



INNOVATIVE ECOSYSTEM FACILITATED IN THE INSTITUTION FOR TEACHING-LEARNING, EVALUATION AND RESEARCH

INNOVATION AND INCUBATION CENTRE 2021-2024

The Innovation and Incubation Centre at KAHM Unity Women's College, Manjeri, is an innovative initiative established under the aegis of the Internal Quality Assurance Cell (IQAC). This centre aims to foster a culture of entrepreneurship, creativity, and innovation among students, faculty, and other stakeholders of the institution including the nearby community. The mission of the centre is to nurture innovative ideas, provide resources and support, and accelerate the growth of start-ups, promoting economic and social development in the region.

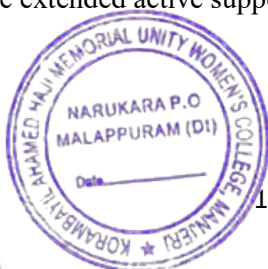
The Centre

- Encourage students and faculty to develop innovative ideas and solutions
- Provide infrastructure, mentorship, and funding support to start-ups
- Foster industry-academia collaboration and knowledge sharing
- Promote entrepreneurship, self-employment, and job creation
- Address social and economic challenges through innovative solutions
- Ensures mentorship from experienced professionals and industry experts
- Funding opportunities through grants, seed funding, and investor connections

The innovation and incubation centres at college developed

- UniPhy LED Bulbs,
- Organic Soaps
- Sanitizers
- Detergents
- Paper Pens
- Paper Bags
- Cleansing Agents
- Hand Wash,
- Toilet Cleaner,
- Mush Rooms
- Micro greens

The Incubation centre extended active support to sell the products developed by the centres.



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The following Departments in the college have been running the Innovation and Incubation Centres quite successfully

- Innovation and Incubation Centre, PG Department of Home Science
- Innovation and Incubation Centre, PG Department of Chemistry
- Innovation and Incubation Centre, PG Department of Botany.

Innovation and Incubation Centre, PG Department of Home Science

The Innovation and Incubation Centre of the PG Department of Home Science fosters entrepreneurial behaviour of ideating, creating and commercializing the ventures aligned to the core themes of the incubation centre. The core themes include food product development, textiles, fashion designing and waste upcycling. It provides a platform for start-ups by students, faculty and emerging women entrepreneurs in the society. It is a hub to transform small ideas into enterprises that favours economic upliftment and empowerment of women. It also provides opportunities to students to display their products developed as part of their project work. Home Science Innovation and Incubation Center was inaugurated on 27 February 2023 by Dr. C Saidalavi, Former Principal, KAHM Unity Women's College, Manjeri. He motivated the students to come up with innovative ideas and to start a venture in the campus through his inspiring words. Principal Dr. Muhammed Basheer Ummathur and Manager Jb O Abdul Ali felicitated the programme. The faculty coordinator of this event was Mrs. AS Anitha Begum, Head of the department of Home Science.



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**PG DEPARTMENT OF HOME SCIENCE
 KAHM UNITY WOMEN'S COLLEGE,
 MANJERI**



Inauguration of
**HOME SCIENCE
 INCUBATION CENTRE**



MONDAY 27
 FEBRUARY 2023



2.00 PM

Faculty Coordinator :
Mrs. A.S. Anitha Begum
 (Head & Associate Professor,
 PG Dept. of Home Science)

Student Coordinator :
Mrs. Hasna Abdul Salam
 (IV Sem MSc Home Science -
 Nutrition & Dietetics)



ALL ARE WELCOME!

DR. C. SAIDALAVI
 Former Principal
 KAHM Unity Women's College, Manjeri



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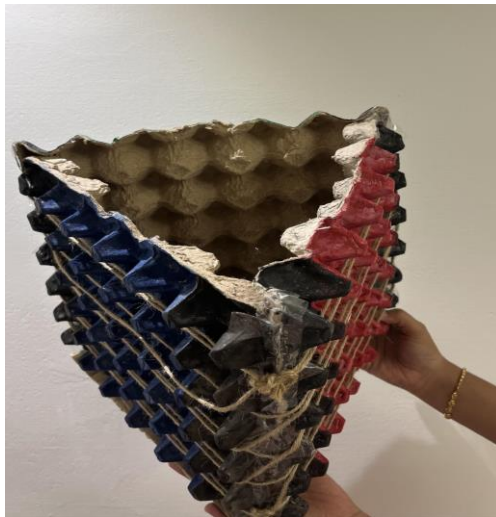
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A project was undertaken by the students of V Semester BSc FCS under this centre with the aim to promote sustainability and environmental awareness by transforming waste and worn-out materials into valuable products. Different eco-friendly products have been developed using various natural and recycled materials. The development of these eco-friendly products demonstrates the potential of using natural and recycled materials to create functional and aesthetically pleasing items. By repurposing dried banana leaves, corn husks, paper egg trays, and old T-shirts, these innovations contribute to waste reduction and environmental sustainability. These innovations not only showcase creativity and resourcefulness but also contribute to environmental conservation.

EGG TRAY



Fruit Basket



Egg Carton Craft



Hanging Arrangement



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DRIED BANANA LEAF



Bag



Purse

OLD T SHIRTS



Pillow Cover

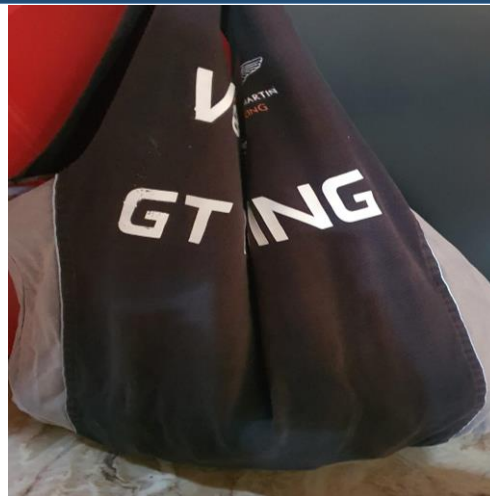


Necklace



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Shopping Bag

CORN HUSK



Flower



Table Mat



Flower Basket

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Innovation and Incubation Centre, PG Department of Chemistry

The inauguration of Innovation and Incubation Centre of the Department of Chemistry was led by former Principal of our college Prof. P N Abdurahiman on 23/11/2023 at 1.30 pm. He inaugurated the center, emphasizing the importance of fostering innovation within the department. Following the inauguration, Prof. (Dr). Muhammad Basheer Ummathur delivered principal's address highlighting the significance of such centers in promoting research, collaboration, and the practical application of scientific knowledge. Dr. K. Deepa extended the vote of thanks, expressing gratitude to all participants and emphasizing the collective effort required to drive innovation and incubation initiatives forward in the department. Co-ordinator of the Incubation centre Dr. Thasnim P, other faculty members and the students of the chemistry department were present in the occasion.




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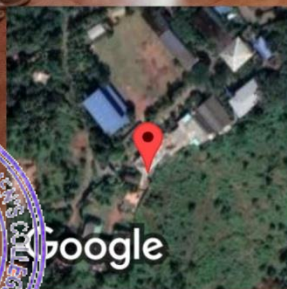
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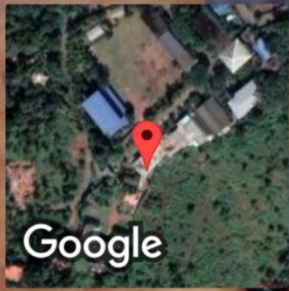


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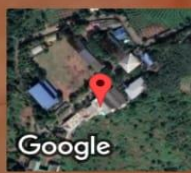
Activity 1- Preparation & marketing of cleaning agents



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The Innovation and Incubation Centre of the Chemistry Department launched a project on 10th November 2023 to produce cleaning agents tailored for the academic environment. Led by coordinator Dr. Thasnim, the initiative began with the in-house production of handwash, addressing campus cleanliness needs. Building on this success, the project expanded on 24th November with the production of additional essential cleaning products. These included soap oil, designed for various cleaning applications; a toilet cleaner, formulated to meet the hygiene standards of restroom facilities; and dish wash, intended for efficient utensil cleaning. This initiative highlights the department's practical approach to maintaining cleanliness within the institution.



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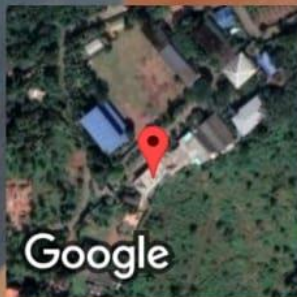
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Activity 2- Paper Bag making Phase 1




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The Innovation and Incubation Centre of the Department of Chemistry recently hosted a significant event, a "One Day Workshop on Paper Bag Making," held on November 28, 2023, in the G203 room. Spearheaded by Dr. Soumini, Assistant Professor, and facilitated by four adept students from the 3rd semester BSc Chemistry program at MES Keveeyem College Valancheri, the workshop aimed to educate participants on sustainable practices, particularly in the creation of eco-friendly alternatives. 5th sem BSc Chemistry and 3rd sem MSc Chemistry students were attended the workshop.

The workshop served as a platform to impart invaluable insights into sustainable living. Through hands-on experience in crafting paper bags, participants were equipped with practical skills and knowledge on reducing environmental impact. The workshop not only served as a skill-building exercise but also fostered a sense of environmental responsibility among attendees. By emphasizing the importance of eco-friendly alternatives and sustainable practices, the event instilled a deeper understanding of the urgent need for conservation efforts. Furthermore, the workshop encouraged participants to take an active role in contributing to a greener future. By engaging in discussions on environmental conservation and exploring practical solutions, attendees were inspired to implement eco-friendly practices in their daily lives.

Overall, the "One Day Workshop on Paper Bag Making" organized by the Innovation and Incubation Centre proved to be a resounding success. It not only provided participants with valuable skills but also motivated them to embrace sustainable living practices, thereby promoting a culture of environmental consciousness within the academic community and beyond.




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Activity 3- Paper Bag making phase II

The workshop on paper bag making was organized with the aim of educating untrained students about sustainable practices and providing them with practical skills in creating eco-friendly alternatives. The event was facilitated by trained students from the 3rd semester BSc Chemistry program.



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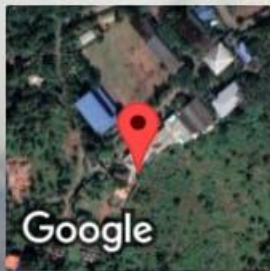
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Innovation and Incubation Centre, PG Department of Botany

The following initiatives were undertaken under the Innovation and Incubation Centre of PG Department of Botany.

Microgreen Cultivation Initiative

Microgreens are packed with nutrients including vitamin K & fibre, which help to manage high blood pressure and reduce the risk of heart attack. Since microgreens are easy to grow at home with minimal supplies, they can be a great source of daily nutritional requirements. On 26 September 2023, the PG Department of Botany launched an innovative initiative focused on microgreen cultivation as part of the "Earning While You Learn" program. This initiative aims to provide students with practical experience in sustainable agriculture while generating income to support their academic activities. The primary objectives of the microgreen cultivation project are to educate students about the cultivation of microgreens using various vegetable seeds, provide hands-on experience in agricultural practices and enable students to earn income that can be reinvested into their academic pursuits. It covers various agricultural practices such as seed selection, growing abiotic conditions, and harvesting and marketing strategies. The project has successfully combined education and entrepreneurship, empowering students to enhance their academic activities through practical learning and income generation. The department looks forward to expanding this initiative in the future.



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Vermicomposting

The project aims to provide students with practical knowledge of composting while promoting sustainable waste management practices. This initiative also serves as a means of producing high-quality organic manure for use in agriculture. The vermicomposting process involves several key steps which are actively carried out by students including vermibed preparation, substrate application, stocking of earthworms, worm feeding and vermicast harvesting. The compost produced through this process sells to neighbouring farmers and local gardeners. The income generated from these sales is used to support student's academic expenses and other departmental activities. The project not only addresses the issue of organic waste disposal but also contributes to soil fertility by producing nutrient-dense manure. The vermicomposting unit established by the department has proven to be a successful extension activity, combining education with sustainable practices. By managing organic waste and producing valuable compost, the students are gaining hands-on experience while contributing to the environment and supporting their academic endeavours. This initiative exemplifies the department's commitment to promoting eco-friendly solutions and creating opportunities for student development.



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Mushroom Cultivation Practices

The PG Department of Botany has introduced mushroom cultivation as an integral part of the student's curriculum. This initiative focuses on both extension and income-generating activities, offers students hands-on experience in sustainable agriculture and entrepreneurship. The mushroom cultivation practices involve several key steps, all of which are managed by the students including spawn collection, sterilization of substratum, bed preparation, incubation in cultivation room, harvesting and marketing. The project provides students with a real-world, income-generating experience while they pursue their studies. The revenue earned from the sale of mushrooms helps support academic expenses and departmental activities. In addition, students gain a deeper understanding of the nutritional value of mushrooms which are rich in proteins, vitamins and minerals, making them an important part of a healthy diet.



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Department of Physics

UniPhy LED Bulbs

Innovation and Incubation facility is activated in the Lab of Physics with the support of the Innovation and Incubation Centre of the College. It developed UniPhy LED Bulbs and distributed to the neighbourhood. Two workshops were conducted under the leadership of the faculty members of the department on 30 November 2022 and 21 February 2024 respectively. The first workshop was led by Mr. Muhammed Rafi (Head, Department of Physics, Majlis Arts and Science College, Valanchery) and thirty students were trained to assemble the components to LED bulbs. The second workshop was handled by Mr. Muhammed Abdul Hakkeem.C., Head, Department of physics and thirty students were trained to assemble the components to LED bulbs.




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DEPARTMENT OF PHYSICS & PHYSICS CLUB

In association with IQAC




LED WORKSHOP



Mr. Muhammed Rafi,
 (Head, Department of Physics, Majlis
 Arts and Science College, Valanchery)



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 **PHYSICS LAB**



Faculty Coordinator: Muhammed Abdul Hakkeem C

Student Coordinator: Rinsha K

(3rd semester BSc Chemistry)



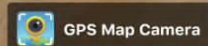
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DEPARTMENT OF PHYSICS
KAHM UNITY WOMEN'S COLLEGE



LED BULB ASSEMBLING WORKSHOP

Inauguration:

Prof. (Dr). Muhammed Basheer Ummathur

Resource Person :

Mr. Muhammed Abdul Hakkeem C

Coordinator:

Mr. Sabeer V

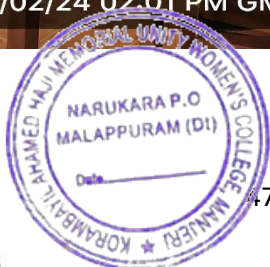
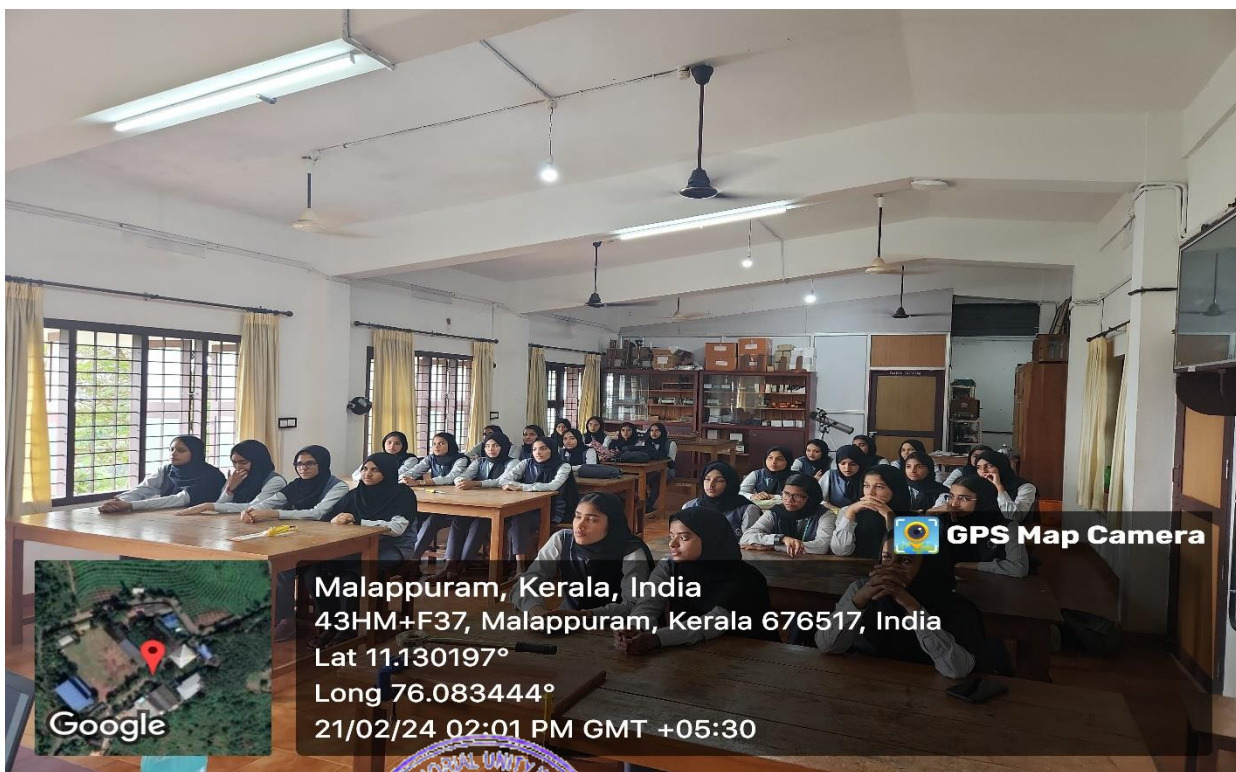
Student Coordinator:

Ms. Hana Fathima



21-02-2024
wednesday

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