



FLORICAN HILL, MALAPARAMBA,

KOZHIKODE, KERALA

REACCREDITED WITH A+ (3.52) BY NAAC





2022-23
HIGHLIGHTS

Activities focusing on the development of

STUDENTS SCIENCE SOCIETY SDG

in accordance with **SDG**



Pursuing global goals in all the activities of the Department



- Academic excellence with high pass percentage and University Ranks.
- Ample experiential learning opportunities



 Student Ambassadors working together with Nature Positive Universities Alliance to prioritize nature on campuses



- MoU with National level institutions
- Collaborations with Gout Organizations
- Collaborations with local self government bodies



Opportunity to Interact with eminent scientists and researchers



- Conservation and sustainable use of natural resources, Biodiversity and water
- Maintaining gene banks and plant repositories



- Discharging social responsibilities
- Transferring subject knowledge to the benefit of the socie

CONTENTS



Motto, Vision & Mission
Milestones
Programmes offered
Former Faculty
Prominent Alumnae
Faculty
Infrastructure



Activities 2022-23

- Curriculum & Programmes
- Teaching, Learning & Evaluation
- Experiential Learning
- Research output
- Innovations
- Collaborations
- Mou
- Consultancy Services
- Seminars Workshops organized
- Research Scholars
- Awards / Recognitions
- Seminars /workshops attended
- Students' Projects
- Competitions organized
- · Faculty in various roles outside
- Extension
- Student Support Programmes
- Skill Development
- Career guidance programmes
- Progression
- · Achievements of students
- Achievements of Alumnae
- Student Ambassadors of NPUA
- Faculty Development Programmes
- Days observed
- Bhoomithrasena Club
- Jalasree Club
- Biodiversity Club
- Nature Club
- Best practices

MILESTONES

MOTTO

Inspire & Equip

VISION

To excel by providing quality education
To cultivate talent and equip students with employable and inventive skills

Year of Establishment: 1965

Starting B.Sc. Botany Subsidiary: 1965

Starting B.Sc. Botany Main: 1969

Starting Certificate Courses: 2002

Starting M.Sc. Botany: 2013

Upgrading as a Research Centre &

Starting PhD: 2020

PROGRAMMES OFFERED

BSc BOTANY
MSc BOTANY
PhD BOTANY

Certificate Programmes

Mushroom Culture Technology Leafy Vegetable Cultivation Biofertilizer Technology

MISSION

- To bring behavioral change by inculcating values of life
- To enlighten students in all aspects of curricular and extracurricular
- To improve original thinking and research aptitude
- To teach the responsibilities of a citizen and their role in the society by applying the knowledge skills they acquire during the period of study

FORMER FACULTY





Prof TV Kamalam Founder HoD 1966-1992



1968-2002



1970-2002



1972-2004



Dr M Shylaia 1974-2008



1992-2010



2012-2020

National Agricultural Research Service



Dr. Shobhakumari VP Principal Scientist ICAR SBI Coimbatore

PROMNENT

Faculty in Higher Education



Palakkad



Smt .Mary TC College



Dr. M Shylaja College



Smt. T Umadevi



Dr. Alphonsa Vijaya Joseph Principal, St. Teresa's College Ernakuklam







Dr. Sinitha k ciate Professor Govt College



Dr. Jayasree S Associate Professo GASC Kozhikode



Dr. Jija Mathew



St. Tresa's College Ekm



Dr. Nisha P Assistant Professor St.Xavier's College Aluva



Dr. Anjana S sistant Profes



PROVIFLORA



Dr. Rency RC Assistant Professor Govt.College Kodenchery





Faculty in General Education

Dr. Sini Higher Sec School Teacher, GHSS Payimbra





ncy Maria Sebastia igh School Teache LSN Ottappalam



High School Teacher GHS

Scientists in Central Service



Scientific Officers in State Service





Scientific Officers in MNCs abroad





R&D Specialist





Agriculture - Field & technical officers





Media



Literature



Social Service



Banking



Law



FCI



Food Corporation of India

Library Science



Hyderabad

Cinema



Music



IT

PAGE 2

FACULTY PROFILE

Responsibilities 2022-23

Institution level

University level

Membership in Professional Bodies



DR.DEENA MERIA JOSE PROFESSOR

HoD

Teaching Experience: 17 yrs Research Guide. Chairperson, BoE-MSc Botany (S1&2) & BVoc Org. Farming. Member, BoE-BSc Botany

Associate of the Linnean Society of London,

Member of the Indian Botanical Society



DR.MINOO DIVAKARAN
PROFESSOR

Coordinator of IQAC

Teaching
Experience:
17 yrs

Research guide. Chairperson, BoE-MSc Botany (S3&4). Member, BoE-BSc Botany

Fellow of the Linnean Society of London



DR. VEENA V

ASSISTANT POFESSOR

FIC of Bhoomithra sesna

> Teaching Experience: 2 yrs

Member, BoE, MSc & BSc Botany BVoc Organic Farming

Life time Member of the Indian Botanical Society



SR. PILTY PETER A
ASSISTANT POFESSOR

FIC of Biodiversity Club

Teaching Experience: 2 yrs

FIC of Jalasree,

Student Advisor,

Coordinator of IEDC

Teaching

Experience:

2 yrs

Member, BoE, MSc & BSc Botany BVoc Organic Farming

Member, BoE, MSc & BSc Botany and BVoc Organic

Farming



DR.ARCHANA ER
ASSISTANT POFESSOR

Staff Editor

Teaching Experience: 1 yr Member, BoE, MSc & BSc Botany, BVoc Organic Farming



DR.SAVITHA RABEQUE C
ASSISTANT POFESSOR

Teaching Experience: 1 yr



DR.SARANYA BABU JAYAPRAKASH GUEST LECTURER

INFRASTRUCTURE & LEARNING RESOURSES



LIBRARY



Reference Books & Text Books
Digi drive -eBooks
Journals & Periodicals
Floras & Dictionaries
Theses & Dissertations

ICT FACILITIES



Computers with net connectivity
Smart projectors
Interactive board
Image analysis system
Digital Flora & Herbarium

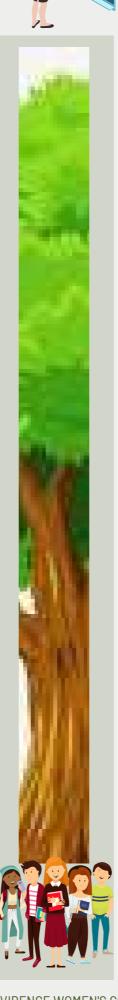
MUSEUM



Angiosperms
Gymnosperms
Pteridophytes
Bryophytes
Algae
Fungi
Economically important plants
Forest products
Pathology

HERBARIUM CONVENTIONAL & DIGITAL

Angiosperms Gymnosperms Pteridophytes Bryophytes Algae Fungi Pathology





General Botany Lab
Research Lab
Physiology Lab
Biochemistry lab
Tissue culture Lab
Molecular Biology Lab
Bioinformatics Lab
Jalasree Harithasala Lab



Botanical Garden Vegetable Garden Green house Fern house Collection of aquatic plants Collection of traditional fruit trees-Santhisthal Collection of star plants Collection of medicinal plants Collection of underutilised leafy vegetabe crops Vanilla Gene Bank Musa Gene Bank Tulsi Gene Bank Aloe Gene bank Azolla cultivation unit



Campus Biodiversity Register Fossil specimens Microslides Visual aids Vermicompost unit



OTHER FACILITIES

Faculty room
Research Scholar's room
Lecture halls & Reading space

CURRICULUM & PROGRAMMES



BSc

Curriculum of B.Sc. Botany focuses on imparting knowledge in basic and applied aspects of Botany

Intake: 36 + marginal increase

MSc

Curriculum of M.Sc. Botany focuses on imparting knowledge in traditional and modern aspects of Botany as well as creating awareness on conservational aspects

Intake : 12+ marginal increase

PhD

Course work:

- Morphology, Biochemistry and Molecular Biology
- Plant tissue culture and Molecular Biology
- Cell and Molecular Biology

Intake : 4 per guide

C ERTIFICATE PROGRAMMES

Designed to develop and strengthen specific subject oriented skills.

Mushroom Culture Technology

Target group: I Year UG &PG No of students enrolled: 53 Course Coordinator: Sr. Pilty

Biofertilizer Technology

Target group: 2nd year UG & PG No of students enrolled: 56 Course Coordinator: Dr. Savitha

Leafy Vegetable Cultivation

Target group: 3rd year UG No of students enrolled: 42 Course Coordinator: Dr. Savitha

TEACHING, LEARNING & EVALUATION



University Rank MSc Botany



GOPIKA VM 7th position



FATHIMA FEBIN CP 8th position

Results

PG:100%

UG: 97.3%

Outcome Based Education **Progression**

UG

35% pursuing PG Courses

16% pursuing professional courses

7% employed.

PG

7% pursuing higher studies in foreign Universities

7% Internship in National level Organizations

38% pursuing professional courses

7% employed

Mentor
Mentee
System
Peer Tutoring

Transparent Assessment system Remedial Coaching Bridge Course Student Centric Teaching methods

Grievance Redressal mechanisms special programmes for Slow & advanced learners

EXPERIENTIAL LEARNING





UNDER GRADUATE LEVEL

09-01-2023

6 sem UG students visited **Kodaikanal** for the study of vegetation at ecologically different areas



10-01-2023

6 sem UG students visited **Ramakalmedu** for the study of vegetation at ecologically different areas



07-02-2023

I sem UG students visited **Punchavayal Wetland Kannadikal**, Kozhikode as a part of World Wetland day observance



18-03-2023

4 sem UG students visited **Regional Agricultutral Research Station Ambalavayal,** Wayanad



02-02-2023

IV Sem UG students visited **Centre for Water Resources Development and Management**, Kozhikode as a part of
World Wetland day observance



POST GRADUATE LEVEL

20-06-2022

3 sem PG students visited molecular Biology Lab at *Indian Institute of Spices Research* Kozhikode



01-08-2022

3 sem PG students visited **Gurukulam Botanical Sanctuary Wayanad**



02-08-2022

I & 3 sem PG students visited **Regional Agricultural Research Station Pattambi f**or lab and field visits related with Rice breeding



EXPERIENTIAL LEARNING





02-11-2022

I sem PG and 4 sem PG students visited **Calicut University Botanical Garden**, for Biodiversity studies



19-12-2022

I sem PG students visited the shore of **Thikkodi**, Kozhikode for specimen collection and for studying the ecology of marine algae.



02-02-2023

II sem PG students visited **Centre for Water Resources Development and Management**, Kozhikode as a part of World Wetland day observance



03-02-2023

I sem PG students visited **Malabar Botanical Garden and Institute for Plant Sciences** for a studying the diversity of lower plants and aquatic plants.



08-12-2022

3 sem PG students visited molecular Biology Lab at *Indian Institute of Spices Research* Kozhikode



04-03-202

2&4 sem PG students visited **Kerala Forest Research Station Sub Centre Nilambur** on 04-04-2023



14-03-2023

2 & 4 sem PG students visited ICAR Indian Agricultural Research Station Wellington Ooty for lab and field visits related with Wheat breeding



15-03-2023

2 & 4 sem PG students visited **Central Potato Research Station Ooty** for lab and field visits related with Wheat breeding



22-03-2023

2 & 4 sem PG students visited **Vanaparvam Biodiversity park Engapuzha** for a nature camp in connection with World Water Day.



RESEARCH OUTPUT

PUBLICATIONS

ARTICLES IN JOURNALS

Saranya Babu J C.M., Minoo Divakaran, P.V. and Madhusoodanan, 2022. 'Role of activated charcoal in thes micropropagation and conservation of Celastrus paniculatus Willd'. Medicinal Plants - International Journal of Phytomedicines and Related Industries, 14(3): 448-455.

Abidha EK, Minoo D and Bibinsha P (2022) Morphometric analysis of the three Curcuma specie, Bioinfolet 19 (3): 244-245

PRESENTATIONS

INTERNATIONAL CONFERENCES

Abidha EK, Bibinsha P and Minoo Divakaran (2022) Genome sequence analysis of three Curcuma species. (P014), Golden Jubilee International Online Conference 4-9 Feb 2022, Biotechspectrum 2022, CUSAT India

Fathima Rafieah NT and Minoo Divakaran (2022) Embryogenesis and morphometric analysis of Vanilla siamensis Rolfe (P015) Golden Jubilee International Online Conference 4-9 Feb 2022, Biotechspectrum 2022, CUSAT India

INNOVATIONS





ARTAzolla Restoration Technology

The practice of growing Azolla to be used in the making of Biofertilizers



Cu Tab

Making Curcumin pellets to be used as a post Covid immunity booster and for cosmetic use







Jaljeevan

Propagation and conservation of aquatic plants using tissue culture technique





Coco Bonsai

A technique of making bonsai with coconut seedlings



COLLABORATIONS



Nature Positive Universities Alliance coordinated by University of Oxford



12 Student Ambassadors working to prioritize nature on campuses



Kerala State Higher Education Council



Conducted an international seminar under the Erudite Scholar in Residence Programme



Dept of Botany University of Calicut



Conducted an international seminar under the Erudite Scholar in Residence Programme



ICAR-IARI Wellington, Ooty



Field visit and Demonstrations of wheat breeding experiments



ICAR-CPRI Ooty



Field visit, off campus lecture and Demonstrations of potato breeding experiments



Kozhikode Municipal Corporation



Involved in the Azhaku Project for waste management in the city



Directorate of Environment and Climate Change, Govt. of Kerala



Functioning of Bhoomithrasena Club



Kerala Sate Biodiversity Board (KSBB)



Functioning of Biodiversity Club.
Conducted a seminar under the
Biodiversity Awareness & Extension
programme



CCDU, Water Resources Dept, Govt. of Kerala



Functioning of Jalasree Club & Water literacy programmes



KSCSTE KFRI Sub Centre Nilambur



Participated in a workshop on traditional wisdom and modern practices for biodiversity conservation



KSCSTE MBGIPS



Conducted field visits to study the diversity of diversity of cryptogams, aquatic, insectivorous plants.

Participated in EK Janaki Ammal memorial seminar



KSCSTE CWRDM



Conducted water quality lab visit. Participated in the World Wetland Day programme



Vanasree Dept. of Forests and Wildlife, Govt of Kerala



Conducted a nature camp at Vanaparvam Biodiversity Park



Amplicon Biolabs KINFRA Techno Industrial Park, Kakanchery

Collaborated in the UG Project work





Sir Syed College Taliparamba



Conducted an international seminar under the Erudite Scholar in Residence Programme



Implemented Agri Gram project for promotion of vegetable gardens



Organic Rich PV Exports, Alappuzha



Conduct of the Certificate course in Biofertilizer Technology

Green Kerala Movement



Awareness programmes in connection with World Meteorological Day

Kerala River Protection Council



Participated in the awareness programmes in connection with World Water Day 2023







ICAR Indian Institute of Spices Research, Kozhikode, Kerala



St. Pious X Degree College Hyderabad, Telangana





St. Joseph's College (Autonomous) Devagiri Kozhikode, Kerala





VJ Biotech Coimbatore, Tamilnadu





St.Mary's College Thrissur, Kerala





Carmel College Mala, Thrissur, Kerala

MoU Activities



ICAR Indian Institute of Spices Research



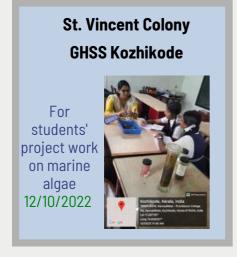
St. Pious X Degree College Hyderabad



St. Joseph's College (Autonomous)

Devagiri

CUNSULTANCY SERVICES







SEMINARS/WORKSHOPS ORGANISED



International Seminar:

Mechanisms of abiotic stress management in plants 27-10-2022

A one-day international seminar on 'Mechanisms of abiotic stress management in plants' under the **Erudite Scholar in Residence Program** funded by **Kerala State Higher Education Council** on 27th October, 2022. Professor Om Prakash Dhankher, Stockbridge School of Agriculture, University of Massachusetts Amherst, USA was the Erudite Scholar. A total of 75 participants including post graduate and graduate students from different streams participated in the program.











National level Webinar:

Organic Farming 02-12-2022.

The webinar was organized in collaboration with **St. Pious X Degree and PG College, Hyderabad**. The resource person was Dr. Shincy Joseph, Nirmala College for Women, Coimbatore. A total of 100 students participated in the webinar





State level Seminar:

The untapped assets of Nature 06-12-2022

The seminar was organized under the Biodiversity Awareness & Extension programme of **Kerala State Biodiversity Board (KSBB)**. Resource person was Mr. Sajeevan Kavumkara, Recipient of Plant genome conservation award.











IPR WEBINAR SERIES BY STUDENTS

- Introduction to IPR (02/12/2022) Amitha P (3 sem MSc)
- Patents (03/12/2022) Amitha PP (3 sem MSc)
- Copyrights (04/12/2022) Anusha KS (3 sem MSc)
- Trademarks (05/12/2022) AparnaSudarsan (3 sem MSc)
- Geographical Indications (06/12/2022) Ashlin Rose Wilson (3 sem MSc)
- Protection of Traditional Knowledge (07/12/2022) Aswana C (3 sem MSc)
- Protection of Plant Varieties (08/12/2022) Midhuna A (3 sem MSc)
- Biotechnology and Intellectual Property Rights (09/12/2022) Mufeedath(3 sem MSc)

RESEARCH METHODOLOGY WEBINAR SERIES BY STUDENTS

- Collection of scientific literature (11/12/2022) Akhila VP (3 sem MSc)
- Structure and components of research papers (12/12/2022) Amitha P (3 sem MSc)
- Scientific conduct & ethics (13/12/2022) Sneha K (3 sem MSc)
- Authorship issues. (14/12/2022) Sandra KK (3 sem MSc)
- Preparation of scientific posters (15/12/2022) Sandra KG (3 sem MSc)
- Citation and acknowledgement (15/12/2022) Nanda SK (3 sem MSc)

RESEARCH SCHOLARS

Fathima Rafieah NT- Topic: In vitro conservation and molecular diversity analysis of a few Vanilla species (Full time, UGC-NFOBC) Research Guide: Dr. Minoo Divakaran

Abidha EK- Topic: Morphological, Biochemical and Molecular Diversity Analysis in important species of *Curcuma* L (Full time, CSIR-JRF) Research Guide: **Dr. Minoo Divakaran**

Dipija AP – Phytochemical, molecular and in silico profiling of selected species of *Sida* L (Malvaceae) (Full time) Research Guide: **Dr. Deena Meria Jose**

AWARDS/RECOGNITIONS



Appreciation for participating in the Azhaku Project of Kozhikode Municipal Corporation



Appreciation for participating in the Green Campus initiative of Govt. HSS Medical college Campus



Appreciation for identifying and labelling the campus trees of Govt. HSS Medical college Campus

ATTENDING SEMINARS/WORKSHOPS/TRAINING PROGRAMS ORGANISED BY OTHER INSTITUTIONS



FACULTY

IPR Awareness webinar BAUDDHIK 3.0 organized by **Patent Office**, Department for Promotion of Industry and Internal Trade under the **National Intellectual Property Awareness Mission** on 21-12-2022 (Dr.Deena MJ, Dr. Minoo D)

Five Day international Seminar on Modern Perspectives in Biological Sciences organized by **Govt. Victoria college Palakkad** (28-02-2023 to 06-03-2023)(Dr. Deena MJ, Dr. Minoo D, Dr. Veena)

Two days National Workshop on Algal Biology organized by the Post Graduate & Research Department of Botany, **Catholicate College, Pathanamthitta** in association with DoECC from 27-28 September, 2022 (Dr. Archana ER)

Two days NAAC sponsored National Seminar on Implementation of NEP in Higher Education Institutions organized by the IQAC **St. Teresa's College (Autonomous), Ernakulam** from 17th and 18th January 2023. (Dr. Savitha Rabeque C)

institutional training programme on learning management system (Moodle) organized by **Kerala State Higher Education Council** 6 - 10 March 2023.

(Dr.Deena MJ, Dr. Minoo D, Dr. Veena V, Dr. Archana ER, Sr. Pilty PA, Dr. Savitha RC & Dr. Sharanya B JP)

institutional training programme on learning management system (Moodle) organized by **Kerala State Higher Education Council** 6 - 10 March 2023. (Dr.Deena MJ, Dr. Minoo D, Dr. Veena V, Dr. Archana ER, Sr. Pilty PA, Dr. Savitha RC & Dr. Sharanya B JP)

Training on Barcode availed CV Camp organized by **University of Calicut** on 27/03/2023 (Dr. Deena MJ)

Training for Biodiversity Club Coordinators of Kozhikode district organized by **Kerala State Biodiversity Board** on 13/12/2022 (Sr. pilty Peter A)

STUDENTS

Workshop Traditional wisdom and modern practices for Biodiversity Conservation organized by **Kerala Forest Research Institute Sub Centre Nilambur** on 04-03-2023. (PG students)

EK Janaki Ammal memorial lecture - a prelude to 35th Kerala Science Congress organised by **KSCSTE**Malabar Botanical Garden and Institute for Plant

Sciences on 03-02-2023 (PG students)

Experiential Learning Workshop on development of onsite detection kits for viruses and oomycetes infecting black pepper organized by **Indian Institute of Spices Research,** Kozhikode on 08-12-2022 (PG students)

Seminar- it's time for wetland restoration organized by **KSCSTE Centre for Water Resources Development and Management**, Kozhikode on 02-02-2023, as a part of observing Word Wetland Day 2023.

IPR Awareness webinar BAUDDHIK 3.0 organized by **Patent Office**, Department for Promotion of Industry and Internal Trade under the National Intellectual Property Awareness Mission on 21-12-2022 (UG and PG students)



Under Graduate Level

- Isolation and identification of probiotic bacteria from fresh chilli
- Isolation, screening and molecular characterization of leaf blight disease causing bacterial strain from Mangifera indica.
- Phytochemical analysis and antimicrobial study of some selected medicinal plants
- Isolation, screening and molecular characterization of plant growth promoting bacteria from rhizosphere soil of Amaranthus viridis

Post Graduate Level

- Evaluation of Eryptosis induced by Silver nanoparticles synthesized biogenically using Epiphyllum extract
- Comparative assessment of Air Pollution
 Tolerance Index (APTI) of selected plants from
 two different locations in Kerala
- Evaluation of Cytotoxic effect of silver nanoparticles synthesized by Mikania sp. extract
- Larvicidal property of biogenically synthesized Silver nanoparticles using Cycas extract

- Phytochemical and antioxidant activity of leaf and seed extracts of White Turi (Sesbania grandiflora (L.) Pers.)
- Allelopathic effects of aqueous leaf extract of Azadiracta indica L. Juss., Lantana camara L. and Amaranthus retroflexus L. on Vigna Mungo (L.) Hepper and Vigna radiata (L.) R. Wilczek.
- Phytochemical and antioxidant activity of Tinospora sinensis (Lour) Merr.
- Evaluation of total polyphenol and flavanoid content in the ayurvedic formulation Nalpamaram.
- Determination of total polyphenol and flavanoid content in Dasapushpam, a group of culturally and medicinally significant herbs.
- Determination of total polyphenol and flavanoid content in Dasapushpam, a group of culturally and medicinally significant herbs.
- Effect of automobile pollution and assessment of Air Pollution Tolerance Index (APTI) in herbs
- Assessment of the phytoremediation potential of *Alternanthera philoxeroides* towards heavy metals with a note on physiological and anatomical parameters at Maghunithode, Kozhikode
- Assessment of Air Pollution Tolerance Index (APTI) in urban roadside trees

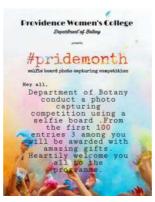
COMPETITIONS ORGANISED



Photo capturing competition

using a selfie board in connection with Pride month (29 06-2023)





Logo designing competition

for Biodiversity Club. The logo was released by Dr KP Manju KSBB Dist.

Coordinator

Poster making competition on the topic the 'life of Mendel and his discoveries' -on the occasion of the **200th birthday of Gregor John Mendel**, the Father of Genetics (22 July 2022).





Various competitions like **drawing, painting, poster making** etc. were organized for students of Varadur LP School Kannadikkal, Kozhikode during the occasion of Ozone Day to create awareness among the necessity of ozone layer protection among the young generations.











Dr. Jija Mathew memorial intercollegiate Quiz competition was organized on 27-03-2023. The theme of the competition was Biodiversity- Threats and conservation







FACULTY IN VARIOUS ROLES OUTSIDE THE CAMPUS



Delivering Talks

Dr. Minoo Dvakaran - Inaugural address 'Science for the peaceful tomorrow', at the National Science Day 'Candle', at Govt UPS Mutheri, Kozhikode, on 28.02.23



Dr. Minoo Dvakaran -Talk on 'The Transition - Student Induction Programme' Deeksharambh, 13 Sept 2022, at SAFI Institute of Advanced Study, Malapuram, Kerala,



Dr. Minoo Dvakaran - Talk on Nature Positive Initiatives at the Youth and Education Alliance Global Summit, organized by the University of Oxford and UNEP, 5 July 2022.



Judge for paper presentations

Dr. Minoo Dvakaran - Judge to the Paper presentation session at the International Conference cum Workshop 'Physiological and Molecular Mechanisms /Markers for abiotic stress tolerance in plants, University of Calicut, 27 Oct, 2022

Board Members in Universities and other institutions

Dr. Deena Meria Jose - Chairperson Board of Examiners MSc Botany 1&2 semesters (North Zone) University of Calicut

Dr. Minoo Dvakaran - Chairperson Board of Examiners MSc Botany 3&4 semesters (North Zone) University of Calicut

Dr. Deena Meria Jose & Sr. Pilty Peter A - Chairperson Member respectively of Board of Question paper setters, Kannur University

Dr. Deena Meria Jose - Chairperson Board of Examiners BVoc Organic farming, University of Calicut

Dr. Deena Meria Jose - Member of Board of Studies (UG
& PG Botany) St. Joseph's College Devagiri (Autonomous) Kozhikode

Dr. Minoo Divakaran- Member of the Interview Board, as External Expert for selection of Project Assistants at KSCSTF-MBGIPS 10 Dec 2022

Quiz Master

Dr. Minoo Dvakaran - Quiz master at the All Kerala Botany Quiz Competition for the Prof BK Nayar Endowment Award, 17 Jan 2023, Dept of Botany, University of Calicut, Kerala



Radio Talk

Dr. Veena V - delivered a talk in All India Radio on the occasion of World Forestry Day 2023



3 GOOD HEALTH AND WELL-BEING Healthy Mind & Body

Transferring subject knowledge to the benefit of the society

An exhibition 'Sanjeevani' of ecosystems, biodiversity, medicinal plants and applied aspects of Plant Science was organized on 1-2 Nov 2022









Established a medicinal plant garden at Govt. High School, Medical College Campus, Kozhikode during the month of October - November 2022. The beautification of the ornamental plants garden also was done along with this.



















A seminar on underutilized leafy vegetable plants was organized on 6th December 2022, for women in the neighbourhood. Planting materials of the leafy vegetable crops were distributed. 18 women from the neighbouring places attended the programme.





An awareness program on the significance of ozone layer was organized for students of Govt. LP School Varathur on 16th September 2022.







Transferring subject knowledge to the benefit of the society

Agrigram, a green initiative in collaboration with KITES INDIA Foundation was launched on 23-02-2023.





Officials of Kites Foundation handing over the seed packets to students

A vegetable graden was set up by the 4sem and 2 sem UG students as a part of the Agigram initiative.











Seed distribution to students of Providence Women's College



Staff members of PWC

Seed distribution @ other institutions

Nearly 800 packets of Vegetable seeds were distributed to the students and teachers of a few neighbouring institutions



Govt. LPS Malaparamba



Christuraja ALP School Malaparamba



Residents Association Kannadikkal



Gampaign 3
Agri
Gram
THEREFT OF BOTANY



GUPS Civil Station Kozhikode



Govt LP School Chevayur



Providence College of Teacher Ed.



Camp office of DIG & Commissioner of Police



AC Provincial House



Cholapurath AUP S Paroppadi



Govt. HSS Medical College Campus

Transferring subject knowledge to the benefit of the society



Provip-QR Providence Retrieval of Valuable Information on plants using Quick Response Code



An initiative under Know Your Tree campaign was launched on the occasion of World Environment day 2022. The programme was aimed at labelling the trees and shrubs in the campus with Boards carrying

scientific name, common names in English and Malayalam and the family name. The boards also carry a QR code which is linked to authentic worldwide databases. The programme was launced by Ms. Bindu Amat (HoD of English) on 5th June 2022. All the trees and shrubs were identified and labelled with the involvement of UG and PG students.







Ext Provip-QR Extension of Provip-QR to other Institutions

All the trees and shrubs in the campus of **Govt High School, Medical College Campus Kozhikode** was identified and labelled under the 'Know Your Tree Campaign'. The initiative was launched in collaboration with Nature Club of the school.













Discharging Social Responsibilities

Participating in Unnat Bharat Abhiyan















Sharing the sense of responsible citizenship by by conducting the Harithamithram Survey, thus being a part in the major project **Azhak** of Kozhikode Municipal Corporation - a mass initiative for zero waste, uplifting happiness index and attitudinal change in waste management of Kozhikode. This activity was taken up under the UBA scheme of MoE, Govt of India, an initiative to accelerate sustainable growth of rural India













Participated in the wall painting as a part of beautification of Kozhikode beach by District **Tourism Promotion Council**





Participated in an experiential learning workshop on the development of on site detection kits for viruses and oomycetes infecting black pepper on 08/12/2022





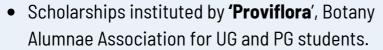
STUDENT SUPPORT PROGRAMMES

PRIZES AND SCHOLARSHIPS FOUNDED BY FACULTY

- Mr. Sivaramakrishnan Memorial cash Prize instituted by Ms. Akhila for the UG topper.
- Ms. T.C. Mary prize for the topper in the UG Physiology paper.
- Prize for Co-curricular activities of nature club.
- **Dr. M. Shylaja prize** for commendable services in the department.
- Prof. TV. Kamalam, Prof. Elizabeth Joseph and Prof. Rosamma Joseph Prize for outgoing UG students.
- Ms. T. Umadevi scholarship for outgoing UG students

- Mrs. Santha Divakaran Memorial cash prize instituted by by Dr. Minoo Divakaran for the topper in UG Biotechnology.
- Smt. Thressiamma Devasia memorial prrize instituted by Dr. Deena for the topper MSc Plant Physiology
- **Dr. Jija Mathew memorial prize** for the topper in PG Cell biology paper

PROVIFLORA SCHOLARSHIPS & OTHER SUPPORT PROGRAMMES



- Scholarship instituted by 'Proviflora' for a deserving student pursuing higher studies in Botany.
- Mrs.T.V.Kamalam Prize for earnest endeavor in every field founded by students of 1991-92.
- Anupama Memorial Endowment Scholarship instituted by the Botany students 2004-`07
 batch for a deserving meritorious student of the Department of Botany.

An initiative of of donating books and other study materials by the passed out students to the College library



STUDENT WELFARE FUND

- Support for study tour, field trip etc.
- Support for procuring study materials, records and other stationary items etc.
- Support for project work



SKILL DEVELOPMENT PROGRAMMES

23-06-2022

Conducted a workshop on **Photoshop** for post graduate students and research scholars

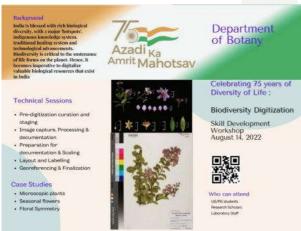








21-06-2022
Training on Yoga
for UG and PG
students



14-08-2022

Skill Development workshop-Biodiversity Digitization- for UG & PG students, Research scholars and Laboratory staff, as a part of Azadi ka Amrit Mahotsav

CAREER GUIDANCE PROGRAMMES

23-06-2022

Orientation for JAM in collaboration with Alchemi for final year students

16-12-2022

Orientation for pursuit of higher studies and career in foreign universities by Mrs.Farhana Muhammadali KV, Research Scientist at FUJIFILM Diosynth Biotechnologies, UK





Placements abroad

Farhana Muhammadali KV Research Scientist FUJIFILM Diosynth Biotechnologies, UK



Ranimol Community Centre Ranford Essex UK



Anaswara R&D Specialist at Bayer Crop Sciences USA

Placements- Central Gov. sector

Placements- State Gov. sector



Dr Arathimol A Project Scientist **CMLRE** (Ministry of Earth Sciences) Cochin

Pursuing higher Studies in Foreign Universities



Sruthi P Research Scholar IRTA Spain



Ann Elizabeth Joseph Master of Food Technology Univertsity of Auckland, University of Coln, Germany New Zealand



Oshin P Joseph Master in Biology



Deepika Deepak MSc Food Tech & Biotechnology. Teeside University. UK



Megha Das Sruthi Bharathan Scientific Offcers Forensic Science Lab, Kerala Police Service Plantation Corporation



Aniitha Thomas Field Assistant

Project Fellows



CWRDM Kozhikode



Aiswarya Sreenivas MRGIPS Kozhikode



MBGIPS Kozhikode



Niverya R Kozhikode



IFGTB Coimbatore

Assistant Professors on contract



Saranya babu Jayapraksh Guest Lecturer



Alphy Sunny Guest Lecturer Nirmalagiri College



Vinjusha N Guest Lecturer SN College Vatakara

Teachers in Sate Govt. Schools



Ruvyda Guest Lecturer SN College Vatakara

Pursuing Research



Sruthi N Kumar



Geomol KK University



Archana \ Mysore



Haritha PK CFTRI Mysore



Sruthi Bharathan DBT RGCB



Theertha AP ICAR IISR



ICAR IISR



Athulya MBGIPS



Jaseela VP MBGIPS



HSA GVHSS



Athulya KC



Amrutha Sasikumar GHS



Kozhikode



Navya CP SJC Devagiri



Aparna SJC Devagiri



Naseeha CP



Fathima Rafieah NT PWC



Dipija AP PWC



Ayana KK UC College



SVCGHS Placements - Private sector



Aiswarya

Biology SNG Chelann



Meghna



Spring Valley School





Keerthana Das Shyni MP Neema Scaria Anu Shaju Green Hills Ideal Way
Public School Ed Inst Dubai

Pursuing Masters Degree in National Universities



University





University

University



University

Sreelakshmi P Souparnika C









PWC

Akshaya N

Fathima Safa

Kavva

Nidha Fathima V

Rafeeda OM Anaswara Biology Biology SNG Chelannur SNG Chelannur

College Trichi

Gayathri P Fathima Luthfa Sneha Sherin KF

Botany Botany St.Xavier's SJC Devagiri

ACHIEVEMENTS OF STUDENTS

HAFEEFA SHIRIN 3rd Sem BSc Gold Medal National Cycle Polo Championship



















2nd place - Campus Jockey contest conducted by Club FM











II Prize JINFA NAHVIN PG & SHYAMA K (2 Sem MSc)

III Prize ADITHYA & ANAMIKA P BABU (4 Sem BSc)

Dr. Jija Mathew memorial Intercollegiate Quiz Competition

ACHIEVEMENTS OF ALUMNAE



SRUTHI N KUMAR School of Bioscience MG University **Best Poster Award Kerala Science Congress** 2023



THEERTHA MD **CUBE Intern HBCSCE Mumbai Obtained CUBE Kishore Bharati Grant 2022** Presented a paper in the 4th **Conference of Indian Society of Evolutionary Biologists**



ASWATHIP Cell & Molecular Biology Div. Dept. of Botany **University of Calicut** Successfully completed PhD



GEOMOL KK Research Scholar Dept. of Botany University of Calicut **Qualified GATE**

STUDENT AMBASSADORS OF NATURE POSITIVE UNIVERSITIES ALLIANCE

A collaborative initiative of University of Oxford

Activities

- Food event: Youth engagement in Green Cities 20 Oct 12-14 CEST
- COP15 workshops / developing Student Toolkit
- NPU January Student Ambassadors' meeting (Tue 31st)
- Nature Positive lecture (Fri 27th)
- Nature Positive and Sustainable food systems lectures
- Interdisciplinary Conservation Network 2023
- · Student Ambassadors March meeting: Plastics and zero waste
- International day of Forests Zoom event (YOUNGO)
- Nature Positive Ambassadors Meeting
- Ecological restoration and rewilding our campuses







FACULTY DEVELOPMENT PROGRAMMES ATTENDED



- **Dr. Deena Meria Jose**: One-week Faculty Development Programme in 'Crossdisciplinarity in Research' organized by the Faculty Development Centre of the Kerala State Higher Education Councilfrom 19/01/2023 to 24/01/2023.
- **Dr. Minoo Divakaran**: One-week Faculty Development Programme in 'Crossdisciplinarity in Research' organized by the Faculty Development Centre of the Kerala State Higher Education Council from 19/01/2023 to 24/01/2023.
- **Sr. Pilty Peter A**: Refresher Course in E*nvironmental Science* (Multidisciplinary) conducted by the UGC Human Resource Development Center, University of Calicut from 13/07/2022 to 26/07/2022
- **Dr. Veena V**: One Week National Level Online Faculty Development Program on *Outcome Based Education* (OBE) organized by the IQAC of JPM Arts and Science College, Kanchiyar, Idukki in association with IPSR Solutions limited, Kottayam from 16/02/2023 to 22/02/2023.
- **Dr. Archana E R**: One Week National Level Online Faculty Development Program on *Outcome Based Education* (OBE) organized by the IQAC of JPM Arts and Science College, Kanchiyar, Idukki in association with IPSR Solutions limited, Kottayam from 16/02/2023 to 22/02/2023.
- **Dr. Savitha Rabaque C**: *Faculty Induction Program* conducted by UGC-Human Resource Development Centre, from 16 /11/2022 to 15/12/2022.

DAYS OBSERVED

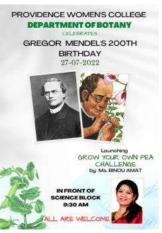
















World Environment Day 05-06-2022

On the occasion of WED 2022, saplings were planted on the campus. The tree planting drive was inaugurated by Mrs. Bindu Amat, HoD of English. Saplings grown in ecofriendly coir bags were used for planting. Students' activity in connection with the UN Decade of ecosystem restoration was uploaded on the webpage of Nature Positive Universities, a collaborative initiative of University of Oxford

Vanamahotsav 07-07-2022

The annual tree planting festival was observed over a period of week starting from 1st to 7th July 2022 by distributing and planting saplings.

Bicentennial of Gregor Johann Mendel's birth 22-07-2022

Bicentennial of Gregor Johan Mendel, the Father of Genetics was observed on 22 July 2023. Various programmes like poster making competition, presentation on the life of Mendel etc. was organized. A 'Grow your pea' Challenge was launched during the occasion

World Mangrove Day 26-07-2022

World Mangrove Day was observed on 26 July 2022 by organizing an awareness programme on the conservation of mangroves at the Sarovaram Biopark, Kozhikode

















DAYS OBSERVED

World Ozone Day 26-07-2022

September 2022 by organizing an awareness programme at Varathur LP School Kannadikal, Kozhikode.
Significance of the ozone layer and the harmful effects of ozone depletion was discussed. A few

competitions also were conducted

World Ozone day was observed on 16

World Wetland Day 02-02-2023

World Wetland Day was observed by conducting a nature walk to Punchavayal Wetland Kannadikkal to understand the ecosystem services of the wetlands

World Forestry Day 21-03-2023

World Forestry Day was observed during the Nature Camp at Vanaparvam Forest area held on 22-03-2023. Walking into the forests to understand the forest ecosystem was a memorable experience to the students

World Water Day 22-03- 2022

World Water Day was observed during the Nature Camp at Vanaparvam Forest area held on 22 -03-2023. Awareness session on conservation of water was conducted at the Engapuzha river bank

World Meteorological Day Day 23-03-2023

World Meteorological Day was observed by participating in a discussion organised by the Green Kerala Movement at Tali pond area, Kozhikode on 22-03-2023

BHOOMITHRASENA CLUB BMC Code: (BMC-055/KKD/05/09)

(Supported by Directorate of Environment and Climate Change, Govt. of Kerala)

FIC: Dr. Veena V

VISION To have environmental concern in education by undertaking awareness and action programmes for environmental protection

MISSION/OBJECTIVES

- ■To encourage college students appreciate environment and environmental issues of the locality
- To provide environmental education opportunities for college students and involve them in addressing environmental issues of the locality
- To utilize the enormous manpower available with college students as conduits for awareness of the society
- To make students practice & advocate sustainable life styles





Tree planting drive Vriksharoopan 22 in connection with World Environment Day 2022

Tree planting and distribution of saplings in connection with Vanamahotsav 2022.







World Ozone Day was celebrated by conduction awareness programme at Varathur LP School on 16th September 2022



Activities to inculcate environmental concern in education by undertaking awareness and action programmes to

Combat climate change

Conserve the forest wealth









Vrikshaaropan (वृक्षारोपण) at Providence Womens College, Kerala India

Launched on June 5th 2022, as part of the Inviorment Day, the Principal, Local Manager and students jained a tree—planting drive, additionally a new initiative was launched titled 'Providence Retrieval of Yaluable Information on Plants - using Quick Response codes,' whereby, name boards detailing each plant that was planted, equipped with QR codes, were installed to educote students and visitors about the importance of each plant. Eventually it is hoped to equip each plant an campus, with such boards.







Dr. Veena FIC Of Bhoomithrasena delivered a radio talk in AIR on the occasion of World Forestry Day

JALASREE CLUB SUPPORTED BY CCDU, WATER RESOURCES DEPARTMENT, GOVT OF KERALA

VISION To ensure safe potable water for all

MISSION/OBJECTIVES

- To proclaim the college as 'Water Sanitation and Information Centre' under CCDU
- To generate a sensitive and responsible attitude towards water among people through constant professional endeavors with diverse intervention strategies, which demands different devices, advanced technologies, improved designs and skills.
- To build a behavioral change among society which results in the reduction of loss of water, control and prevent contamination and enhance water quantity, enrich water quality and assure water prosperity in a sustainable manner



World Wetland Day 2 Feb 2023.



FIC: Dr. Archana ER

As a part of observing World Wetland Day, students visited Punchavayal wetland Kannadikkal on 7th feb 2023, to experience the significance of wetland ecosystems. Diversity of wetland flora and fauna and the ecological roles played by the wetland in maintaining the ecosystem balance in the area was noted.



As a part of observing World Wetland Day, students visited CWRDM and attended a seminarits time for wetland restoration on 2 Feb 2023. They also visited the water heritage museum at CWRDM

4th sem PG students attended a meeting organized by River Protection Council Kerala to discuss on conservation and sustainable use of water.





As a part of observing World Water Day 2 sem PG students visited Vanaparvam Biodiversity Park on 22-03-2023. A session on conservation and sustainable use of water was organized by Kerala Forest Department

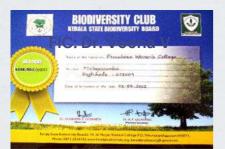




BIODIVERSITY CLUB

Supported by Kerala State Biodiversity Board

Reg. No. KSBB/BC/07, BDC Code: KSBB/BDC/11001



VISION

FIC: Sr. Pilty Peter A

To conserve and enhance local biodiversity

MISSION/OBJECTIVES

- To assess the local biodiversity
- To conduct awareness programmes on environment and biodiversity conservation



Dr. Manju KP, KSBB District Coordinator visited the Department to evaluate the activities of the Club



Kozhikode, Kerala, India

Harvesting mango ginger and arrow root from the vegetable garden

like Santhisthal (for Endemic fruit trees, Star plants garden, medicinal plant garden, Vanilla gene bank, Aloe gene bank etc.

Marinating plant repositories

Campus exploration as a part of updating Campus **Biodiversity Register.** Plants were recorded and photographed





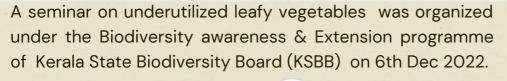




Establishment of Musa gene bank in the campus. Plantlings of 100 varieties of Banana were planted



Biodiversity Exhibition for students from neighbouring schools









Prize winning logo of the Logo designing competition

NATURE CLUB

VISION
MISSION/OBJECTIVES

Protection of Our Environment

To inculcate a deep love and understanding for our natural environment in today's young women.

Go traditional, local and natural

An initiative to spread awareness among young generations about the nutritive value and health benefits of pulses based natural diets and traditional and local fruits.



'Grow your pea' Challenge



Planting Pappayas



Welcoming freshers with a sapling

Back to those good old days



Onam celebration with flower carpet



Nutritional significance and health benefits of Onasadya were discussed. The source plants of the ingredients and their taxonomic information also were collected

I love Nature as much as I love Myself ***

Nature Camp

A nature Camp was organised in collaboration with Kerala Forest Department, Kozhikode Division on 22 March 2023 as a part of observing World Forestry Day and World Water Day. The camp was held at Vanaparvam Biodiversity Centre, Engapuzha. As a part of the camp, forest exploration and classes on the significance of forests were organized. Mr. Suresh, Section Forest Officer was the resource person.





Established a garden of traditional and local leafy vegetable plants



Nature Camp at Vanaparvam Biodiversity Park

BEST PRACTICES

reen initiatives under various clubs supported by Govt agencies

- Mechanisms to reduce waste
- Involving in waste management activities of the Kozhikode Municipal Corporation
- Saying no to plastics
- Planting trees
- Promoting biofertilizers and biopesticides
- Awareness programs to combat climate change
- Activities for conserving biodiversity
- Activities for conserving water
- Promoting healthy natural diet
- Ensuring good health and well being promoting vegetable gardens

Students' activity in connection with the UN Decade of ecosystem restoration being uploaded on the webpage of Nature Positive Universities, a collaborative initiative of University of Oxford









Pursuing THE GLOBAL GOALS



- Clean City Campaign- Participated in the Azhaku Project of Kozhikode Municipal Corporation.
- Agrigram Campaign- initiative to establish home kitchen gardens
- Healthy mind and body campaign- Skill training in Yoga
- Promoting the use of underutilized leafy vegetable crops
- Certificate course in Mushroom culture Technology
- · Certificate course in Biofertilizer technology
- Cu Tab as post covid immunity booster
- Marinating Santhisthal- a repository of endemic fruit trees
- · Maintaining a medicinal plants garden on the campus
- Establishing medicinal plants garden in other institutions
- Azolla Restoration Technology
- Learning the development of on site detection kits for viruses and oomycetes infecting black pepper



- Observing World Wetland Day
- Observing World Water Day
- Water Literacy programmes
- Awareness programmes on water sanitation and water conservation



15 LIFE ON LAND

- Save the planet Campaign- Observing World Ozone Day
- Awareness programmes on the significance of Ozone layer
- Observed meteorological Day
- Seminar on stress management in plants
- Know your tree campaign- Provip-QR: Enhancing awareness on plants by keeping name boards with QR code
- Jaljeevan- an initiative to conserve aquatic medicinal plants
- Conserving plants by establishing plant repositories like Star plants garden, Musa gene bank, Vanilla bene bank, Tulsi gene bank, Aloe gene bank etc.
- Observing Vanamahotsav- tree planting campaign
- Observing World forestry Day- Nature camp to understand the importance of forests
- Observed World Mangrove day- awareness programmes on conservation of mangroves.
- Certificate course in Leafy vegetable cultivation
- Maintaining campus Biodiversity Register
- Quiz programmes

