

30 Hour Add On Course on Herbarium Technology



Offered by the Department of Botany:

DINABANDHU ANDREWS COLLEGE GARIA, KOLKATA

Title:

Certificate Course on Herbarium Technology

Course Overview: This certificate course is designed to foster expertise in plant specimen handling and management, contribute to biodiversity conservation efforts and prepare individuals for roles in both academic and applied settings related to plant sciences.

Course Duration: 30 hours (6 hrs per week x 5weeks)

One Class (Theory): 1 Hour

Lab: 2 Hours

Final Assessment on the Last day

Course Fee: Free of Cost

Pedagogy: Lecture on theory and Practical

Course Coordinator: Dr. Joy Sarkar, Dr. Mithun Maji & Dr. Rupa Chakraborty

SYLLABUS STRUCTURE OF THE ADD-ON COURSE

Module	UNIT TITLE	HOURS
Module -1	Introduction To Herbarium	3
Module -2	Collection & Types of Herbarium	6
Module -3	Processing of specimen	9
Module -4	Collection, preservation and identification of few important biological species	9
Module -5	Maintenance	3
	30	

Module 1: Introduction To Herbarium

Introduction of herbarium, herbarium sheet, history, objective and role of herbarium in research and academics.

Module 2: Collection & Types of Herbarium

Field equipment, field work, field notebook, and details of collection process of specimen for herbarium. Details of different types of herbaria, acronyms, functions of herbaria and few important herbaria of world and India.

Module 3: Processing of specimen

Details of poisoning, pressing, drying, mounting, stitching, labeling, identification and determination of plant, incorporation.

Module 4: Collection, preservation and identification of few important biological species

Brief discussion on Collection, preservation and identification of few important species such Algae, wild mushrooms and bryophytes.

Module 5: Maintenance

Introduction to different methods of maintenance of such as fumigation, heating, chemical treatment etc.

Course Outcome:

- Students will be able to understand how the herbariums should be organised.
- Understand the working rule in an International herbarium.
- Students will be able to learn how the specimens are collected and preserved.
- Understand the usage of floras and identification keys.
- Students will be capable to organize the identified plants according to scientific rules.

LEARNING RESOURCES

SL.	TITLE OF THE BOOK	AUTHOR(S)	PUBLISHER
NO.			
1	Herbarium Technique	PAYEL PAUL, SAYANTAN DHAR, DIPAYAN DAS, & Dr. MONORANJAN CHOWDHURY	Orange Books Publications
2	A Handbook of Field and Herbarium Methods	S.K. Jain, R. R. Rao	Rao, R R & S K Jain Publishers
3	Field Manual on Herbarium Techniques	H.B. Singh, B. Subramaniam	National Institute of Science, CSIR
4	Herbarium Book on Flowering Plant	Anupam Rajak	Notion Press



EVALUATION POLICY FOR THE ADD-ON COURSE

The basic philosophy behind the Evaluation policy for this 30 Hours Add-on course is to objectively judge the participants (students) whether the concepts were understandable to them or not and whether they could apply these concepts to solve numerical and conceptual problems. The Evaluation would be done through 2 components –

- i) C1 Course-end Assessments (Written Test) [Total Marks: 30]
- ii) C2 Practical /LAB [Total Marks: 20]

Total Marks of the Evaluation process would be – 50 Marks

TABLE FOR QUALIFICATION

TOTAL SCORE (OUT OF 50)	GRADE
45 – 50	O – OUTSTANDING
40 – 44	E – EXCELLENT
35 – 39	A – VERY GOOD
30 – 34	B – GOOD
25 -29	C – FAIR
BELOW 25	F – FAILED

GENERAL RULES AND REGULATIONS

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