EASTERN KARBI ANGLONG COLLEGE

Sarihajan, Karbi Anglong, Assam

Key Indicator

1.3 - Curriculum Enrichment

Metric No. 1.3.2

Number of courses that include experiential learning through project work/field work/internship during the year

&

Metric No. 1.3.3

Number of students undertaking project work/field work/ internships

Department of Botany
CBCS syllabus on
Project Work/Field Study
Session: 2022-23

SCHEME AND SYLLABUS UNDER CHOICE BASED CREDIT SYSTEM

B.Sc. WITH BOTANY & GENERAL ELECTIVES

Semester	**Discipline Specific Core Course DSC (12)**	**Ability Enhancement Compulsory Courses AEC (2)**	**Skill Enhancement Courses SEC (4)**	**Discipline Specific Elective DSE (6)**
I	DSC- I-Plant Biodiversity DSC- Zoology I DSC- Chemistry I	English Communication		
II	DSC- II (Plant Ecology And Taxonomy) DSC- Zoology II DSC- Chemistry II	Environmental Science		
III	DSC-III (Plant Anatomy and Embryology)) DSC- Zoology III DSC- Chemistry III		SEC-I (Ethnobotany)	
IV	DSC- IV (Plant Physiology and Metabolism) DSC- Zoology IV DSC- Chemistry IV		SEC-II (Mushroom Culture Technique)	
V			SEC-III (Plant Diversity & Human Welfare)	DSE- I (Analytical techniques in plant sciences) DSE-Zoology I DSE-Chemistry I
VI			SEC-IV (Nursery & Gardening)	DSE- II (Research methodology) DSE-Zoology II DSE-Chemistry II

DSC- II Practical
Plant Ecology and Taxonomy

Marks-50 **Credit-2**

1. Meteorological Visit, Study of instruments used to measure microclimatic variables: Soil thermometer, maximum and minimum thermometer, anemometer, psychrometer/hygrometer, rain gauge and lux meter.
2. Determination of pH, and analysis of two soil samples for carbonates, chlorides, nitrates, sulphates, organic matter and base deficiency by rapid field test.
3. (a) Study of morphological adaptations of hydrophytes and xerophytes (four each). (b)Study of biotic interactions of the following: Stem parasite (*Cuscuta),* Root parasite (Orobanche), Epiphytes, Predation (Insectivorous plants)
4. Determination of minimal quadrat size for the study of herbaceous vegetation in the college campus by species area curve method. (species to be listed)
5. Quantitative analysis of herbaceous vegetation in the college campus for frequency and comparison with Raunkiaer's frequency distribution law
6. Study of vegetative and floral characters of the following families (Description, V.S. flower, section of ovary, floral diagram/s, floral formula/e and systematic position according to Bentham & Hooker's system of classification):Brassicaceae - *Brassica, Alyssum / Iberis;* Asteraceae -*Sonchus/Launaea, Vernonia/Ageratum, Eclipta/Tridax;* Solanaceae -*Solanum nigrum, Withania;* Lamiaceae -*Salvia, Leucus, Ocimum*; Liliaceae - *Asphodelus / Lilium / Allium.* Musaceae- *Musa*
7. Mounting of a properly dried and pressed specimen of any wild plant with herbarium label (to be submitted in the record book).

Suggested Readings

1. Kormondy, E.J. (1996). Concepts of Ecology. Prentice Hall, U.S.A. 4th edition.
2. Sharma, P.D. (2010) Ecology and Environment. Rastogi Publications, Meerut, India. 8th edition.
3. Simpson, M.G. (2006). *Plant Systematics.* Elsevier Academic Press, San Diego, CA, U.S.A.
4. Singh, G. (2012). *Plant Systematics:* Theory and Practice. Oxford & IBH Pvt. Ltd., New Delhi. 3rd edition.

Department of Botany
Session: 2022-23
List of students participated in the field study

Programme	Department	Honours/Pass Course	Semester	Course Code	Course Name	Date	Place Visited	Name of the students	Total No. of students
Bachelor of Science (BSc)	Botany	Pass Course	2nd	BOTDSC/ GE-202L	Plant Ecology and Taxonomy	2nd August, 2022	Neighbouring areas of Eastern Karbi Anglong College	Sanam Mishra Rabina Phangchopi Anirudha Phukan Long Im Taro Bikash Dey Sarkim Timung Sarbini Tokbi Harmon Kathar Nisha Sutradhar Purna Shyam Rinky Das Ankita Deb Rupdihin Beypi Anilson Teron Klambang Engti Binoy Subba Rahul Das	17

Field Visit Report of Department of Botany

Date: 2nd August, 2022

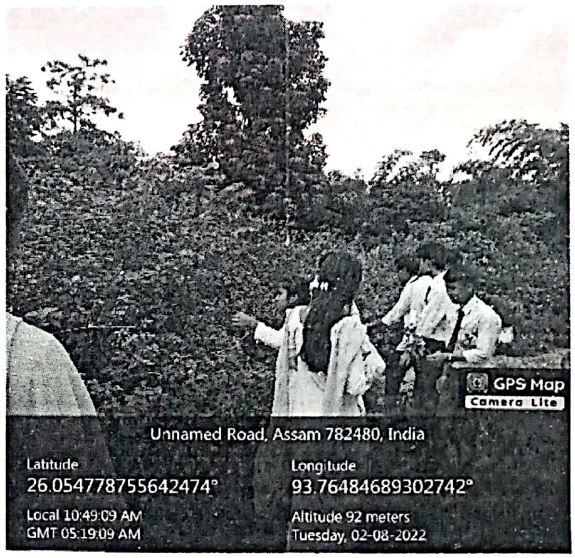
Organizer: Department of Botany, Eastern Karbi Anglong College

Place Visited: Neighbouring areas of Eastern Karbi Anglong College

Aim and Purpose: Field Study is an essential part of Botany. The natural environment where we all interact, the plants in their natural habitat is one of the most interesting things that is needed to be studied by the students of Botany. Studying plants in their natural habitat enhances our knowledge that is learnt from the classroom discussion and laboratory experiments.

Department of Botany, Eastern Karbi Anglong College has conducted a field study programme with the Generic and DSC students of B.Sc., 2nd Semester students to study the habitat and collection of herbaria from the neighbouring areas of college campus on 2nd August, 2022. Dr. Sangeeta Hazarika, HOD of Botany, led the team. A total seventeen (17) students partake in the tour.

Program Outcome: By visiting the area, the students came to know about the endemic plant flora of the neighbouring areas of college campus.



Dr. Anil Ch. Das, Principal
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