

OFFICE OF THE DIRECTOR OF HIGHER & TECHNICAL EDUCATION
MEGHALAYA :: :: :: SHILLONG

No.CE/GC/PRO/ET/1/2018-2019/80,

Dated Shillong the 22nd July, 2022.

From: Dr. E. K. Mawkhiew,
Dy. Director of Higher Technical Education,
Meghalaya, Shillong.



To: The Principal,
Kiang Nangbah Government College,
Jowai.

Subject: Sanction for Field study trip in respect of Kiang Nangbah Government College, Jowai.

Sir,


With reference to the subject cited above, I am to forward herewith letter No.EDU/0298/2223/GEN, dated 18th July, 2022 and Sanction No:EDU/0338/15072022/2202/23, Sanction ID:2992 in connection with sanction for Field study trip in respect of Kiang Nangbah Government College, Jowai.

The amount has been allotted through BEAMS.

This is for your information and necessary action.

Enclosures: As stated.

Yours faithfully,


Dy. Director of Higher & Technical Education
Meghalaya :: :: :: Shillong



Government of Meghalaya
Education Department

190

No.EDU/0298/2223/GEN

Dated: 18-07-2022

Sanction No: EDU/0338/15072022/2202/23

Sanction ID:2992

From : Shri P.N.Sangma
Deputy Secretary.
Education Department

To : The Director of Higher and Technical Education
Meghalaya Shillong

Sub : Sanction for Field study trip in respect of Kiang Nangbah Govt College, Jowai.

Sir,

I am directed to convey the sanction of the Governor of Meghalaya for an amount not exceeding ₹4,25,000.00/- (Rupees Four Lakhs Twenty Five Thousand only) for field study trip in respect of Zoology and Botany Department of Kiang Nangbah Govt College, Jowai..

The relevant rules and procedures laid down for incurring the expenditure and drawing and disbursement of the money should be strictly adhered to.

The expenditure is debitible to the Head of Account "212202031032300V1" (2202-GENERAL EDUCATION 03-UNIVERSITY AND HIGHER EDUCATION 103-GOVERNMENT COLLEGES AND INSTITUTES (23)-Excursion for College students 00-- 36-Grants-in-aid General (Non-Salary) General) for amount Rs. 4,25,000.00/- during the year 2022-2023.

The sanction is issued with the concurrence and approval of Finance Department vide Finance Memo vide No: FIN/477/2022-23, dated 12 Jul, 2022.

Yours faithfully

Deputy Secretary of Govt. of Meghalaya
Education Department

Dated Shillong the 18-07-2022

Memo No.EDU/0298/2223/GEN-A

Copy forwarded to:

1. Finance (EC-II) Department for Information
2. Finance (B) Department
3. Treasury Officer, Jowai.
4. Office Copy

By Order etc...

Deputy Secretary of Govt. of Meghalaya
Education Department

Dated Shillong the 18-07-2022

Memo No.EDU/0298/2223/GEN-B

Copy forwarded to:

1. The Accountant General (Audit)
2. The Accountant General (Accounts)

By Order etc...

Financial Adviser,
Education Department



Revised

REG. NO. 118
Syllabus 2015



NORTH - EASTERN HILL UNIVERSITY
Headquarter :: Shillong

Dated 3rd June, 2015

No. F.3-3/Ex/Con/2015- 438

To,

The Principal,

Kiang Noy Sah Gout. college
Jowai


118
11/6/15

Subject: Revised Under Graduate Syllabus in BSc.(Botany) under the Semester System.

Sir/Madam,

Please find enclosed a copy of the Revised Under Graduate Syllabus of B.Sc.(Botany) under the Semester System with minor corrections for favour of your information and necessary action.

The earlier version of BSc.(Botany) Syllabus issued vide letter No.F.2-3/Exam/Con/2015-425, dt.23.3.2015 stands withdrawn.


3.6.15
Controller of Examination

Copy to :

1. Dr. S.K. Barik, Chairman, BoS in Botany, NEHU, Shillong for information.



Semester 3

Paper 3: Theory

Angiosperm taxonomy, Economic Botany, Ethnobotany and Phytogeography

Unit 1

1. Major systems of classification – artificial, natural and phylogenetic.
2. Bentham and Hooker's, and Hutchinson's system of classification.
3. I.C.N. – Principles of Botanical Nomenclature, Type method and typification, and Rules and limitations of Priority.
7 methods of Types.

Unit 2

1. Distinguishing features and economic importance of the following dicotyledonous families: Ranunculaceae, Fabaceae, Asteraceae, Solanaceae, Verbenaceae and Lamiaceae.
2. Distinguishing features and economic importance of the following monocotyledonous families: Liliaceae, Zingiberaceae, Orchidaceae and Poaceae.

Unit 3

1. Ethnobotany and its significance; Study of some ethnobotanical plants of north- eastern India having medicinal and food values.
2. Study of economically important plants – cereals, pulses, oil yielding, spices, condiments, fibres, ornamentals and aromatic (scientific names, families, and parts used of at least three plants under each category).
3. Characteristics, cultivation and uses of aromatic and medicinal plants (*Citronella* and *Rauwolfia*).
4. Characteristics, cultivation and uses of timber yielding plants (Teak and Sal).
5. Cultivation and processing of tea and rubber.

Unit 4

1. Floristic regions of India.
2. Continuous and discontinuous plant distribution in India: Factors and theories.
3. Centre of origin of plants (Primary and Secondary centres).
4. Barriers to plant migration.

Paper 3: Practical

Angiosperm taxonomy, Economic Botany, Ethnobotany and Phytogeography

1. Taxonomic studies of angiosperm plants belonging to both dicot and monocot families mentioned in Paper 3. Flower dissection, drawing and description in technical language, and identification upto Genera.
2. Qualitative detection of starch, protein, fat and cellulose in plant materials by chemical tests.
3. Spotting: Economically important plants or plant products prescribed in Paper 3.
4. Techniques for preparation of herbarium sheets of flowering plants and submission of at least 5 herbarium sheets.
5. Study of 5 plants having ethnobotanical importance.
6. One local field trip of botanical relevance.

Recommended Readings

- ✓ Naik, V.N. 2014. Taxonomy of Angiosperms. Tata McGraw Hill Publ. New Delhi.
- ✓ Lawrence, G.H.M. 1951. Taxonomy of Vascular Plants. Macmillan Company, New York.
- ✓ Puri, G.S. 1990. Forest Ecology Volume 1. Oxford IBH, New Delhi.
- ✓ Jain, S.K. 1981. Glimpses of Indian Ethnobotany. Oxford IBH, New Delhi.





KIANG NANGBAH GOVT. COLLEGE, JOWAI.
DEPARTMENT OF BOTANY
REPORT ON STUDY TOUR 2023.

The Department of Botany has conducted a study tour for the 6th semester students w e f 28th June to 3rd July 2023 to Sikkim. The tour was under the escort of teachers – Dr. (Mrs.) B Gashnga, Shri L Ksoo, Smt. J. Dkhar, and Dr. B R Suchiang along with Smt. P. Lakiang (the helper of the dept). There are 26 students of which 4 males and 22 females.

We started off from Jowai on the 28th June to ISBT Shillong, and from there to Siliguri with a bus. we reached Siliguri the next morning and we hired TATA sumos vehicles from there to travel to Sikkim, Sumo stand. Then we took taxis to the lodging place. we stayed for 3 days and returned on the 2nd July and reached Jowai on the 3rd July morning. The study tour itinery was carefully planned to cover a variety of ecosystems and regions in Sikkim and its adjoining areas. During our stay, we witnessed the rich cultural heritage of Sikkimese and its ethnicity. we had the opportunity to visits some places of interests such as Nathula Pass, Tsongmo Lake, Plant Observatory, Flower exhibits, Directorate of handloom, Tibetan Museum, Monastery and the markets, etc.

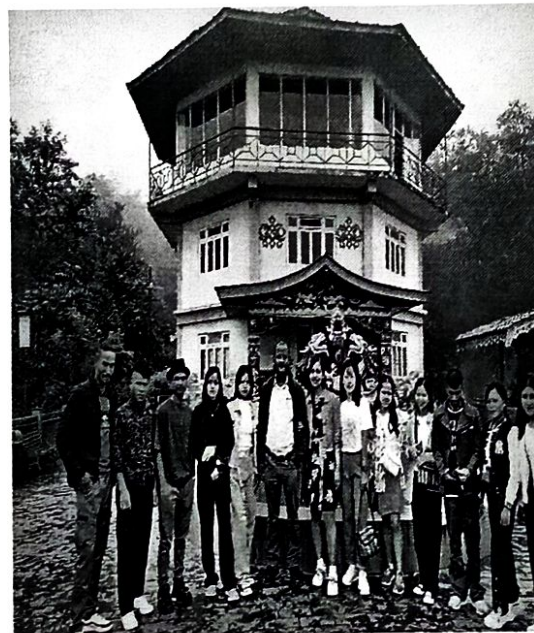
The primary objective of this study tour was to expose our students to the unique biodiversity and ecological landscapes of Sikkim, which is known for its rich plant diversity, ranging from alpine meadows to subtropical forests. The students can witness the change of vegetation pattern as we move from lower altitude to higher altitude. Owing to its altitudinal gradation, the students are able to see the wide variety of plants that are present in the five forest types of Sikkim (Sub- tropical, Moist mixed deciduous, Wet temperate, Conifer and Sub-alpine forest) on this study tour. Some of the plants that are seen during the tour are Junipers, Pines, Firs, Oaks, Cypresses, Rhododendrons, Orchids and some wild plants which are fascinating to the human eye.

Some of the common plant species that are encountered during the tours are *Tectona grandis*, *Shorea robusta*, *Pandanus sp.*, *Phoenix sp.*, *Abies densa .*, *Tsuga sp .*, *Betula sp. .*, *Begonia sp .*, *Rhododendrons sp .*, *Primulas and Potentillas sp.*, The most common animal species that are seen are the Himalayan Yak(*Bos grunniens*) and Assamese Macaque (*Macara assamensis*)

Overall, this trip has provided us the opportunity to explore and expose ourselves to nature's storehouse of knowledge. It enables students to learnt not only the flora and fauna of the state but also gives them the opportunity to learn the life and the culture of the people which will enhance their understanding of the importance of diversity in culture, practices, beliefs and way of life by the people.







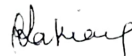



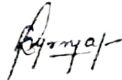
Figure 1 GANGTOK, SIKKIM



THANK YOU


Smt. A Mawa
HOD, BOTANY DEPARTMENT.

Sikkim Study Tour
Department of Botany
Kiang Nangbah Government College, Jowai
Attendance

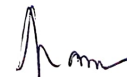
S.No.	Name	Designation	Signature
1.	Dr. Buromlang Gashnga	Teacher	
2.	Laitphangchwa Ksoo	Teacher	
3.	Jessieca Dkhar	Teacher	
4.	Dr. Blessing Roy Suchiang	Teacher	
5.	Phuh Lakiang	Non-Teaching Staff	
6.	Aitilut Langshiang	Student	
7.	Ba-Itynnad Lapasam	Student	
8.	Balabanroi Dhar	Student	
9.	Edity Pyrngap	Student	



10.	Eladlangki Dhar	Student	Eladlangki Dhar
11.	Glowelcy Pohthmi	Student	Pohthmi
12.	Iwanmai Pohtam	Student	IPohtam
13.	Jefferson Nongjied	Student	J.N.
14.	Lalzaparmoi Thiaite	Student	L. Thiaite
15.	Mandaroi Langiar	Student	M. Langiar
16.	Pynjanailang Sariang	Student	P. Sariang
17.	Pynkmenlangmiki Lamare	Student	P. Lamare
18.	Pynmanlangki Dkhar	Student	P. Dkhar
19.	Rabia Shylla	Student	R. Shylla
20.	Remonstar Shylla	Student	R. Shylla
21.	Satisfy Ryngkhlem	Student	S. Ryngkhlem



22.	Seini Sari	Student	S. Sari
23.	Shandakabiang Suchiang	Student	S. Suchiang
24.	Smillingface Dhar	Student	S. Dhar
25.	Sooki Bareh	Student	Bareh
26.	Tharty Lamurong	Student	Lamurong
27.	Tia Chyrmang	Student	Chyrmang



Smt. Arabiancy Mawa
Associate. Professor,
K. N. Govt. College, Jowai

