

DEPARTMENT OF
BOTANY

ST. JOHN'S
COLLEGE, ANCHAL

ADD ON COURSE- 2022-23

Cultivation, collection, processing and storage of drugs of natural origin and conservation of medicinal plants



Duration -30hours

Seating Capacity- 30

Classes starts on 11/09/2022

Eligibility: Students of all UG abd PG streams can apply

Interested students can apply using this link -

https://docs.google.com/forms/d/e/1FAIpQLSdjrl_kmXgGMZtyss-3n3oqh23YdhZnKCOs9uOuCeIJbnb85A/viewform?usp=sf_link



ADD ON COURSE 2022-23

BOT.A22.1- Cultivation, collection, processing and storage of drugs of natural origin and conservation of medicinal plants

The topic for the add on course for the academic year 2022-23 was selected by the faculties of the department after a detailed discussion among themselves. The commencement of the course for the year was decided to be on 11/09/2022. The schedule of the classes was designed and the final exam was fixed on 10/12/2022. The classes were decided to be handled by the faculties of the department Jerry. C. Jacson, Dr. Kavitha C H and Dr. Anoosh Varghese.

The topics were divided as follows

- Jerry. C. Jacson

Module I

- Ethnobotany and Folk lore medical practices: Ethnic communities in Kerala and their medicinal plant usage – patented products (Kani Tribe) – popular folklore medicines.
- Role of medicinal plants in traditional and modern system of medicine - methods of documenting the ethnobotanical knowledge – AICRP-MAP.

Module III

Practice /Activity

- Observe the medical plants in their locality and identify the scientific name and vernacular names and submit report.
- Dr. Kavitha C H

Module I

- Cultivation and processing of medicinal plants: Propagules (Seed, leaf, stem, root, rhizome and bulbs, micropropagation) – cultivation methods – organic farming practices of medicinal plants - harvesting – processing – Grading -packaging – storage.
- Medicinal plants in commercial products
- Adulteration of plant crude drugs and methods of identification - some examples.
- Dr. Anoosh Varghese.

Module II

An overview of selected medicinal plants: Morphology, family, vernacular, botanical name, useful part, uses active principles and Phyto therapeutics.



ADD ON COURSE 2022-23

Syllabus

BOT.A22.1- Cultivation, collection, processing and storage of drugs of natural origin and conservation of medicinal plants

Module I

12 hrs

- Ethnobotany and Folk lore medical practices: Ethnic communities in Kerala and their medicinal plant usage – patented products (Kani Tribe) – popular folklore medicines.
- Role of medicinal plants in traditional and modern system of medicine - methods of documenting the ethnobotanical knowledge – AICRP-MAP.
- Cultivation and processing of medicinal plants: Propagules (Seed, leaf, stem, root, rhizome and bulbs, micropropagation) – cultivation methods – organic farming practices of medicinal plants - harvesting – processing – Grading -packaging – storage.
- Medicinal plants in commercial products
- Adulteration of plant crude drugs and methods of identification - some examples.

Module II

16 hrs

An overview of selected medicinal plants: Morphology, family, vernacular, botanical name, useful part, uses active principles and Phyto therapeutics.

- Whole plant (*Phyllanthus amarus*, *Bacopa monnieri*, *Scoparia dulcis*)
- Root (*Asparagus racemosus*, *Rauwolfia serpentina* & *Gloriosa superba*)
- Leaf (*Aloe vera*, *Azadirachta indica*)
- Bulb (*Allium cepa*, *Allium sativum*)
- Rhizome (*Zingiber officinale*, *Curcuma longa*)
- Fruit (*Solanum nigrum*, *Solanum xanthocarpum*, *Phyllanthus emblica*)
- Seed (*Trigonella foenum graecum*, *Cuminum cyminum*)
- Oil seed (*Cocos nucifera*, *Ricinus communis*)

Module III


2 hrs

Practice /Activity

- Observe the medical plants in their locality and identify the scientific name and vernacular names and submit report.


Course Coordinator
Mar Gregorios Nagar,
Anchal P.O., Kollam,
Kerala - 691 306




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ST. JOHN'S COLLEGE
ANCHAL, KOLLAM



ST. JOHN'S

COLLEGE ANCHAL

(*Asparagus racemosus*, *Rauwolfia serpentina* & *Gloriosa superba*) Leaf (*Aloe vera*, *Azadirachta indica*)

Affiliated to the University of Kerala

Accredited with A Grade by NAAC

Recognised for STAR College by DBT, Govt. of India

Bulb (*Allium cepa*, *Allium sativum*)

Rhizome (*Zingiber officinale*, *Curcuma longa*)

Fruit (*Solanum nigrum*, *Solanum xanthocarpum*, *Phyllanthus emblica*) Seed

(*Trigonella foenum graecum*, *Cuminum cyminum*)

Oil seed (*Cocos nucifera*, *Ricinus communis*)

The brochure for the course and other details about the course was circulated among the students and 27 students registered for the course. The classes were conducted as per schedule. The students showed at most interest in knowing medicinal plants and their commercial value. All the topics were delivered effectively to the students and the course was successfully completed on 09/12/2022. A theory examination on the topic for fifty marks was designed by the faculties and the question paper was set jointly by all the faculties. The mark list of the students are as follows.

Sl No:	Reg No:	Name	Marks
1	24520138006	ASIYA .K	32
2	24520138007	DEVIKA .V. ANAND	41
3	24520138009	NANDANA. M	34
4	24520138012	ABHAYA RAJ R B	43
5	24520138015	ALEENA RAJU	41
6	24520138016	ALFIYA N S	37
7	24520138018	ASHNA FATHIMA	27
8	24520138019	ATHILA RAZAK. R. S	35
9	24520138021	FATHIMA N	45
10	24520138022	JASNA JAFAR	44
11	24520138023	JERIN PHILIP	42
12	24520138028	R S RAMSANA	44
13	24520138030	SHIFA . A	31
14	24521138001	AMITHA A	40
15	24521138002	AMNA A J	41
16	24521138003	ARYA R KURUP	44
17	24521138006	P R ARAVIND	38
18	24521138014	FAIZAL SHA S	40
19	24521138015	KARTHIK V R	32

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LIGHT
SHINE BEFORE
MEN



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20	24521138020	NIJA ANIL	30
21	24521138021	NOUFAL N	33
22	24521138022	NOUFAL NAZEER	36
23	24521138024	SARATH S	37
24	24521138025	SILPA B S	35
25	24521138026	THANSIYA S	33
26	24522138029	MANOVA SAJI	37
27	24522138023	SNEHA CHANDRAN	41

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OUTCOME

- ✓ Identify medicinal plants, describe its morphology, add medicinal knowledge about locally available plants.
- ✓ Cultivate medicinal herbs, learn processing, storing and packing of medicinal produce.
- ✓ Develop entrepreneurship skills to establish value addition products, botanical extracts and isolation of bioactive compounds.

Course Coordinator



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