

DEPARTMENT OF BOTANY

PROJECT REPORT (2nd semester NEP)

SYLLABUS

1. Ranawat, G.S. and Mukhopadhyay, A. (1986). Floriculture in India. Allied Publishers.

COURSE TITLE B: MEDICINAL BOTANY

COURSE OBJECTIVES:

After completion of the course the learners will be able to:

- ◆ discuss the history, scope and importance of plants as sources of medicines;
- ◆ describe methods for sustainable utilization of plant herbal resources;
- ◆ apply the knowledge gained in utilizing plants used as traditional/ folk medicines and strategize their conservation.

COURSE CONTENT (THEORY) UG-H-BOT-SEC-T-02-B

Unit 1:

(8)

History, Scope and Importance of Medicinal Plants. Indigenous Medicinal Sciences; Definition and Scope - Ayurveda: History, origin, panchamahabhutas, saptadhatu and tridosha concepts, Rasayana, plants used in ayurvedic treatments, Siddha: Origin of Siddha medicinal systems, Basis of Siddha system, plants used in Siddha medicine. Unani: History, concept: Umoor-e- tabiya, tumors treatments/ therapy, polyherbal formulations.

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Unit 2:

(8)

Conservation of endangered and endemic medicinal plants. Definition: endemic and endangered medicinal plants, Red list criteria; *in situ* conservation: Biosphere reserves, sacred groves, National Parks; *ex situ* conservation: Botanic Gardens, Ethnomedicinal plant Gardens. Propagation of Medicinal Plants: Objectives of the nursery, its classification, important components of a nursery, sowing, pricking, use of green house for nursery production, propagation through cuttings, layering, grafting and budding.

Unit 3:

(9)

Ethnobotany and Folk medicines. Definition; Ethnobotany in India: Methods to study ethnobotany; Applications of Ethnobotany: National interacts, Palaeo-ethnobotany. Folk medicines of ethnobotany, ethnomedicine, ethnoecology, ethnic communities of India. Application of natural products to certain diseases- Jaundice, cardiac, infertility, diabetes, blood pressure and skin disease.

COURSE CONTENT (PRACTICAL) UG-H-BOT-SEC-P-02-B

1. Make a field report on the important medicinal plants (at least 10) used by local inhabitants.

SUGGESTED READINGS/ REFERENCES:

STUDENT NAME, ROLL. NO. & SIGNATURE

U.G.2ND SEMESTER EXAMINATION, 2024
DEPARTMENT OF BOTANY
PRACTICAL [BOTANY MAJOR]
BOT-SEC-P-02 B

DATE:03.10.2024

SL. NO	REGN. NO.	SESSION	ROLL NO.	SIGNATURE
1	080122	2023-2024	8121247-2379266	Aishi Adhikari
2	080138		8121247-2379282	Antara Dutta
3	080151		8121247-2379295	Boosha Sarkar
4	080156		8121247-2379300	Bikish Amina
5	080164		8121247-2379319	Devlina Roy
6	080169		8121247-2379323	Devlina Roy
7	080192		8121247-2379336	Jahida Khatun
8	080196		8121247-2379340	Jebun Nesha
9	080199		8121247-2379343	Jemina Khatun
10	080222		8121247-2379366	Manisha Mandal
11	080241		8121247-2379385	Nahida Parvin
12	080247		8121247-2379391	Nargish Sultana Hasan
13	080275		8121247-2379419	Pratya Barua
14	080280		8121247-2379424	Riya Mandal
15	080297		8121247-2379441	Rita Khatun
16	080360		8121247-2379504	Saumita Biswas
17	080367		8121247-2379511	Sujata Mandal
18	080372		8121247-2379516	Sumita Mandal
19	080390		8121247-2379539	Tumpa Khatun
20	080397		8121247-2379591	Abdulila Sulafi

21	080399		8121247-2379543	Abdur Rahaman & k
22	080402		8121247-2379546	Abhira Jyoti Khan
23	080418		8121247-2379562	Aliul Molla
24	080419		8121247-2379563	Aliur Islam
25	080495		8121247-2379639	Bitu Mandal
26	080509		8121247-2379653	Lupel Das
27	080515		8121247-2379659	Duip Mondal
28	080520		8121247-2379664	Faisal Soukh
29	080531		8121247-2379675	Gourab Ghosh
30	080533		8121247-2379677	Gowdanga Das
31	080545		8121247-2379689	Iqbal Ali
32	080574		8121247-2379718	Kazi Rahul
33	080583		8121247-2379727	Kusum Sarker
34	080585		8121247-2379729	Lokesh Biswas

U.G.2ND SEMESTER EXAMINATION, 2024
DEPARTMENT OF BOTANY
PRACTICAL [BOTANY MAJOR]
BOT-SEC-P-02 B

DATE: 03.10.2024

SL. NO	REGN. NO.	SESSION	ROLL NO.	SIGNATURE
35	080620	2023-2024	8122247-2379969	Md. Mehrez Hassan Md. Rokunuddin SK
36	080628		8122247-2379972	
37	080631			
38	080638		8122247-2379982	Mehedi Hossain.
39	080654			
40	080672		8122247-2379986	Qutb Mammad Majidul Biswas
41	080682		8122247-2379986	
42	080685			
43	080686		8122247-23799830	Subham Mondal
44	080703		8122247-23799847	Rajdy Mondal.
45	080713			
46	080732		8122247-23799876	Rocky Das.
47	080742		8122247-23799886	Sabbir Reza
48	080753		8122247-23799897	Sahid Hossain
49	080758		8122247-23799901	Sahinur Alam
50	080759		8122247-23799903	Said Amin
51	080773		8122247-23799917	Sanku Biswas
52	080781		8122247-23799925	Samir Das
53	080788		8122247-23799932	Sarfraz Ansari
54	080795		8122247-23799939	Sayan Deb
55	080796		8122247-23799940	Sayan Mondal

SL. NO	REGN. NO.	SESSION	ROLL NO.	SIGNATURE
56	080805		8122247-23799949	Sayan Sankar
57	080806		8122247-23799950	Shahjalal Raza
58	080809			
59	080826			
60	080828			
61	080829			
62	080841		8122247-23799983	Subham Mistary
63	080843		8122247-23799985	Subham Mallick
64	080855		8122247-23799987	Subham Mondal
65	080872		8122247-23799999	Sudip Mondal
66	080874			
67	080887			
68	080892		8122247-2380028	Susanta Mondal
69	080894		8122247-2380031	Toufik Rahman
70	080340		8122247-2380036	Tushar SK
71	080338	2023-2024		
72	080755	2023-2024	8122247-23799482	Shilpakhatun
73	080641	2023-2024	8122247-23799899	Sahil Ali
			8122247-23799785	Mijan Ali

GPS PICTURE





COMPLITION CERTIFICATE



SRIPAT SINGH COLLEGE
Department of Botany

Jiaganj, Murshidabad, West Bengal, PIN- 742123

☎: 03483 – 255351 (Office); 03483 – 256961. Tele Fax: 03483 - 256961

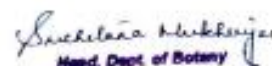
E-mail: sscollege2009@gmail.com. Website: www.sripatsinghcollege.org

Ref. No.:

Date: 11.09.2024

COMPLETION CERTIFICATE

This is to certify that **AISHI ADHIKARY**, student of 2nd semester Botany Major, Sripat Singh College, Jiaganj, Murshidabad, has successfully completed the project entitled "**A Field Report on Important Medicinal Plants**" for partial fulfilment of his curriculum. During this tenure he has shown keen interest in his assignments.


Head, Dept. of Botany
Sripat Singh College

HOD, Botany
Sripat Singh College



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Ref. No.:

Date: 11.09.2024

COMPLETION CERTIFICATE

This is to certify that **MEHEDI HASSAN**, student of 2nd semester Botany Major, Sripat Singh College, Jiaganj, Murshidabad, has successfully completed the project entitled "**A Field Report on Important Medicinal Plants**" for partial fulfilment of his curriculum. During this tenure he has shown keen interest in his assignments.

Sachin Kumar
Head, Dept. of Botany
Sripat Singh College

HOD, Botany

Sripat Singh College

OUTCOME

As mentioned in the syllabus students were asked to make a field report on the medicinal plants normally found in the locality. Their report included photographs of the plant, a brief description of the plants and their medicinal uses. However, the task was also extended by assigning them to plant any important medicinal plant in the medicinal plant garden of the college. Thus, through this project they not only completed the curriculum but was also aware of the importance of the medicinal plants

of the locality. It also helped the students to develop various skills like Critical thinking, Problem solving and Curiosity which inculcates a lifelong interest in the world around them

DEPARTMENT OF BOTANY

PROJECT REPORT (6th semester)

According to University of Kalyani Botany Honours syllabus (CBCS) all 6th semester students in their DSE 4 paper have to choose any one course from Research Methodology or Dissertation/Project. As students were interested in undergoing projects the same was assigned to them. For this purpose, students were chosen through lottery in three groups and were assigned to three mentor Dr. Suchetana Mukherjee, Dr. Roushan Islam, Mr. Debraj Roy. Students performed the task given by their mentors individually and completed their work in given time.

SYLLABUS

University of Kalyani CBCS Curriculum of B.Sc. in Botany (Honours) effective from 2018-19

SEMESTER-V			
COURSE CODE	COURSE TITLE	COURSE WISE CLASS	CREDIT
UG-H-BOT-CC-T-11	Plant Physiology	Core (60L)	4
UG-H-BOT-CC-P-11		Core (60P)	2
UG-H-BOT-CC-T-12	Plant Metabolism	Core (60L)	4
UG-H-BOT-CC-P-12		Core (60P)	2
UG-H-BOT-DSE-T-01	A. Analytical Techniques in Plant Science OR	Discipline Specific Elective (60L+60P)	6 (4T+2P)
UG-H-BOT-DSE-P-01	B. Industrial and Environmental Microbiology		
UG-H-BOT-DSE-T-02	A. Stress Biology OR	Discipline Specific Elective (60L+60P)	6 (4T+2P)
UG-H-BOT-DSE-P-02	B. Plant Breeding and Biometry		
TOTAL FOUR (4) COURSES			24
SEMESTER-VI			
COURSE CODE	COURSE TITLE	COURSE WISE CLASS	CREDIT
UG-H-BOT-CC-T-13	Genetics	Core (60L)	4
UG-H-BOT-CC-P-13		Core (60P)	2
UG-H-BOT-CC-T-14	Plant Molecular Biology and Biotechnology	Core (60L)	4
UG-H-BOT-CC-P-14		Core (60P)	2
UG-H-BOT-DSE-T-03	A. Biodiversity and Conservation OR	Discipline Specific Elective (60L+60P)	6 (4T+2P)
UG-H-BOT-DSE-P-03	B. Coastal Biology		
UG-H-BOT-DSE-T-04	A. Research Methodology OR	Discipline Specific Elective (60L+60P)	6 A:4T+2P B:6P
UG-H-BOT-DSE-P-04	B. Dissertation/ Project		
TOTAL FOUR (4) Courses			24
GRAND TOTAL (ALL SEMESTERS): TWENTY SIX (26) COURSES			140

STUDENT NAME, ROLL.NO. & SIGNATURE

UG 6TH SEMESTER EXAMINATION-2024
 BOTANY
 [HONOURS]
 BOTANY-DSE-BOTHDS - P-04

DATE: 10-08-2024

SL NO	NAME	REGN NO.	SESSION	ROLL NO	SIGNATURE
1	KANIKA DAS	077428	2020-2021	2116247-2077837	Kanika Das.
2	JAINAB KHATUN	091427	2021-2022	2116247-2188958	Jainab khatun
3	JESMIN SULTANA	091428	2021-2022	2116247-2188961	Jesmin Sultana
4	MOUMITA SARKAR	091431	2021-2022	2166247-2188970-	Moumita Sarkar
5	PUBALI PANDE	091435	2021-2022	2116247-2188981	Pubali Pande
6	SAMIMA AKTAR	091437	2021-2022	2116247-2188988	Samima AKTAR
7	SANGEETA DAS	091438	2021-2022	2116247-2188991	Sangeeta Das
8	SHULI MITRA	091440	2021-2022	2116247-2188999	Shuli Mitra
9	SRIJITA SINGHA ROY	091442	2021-2022	2116247-2189007	Srijita Singha Roy.
10	APARUP KARMAKAR	091446	2021-2022	2116247-2189029	Aparup Karumakara
11	ARIT DHAR	091447	2021-2022	2116247-2189032	Smit Dhar
12	ATANU GHOSH	091448	2021-2022	2116247-2189044	Atanu Ghosh
13	DEBJYOTI MUKHERJEE	091449	2021-2022	2116247-2189056	Debjyoti Mukherjee
14	MUSUIR RAHAMAN	091451	2021-2022	2116247-2189103	Musuir Rahman.
15	PRIYATOSH SARKAR	091453	2021-2022	2116247-2189121	Priyatosh Sarkar
16	SAYAN SAHA	091454	2021-2022	2116247-2189151	Sayan Saha
17	SWARAJ MANDAL	091457	2021-2022	2116247-2189177	Swaraj Mandal

GPS PICTURE





FIG. A

FIG. B



FIG. C



FIG. D



FIG. E

[Bacterial Growth in 25°C](#)
[Bacterial Growth in 30°C](#)
[Bacterial Growth in 35°C](#)
[Bacterial Growth in 40°C](#)
[Bacterial Growth in 45°C](#)



Fig - 1: Treatments (25°C,30°C,35°C,40°C,45°C)

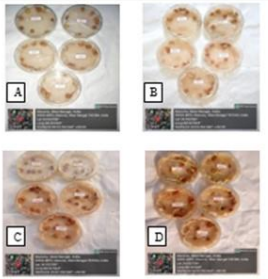


Fig - 2 : Results (A: 2 days, B: 4 days, C: 6 days, D: 8 days)

COMPLETION CERTIFICATE



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Ref. No.:

COMPLETION CERTIFICATE

Date: 26.07.2024

This is to certify that **MOUMITA SARKAR** student of 6th semester Botany Honours, Sripat Singh College, Jaganj, Murshidabad, has successfully completed the project entitled **"EFFECT OF HEAVY METALS ON MITOTIC CHROMOSOME BEHAVIOUR OF *Aloe vera*"** under the guidance of **DR. ROUSHAN ISLAM** for partial fulfilment of his curriculum. During this tenure he has shown keen interest in his assignments.

Principal
Sripat Singh College
DR. KAMAL KRISHNA SARKAR
Principal
Sripat Singh College
Jaganj, Murshidabad

Mentor
Dept. of Botany
Sripat Singh College

HOD, Botany
Sripat Singh College
HOD
Department of Botany
Sripat Singh College



SRIPAT SINGH COLLEGE

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Ref. No.:

Date: 26.07.2024

COMPLETION CERTIFICATE

This is to certify that SWARAJ MANDAL, student of 6th semester Botany Honours, Sripat Singh College, Jaganj, Murshidabad, has successfully completed the project entitled "IMPACT OF HIGH TEMPERATURE ON GERMINATION AND SEEDLING GROWTH OF GRAM (*Cicer arietinum* L.)" under the guidance of DR. SUCHETANA MUKHERJEE, for partial fulfillment of his curriculum. During this tenure he has shown keen interest in his assignments.

Principal

Sripat Singh College
DR. KAMAL KRISHNA SARKAR
Principal
Sripat Singh College
Jaganj, Murshidabad

Mentor

Dept. of Botany
Sripat Singh College

HOD, Botany

Sripat Singh College
HOD
Department of Botany
Sripat Singh College

CONCLUSION

The projects assigned to the students helped them to develop various skills like Critical thinking, Problem solving and Curiosity which inculcates a lifelong interest in the world around them. Unlike theoretical knowledge they learn through hands-on experience and are able to explore topics of interest related to their studies but not directly included in their syllabus.