



**KOTTAKKAL FAROOK ARTS AND SCIENCE COLLEGE**

**DEPARTMENT OF BOTANY**

**ANNUAL REPORT**

**2022-2023**

ANNUAL REPORT 2022-2023

DEPARTMENT OF BOTANY

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## ANNUAL REPORT 2022-2023

### DEPARTMENT OF BOTANY

Department of Botany of our college offers UG course. Creating scientific temper is another major objective of this curriculum. Incorporating research components along with a sound academic foundation enables students to develop independent creative thinking. Sufficient emphasises given for training in laboratory skills and instrumentation. The curriculum is meant to inspire creativity and combine passion with critical thinking skills in students who one day will be the citizens working to convert the world to more sustainable systems.

Another major thrust given here is to develop an environmental concern in all activities of the students. 'Go green', the motto of the syllabus emphasizes the urgent need to conserve nature without destruction of natural resources.

The students must Understand scope and importance of Botany in every field especially in dealing with societal and environmental issues, agriculture, ethics and healthcare. And also

Understand the and the role of plants in sustaining life on earth and the interrelationship between human beings and nature, create awareness on natural resources and their importance in sustainable development, analyse the importance of biodiversity conservation, estimate bio diversity loss and develop conservation strategies.

The Department of Botany is comprised of a dedicated team of 3 faculty members. The department vision is to foster a deep understanding and appreciation of plant sciences, promoting research, innovation and environmental stewardship among students. The mission of Botany Department mainly includes:

- 1.To offer a comprehensive curriculum that covers the breadth of botany, including plant diversity, ecology, physiology and genetics.
2. To cultivate critical thinking, problem solving skills, and scientific curiosity through hands on learning experiences and research opportunities.
3. To contribute to the global community of plant scientists and environmentalists through collaborations, community engagements and sustainable practices.



  
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The Department offers the course with complementary courses in zoology and Chemistry, and thus provide a comprehensive curriculum that aims to develop deep understanding , innovation and environmental governance among students.

1.	Sem. I Course 1: Angiosperm Anatomy, Reproductive. Botany & Palynology
2.	Sem. II Course 2: Microbiology, Mycology, Lichen. & Plant Pathology
3.	Sem. III Course 3: Phycology, Bryology & Pteridology
4.	Sem. IV Course 4: Methodology and Perspectives in Plant Science
5.	Sem. V Course 6: Gymnosperms, Palaeobotany, Phytogeo. & Evolution
6.	Sem. V Course 7: Angiosperm Morphology & Systematics
7.	Sem. V Course 8: Tissue culture, Horti., Economic Bot & Ethanobotany
8.	Sem. V Course 9: Cell Biology & Biochemistry
9.	Sem. VI Course 10: Genetics & Plant Breeding
10.	Sem. VI Course 11: Biotechnology, Molecular Biol. & Bioinformatics
11.	Sem. VI Course 12: Plant Physiology & Metabolism
12.	Sem. VI Course 13: Environmental Science
13.	Sem. VI Course 14: Elective -1: Genetic Engineering
14.	Sem. VI Course 14: Elective -2: Advanced Angiosperm Systematics
15.	Sem. VI Course 14: Elective -3: Genetics & Crop Improvement
16.	Model question papers (Theory)
17.	Model question papers (Practical)
18	Sem. I Course 1: Angiosperm Anatomy & Microtechnique
19	Sem. II Course 2: Cryptogams, Gymnosperms & Plant Pathology
20	Sem. III Course 3: Morph., Syst.Bot., Econ. Bot., Pl. Breeding & Horti.
21	Sem. IV Course 4: Plant Physiology, Ecology & Genetics
22	Model question papers (Theory)
23	Model question paper (Practical)
24	Sem. V Open Course Choice 1: General Botany
25	Sem. V Open Course Choice 2: Applied Botany
26	Sem. V Open Course Choice 3: Basic Tissue Culture
27	Model question papers (Theory)



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## COMPLEMENATRY COURSE: ZOOLOGY

Sl. No.	Content
1	S1. Compl. course I [Theory]: Animal Diversity and Wildlife Conservation
2	S2. Compl. course II [Theory]: Economic Zoology
3	S3. Compl. course III [Theory]: Physiology and Ethology
4	S4. Compl. course IV [Theory]: Genetics and Immunology
5	S4. Complementary course Practical-I
1	Complementary Course I: General Chemistry
2	Complementary Course II: Physical Chemistry
3	Complementary Course III: Organic Chemistry
4	Complementary Course IV: Physical and Applied Chemistry
5	Complementary Course V: Chemistry Practical

In addition, the students are also offered with Audit courses in a Environmental Studies, Human Rights, Disaster Management and Gender Studies.

Sl. No.	Semester	Audit Course
1	Semester I	Environmental Studies
2	Semester II	Disaster Management
3	Semester III	Human Rights
4	Semester IV	Gender Studies

These courses are designed to provide students with a well-rounded education and a comprehensive understanding of contemporary issues. By offering these courses, the department ensures that its students are not only proficient in botany but also aware and knowledgeable about current events and global concerns.

Our department is dedicated to providing a high-quality education that equips students with the knowledge and skills necessary to succeed in the dynamic and ever-changing world of botany.

Our faculty members are committed to providing a comprehensive and challenging curriculum that prepares students for a wide range of career opportunities.



  
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## Certificate Course Curriculum

Certificate course in Floriculture and Fundamentals of Aquarium fish keeping are specialized educational program offered by the department this academic year to provide students with the necessary skill and knowledge in these area. These courses are designed to help students improve their skills in plant anatomy , floweringgg.

- Odd semester certificate programme: Certificate Course in Floriculture were offered for the second year classes from June to September (*offered for the second year*)
- Even semester certificate programme: (November to March) - (*offered for the first year*)

Name of Certificate programmes Offered	Duration of hours	Number of students enrolled
Course in Floriculture	36 hrs	15

This course is an introduction to the field of floriculture, which covers the production and marketing of flowers and ornamental plants. Students will learn about the history, anatomy, physiology, and life cycle of flowers and plants, various propagation methods, soil science, irrigation, pest and disease management, greenhouse and field production, marketing and sales, business management, sustainability, and environmental issues. The course also includes a section on career opportunities and professional development in the floriculture industry.

### Course Objectives

- Understand the basic principles and concepts of floriculture as a field, including its history, importance, and economic impact.
- Identify and describe the anatomy, physiology, and life cycle of flowers and plants, and understand the factors that affect their growth and development.
- Demonstrate knowledge of various plant propagation methods and be able to select and apply the appropriate method for a particular plant species.
- Explain the fundamentals of soil science, irrigation, and nutrient management, and be able to develop a crop management plan for a particular crop.
- Develop an understanding of the common pests and diseases that affect floriculture crops, and be able to identify and manage them using appropriate control measures, while minimizing environmental impact.

### Course Outcome

- Students will be able to demonstrate an understanding of the history, significance, and economic impact of floriculture as a field.
- Students will be able to describe and analyze the anatomy, physiology, and life cycle of flowers and plants, and apply this knowledge to make informed decisions about crop management practices.



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- Students will be able to identify and apply appropriate plant propagation methods to a wide range of ornamental plants, and will be able to produce healthy plants with desirable traits.
- Students will be able to develop and implement an effective crop management plan for a floriculture operation, taking into account soil science, irrigation, nutrient management, and environmental considerations.
- Students will be able to apply integrated pest management practices to manage pests and diseases in a sustainable and effective manner, while minimizing the use of synthetic pesticides and preserving ecosystem health.

### Course Syllabus

- I. Introduction to Floriculture (2 hours)
  - Overview of floriculture as a field
  - Brief history of floriculture
  - Importance of floriculture in the economy and society
- II. Botany of Flowers and Plants (4 hours)
  - Anatomy of flowers and plants
  - Physiology of flowers and plants
  - Life cycle of flowers and plants
- III. Plant Propagation (4 hours)
  - Seed propagation
  - Cutting propagation
  - Grafting and budding
  - Tissue culture
- IV. Soil Science and Irrigation (4 hours)
  - Soil types and characteristics
  - Soil preparation and fertilization
  - Water management and irrigation
- V. Pest and Disease Management (4 hours)
  - Identification and prevention of pests and diseases
  - Integrated pest management
  - Pesticides and their application
- VI. Floriculture Production (4 hours)
  - Greenhouse production
  - Field production
  - Post-harvest handling and storage
- VII. Marketing and Sales (4 hours)
  - Market research and analysis
  - Pricing and distribution
  - Promotion and advertising
- VIII. Business Management (4 hours)
  - Basic accounting and financial management
  - Human resource management



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- Legal and regulatory issues
- IX. Sustainability and Environmental Issues (2 hours)
- Sustainable floriculture practices
  - Environmental impact of floriculture
  - Ethical issues in floriculture
- X. Career Opportunities and Professional Development (2 hours)
- Job prospects in the floriculture industry
  - Continuing education and professional development opportunities
  - Networking and professional organizations

As a Botany UG student at our college, you will have access to a range of resources and opportunities, including internships, industry visits, workshops, and seminars, which will help you gain practical experience and stay up-to-date with the latest trends and developments in the field of Botany

We also offer a range of extracurricular activities, including clubs, societies, and sports teams, which provide students with the opportunity to develop their leadership, teamwork, and communication skills while pursuing their interests outside the classroom.

### FACULTY

Sl.no	NAME OF FACULTY	DESIGNATION	QUALIFICATION
1	Dr. CHITHRA M	HEAD OF DEPARTMENT	MSc. BOTANY, PH.D
2	SAJEEHA QUANSHA	ASSISTANT PROFESSOR	MSc. ZOOLOGY
3	AISWARYA K	ASSISTANT PROFESSOR	MSc. CHEMISTRY

#### • DEPARTMENT STRUCTURE:

Department of Botany consists of three members including the

Head of the Department. Dr. Chithra M is our Head of the Department. Ms. Sajeeha Quansha is the class advisor for second year students and Ms. Aiswarya K is for first year class. The department consists of total number of 36 students. Ms. Sajeeha Quansha is our Department Coordinator and Ms. Aiswarya k is our Program Coordinator. The complimentary papers we



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offers are Zoology and chemistry. Zoology is handled by Sajeeha Quansah and Chemistry by Aiswarya k.

Department also provide certain certificate courses for the students. Course titled Certificate course in floriculture is particularly for second year students, coordinated by Dr. Chithra M.

## DEPARTMENT COMMITTEES

There are various committees functioning under the department for effective and efficient delivering of various function. There are committees like Department Academic Committee ( Board of Studies ), Internal examination Committee, Grievance Cell, Experiential Learning Committee and Discipline Committee

### • FUNCTIONING OF THE COMMITTEES :

Department Academic committee	
Chair person	Dr. Chithra M (HOD)
Members	Aiswarya k ( assistant professor ) Sajeeha Quansha ( Assistant professor)
Co-ordinator (II year)	Dr. Chithra M
Student Representatives	Nafeesa bayan ( II year Botany)
Ex- Officio	Mohammed Faris T (Clerk, Administrative Department)
External expert	Mahesh Kumar T ( Expert in Floriculture)

Department Academic Committee working under the chairmanship of Dr. Chithra M, is working for the better delivering of curricular and co curricular activities. The committee had organized a total of five meetings. In each meeting committee discussed a variety of problems and have taken various actions. In this academic year committee conducted three audit course examinations for 1<sup>st</sup> semester ( Environmental Studies ), 3<sup>rd</sup> semester ( Human Rights ) and 4<sup>th</sup> semester ( Gender Studies ). Committee have formulated brief syllabus for the certificate courses provided under the department. It was decided to provide the course titled certificate course in Floriculture for 2<sup>nd</sup> year . Detailed guidelines were issued by the committee for the conduct of certificate courses. It also monitors the portions taken by each faculty and also direct remedial classes for slow learners. First and second internal examinations for each semester were conducted by internal examination committee under the



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guidance of this committee. Altogether committee have given great contribution in the holistic functioning of the department.

#### INTERNAL EXAMINATION COMMITTEE:

Internal Exam Committee	
Chair person	Dr. Chithra M (HOD)
Department Exam Coordinator	Aiswarya k

Department Internal Examination Committee working under Ms. Aiswarya K is a committee working for the proper commencement of internal examinations. Through its four meetings, committee conducted eight examinations. . It also co-ordinate the internal marks submission of each semester to the College Examination Committee. Internal Examination Committee is responsible for evaluating students' performance in internal assessments and projects

#### TOUR COMMITTEE

TOUR\ IV COMMITTEE	
Tour coordinator	Dr Chithra M
Members	Aiswarya k Sajecha quansha

Tour committee is working under the Coordination of Dr.chithra M. The other members in the committee are Sajecha Quanshah and Aiswarya k. Committee is responsible for organizing educational tours and industrial visits for students.

#### GRIEVANCE CELL

Compliance Grievances Cell is working under the coordination of Dr. Chithra M. The committee have worked for the redressal of all the compliance raised by the students, parents as well as other teachers. There have been a lot of issues related to internal marks, attendance shortage issue, etc. In the case of attendance shortage of a student of semester with health



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issue, committee with the help of college office authority have resolved the problem. In the case of internal marks, committee had enquired about it and asked the concerned teacher to clarify the student about it. Compliance like regular late coming were raised against students. Strict warning and counselling were given to those students.

### **DISCIPLINE COMMITTEE**

Department Discipline Committee is functioning under Dr. Chithra M. The committee was entrusted to manage the discipline of the department students. It has successfully maintained the discipline in the department. It had taken stringent measures against in-disciplinary activities. The late comers were also strictly punished and the committee decided to deny attendance to those who came late.

### **EXPERIENTIAL LEARNING COMMITTEE**

EXPERIENTIAL LEARNING	
Chairperson	Dr. Chithra M
Member	Sajeelha quansha

### **Experiential Learning Committee**

The committee was formulated to coordinate the experiential learning / supplementary projects of the students. Committee was coordinated by Dr. chithra M, Committee had entrusted the available faculties to guide the first and second year students for doing minor projects. Topics of this group wise projects were determined by the committee itself. Committee also asked the faculties to conduct a presentation of what they find.



  
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The effective recording of minutes is crucial for ensuring transparency, accountability, and continuity in decision-making processes and Botany Department keeps minutes of the Department Academic Committee, Internal Examination Committee, Grievances and Redressal Committee, Tour or IV Committee, and Experiential Learning Committees.

1) **Department Academic Committee:** The Department Academic Committee is


responsible for overseeing the academic programs and curricular activities. Accurate minutes of its meetings are essential to record discussions on curriculum updates, faculty feedback, examination patterns, and the implementation of academic policies. These minutes serve as a valuable resource for monitoring the progress of academic initiatives and ensuring compliance with the institution's academic standards.

2): **Exam Committee:** The Exam Committee plays a critical role in overseeing the examination process and ensuring its smooth conduct. Accurate minutes are maintained during committee meetings, covering discussions on exam schedules, question paper setting, evaluation processes, and result declaration. These minutes serve as essential records to maintain the integrity and fairness of the examination system. The Internal Examination Committee is responsible for evaluating students' performance in internal assessments and projects. Detailed minutes are maintained to document discussions on assessment methods, grading criteria, assessment schedules, and student performance analysis. These minutes aid in maintaining consistency and quality in internal evaluations.

3. **Grievances and Redressal Committee:** The Grievances and Redressal Committee deals with student grievances and ensures their timely resolution. During committee meetings, minutes are recorded to document grievances raised, actions taken, and decisions made to address student concerns. These minutes play a vital role in maintaining transparency and accountability in the grievance redressal process.

4) **Tour or IV Committee:** The Tour or Industrial Visit (IV) Committee is responsible for organizing educational tours and industrial visits for students. Minutes are kept during



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committee meetings to outline the planning, budgeting, and execution of such tours/IVs. These minutes assist in evaluating the effectiveness of the tours/IVs and provide insights for future planning.

5) **Experiential Learning Committees:** Experiential Learning Committees oversee the implementation of experiential learning programs that provide practical exposure to students. Detailed minutes are maintained during committee meetings, capturing discussions on program design, industry collaborations, student feedback, and program evaluation. These minutes aid in continuously enhancing the experiential learning initiatives.

- **ROLES AND RESPONSIBILITIES ALLOTTED TO THE FACULTY**

<b>FUNCTIONAL RESPONSIBILITY ALLOCATION</b>	
<b>FUNCTIONAL RESPONSIBILITY AREA</b>	
<b>SR.NO. RESPONSIBILITY AREA.</b>	<b>STAFF IN CHARGE</b>
<b>ACTION PLAN</b>	DR. CHITHRA M
<b>CERTIFICATE PROGRAMME</b>	Dr.chithra M
<b>BOTANY ASSOCIATION</b>	SAJEEHA QUANSHAH
<b>BOTANY LAB</b>	DR. CHITHRA M
<b>DOCUMENTATION</b>	AISWARYA K
<b>COMPULSORY SOCIAL SERVICE</b>	Sajeetha Quansah
<b>NEWSLETTER</b>	Aiswarya k
<b>DEPARTMENTAL CLUB</b>	Sajeetha quansha
<b>SEMINARS, NATIONAL, ETC</b>	Aiswarya k
<b>JOURNALS, MAGAZINES</b>	Dr.Chithra M
<b>TEXTBOOK LIBRARY</b>	Sajeetha Quansha
<b>DIGITAL RESOURCES</b>	Aiswarya k
<b>ONLINE CLASSES</b>	Dr.Chithra M
<b>LMS ISSUES</b>	Aiswarya k
<b>STUDENT MENTOR-LEADER</b>	Athulya kk
<b>PROJECT &amp; VIVA</b>	Dr.Chithra M
<b>PLACEMENT AND INTERSHIP</b>	Dr.Chithra M



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QUESTION BANK	Aiswarya k
SPORTS	Sajeeha Quansha
FACULTY PROGRAMMES DEVELOPMENT	Dr.Chithra M
STAFF TOUR	Aiswarya k
OUTREACH ACTIVITIES	Dr.chithra M

#### FACULTY- STUDENT RATIO

BATCH	EXISTING NUMBER OF STUDENTS
First year	21
Second year	15
total	36

#### ACADEMIC ACHIEVEMENTS BY THE FACULTY MEMBERS:

- **WORKSHOP, FDP, QIP, AND OTHER TRAINING PROGRAMMES ATTENDED: Yes**  
Faculty Development Programme was conducted on 26/10/2022 to enhance the effective teaching of the faculty members and also nurture digital knowledge of the faculty members.FDP attended by Dr. Chithra M, Aiswarya K, Sajeeha Quansha.
- **SEMINARS ATTENDED BY FACULTY**
- **SEMINARS ORGANIZED BY THE DEPARTMENT : YES**
- **RESEARCH AND PUBLICATIONS : YES**
- **ARTICLES IN PERIODICALS :**
- **RESEARCH ARTICLES IN INTERNATIONAL & NATIONAL JOURNALS : Yes**
- **PUBLICATION IN INTERNATIONAL /NATIONAL JOURNALS: Yes**
- **BOOKS PUBLISHED, ISBN PUBLICATIONS:**



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## **FACULTY DEVELOPMENT INITIATIVES DURING THE YEAR:**

A Faculty Development Programme was conducted on 26/10/2022 to enhance the effective teaching of the faculty members and also nurture digital knowledge of the faculty members. Timely updating of teaching practice and cope up with new technology are essential. In order to foster the qualities of teaching and effective teaching, faculty development programme have been conducted timely.

## **QUALITY IMPROVEMENT PROGRAMME: NIL**

## **FACULTY LEARNING FORUM**

It is an internal sit-together discussion forum of faculty members scheduled casually or a casual sit-together on a particular day, or say Friday's last hour or week's last working day if Saturday happens to be. This forum's objectives are to discuss aspects of daily work schedules, happenings, problems related to academics, and discipline issues. It is to explore various pedagogies in higher education, to provide a platform for professional dialogues on new developments in the realm of Botany, and to encourage and foster the research culture amongst faculty members.

## **Topics discussed in the Learning Circles during the year:**

- Assessment tied with course goals
- How to write for a newspaper
- Teaching mistakes in a classroom
- Sharing the best practices in teaching and learning
- Effective handling of large classes
- Service learning as a pedagogy
- How does student-teacher & student-student interaction affects learning
- Teacher student interactions
- Student mentoring
- Minor projects
- Student assessment plans
- Effective experiential learning



  
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## 2. FACULTY PROFESSIONAL DEVELOPMENT PROGRAMMES

The Faculty Professional Development Programme are held on last Friday of every month and are co-ordinated and conducted by the representatives of Department of Botany and attended by all the teachers of the department. Ms. Sajeeha Quansha facilitates as the faculty coordinator of the department. Following topics were discussed:

- A talk on pedagogy and curriculum design delivered by Dr. Chithra M on 24/06/2022.
- New technology in teaching process delivered by Sajeeha Quansha on 29/07/2022.
- New methods in research delivered by Dr. Chithra M on 26/08/2022.
- Orientation programme for faculty members about *Master soft, LMS etc.*

## STUDENTSHIP

Our department consists of students with peculiar abilities and dedicated teachers, who support the students at their bests. Students are so enthusiastic and energetic. In order to foster their abilities and skills, department introduces various Programme and with timely assessment and monitoring student's problems are fetched out easily and resolved through convenient measures. The cultural and extracurricular activities, the industrial and village visits, and extension activities were conducted.

## ACADEMIC MONITORING

Department faculties were dedicatedly Conduct the classes and the university syllabus were covered timely. All the faculties covers the portion within time limit. It was decided by department to complete the portion ten days before the end date of that semester. Two internal examination are conducted for each semester. This help the students to progress their academic qualities and teachers can help the students in their weaker points.



  
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### Academic calendar for 2022-23

Semester	Date of commencement	Date of completion
1 <sup>st</sup> semester	19/09/2022	24/01/2023
2 <sup>nd</sup> semester	25/01/2023	
3 <sup>rd</sup> semester	01/07/2022	21/11/2022
4 <sup>th</sup> semester	22/11/2022	23/03/2023
5 <sup>th</sup> semester	01/06/2022	31/10/2022
6 <sup>th</sup> semester	01/11/2022	06/02/2023

### INTERNAL EXAMINATION CALENDER

Semester	1 <sup>st</sup> internal examination	2 <sup>nd</sup> internal examination
1 <sup>st</sup> semester	28/11/2022	03/01/2023
2 <sup>nd</sup> semester		
3 <sup>rd</sup> semester	12/09/2022	21/11/2022
4 <sup>th</sup> semester	02/02/2023	14/03/2023
5 <sup>th</sup> semester	12/09/2022	21/10/2022
6 <sup>th</sup> semester	03/01/2023	-

- **Result analysis:** University external examination results are proud moments for our department. It reveals the excellence of the students and hard work of the faculties.



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All the faculties of the department complete their syllabus as per the semester plan within the time limit. Study materials were given properly by each faculty immediately after the classes. Each faculty conduct seminar by providing topics to each student. After completion of all these things a doubt clearance session has conducted by each faculty. The slow learners were given special care and special sessions are conducted to nurture the learning skills and abilities of the slow learners. Whenever a faculty member is on leave, students will engage themselves with group discussion and supplemental learning.


For organizing supplemental learning, 4 peer leaders have been selected by Head of the Department for each class. Peer leaders helps other students to clear their doubts. By discussions and through friendly talks students enhance their knowledge easily. Faculty members Will also guide the students to improve their team activity.

#### PEER LEADERS

1 <sup>ST</sup> YEAR BOTANY	2 <sup>ND</sup> YEAR BOTANY
Nashwa	Nafeesa Bhayan
Meghna	Ayisha Hiba
Ayisha Simsima	Fathima Shabeeba

**Students attendance monitoring:** Department follows a strict attendance system. Attendance are taken through Master soft Cloud. Each month department analyse the attendance of each class and enquired about the shortage in attendance. In the case of regular missing of classes strict actions were taken. Messages were forwarded to the parents regarding the absence of student in the class immediately. All these make students more punctual.



  
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**Mentoring by class teacher:** Class teacher for each semester acts a mentor and guide to the students. Last hour of every Thursday acts a mentoring session for every classes. Class advisors guide and advice the students to resolve the problems in their personal and student life. Apart from this, mentor meets their mentees individually and try to bring out their worries. Mentor try to resolve the issues that students faced through convenient ways.

## LEARNING CENTRIC INITIATIVES

**Advisory system :**All the three classes of the department have kept under a class advisor in order to guide the students and pave them to better path. Apart from academic duties handled, advisor take care of their student's all activities in the college.

Class	Name of the advisor
1 <sup>st</sup> Semester	Aiswarya k
2 <sup>nd</sup> semester	
3rd semester	Sajeetha quansha
4 <sup>th</sup> semester	

**Slow learner – centric classes:** In every year slow learners were detected in the beginning of first semester for providing them additional sessions. In this academic year first year classes were started from 19/09/2022 onwards. Slow learners from the first-year students were detected through an online examination conducted on 01/10/2022 and 02/10/2022. Two papers of Language and a paper for Botany were conducted.

After the assessment process students with marks bellow thirty were decided as slow learners. These students were given special evening sessions from 04. 00 pm. Regular



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assessment tests were conducted and special notes were given to them. Special sessions of English were given by Mrs. Sarika. Botany sessions were taken by Dr. Chithra M.

**Advanced Learner – centric activities:** At the beginning of the first-year classes with the assessment process of slow learners, advanced learners were decided. Students scored above 70 marks were decided as advanced learners. Advanced learners with highly skilled and having special capabilities have to be properly guided. These students were encouraged and various Programme were conducted to promote their abilities. These students were made as peer leaders to enhance their qualities. Various responsibilities were given to them in order to nurture the leadership qualities of them.

Time Table of the slow/advanced learners assessment Test

Date	Time	Name of course
01/10/2022	10. 00 to 11. 00 am	English
01/10/2022	03. 00 to 04. 00 pm	Botany
02/10/202	09. 00 to 10. 00 am	Second Language



  
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LIST OF SLOW/ADVANCED LEARNERS

Slow learners	Advanced learners
Rahna	Ayisha Simsima
Barjeesa	Nashwa
Lubna sherin	Suhaila Rahmath
Shabana Thasni	Fahmi
Shahala sherin	Nehla

SUPLIMENTRY LEARNING GROUPS:

Class	Supplemental learning groups	Leader
2 nd year Bsc. Botany	Femina Chekkath	Nafeesa Bhayan
	Shafna Nazar	
	Shahana Sherin	
	Safna A	
	Fathima Shafna MN	
	Shahida vk	



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2 nd Year BSc.Botany	Ummul haiffa	Ayisha hiba
	Shahma sherin kp	
	Hafsath	
	Nandhana A	Fathima shabeeba m
	Sneha vk	
	Farha shurooque	
1 st Year BSc. Botany	Athulya	Ayisha Simsima
	Barjeesa bindh	
	Fahmi	
	Fathima fida tp	
	Misniya	Nashwa
	Fathima hanna	
	Hisana hanan	
	Lubna sheri	
	Nahida	meghna
	Rahna	
	Shabana thasni	
	Nasal shirin	
	Shahala sherin	Suhaila rahmath
	Shahana	
	Shana jasmin	



  
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## SUPPLEMENTAL LEARNING

Apart from class room learning our department arranges other learning programmes in order to provide practical experience to the students. We follow a systematic pattern for encouraging the experiential learning. In every semester, except in first and third semester, we organize experiential learning Programme. Each faculty holding the concerned paper conduct the Programme very systematically with proper guidance. Apart from these various other tasks were also assigned to the students like book review, seminar presentation, etc. In each semester students have to do minor project works individually under the guidance of concerned faculty. Regular presentation of the progress of their work will be conducted by the department. All these will be carefully scrutinized to avoid the errors.

### DETAILS OF THE EXPERIENTIAL LEARNING IN EACH SEMESTER :

Experiential learning and community engagement are essential components of modern academic activities, offering students a dynamic and hands-on approach to education. By actively participating in real-world experiences and collaborating with the community, students not only gain practical knowledge but also develop crucial skills in problem-solving, critical thinking, and empathy. This introduction sets the stage for an exploration of the profound impact of experiential learning and community engagement in shaping well-rounded, socially responsible individuals within the academic sphere .

Experiential learning programmes are introduced for students in various topics in each semester .



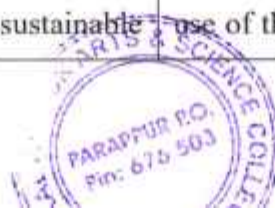
  
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Semester	Paper Name	Core Theme
1 <sup>st</sup> semester	Morphological Characterisation and anatomical studies of some medicinal plants	studying the morphology and anatomy of medicinal plants is to bridge traditional knowledge with modern scientific methods, contributing to the effective , safe and sustainable use of these plants for medicinal and therapeutic purpose
2 <sup>nd</sup> semester	Plant problems	Exploring plant diseases affecting various plants
3 <sup>rd</sup> Semester	Identification of algae, Bryophytes, Pteridophytes in local ecosystem.	Identification of algae
4 <sup>th</sup> Semester	Campus Flora	Representation using pie diagram, bar diagram and scatter diagram

### BEST PRACTICES:

#### 1. EXPERIENTIAL LEARNING:

S. No	DESCRIPTION OF THE ACTIVITY	LEARNING OUTCOMES AND EXPERIENCE	SUBJECT
1	Studying the morphology and anatomy of medicinal plants involves examining their physical characteristics and internal structures, using tools like microscopes. This helps identify, document, and understand the plants' features, which is crucial for their classification, medicinal use, and sustainable	The objective of studying the morphology and anatomy of medicinal plants is to bridge traditional knowledge with modern scientific methods, contributing to the effective , safe and sustainable use of these plants for medicinal and	Angiosperm anatomy



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	cultivation.	therapeutic purpose	
2	Identifying bryophytes, pteridophytes, and algae, along with their morphology, involves: Classification, Observation, Microscopy, Comparative Analysis, Documentation, Taxonomy	To identify various algae, bryophytes, pteridophytes in a given locality. Also to understand the morphological characteristics of algae, bryophytes, pteridophytes	Phycology, Bryology, Pteridology.
3	Discovering various plant diseases involves a systematic process of observation, analysis, and diagnosis	It aims to enhance our understanding of plant diseases, develop accurate detection methods, and establish effective management strategies to safeguard agricultural crops and ecosystem	Plant Pathology
4	Exploring campus flora involves observing and cataloguing the diverse plant species, contributing to a better understanding of local biodiversity and potentially serving as a valuable resource for ecological research and environmental education. This activity promotes a connection between students and their natural surroundings while fostering an appreciation for the importance of preserving local plant.	The primary aim of campus flora is to delve into the rich tapestry of plant diversity that graces our campus and to unveil the secrets it holds.	Research Methodology



  
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### 3. CERTIFICATE PROGRAMME

Inter disciplinary certificate programmes are career enhancement short-term courses at Kottakkal Farook Arts and Science College is to provide students and staff with opportunities to enhance their skills and knowledge in specific areas that are relevant to their academic and professional development. These short-term courses aim to supplement the existing curriculum and to provide practical skills and knowledge that can be applied in various career fields. Department of botany offers certificates course in Floriculture to 2 nd year students.

A certificate course on "Floriculture" was offered to the third semester BSc Botany students by the Department of Botany, during the academic year 2022 -2023. The sessions were held offline in respective class from June 2022 to September 2022. This course is designed to understand the basic principles and concepts of Floriculture as a field, including its history, importance and economic impact. It enabled the students to identify and apply appropriate plant propagation methods to a wide range of ornamental plants and to produce healthy plants with desirable traits. Dr. Chithra M from the department dealt the sessions spanning over a period of six weeks, engaging 36 hours of class. The entire students from the second year BSc Botany participated in this programme. The programme was concluded by giving away certificates to the successful candidates.



  
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## STUDENT SUPPORT AND DEVELOPMENT ACTIVITIES

The student support and student development initiatives that have been undertaken in this academic year are presented.

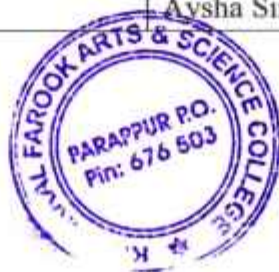
1. Mentoring for students
2. Bridge/ Orientation courses
3. Digital Textbook Support
4. Botany Lab
5. Special Coaching provided for supplementary examinations:

### 1. MENTORING

Mentoring has become a necessity to resolve problems relating to academics and other related issues faced by the students. Mentoring can build a healthy relationship between the students and teachers in building their discipline, performance and also positive growth of the students.

Mentoring groups were formed under various mentees.

Mentor	Mentee
Dr. Chithra M	Shahala sheri p
	Shana jasmine M
	Meghna N
	Fathima fida TP
	Hisana hanan m
	Shabana thasnin k
	Suhaila rahmath U
Aiswarya K	Shahana P
	Nahida K K
	Misniya K
	Barjeesa Bindh
	Nashwa Manhakandan
	Athulya K K
	Rasha fathima M
Sajeeha Quansah	Nehla
	Fathima Hanna K K
	Fahmi K
	Nasla shirin P K
	Lubna sheri K
	Rahna C C
	Aysha Simsima K M



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- **SPECIAL MENTORING DONE**

Extra time for Exams- The special students who needed extra time were mentored and with the help of the office of examinations extra time was provided both for mid-semester and end-semester exams.

- **MENTORING FOR WEAK SUBJECTS**

The students were continuously mentored regarding their academics. They were motivated and continuously encouraged to seek help from the teachers of the subjects in which they are weak.

- **ENCOURAGEMENT TO PARTICIPATE IN ASSOCIATION AND CULTURAL ACTIVITIES** – The students were constantly encouraged to participate in all the co-curricular and inter-class events to help them develop self-confidence.

- **MID SEM RESULT ANALYSIS-**

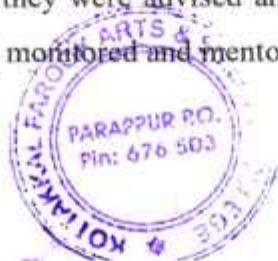
Result analysis of Mid-semester exams of the special students was done separately to know their performance. It was found that compared to the first year, the second-year students fared better.

**In the weekly departmental meetings issues related to these students were discussed:**

The teachers give extra time for the completion of written assignments to first-year students who had problems comprehending and articulating using the English language. This was observed more in the case of Malayalam medium students.

The students of the first semester found the subject of general chemistry and Reproductive botany to be tough. After speaking to them it was concluded that lack of practice and not being able to grasp fast during the lecture hours were the main reasons for not being able to cope with the subject. The teachers teaching the subject were met in person and were requested to take a few one-to-one sessions for these students. The teachers obliged and some students even managed to get help during study holidays.

An effort was made to bring them together to study problem-based papers on campus with assistance from teachers and a few senior students (supplemental learning) who were good at the subject. It was observed that this group study helped them in looking at each other's notes and getting their doubts cleared. Buddies were identified from their own classes to help them with any doubts regarding the subjects or any other thing. They became friendly with their seniors during meetings and so took help from them too. At the end of each semester their scores in all subjects were taken note of and they were advised and helped accordingly. Students who had attendance issues were constantly monitored and mentored and helped to sort out the same



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## 1. ORIENTATION PROGRAMMES FOR FIRST YEARS

A ten-day departmental-level orientation for the first semester Botany students was organized with a special timetable before the commencement of regular sessions. The main objective was to orient the students to KFASC academic culture with a focus on presentation and writing and referencing skills. This is a time for everyone - students, parents, faculty, and staff- to meet one another, talk about the college, and articulate some of the ideals that define us as a place of learning and growth.

### TIMETABLE -ORIENTATION AND BRIDGE CLASSES

On 19/09/2022, the first-year students were given a college-level induction program in the main auditorium along with the PTA gathering. Here the students were briefed about the rules and regulations of the department with respect to dress- code, discipline, attendance, the various clubs, associations, and other activities. This was clubbed with the Freshers" welcome program" organized by the senior students.

The following are the activities proposed under this Programme in which the student would be fully engaged throughout the days for the entire duration of the programme. The activities during the Induction Program would have an Initial Phase, a Regular Phase and a Closing Phase. The Initial and Closing Phases would be two days each. Normal classes start only after the induction program is over.

**Schedule of Induction programmes & Bridge classes 2022-2023**



  
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INITIAL PHASE	
Time	Activity
<b>Day 1</b> 10 AM	Registration of students
10 AM to 10.30AM	All allotted students in merit and management quota
<b>Day 1</b> (19-09-2022)	Official Inauguration of induction and bridge classes (90 minutes)
10:30 am	Prayer
10:35 am – 11:00 am	Welcome address by the Principal Prof. Abdul Azeez
11:00 am –11:15 am	Induction address by President Farook Educational Society, Jb. P. Usmankutty .
11:15 am –11:30 am	Inauguration of bridge and orientation classes: Vice president Farook Educational Society ;jb. M.k.Abdulkareem
11:30 am-11.45 am	Vision and Mission statement of Farook institutions by T. P Kunhu Sahib, Secretary Farook Educational Society.
11:45am – 12.00 pm	Felicitation address by Marakkar Kutty Haji (Treasurer)
12.00 pm-12.15pm	Messages from: K.Moideen (Manager FES)
12:15 am – 12:30 pm	Address by the vice principal and Presentation on the schedule of forth coming sessions, Induction &Bridge Classes- by Vice – Principal Mohammed Labeeb
12.30pm-12.45pm	Interaction with students Q&A
12:45 am – 01:00 pm	Vote of thanks by Staff Secretary Assst prof.Beena
<b>Early dismissal on first day</b>	



  
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<b>SECOND PHASE</b>		
<b>DAY</b>	<b>TIME</b>	<b>ACTIVITY</b>
<b>30-09-2022</b>	10 :00AM to 11:30AM	Familiarization of system environment followed in the campus <b>Mr. Anas</b> System admin
	11 :30AM to 01:00 PM	Introduction of ERP, LMS, CIMS, ITLE and student areas of concern <b>Mr. HANEEFA</b> system manager
<b>30-09-2021</b>	02 :00 PM to 04:00 PM	Know your college profile Campus rules and regulations, attendance leave, discipline uniform rules, etiquette, exam rules, hall ticket, canteen, parking rules, anti-ragging initiatives etc., Principal Prof: Abdul Azeez



  
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**THIRD PHASE  
DEPARTMENT INDUCTION PROGRAMME  
TIMETABLE 2022-2023**

	10am-11am	11am-12 pm	12pm-1pm	2 pm-3 pm	3 pm-4 pm
<b>Monday 19-09- 2022</b>	<b>ENGLISH</b> General Induction Programme	<b>ENGLISH</b> General Induction Programme	<b>ENGLISH</b> General Induction Programme	<b>SL</b> General Induction Programme	<b>BOTANY</b> Syllabus Overview Plant Anatomy Dr.Chithra M
<b>Tuesday 20-09- 2022</b>	<b>ENGLISH</b> General Induction Programme	<b>ENGLISH</b> General Induction Programme	<b>BOTANY</b> Crop improvement Dr.Chithra M	<b>SL</b> General Induction Programme	<b>CHEMISTRY</b> Syllabus overview Introduction to chemistry Aiswarya K
<b>Thursday 22-09- 2022</b>	<b>ZOOLOGY</b> Syllabus overview Animal Diversity Sajeetha Quansha	<b>ZOOLOGY</b> Animal Diversity Sajeetha Quansha	<b>SL</b> General Induction Programme	<b>ZOOLOGY</b> Endocrinology Sajeetha Quansha	<b>ENGLISH</b> General Induction Programme
	9.30 am-10.30 am	10.30am-11.30 am	11.30 am-12.30 am	2 pm-3 pm	3pm- 4 pm
<b>Friday 23-09- 2022</b>	<b>ENGLISH</b> General Induction Programme	<b>ENGLISH</b> General Induction Programme	<b>CHEMISTRY</b> Basic concepts in chemistry Aiswarya K	<b>ENGLISH</b> General Induction Programme	<b>ZOOLOGY</b> Immunology Sajeetha Quansha

	10am-11am	11am-12 pm	12pm-1pm	2 pm-3 pm	3 pm-4 pm
<b>Monday 26-09-2022</b>	<b>ENGLISH</b> General Induction Programme	<b>ENGLISH</b> General Induction Programme	<b>ENGLISH</b> General Induction Programme	<b>SL</b> General Induction Programme	<b>BOTANY</b> Plant nomenclature Dr.Chithra M



  
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<b>Tuesday</b> 27-09-2022	<b>ENGLISH</b> General Induction Programme	<b>ENGLISH</b> General Induction Programme	<b>BOTANY</b> Taxonomy Dr.Chithra M	<b>SL</b> General Induction Programme	<b>CHEMISTRY</b> Chemistry in practicals Aiswarya K
<b>Wednesday</b> 28-09-2022	<b>SL</b> General Induction Programme	<b>BOTANY</b> Cell biology Dr.Chithra M	<b>BOTANY</b> Biotechnology & molecular biology Dr.Chithra M	<b>CHEMISTRY</b> The periodic table Aiswarya K	<b>CHEMISTRY</b> States of matter Aiswarya K
<b>Thursday</b> 29-09-2022	<b>ZOOLOGY</b> Immunology Sajeetha Quansha	<b>ZOOLOGY</b> Wildlife conservation Sajeetha Quansha	<b>SL</b> General Induction Programme	<b>ZOOLOGY</b> Ecology Sajeetha Quansha	<b>ENGLISH</b> General Induction Programme
	9.30 am-10.30 am	10.30am-11.30 am	11.30 am-12.30 am	2 pm-3 pm	3pm- 4 pm
<b>Friday</b> 30-09-2022	<b>ENGLISH</b> General Induction Programme	<b>ENGLISH</b> General Induction Programme	<b>CHEMISTRY</b> Chemistry in everyday life Aiswarya K	<b>ENGLISH</b> General Induction Programme	<b>ZOOLOGY</b> Evolution Sajeetha Quansha
<b>Monday</b> 03-10-2022	<b>ENGLISH</b> General Induction Programme	<b>ENGLISH</b> General Induction Programme	<b>ENGLISH</b> General Induction Programme	<b>SL</b> General Induction Programme	<b>BOTANY</b> Horticulture Dr.Chithra M



  
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### 3. DIGITAL TEXTBOOK SUPPORT

The Department of Botany provides digital textbooks to the students of the department to broaden their intellectual horizons and to aid in their regular classroom teachings. The list of textbooks is given in DSPACE and students can download or read a book, either prescribed or recommended from their home or a place of their ease. Free textbook references are available at D Space.

### 5. LABORATORY FACILITIES IN DEPARTMENT OF BOTANY

Botany department consists of botany lab and two complimentary subject labs such as Zoology and Chemistry Laboratories.

#### Botany Lab: Exploring the World of Plants

Botany, the scientific study of plants, is a fascinating field that unravels the secrets of the plant kingdom. To delve into this captivating world, botanists and students alike rely on a well-equipped botany lab. Let's take a closer look at the essential components and equipment found in our institute Botany lab.

**Lab Notebooks and Lab Documentation:** Keeping detailed records of experiments and observations is a fundamental aspect of scientific research.

**Microscopes:** Microscopes are the windows through which botanists observe the intricate structures of plants. In a botany lab, you'll find two types of microscopes: dissection microscopes for examining plant parts and compound microscopes for finer details at the cellular level.

**Plant Specimens:** A diverse collection of plant specimens, both fresh and preserved, serves as the heart of any botany lab. These specimens are used for identification, classification, and study of plant morphology.

**pH Meter:** Understanding the acidity or alkalinity of soil or plant extracts is crucial for plant physiology and research. A pH meter helps botanists measure these factors accurately.

**Permanent Slides:** Permanent slides allow for long-term preservation and study of microscopic plant structures, such as plant cells, tissues, and various microorganisms found on plants.

**Plant Physiology Equipment:** This category includes tools like spectrophotometers, respirometers, and fluorometers, which help researchers investigate plant processes like photosynthesis, transpiration, and respiration.



**Budding Knife:** Budding knives are handy tools for plant propagation techniques such as budding and grafting.

**Specimen Jar:** Specimen jars with preservatives are essential for preserving plant specimens for future use.

**Conical Flask:** Conical flasks are commonly used for mixing and storing plant solutions, extracts, or chemical reagents.

**Wash Bottles:** These bottles are used to dispense water or other solutions gently and precisely for various laboratory procedures.

**Petri Plates:** Petri plates are used for cultivating plant tissues, such as tissue culture or microbial studies.

**Tray:** Trays are convenient for organizing and carrying various plant samples, equipment, and materials around the lab.

**Anatomy Stains, Slides, and Coverslips:** These are crucial for preparing and staining plant tissues for microscopic examination.

**Glycerine and Herbarium Presser:** Glycerine is used for preserving plant specimens, and herbarium pressers are essential for drying and flattening plant samples for herbarium collections.

**Ocular Micrometre:** An ocular micrometre helps in accurate measurements during microscopic examinations.

**Plant Anatomy Charts:** Visual aids like charts and diagrams help students and researchers understand plant anatomy and morphology better.

**Alcohol and Formaldehyde:** These are used as preservatives and fixatives for plant specimens.

**Chemicals:** A wide range of chemicals, including reagents and stains, are used for various experiments and analyses.

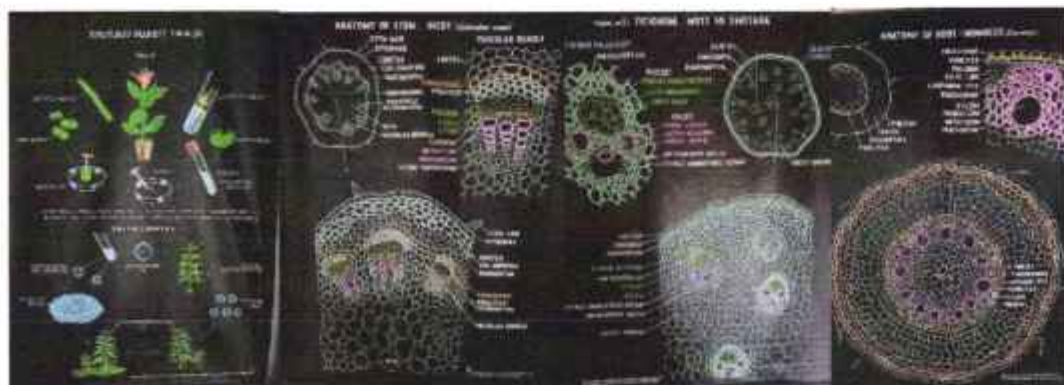
**Weighing balance:** A weighing balance is a critical piece of equipment found in Botany laboratories. It plays a pivotal role in plant research by allowing scientists, students, and researchers to accurately measure the mass of plant specimens, conduct various experiments, and gather crucial data for their studies.

**Refrigerator:** Some plant specimens or reagents may require refrigeration for long-term storage.





A well-organized and equipped botany lab is essential for advancing our knowledge of plants and their crucial roles in ecosystems, agriculture, and human life. It provides a space for scientific exploration, experimentation, and discovery, allowing us to unravel the mysteries of the plant world and address important questions related to plant biology, ecology, and conservation.



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## Chemistry Lab: Where Science Meets Experimentation

The chemistry lab is a space where scientists, students, and researchers explore the fascinating world of matter, reactions, and chemical processes. This controlled environment is equipped with various tools and equipment to conduct experiments, analyse substances, and gain a deeper understanding of the fundamental principles of chemistry. Let's delve into the essential components and equipment found in our Chemistry laboratory:

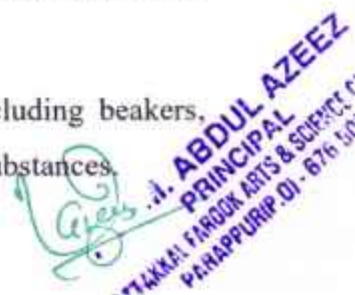
**Laboratory Benches and Workstations:** These provide a stable and spacious surface for conducting experiments and setting up equipment.

**Safety Equipment:** Safety is paramount in a chemistry lab. It includes safety goggles, lab coats, gloves, and emergency shower and eye wash stations in case of accidents.

**Fume Hood:** Fume hoods are essential for safely conducting experiments that involve noxious or hazardous chemicals. They prevent the escape of harmful fumes and ensure the safety of lab personnel.

**Chemical Storage Cabinets:** These cabinets are designed to store chemicals safely, segregating them based on their compatibility and potential hazards.

**Glassware:** Chemistry labs are stocked with a wide range of glassware, including beakers, flasks, test tubes, and graduated cylinders, for measuring, mixing, and holding substances.



**Heating Equipment:** Bunsen burners, hot plates, and heating mantles are used for heating and boiling substances in various experiments.

**Chemicals:** Chemicals are the heart of any chemistry lab, including acids, bases, salts, solvents, and a plethora of reagents for specific experiments.

**Analytical Balances:** These precise instruments are used to measure the mass of substances accurately.

**Centrifuges:** Centrifuges are used for separating substances based on density, such as separating solids from liquids or isolating components from a mixture.

**Safety Showers and Eyewash Stations:** In case of chemical spills or accidents, these are crucial for immediate decontamination and safety.

**Burettes and Titrators:** These are used for precise volumetric measurements and titrations in analytical chemistry.

**Chemical Hoods:** Used for safely handling volatile or toxic substances, chemical hoods protect users from harmful fumes and vapours.

**Lab Notebooks and Lab Documentation:** Keeping detailed records of experiments and observations is a fundamental aspect of scientific research.

**Chemical Waste Disposal System:** Proper disposal of chemical waste is essential for environmental safety and compliance with regulations.

A well-equipped and organized chemistry lab is the cornerstone of scientific research and education in the field of chemistry. It provides the resources and infrastructure needed to explore the properties, behaviour, and interactions of chemicals and contributes to advancements in various fields, including medicine, materials science, environmental science, and more. The chemistry lab is where theoretical knowledge meets practical experimentation, leading to discoveries that shape our understanding of the natural world.

## **Zoology Lab: Exploring the Diversity of Animal Life**

The zoology lab is a dynamic environment where scientists, students, and researchers engage in the study of animals and their diverse characteristics, behaviours, and ecosystems. It serves as a hub for hands-on exploration, research, and the advancement of knowledge about the animal kingdom. Let's explore the key components and equipment found in our zoology laboratory:



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**Lab Notebooks and Lab Documentation:** Keeping detailed records of experiments and observations is a fundamental aspect of scientific research.

**Microscopes:** Microscopes are fundamental tools for studying the microscopic structures of animals, including cells, tissues, and parasites.

**Specimens:** Zoology labs house a vast collection of animal specimens, both preserved and living, representing various species from different taxonomic groups. These specimens are used for research, identification, and teaching purposes.

**Dissection Tools:** Zoologists use a variety of dissection tools, including scalpels, scissors, forceps, and dissecting trays, to examine the internal anatomy of animals.

**Skeletons and Models:** Anatomical models and skeletons help students and researchers understand the internal and external structures of animals.

**Microtomes:** Microtomes are used to prepare thin sections of animal tissues for histological examination.

**pH Meters and Water Quality Analysers:** These instruments are used to assess the water quality in aquariums and aquatic animal habitats.

**Chemical Reagents:** Various chemicals are used for tasks such as preserving specimens, staining tissues, and conducting biochemical analyses.

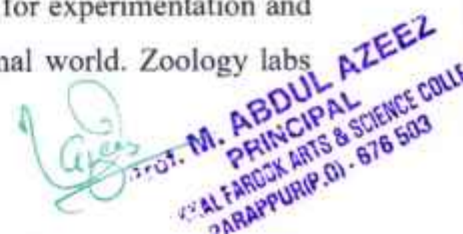
**Computer Workstations:** Computers are used for data analysis, simulations, and modelling, as well as for recording and organizing research findings.

**Field Equipment:** Field zoologists often use equipment like traps, nets, and binoculars for capturing and studying animals in their natural habitats.

**Animal Handling and Safety Gear:** Safety gear includes gloves, lab coats, and protective eyewear to ensure safe interactions with animals and laboratory equipment.

**Weighing balance:** A weighing balance is a critical piece of equipment found in zoology laboratories. It plays a pivotal role in animal research by allowing scientists, students, and researchers to accurately measure the mass of animal specimens, conduct various experiments, and gather crucial data for their studies.

A well-equipped zoology lab is crucial for advancing our understanding of animal biology, behaviour, ecology, and evolution. It provides a controlled environment for experimentation and observation, allowing researchers to uncover the intricacies of the animal world. Zoology labs





contribute to the conservation of species, the understanding of biodiversity, and the development of knowledge that benefits both the scientific community and society at large.

## **7. COACHING FOR SUPPLEMENTARY EXAMINATIONS:**

Special coaching was given to students writing the supplementary and improvement exams by faculty members so that they can clear the exam with confidence.

## **CO-CURRICULAR, CULTURAL AND EXTRACURRICULAR ACTIVITIES, THE INDUSTRIAL AND VILLAGE VISITS, AND EXTENSION ACTIVITIES**

### **FIELD TRIP:**

Excursions are arranged to give exposure to students. Field education is equally important as a class room teaching. It's an essential part of botany as plants are best studied in natural habitat. These tours bring a good repo among students and teachers.

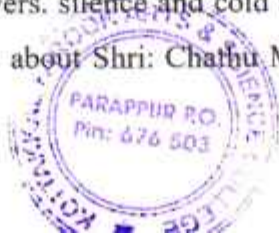
As a part of BSc. Curriculum, one day trip was organized to nilambur (Connolly's plot & Teak museum) a small town on banks of river Chaliyar enriches with raw nature; by Department of Botany, Kottakkal Farook arts and science college for 3<sup>rd</sup> sem botany students. A group of 14 students were accompanied by beloved teacher Dr. Chithra M, Sajeeha, Aiswarya, Suhail KP and Anuvindh of botany department.

The objectives of the trip was

- ◆ Familiarize the students with the wild and cultivated flora and ecology of region.
- ◆ Study the natural habitat and character of each and every plants found in area.
- ◆ Know about the growth and structure of variety species.

### **Conolly plot:**

At 9'o clock, team entered to the plot. we have walked through forest by observing the flora and begins with the exploration of surrounding open area. Its quiet observable how carefully they maintaining teak trees that have stood so much of time Leaves one in awe. The area covered with rare species of trees, plants, birds and insects etc. But the ambience was amazing. It is obviously a better option for calm natural lovers. silence and cold atmosphere gave a fresh feeling on that morning. We observed few boards about Shri: Chathu Menon who known for the first original



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Teak plantation of 1846 under the supervision of Mr. H.V Connolly. The initial plantation was 1500 acres. 5.7 acres preserved and protected by Kerala Forest Department as Connolly plot.

### **Teak Museum:**

Teak Museum located in a vast area of land. Entrance was arranged beautifully with flora. There had a cold atmosphere. Crowd was large at 12.00 am. Teak museum a two storied building, but the museum provides extensive and scientific information on teak. The ground floor is exclusively dedicated to research on 'kannimara's' teak, which is the oldest of its kind in the world. Museum also has a detailed account of bark, seed, flower and fruits of teak which is enjoyable as well as educational experience.

### **Herbal Garden:**

Herbal Garden Teak museum surrounded by vast land of Herbal Garden including park. Herbal garden maintained well properly for visitors. Every corner gave an exploring mind to visitors. Herbal Garden provides a lot information about variety of plants that just read in studies. Several green shrubs, ornamental plants, climbing medicinal plants like Asparagus racemoses example to this. Herbal Garden provide a immense knowledge about local medicinal plants and the awareness on plants. Each plants in every family is a visual treat to visitors.

## **1. SEMINARS AND INVITED TALKS:**

Department of botany organized seminars, which are gatherings of experts and enthusiasts discuss various aspects of plant science. Botany Department organized seminar sessions Dioscoreaceae and Lanvandula .

Department organized a One Day Seminar DIOSCOREACEAE on 24 August 2022 at the Seminar hall. In the seminar all the students in 3<sup>rd</sup> sem BSc. Botany presented the seminar on Medicinal plants belonging to different families. This seminar brings an idea about different plant families and their particular medicinal uses and taxonomy also. The following topics were presented by students:

- 1) Shahida VK – Annonaceae
- 2) Ayisha Hiba – Meliaceae
- 3) Sneha VK- Asteraceae
- 4) Shahanasherin K-Solonaceae



  
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- 5) Ummul Haifa CK- Cuesalpinaceae
- 6) Hafsath- Cucurbitaceae
- 7) Nandana A- Myrtaceae
- 8) FathimaShafna MN –Liliaceae
- 9) Nafeesa Bayan k – Rubiaceae
- 10) FarhaShurooque PP- Acanthaceae
- 11) FathimaShabeeba M- Fabaceae
- 12) Safna A- Malvacea
- 13) ShahmaSherin KP–Mimosaceae
- 14) ShafnaNazar VV- Poaceae
- 15) FeminaChekkath- Euphorbiceae

The session was very informative and benefited to the participants. This session was very interactive and was much benefited to the participants and is followed by open discussion by students and teachers. The seminar was concluded by valedictory function at about 4.00 pm. Teachers and students shared their feedback on the seminar in this session.

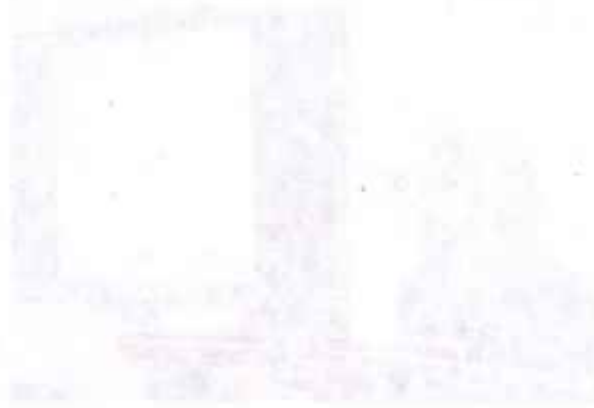
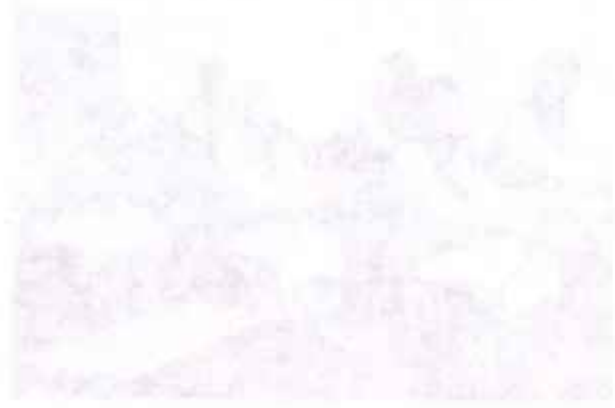
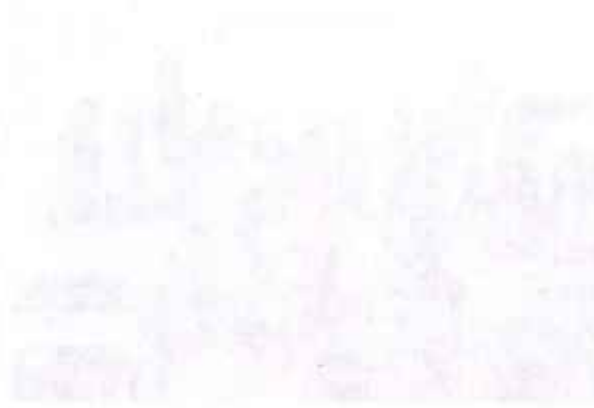
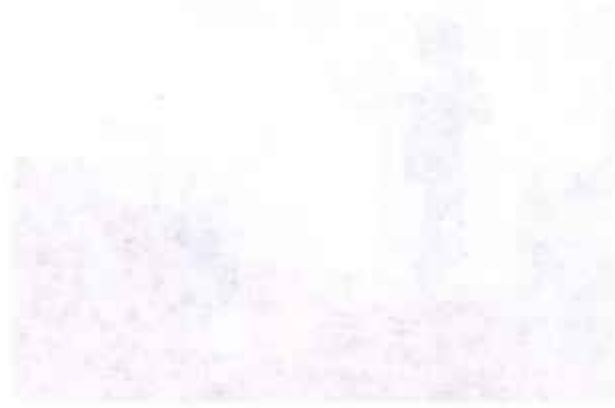
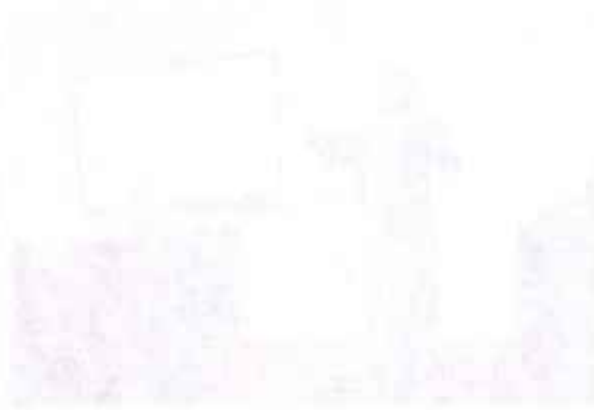
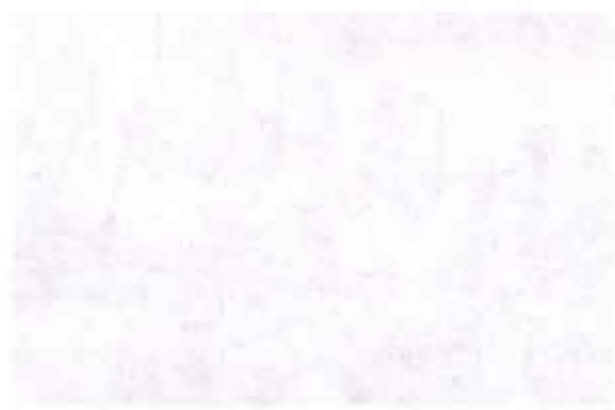
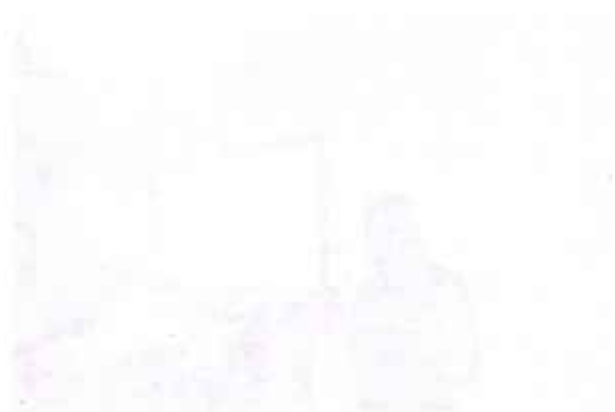


  
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## INVITED TALK:

Botany department organized a One Day Seminar Lavandula on 'National Science Day Celebrations 2023' on 2<sup>nd</sup> March 2023 at the Seminar hall. The formal inauguration of this seminar was take place at about 10 am. Faculty members from this college, other colleges, U.G. students from other departments and our department were participated in the inaugural session and in the seminar. Mrs. Sajeeha Quansah, Assistant Professor, Department of Botany, welcomed all to the programme.

Dr.Chithra M., Assistant Professor and Head, Department of Botany, give presidential address. Mr. Muhammed labeeb Vice Principal, Kottakkal Farook Arts & Science College inaugurated the seminar. In his inaugural speech, he explained Lavandula, the seminar conducted by Botany Department.

Chief guest Dr. Rajesh Kumar T, Assistant professor, department of Botany , NSS college Manjeri, delivered an introductory speech about Lavandula seminar conducted by Department of Botany.

In the first session of the programme a Quiz competition and Puzzle game was conducted . In the Quiz competition students from various departments were participated and Prize distributed to the winners. The Puzzle game was conducted for botany students and prize distributed for winners. Certificate distribution also conducted for Dioscoreaceae participants.

The technical session one was commenced at about 2.30pm , which was handled by Dr. Rajesh Kumar T, Assistant Professor , Department of Botany, NSS College Manjeri on the topic ' MODERN TRENDS IN TAXONOMIC RESEARCH '.

In his technical speech, he explained about various aspects of Plant taxonomy. He explained importance of taxonomy in day today life, Taxonomic classifications , job opportunities , etc.. The session was very informative and benefited to the participants. This session was very interactive and was much benefited to the participants and is followed by open discussion by students and teachers. The seminar was concluded by valedictory function at about 4.00 pm. Teachers and students shared their feedback on the seminar in this session.

These two seminar sessions promote knowledge sharing and networking.



  
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**DEPARTMENT OF BOTANY**

**EXTENSION ACTIVITIES 2022-2023**

**REPORT**

## **PROMOTING HEALTH AND NUTRITION WORKSHOP**

Title : Promoting Health and Nutrition Workshop

Date : December 13, 2022

Venue : Kottakkal Farook Arts and Science College, Department of Botany

Organizer : 1 st Year Students, Department of Botany, Kottakkal Farook Arts and Science College


### **Introduction:**

On December 13, 2022, the 1st-year students( first semester ) of the Department of Botany at Kottakkal Farook Arts and Science College organized a workshop focused on "Promoting Health and Nutrition." The workshop aimed to enlighten participants about the significance of maintaining a balanced diet, promote the cultivation of nutritious plants, and collaborate with local healthcare providers to provide basic health check-ups and awareness campaigns.

### **Objectives:**

1. To emphasize the importance of a balanced diet for overall health and well-being.
2. To encourage the cultivation of nutritious plants for sustainable food sources.
3. To collaborate with local healthcare providers to provide basic health check-ups and awareness campaigns.
4. To empower residents with knowledge about maintaining optimal health through dietary choices.
5. To foster community engagement and responsibility towards health and nutrition.



  
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6. To evaluate the effectiveness of the workshop in meeting the needs of participants.

**Methodology:**

The workshop utilized various methods to engage participants, including interactive sessions, presentations, and practical demonstrations. Students delivered talks on the significance of a balanced diet and showcased various nutritious plants suitable for cultivation. Local healthcare providers conducted basic health check-ups and offered guidance on preventive healthcare measures.

**Outcomes:**

A total of 30 residents from Ward 12 of Parappur Panchayath, Veenalukkal, and 21 students actively participated in the program. The workshop received positive feedback from participants, indicating an increased awareness of health and nutrition. Residents particularly appreciated learning about balanced diets and plant cultivation techniques. However, some residents raised doubts about specific dietary requirements for different age groups and the feasibility of cultivating certain plants in their region.

**Summary:**

The workshop successfully achieved its objectives by raising awareness about health and nutrition among participants. Interactive sessions facilitated meaningful discussions, and participants expressed gratitude for the opportunity to access basic health check-ups and information.



  
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# KOTTAKKAL FAROOK ARTS AND SCIENCE COLLEGE

## DEPARTMENT OF BOTANY

### EXTENSION ACTIVITY 2022-2023

#### FEEDBACK FORM

Name of the Resident:

Age:

Gender:

1. How would you rate the effectiveness of the workshop in raising awareness about health and nutrition?

- a) Excellent     b) Good     c) Average     d) Poor

2. Did the workshop enhance your understanding of the importance of a balanced diet?

- a) Yes     b) No

3. Would you consider implementing the knowledge gained from the workshop in your daily life?

- a) Yes     b) No

4. Which aspect of the workshop did you find most beneficial?

- a) Talks on balanced diet     b) Practical demonstration of plant cultivation

c) Health checkups and awareness campaigns

d) Other (please specify) \_\_\_\_\_

5. How likely are you to seek further information or support regarding your nutrition and dietary needs after attending this workshop?

- a) Very likely     b) Somewhat likely     c) Not sure     d) Not likely



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6. How satisfied were you with the duration of the workshop?

- a) Very satisfied       b) Satisfied       c) Neutral   
d) Dissatisfied       e) Very dissatisfied

7. Rate the overall organization of the workshop:

- a) Excellent       b) Good       c) Average       d) Poor

8. Did the workshop inspire you to make any changes to your current eating habits or lifestyle choices?

- a) Yes       b) No

9. Did the workshop provide practical tips and strategies that you can apply to improve your dietary habits?

- a) Yes       b) No

10. Would you recommend this workshop to others interested in learning about health and nutrition?

- a) Yes       b) No

11. Any additional comments or feedback?



  
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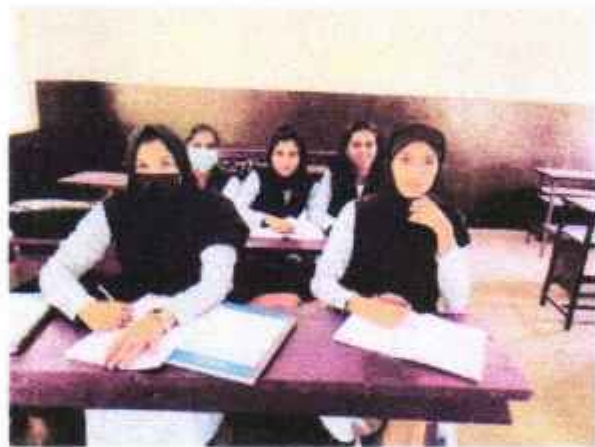
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**DEPARTMENT OF BOTANY**  
**EXTENSION ACTIVITY 2022-2023**  
**FIRST SEMESTER PARTICIPANTS LIST**

TITLE: Promote Health and Nutrition workshop  
 venue Kottakkal Farook Arts and Science College

Sl.no	Admin no	Name of student	Signature
1	4897	ATHULYA. K.K	<i>Athulya</i>
2	5227	AYSHA SIMSIMA. K.M	<i>Aysha</i>
3	5034	BARJEESA BINDH	<i>Barjeesa</i>
4	5135	FAHMI K	<i>Fahmi</i>
5	5036	FATHIMA FIDA T.P	<i>Fathima P</i>
6	5035	FATHIMA HANNA . K . K	<i>Fathima</i>
7	5037	HISANA HANAN . M	<i>Hanna</i>
8	5274	LUBNA SHERI K.	<i>Lubna</i>
9	5038	MEGHNA . N	<i>Meghna</i>
10	5039	MISNIYA K	<i>Misniya</i>
11	5040	NAHIDA K K	<i>Nahida</i>
12	4764	NASHWA MANHAKANDAN	<i>Nashwa</i>
13	5172	NASLA SHIRIN P K	<i>Nasla</i>
14	4894	NEHLA	<i>Nehla</i>
15	5186	RAHNA . C . C	<i>Rahna</i>
16	5041	RASHA FATHIMA . M	<i>Rasha</i>
17	5042	SHABANA THASNIN . K	<i>Shabana</i>
18	5275	SHAHALA SHERIN P	<i>Shahala</i>
19	5043	SHAHANA. P.	<i>Shahana</i>
20	5044	SHANA JASMIN.M	<i>Shana</i>
21	5045	SUHAILA RAHMATH U	<i>Suhaila</i>



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Promoting Health And Nutrition Workshop



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# KOTTAKKAL FAROOK ARTS AND SCIENCE COLLEGE

## DEPARTMENT OF BOTANY

### EXTENSION ACTIVITIES 2022-2023

#### REPORT

## EMPOWERING COMMUNITIES ON WATER MANAGEMENT AND CONSERVATION

Title : Empowering Communities: Water Management and Conservation Workshop

Date : July 22, 2022

Venue : Ward 12, Parappur Panchayath

Organizer : Department of Botany, Kottakkal Farook Arts and Science College

#### Introduction:

On July 22, 2022, the Second year students( 3 semester) of Department of Botany at Kottakkal Farook Arts and Science College organized a workshop on "Water Management and Conservation" in collaboration with the local community of Ward 12, Parappur Panchayath. The workshop aimed to address pressing issues related to water scarcity, pollution, contamination and inefficient usage prevalent in the region

#### Objectives:

1. Raise awareness about the importance of water management and conservation.
2. Educate villagers on implementing sustainable water management strategies.
3. Facilitate the creation of rainwater harvesting structures.
4. Organize campaigns to prevent water pollution and contamination.
5. Foster community participation in preserving water resources.



  
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**Methodology:**

The workshop comprised interactive sessions, practical demonstrations, and group activities. Students from the Department of Botany actively engaged with residents, providing hands-on assistance in constructing rainwater harvesting systems, conducting educational sessions on water conservation, and organizing awareness campaigns to prevent water pollution and contamination.

**Outcomes:**

- 40 residents from Ward 12 actively participated, alongside 15 students, fostering community engagement.
- Successful implementation of rainwater harvesting structures, enhancing local water availability.
- Increased awareness among villagers regarding efficient water usage and pollution prevention measures.
- Strengthened community resilience through collective efforts in water conservation.

**Summary with Key Areas of Resident Doubts:**

Residents expressed doubts regarding the maintenance of rainwater harvesting systems, the feasibility of implementing water conservation techniques in households, and the long-term sustainability of community-led initiatives.



  
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## DEPARTMENT OF BOTANY

### EXTENSION ACTIVITY 2022-2023

#### FEEDBACK FORM

Name of the Resident:

Age:

Gender:

1. How would you rate the workshop content?

- a) Excellent  b) Good  c) Average  d) Poor

2. Did the workshop enhance your understanding of water management?

- a) Yes  b) No

3. Would you implement the techniques learned in your daily life?

- a) Yes  b) No

4. Do you believe community participation is crucial for water conservation?

- a) Yes  b) No

5. Were the organizers helpful and informative?

- a) Yes  b) No

6. Which aspect of the workshop did you find most beneficial?

- a) Rainwater harvesting  b) Water pollution prevention   
c) Efficient water usage  d) Awareness campaigns

7. How likely are you to recommend similar workshops to others?

- a) Highly likely  b) Likely  c) Not likely  d) Not at all likely



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8. Would you like follow-up sessions on water management?

a) Yes       b) No

9. Do you believe workshops like these can make a difference in water conservation?

a) Yes       b) No

10. Any additional comments or suggestions?

**Name and Signature**


















A handwritten signature in green ink, appearing to read "M. Abdul Azeez".

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**DEPARTMENT OF BOTANY**  
**EXTENSION ACTIVITY 2022-2023**  
**THIRD SEMESTER PARTICIPANTS LIST**

TITLE: Empowering communities on water management and conservation  
 VENUE: Ward 12, Parappur Panchayath

Sl.No		ADMN NO:	Name of student	
1	Group 1	4317	AYISHA HIBA	
2		4589	FARHA SHUROOQUE. P P	
3		4601	FATHIMA SHABEEBA. M	
4		4607	FATHIMA SHAFNA.M.N	
5		4557	FEMINA CHEKKATH	
6	Group 2	4732	HAFSATH P	
7		4608	NAFEESA BHAYAN	
8		4715	NANDANA A	
9		4616	SAFNA A	
10		4380	SHAFNA NAZAR. V.V	
11	Group 3	4735	SHAHIDA . V .K	
12		4522	SHAHMA SHERIN.K.P	
13		4282	SHAHNA SHERIN K	
14		4685	SNEHA VK	
15		4734	UMMUL HAIFA	



  
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EMPOWERING COMMUNITIES ON WATER MANAGEMENT AND CONSERVATION



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# KOTTAKKAL FAROOK ARTS AND SCIENCE COLLEGE

## DEPARTMENT OF BOTANY

### EXTENSION ACTIVITIES 2022-2023

#### REPORT

## ORGANIC GARDENING INITIATIVE

Title : Cultivating Sustainability: Empowering Communities through Organic Gardening

Date : January 9, 2023

Venue : Parappur Panchayath, Ward 12, Veenalukkal

Organizer : 2 nd year students of Department of Botany, Kottakkal Farook Arts and Science College

#### Introduction:

On January 9, 2023, the 2nd -year students (4 semester) of the Department of Botany at Kottakkal Farook Arts and Science College embarked on a transformative project titled "Organic Gardening Initiative" in Ward 12, Veenalukkal of Parappur Panchayath. This initiative aimed to empower local communities by promoting organic farming techniques and fostering sustainable agriculture practices.

#### Objectives:

1. To establish and support a community garden promoting organic farming methods.
2. To educate villagers on the principles and benefits of sustainable agriculture.
3. To assist in setting up organic gardens and provide guidance on plant selection.
4. To conduct workshops on composting techniques for organic waste management.
5. To educate participants on natural pest management methods to minimize chemical usage.
6. To promote the consumption of locally grown organic produce for improved health and environmental sustainability.



  
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7. To foster a sense of community ownership and collaboration towards achieving food security and environmental conservation.

**Methodology:**

The program engaged both students and residents in collaborative efforts to establish and support community gardens. Students provided hands-on assistance in setting up organic gardens, including soil preparation, planting, and maintenance. Educational sessions were conducted to enlighten participants about the principles of organic farming, emphasizing the importance of soil health, biodiversity, and sustainable water management. Workshops on composting and natural pest management were organized to equip participants with practical skills for managing organic gardens effectively.

**Outcomes:**

With active participation from 42 residents and 15 students, the Organic Gardening Initiative yielded significant outcomes. Several community gardens were successfully established, serving as hubs for promoting organic farming practices. Participants gained valuable insights into sustainable agriculture techniques, enhancing their capacity to cultivate healthy and environmentally friendly gardens. The initiative also fostered a sense of community solidarity and empowerment, as residents and students worked together towards achieving common goals of food security and environmental sustainability.

**Summary with Key Areas of Resident Doubts:**

Residents raised concerns about the feasibility and maintenance of organic gardens in urban environments, particularly regarding limited space and resources. They also expressed doubts about the effectiveness of organic pest management techniques and the accessibility of organic produce to marginalized communities. Addressing these concerns will be essential for ensuring the long-term success and inclusivity of organic gardening initiatives.

This extension activity report encapsulates the transformative impact of the Organic Gardening Initiative, highlighting the importance of community collaboration in promoting sustainable agriculture and environmental stewardship.




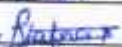


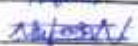










  
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**KOTTAKKAL FAROOK ARTS AND SCIENCE COLLEGE**  
**DEPARTMENT OF BOTANY**  
**EXTENSION ACTIVITY 2022-2023**  
**FOURTH SEMESTER PARTICIPANTS LIST**

TITLE: Organic Gardening Initiative

VENUE: Veenalukkal, Parappur Panchayath

Sl.No	Admn no:	Name of student	Signature
1	4317	AYISHA HIBA	
2	4589	FARHA SHUROOQUE. P P	
3	4601	FATHIMA SHABEEBA. M	
4	4607	FATHIMA SHAFNA.M.N	
5	4557	FEMINA CHEKKATH	
6	4732	HAFSATH P	
7	4608	NAFEESA BHAYAN	
8	4715	NANDANA A	
9	4616	SAFNA A	
10	4380	SHAFNA NAZAR. V.V	
11	4735	SHAHIDA. V. K	
12	4522	SHAHMA SHERIN.K.P	
13	4282	SHAHNA SHERIN K	
14	4685	SNEHA VK	
15	4734	UMMUL HAIFA	



  
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**KOTTAKKAL FAROOK ARTS AND SCIENCE COLLEGE**  
**DEPARTMENT OF BOTANY**  
**EXTENSION ACTIVITY 2022-2023**  
**FEEDBACK FORM**

Name of the Resident:

Age:

Gender:

1. How would you rate the overall organization of the Organic Gardening Initiative?

a. Excellent  b. Good  c. Average  d. Poor

2. Did the initiative enhance your understanding of organic farming techniques?

a. Yes  b. No

3. Were the workshops on composting and pest management informative and engaging?

a. Yes  b. No

4. Do you feel inspired to practice organic gardening after participating in this initiative?

a. Yes  b. No

5. Would you recommend similar initiatives to your friends and family?

a. Yes  b. No

6. How important do you think community involvement is in promoting sustainable agriculture?



  
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a. Very important  b. Somewhat important  c. Not important

7. Did the initiative address your concerns regarding food security and environmental sustainability?

a. Yes  b. No

8. What additional resources or support do you think are needed to sustain organic gardening initiatives?

a. Funding  b. Technical expertise  c. Community outreach   
d. Other (please specify).....

9. How satisfied were you with the level of participation from residents and students?

a. Very satisfied  b. Satisfied  c. Neutral  d. Dissatisfied

10. Did the initiative meet your expectations?

a. Yes  b. No

11. Did the initiative inspire you to learn more about organic farming? a. Yes  b. No

12. How likely are you to incorporate organic gardening practices into your daily life?

a. Very likely  b. Somewhat likely  c. Not likely

13. Any additional comments or suggestions?

Name and Signature



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Organic Gardaning Initiative



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# KOTTAKKAL FAROOK ARTS AND SCIENCE COLLEGE

## DEPARTMENT OF BOTANY

### EXTENSION ACTIVITIES 2022-2023

#### REPORT

## HERBARIUM AND PLANT DOCUMENTATION

**Title :** Preserving Biodiversity: Establishing a Community Herbarium

**Date:** January 17, 2023

**Venue :** Ward 12, Parappur Panchayath , Veenalukkal

**Organizer :** 2 semester Bsc. Botany ,Department of Botany, Kottakkal Farook Arts and Science College

#### **Introduction:**

On January 17, 2023, the second semester Bsc . Botany students of the Department of Botany of Kottakkal Farook Arts and Science College initiated a significant project titled "Herbarium and Plant Documentation" at Veenalukkal in Parappur Panchayath. This endeavor aimed to establish a community herbarium to systematically document and preserve the rich plant diversity of the locality.

#### **Objectives:**

1. To collect and identify plant specimens representing the local flora.
2. To create a comprehensive database of plant species found in the area.
3. To organize workshops on plant identification and documentation techniques.
4. To engage residents and students in the process of herbarium establishment.
5. To promote awareness about the importance of preserving plant biodiversity.
6. To foster a sense of community ownership and stewardship towards local plant resources.

#### **Methodology:**

The program involved active participation from both students and residents, who collaborated to collect plant specimens from various locations within the community. These specimens were meticulously identified and documented, contributing to the creation of a comprehensive database. Workshops on plant identification and documentation techniques



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were conducted to enhance participants' skills and knowledge in this field.

**Outcomes:**

With 30 residents from Ward 12 of Parappur Panchayath and 21 students actively involved, the Herbarium and Plant Documentation project yielded significant outcomes. A community herbarium was successfully established, providing a valuable resource for researchers and enthusiasts alike. Participants gained hands-on experience in plant identification and documentation, fostering a deeper appreciation for local biodiversity.

**Summary with Key Areas of Resident Doubts:**

Residents expressed concerns regarding the sustainability of the herbarium project and the long-term preservation of collected specimens. They also raised questions about the accessibility of the herbarium to the wider community and the potential impact of human activities on local plant diversity. Addressing these concerns will be vital for ensuring the longevity and effectiveness of the herbarium initiative.

This extension activity report encapsulates the significant impact of the Herbarium and Plant Documentation project, highlighting the importance of community collaboration in preserving and documenting local plant biodiversity.



*J. M. Abdul Azeez*  
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**KOTTAKKAL FAROOK ARTS AND SCIENCE COLLEGE**

**DEPARTMENT OF BOTANY**

**EXTENSION ACTIVITY 2022-2023**

**FEEDBACK FORM**

Name of the Resident:

Age:

Gender:

1. How would you rate the overall organization of the Herbarium and Plant Documentation project?

a. Excellent  b. Good  c. Average  d. Poor

2. Did the project enhance your understanding of local plant diversity?

a. Yes  b. No

3. Were the workshops on plant identification and documentation informative and engaging?

a. Yes  b. No

4. Do you feel inspired to participate in similar conservation projects in the future?

a. Yes  b. No

5. Would you recommend similar projects to your friends and family?

a. Yes  b. No

6. How important do you think community involvement is in preserving plant biodiversity?

a. Very important  b. Somewhat important  c. Not important



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7. Did the project address your concerns regarding the long-term preservation of plant specimens?

- a. Yes  b. No

8. What additional resources or support do you think are needed to sustain the herbarium project?

- a. Funding  b. Technical expertise  c. Community engagement   
d. Other (please specify) .....

9. How satisfied were you with the level of participation from residents and students?

- a. Very satisfied  b. Satisfied  c. Neutral  d. Dissatisfied

10. Did the project inspire you to learn more about plant diversity?

- a. Yes  b. No

11. How likely are you to visit the herbarium in the future?

- a. Very likely  b. Somewhat likely  c. Not likely

12. Any additional comments or suggestions?

Name and Signature



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**DEPARTMENT OF BOTANY**  
**EXTENSION ACTIVITY 2022-2023**  
**SECOND SEMESTER PARTICIPANTS LIST**

TITLE: Herbarium and Plant Documentation  
 VENUE: IUHSS parappur, Parappur panchayath

Sl.no	Group	Admin no	Name of student	Signature
1	Group 1	4897	ATHULYA. K.K	<i>Athulya</i>
2		5227	AYSHA SIMSIMA. K.M	<i>Aysha</i>
3		5034	BARJEESA BINDH	<i>Barjeesa</i>
4		5135	FAHMI K	<i>Fahmi</i>
5		5036	FATHIMA FIDA T.P	<i>Fathima</i>
6		5035	FATHIMA HANNA . K . K	<i>Fathima</i>
7	Group 2	5037	HISANA HANAN . M	<i>Hisana</i>
8		5274	LUBNA SHERI .K.	<i>Lubna</i>
9		5038	MEGHNA . N	<i>Meghna</i>
10		5039	MISNIYA K	<i>Misniya</i>
11		5040	NAHIDA K K	<i>Nahida</i>
12	Group 3	4764	NASHWA MANHAKANDAN	<i>Nashwa</i>
13		5172	NASLA SHIRIN P K	<i>Nasla</i>
14		4894	NEHLA	<i>Nehla</i>
15		5186	RAHNA . C . C	<i>Rahna</i>
16	5041	RASHA FATHIMA . M	<i>Rasha</i>	
17	Group 4	5042	SHABANA THASNIN . K	<i>Shabana</i>
18		5275	SHAHALA SHERIN P	<i>Shahala</i>
19		5043	SHAHANA. P.	<i>Shahana</i>
20		5044	SHANA JASMIN.M	<i>Shana</i>
21		5045	SUHAILA RAHMATH U	<i>Suhaila</i>



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HERBARIUM AND PLANT DOCUMENTATION



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In conclusion, the annual report of the Department of Botany for 2022-2023 highlights a year of significant research advancements, educational excellence, and a steadfast commitment to the study of plant sciences. Our dedicated faculty, driven students, and collaborative partnerships have propelled us to new heights in understanding the intricate world of plants. Throughout the year, our department has conducted ground breaking research, published influential papers, and contributed to the conservation of plant biodiversity. We've also continued to inspire and educate the next generation of botanists through innovative teaching methods and hands-on experiences. As we look ahead, we remain committed to pushing the boundaries of botanical knowledge, fostering environmental stewardship, and preparing our students for careers that will shape the future of botany. We extend our appreciation to all who have supported our department's mission and look forward to another year of growth and discovery in the world of plants.



A handwritten signature in green ink, appearing to read "Azeez".

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