular Student would NOT BE ELIGIBLE FOR CERTIFICATE.
3. Total Marks of Course Evaluation will be 50 Marks.
4. Minimum 50% Marks has to be scored to receive any Certificate.
5. There will be NO PROVISION for Backlog Clearance.
6. General Rules and Regulations of the College must be followed without any exception.
7. Minimum 75% attendance is required to receive the certificate of the course.



Dinabandhu Andrews College
P.O. Garia, Kolkata 700 084

Certificate Course No.	
Title of the Certificate Course	AN EXPOSURE TO SERICULTURE
Name of the Academic Department offering the Course	DEPARTMENT OF SERICULTURE
Duration of the Course	6 MONTHS
Theme of the Course	The main objective of framing this new syllabus is to give the students a thorough understanding of the subject giving adequate weightages to both the core content and techniques used in Sericulture.
Course Outcome	Train the students in identifying the diseases and pests of the mulberry plant. - It also involves giving students a thorough knowledge about the cultivation of mulberry, maintenance of the farm, seed technology, silkworm rearing and silk reeling.
Whether the course is comparable with any part of the CU Curricula	No
Course Co-Ordinator	DR. SWAPNA BANERJEE (ASSOCIATE PROFESSOR)
Name of the faculty members	1. KRISHNENDU DAS (SACT II) 2. MADHUJOYA DASGUPTA (SACT II) 3. MRITTIKA SENGUPTA (SACT II)

Krishna Das
Department of Sericulture
Dinabandhu Andrews College
Garia, Kolkata-700 084