

PG DEPARTMENT OF BIOCHEMISTRY

ANNUAL REPORT 2024 – 2025



MARKAZ ARTS AND SCIENCE COLLEGE

(Affiliated to the University of Calicut)

Markazu Tharbiyyathil Islamiyyah, Athavanadu, Near Valanchery

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ANNUAL REPORT 2024 - 2025

PG DEPARTMENT OF BIOCHEMISTRY

The Department of Biochemistry was established in 2003 with main subject General Biochemistry and subsidiary subjects Chemistry and Microbiology. The three year UG program involves about twenty papers of the core subject. The PG program in Biochemistry was established in 2016. The program outcome is to provide knowledge of Biochemistry in all life science areas such as genetics, physiology, pharmacology, toxicology and pathology. The main vision of the Department is to achieve academic excellence in Biochemistry facilitating research activities. The main mission of the Department is to provide a learning environment that helps the students to enhance problem solving skills, theoretical and practical foundation in various disciplines of Biochemistry and educating them about their professional and ethical responsibilities. Biochemistry is a laboratory based course and hence the PG Department of Biochemistry has got well equipped separate UG and PG laboratories with all the sophisticated instruments needed for the Curriculum prescribed by the Calicut University norms.

MILESTONES OF 2024 -2025 ACADEMIC YEAR

One of the significant milestones achieved by the college during the academic year 2024-2025 is securing the prestigious NAAC Accreditation with a coveted A grade in the first cycle itself. This outstanding achievement is a testament to the college's unwavering commitment to academic excellence, quality education and continuous improvement. The NAAC Accreditation reinforces our institutions reputation and opens up new opportunities for growth, collaboration and innovation, ultimately benefiting our students, faculty and the wider community.



Figure 1: NAAC A Grade Poster

MILESTONES OF 2024 -2025 ACADEMIC YEAR

The academic year 2024-2025 also witnessed a significant academic milestone for the PG Department of Biochemistry, as two of our faculty members (Seena P & Arifa PP) successfully completed their doctoral research and were awarded Ph.D. Degrees. This achievement not only demonstrates the faculty's dedication to academic pursuits and professional growth but also enhances the department's research capabilities and expertise. The PhD accomplishments of our faculty members will surely have a positive impact on the department's academic programs, research initiatives and student mentorship, further enriching the overall learning experience.

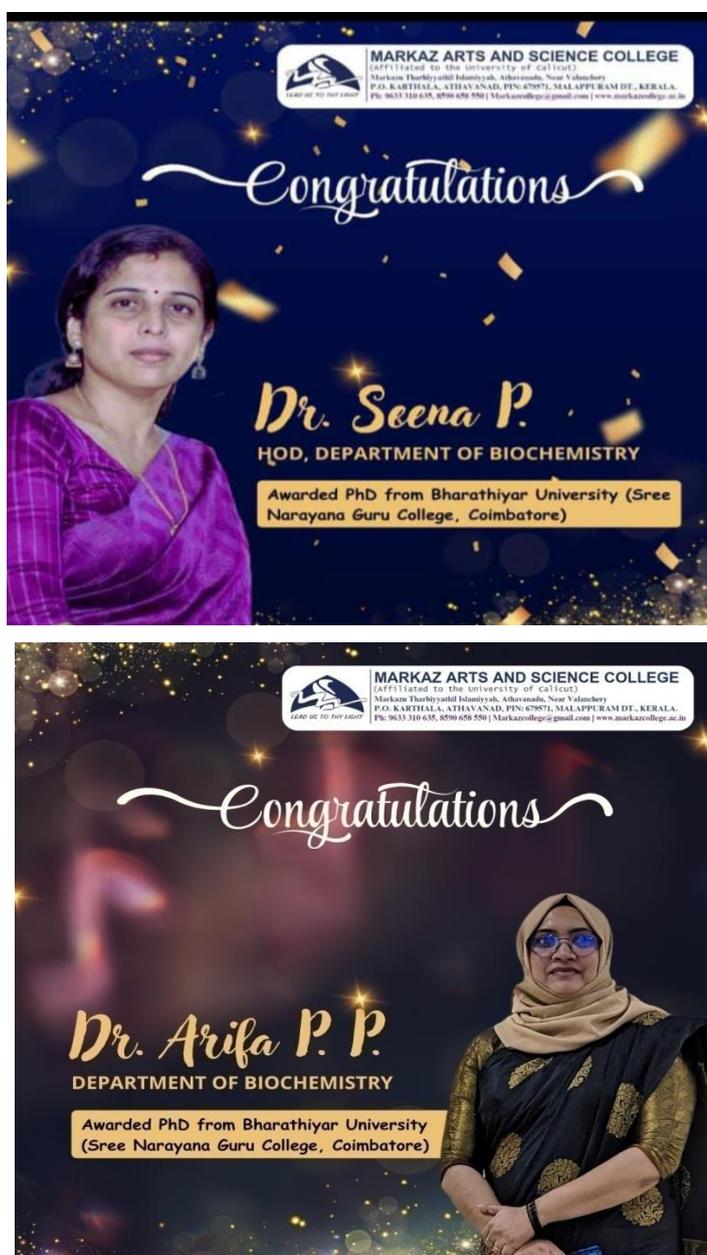


Figure 2: Congratulating poster of Ph.D. holders

The college reopened for the academic year 2024-2025 on 3rd June Monday.

STAFF AND STUDENTS

Biochemistry Department has 6 faculty members and 1 lab attender. Dr. Seena P was the Head of the Department. Other faculties were Dr.Arifa P.P., Jaseela K.P., Rincy CK., Maneesha Mohan and Fathimath Faseeha. Abitha PP was the Lab attender.

Dr.Arifa PP continued as Department Secretary for the academic year 2024-2025 also. Mrs. Jaseela K.P was the Department IQAC Coordinator for the academic year 2024-2025.

The department has 73 students on roll of which 46 are degree students, in which there were 6 boys and 40 girls and 27 are PG students (3 boys & 24 girls).

TOTAL NUMBER OF STUDENTS B.Sc. BIOCHEMISTRY DEGREE PROGRAMME 2024-2025

SL . NO	CLASS	NO: OF BOYS	NO. OF GIRLS	TOTAL STUDENTS
1	First Year	NIL	10	10
2	Second Year	2	17	19
3	Third Year	4	13	17

Table 1: Number of students in B.Sc. Programme 2024-25

TOTAL NUMBER OF STUDENTS M.Sc. BIOCHEMISTRY DEGREE PROGRAMME 2024-2026:

SL .NO,	CLASS	NUMBER OF BOYS	NUMBER OF GIRLS	TOTAL
1	First year	1	12	13
2	Second year	2	12	14

Table 2: List of students in PG during academic year 2024-2025

ADVISORY DETAILS

The details of advisors were as follows; Mis.Maneesha Mohan was assigned the advisory duty for first year B.Sc., Dr.Arifa PP was assigned the duty of advisor of second year B.Sc. and Mrs.Jaseela KP was the advisor of third year B.Sc. Mrs. Fathimath Faseeha & Dr. Seena P were the advisors of first and second year PG respectively.

LAST YEAR ACADEMIC RESULT

DEGREE

The number of candidates registered for the final year UG University examinations were 32. 32 students appeared for the examination and 26 passed for the examination with a pass percentage 81.25%.

POST GRADUATION

This academic year Department bagged seven ranks (first, third, fourth, fifth, seventh, eighth and ninth ranks) for PG examination under Calicut University.

In PG, 10 students appeared for final year University examination and 10 passed. The pass percentage was 100%. Rafni Pothangodan secured first position with CGPA 3.87 and overall grade A+. Farhath Farsana T secured third position with CGPA 3.72 and overall grade A. Thassrifa Sherin secured fourth position with CGPA 3.71 and overall grade A. Wafa CK secured fifth position with CGPA 3.64 and overall grade A. Ashfina K, Ershana Shery K and Saja K bagged seventh, eighth and ninth position with CGPA 3.53, 3.45 and 3.39 respectively.

**UNIVERSITY OF CALICUT
(Pareeksha Bhavan)**

No. 89755/PG-I-ASST-II/2022/PB

Calicut University.P.O
Date : 10.10.2024

**POSITION LIST (FINAL)
M.Sc. BIOCHEMISTRY (CBCSS) EXAMINATION (April/2024)**

Sl No.	Name & Reg. No	College/Centre	CGPA	Grade	Position
1.	MZAWMBC006 RAFNI POTHANGODAN	MARKAZ ARTS AND SCIENCE COLLEGE ATHAWANAD	3.87	A+	I
2.	PZAWMBC006 NANDHANA P S	PAZHASSI RAJA COLLEGE PULPALLY	3.76	A+	II
3.	MZAWMBC003 FARHATH FARSANA T	MARKAZ ARTS AND SCIENCE COLLEGE ATHAWANAD	3.72	A	III
4.	PZAWMBC004 JAHANA THASNEEM K P	PAZHASSI RAJA COLLEGE PULPALLY	3.72	A	III
5.	MZAWMBC009 THASRIFA SHERIN T	MARKAZ ARTS AND SCIENCE COLLEGE ATHAWANAD	3.71	A	IV
6.	PZAWMBC001 AMANA FATHIMA A	PAZHASSI RAJA COLLEGE PULPALLY	3.71	A	IV
7.	MZAWMBC010 WAFAC K	MARKAZ ARTS AND SCIENCE COLLEGE ATHAWANAD	3.64	A	V
8.	PZAWMBC002 ASWATHI T P	PAZHASSI RAJA COLLEGE PULPALLY	3.64	A	V
9.	PZAWMBC008 SAFEENA P	PAZHASSI RAJA COLLEGE PULPALLY	3.58	A	VI
10.	MZAWMBC001 ASHFINA K	MARKAZ ARTS AND SCIENCE COLLEGE ATHAWANAD	3.53	A	VII
11.	MZAWMBC002 ERSHANA SHERY K	MARKAZ ARTS AND SCIENCE COLLEGE ATHAWANAD	3.45	A	VIII
12.	MZAWMBC007 SAJA FATHIMA M	MARKAZ ARTS AND SCIENCE COLLEGE ATHAWANAD	3.39	A	IX
13.	PZAWMBC009 SAHLA SHERIN V K	PAZHASSI RAJA COLLEGE PULPALLY	3.34	A	X

** CGPA and grade are computed excluding improvement chance.
** Generated based on the consolidation done on 10.10.2024.

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14/10/24

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15/10/24



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10/10/2024
CONTROLLER OF EXAMINATIONS

Figure 3: PG Position list



Figure 4: PG Toppers Poster

Rafni Pothangodan, also received the University Topper recognition award from University of Calicut for the academic year 2024-25.



Figure 5: University Topper Award 2024



Figure 6: News from Newspaper

DETAILS OF WEBINARS/SEMINARS ATTENDED BY TEACHERS

- Arifa PP has participated in one day training programme “AI Masterclass: Tools for Thriving Career and Life” organized by the Centre for Management Development,

Thiruvananthapuram, as a part of the Training Series Level Up with Artificial Intelligence, on October 05, 2024.

- Dr. Seena P has participated in Principal's Conclave 2025 on "Fostering Holistic Education: Integrating Indian Knowledge System, Sustainable Development Goals and National Education Policy for a Sustainable Future" held on 9th January 2025, organized by Nehru Arts and Science College in association with Canny Consortium of Colleges.
- Dr. Seena P, has participated in Two day National Seminar on "Invasives and habitat loss- a threat to the biodiversity of Kerala" held on 16 & 17 January 2025, jointly organised by the National Institute of Plant Science Technology, Mahatma Gandhi University, Kottayam, Kerala and Kerala State Biodiversity Board.
- Maneesha Mohan has participated in the International Colloquium on "Sustainability in Action: Insights and Innovations Across Disciplines" jointly organized by Research & Development Cell and IQAC, Majlis Arts and Science College, Puramannur, Valanchery in collaboration with Kerala State Higher Education Council, from 17th – 21st February 2025.

DETAILS OF FDP /WORKSHOP ATTENDED BY FACULTIES

- **All the faculties of the Department successfully completed five days online FDP**
- Dr. Seena P has completed the NEP 2020 Orientation & Sensitization Programme (MMC-049-2025-JAN –B-02940) under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) organised by UGC- Malaviya Mission Teacher Teaching Centre (MMTTC), University of Calicut from 20-01-2025 to 29-01-2025
- Jaseela KP has participated in the Faculty Development Program/Training Program on "Innovative Teaching and Learning Pedagogy" and from 17th to 22nd March 2025, organized by Research Foundation of India in association with Parul University, Gujarat.



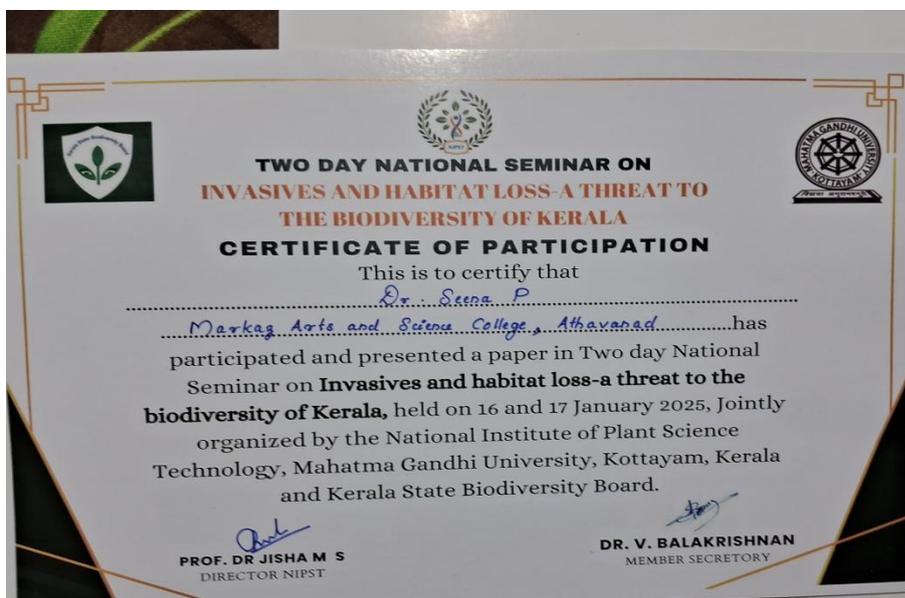




Figure 7: Certificates of Faculties attended seminars & FDPs

DETAILS OF PRESENTATIONS / INVITED LECTURES BY FACULTIES

- Dr.Seena P has presented a paper in the two day National Seminar on “Invasives and habitat loss-a threat to the biodiversity of Kerala” held on 16 and 17 January 2025, jointly organized by the National Institute of Plant Science Technology, MG University, Kottayam, Kerala and Kerala State Biodiversity Board.
- Dr.Seena P has presented a paper entitled “Effect of Ethoxyquin on Blood Parameters and Biochemical Markers of Fresh Water Fish, Oreochromis mossambicus” in the ‘SCILIFE-2025’ Scientific Presentation Competition organized by the Department of Biochemistry, TKM College of Arts and Science, Kollam, Kerala, on February 27 & 28, 2025.
- Dr.Seena P has served as a Resource Person and delivered a talk on “Recent Methodologies In Biochemistry Implicated in Prevention, Control and Treatment of Cancer” In Wisdom Waves 25: A Seminar Series Second Edition organized by IQAC & Research Council and in association with Biochemistry Department at National College of Arts and Science, Puliayavu, Nadapuram on 11-03-2025.



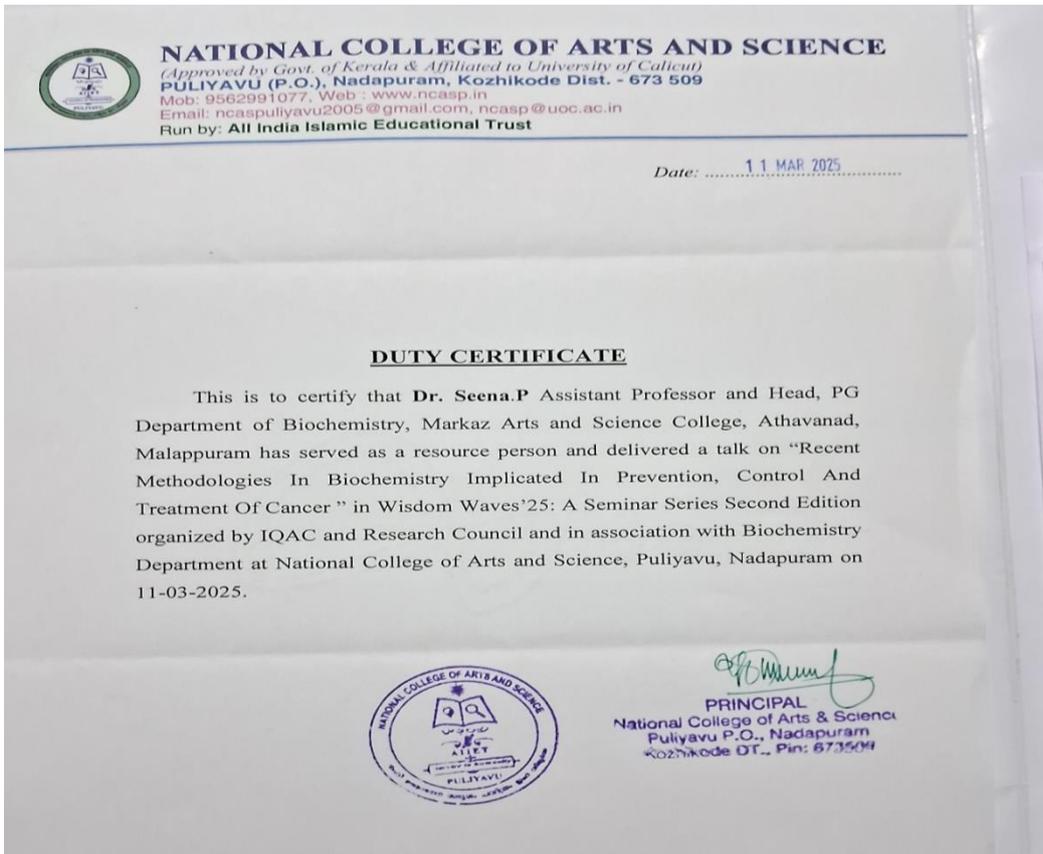


Figure 8: Certificate of Paper Presentations & Invited Lecture by faculty – Dr. Seena P



Figure 9: Photos of Paper Presentation & Invited Lecture by faculty – Dr. Seena P

DETAILS OF STUDENTS ATTENDED SEMINARS/ PRESENTATIONS/ WORKSHOPS

- Five students of second year M.Sc.Biochemistry attended Two day National Seminar on “Invasives and habitat loss- a threat to the biodiversity of Kerala” held on 16 & 17 January 2025, jointly organised by the National Institute of Plant Science Technology, Mahatma Gandhi University, Kottayam, Kerala and Kerala State Biodiversity Board.



Figure 10: Students at NIPST, MG, University for National Seminar



Figure 11: Students participation certificates

- Fathima Fidha MK of second year M.Sc. Biochemistry presented a paper entitled “Production, Characterization and Application of Protease Produced by Bacteria Isolated from Soil” in the two day National Seminar on “Invasives and habitat loss- a threat to the biodiversity of Kerala” held on 16 & 17 January 2025, jointly organised by the National Institute of Plant Science Technology, Mahatma Gandhi University, Kottayam, Kerala and Kerala State Biodiversity Board.



Figure 12: Fathima Fidha MK of 2nd year M.Sc. Presenting Paper at National Seminar



Figure 13: Certificate of Fathima Fidha MK presentation at National Seminar

DETAILS OF DEPARTMENT ACTIVITIES

1) WORLD ENVIRONMENT DAY CELEBRATION

The PG Department of Biochemistry celebrated World Environment Day on 5th of June 2024, Monday, in a significant manner. The main intent of the celebration was to increase consciousness among students about the importance of the environment and the need to protect it. All the students of Department actively participated in various programs such as;

A) Plastic Ban Awareness Class

Second year PG students organized a power point presentation for promoting to control the use of plastics to reduce pollution and to protect the environment. They emphasized the point that plastics are polluting the land and water greatly. The students also pointed out the negative impact of plastic on human health. They wined up the session by advising the audience by the quote “Say no to Plastics” to save our environment and earth.

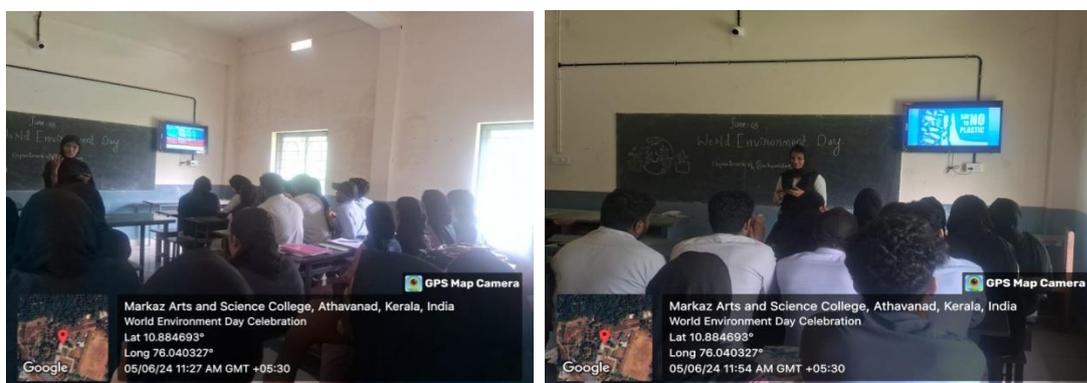


Figure 14: Plastic ban awareness class

B) 5000 Steps Challenge

First year PG Biochemistry participated in a 5000 step walking challenge in 90 minutes. This challenge encourages physical activity and also reduces emission of carbon from transportations. Walking is a simple, free and fun way to keep humans active. This challenge made the students aware about both physical fitness and environment protection from pollutants from transportation.



Figure 15: 5000 Steps Challenge

C) Organic Vegetable Gardening

Second semester and fourth semester B.Sc. Biochemistry students actively participated and started a organic vegetable garden in front of Biochemistry Department. This gardening will help to create an ecosystem that benefits the surrounding environment and improves soil quality. This is an environmental friendly attempt and promotes sustainable development



Figure 16: Organic Vegetable Gardening

2) SEMINAR ON RESESRCH METHODOLOGY

PG Department of Biochemistry organised a seminar on Research Methodology on 10th June 2024, Monday. The topic was “Recent Trends in Publication and Proposal Writing”. The Resource Person for the session was Dr.Reshma Ayswaria, Asst.Professor, Department of Biotechnology, Mercy College, Palakkad. The Resource Person explained many important areas of Paper publishing such as topic selection, problem statement, National & International Status, methodology etc in a simple and easily understanding manner. She explained about the structure of manuscript and also gave a detailed idea about citing reference while writing a research paper. The session was very informative for final year UG & PG students, doing their project. A total of 84 students attended the session.

DEPARTMENT OF BIOCHEMISTRY
Markaz Arts and Science College, Athavanad
(Affiliated to University of Calicut)
Karthala post, Malappuram Dist, 679571

**SEMINAR ON
RECENT TRENDS IN
PUBLICATION AND
PROPOSAL WRITING**

June 10, 2024

- ✓ 11:30 AM
- ✓ MMC HALL

Resource Person :
Dr. Reshma Ayswaria
Asst. Professor
Dept of Biotechnology
Mercy College
Palakkad

markazcollege.ac.in

Biochemistry.markaz@gmail.com

Figure 17: Research Methodology Seminar Poster



Figure 18: Photos of Research Methodology Semina

3) WORLD HEART DAY OBSERVANCE

As a part of World Heart day observance, Department organized a talk on the topic “Can We Prevent Heart Attacks – Let’s Talk Ayurveda” on 30th September 2024, Monday. The Resource Person was Dr.Rahul R Nair, Professor & Head, Ashtamgam Ayurveda Cikitsalayam & Vidyapeedham Medical College, Vavanoor, Kootanad, Palakkad. This seminar was held with the objective of exploring traditional Ayurvedic approaches to heart health and their potential to prevent cardiovascular diseases. The seminar sought to integrate modern biochemical insights with ancient Ayurvedic wisdom to highlight preventive measures against heart attacks. It aimed to educate the audience about lifestyle modifications, dietary practices, and natural remedies rooted in Ayurveda that promote cardiovascular health. UG & PG students from Biochemistry department engaged in the discussions and actively contributed to the Q&A sessions, reflecting the growing interest in integrative approaches to health. A total of 59 students were benefited from the programme. The seminar successfully underscored the relevance of Ayurveda in preventing heart attacks and maintaining overall heart health. By bridging traditional wisdom and scientific research, the event contributed to raising awareness and promoting a holistic approach to cardiovascular well-being



Figure 19: World Heart Day Observance Poster

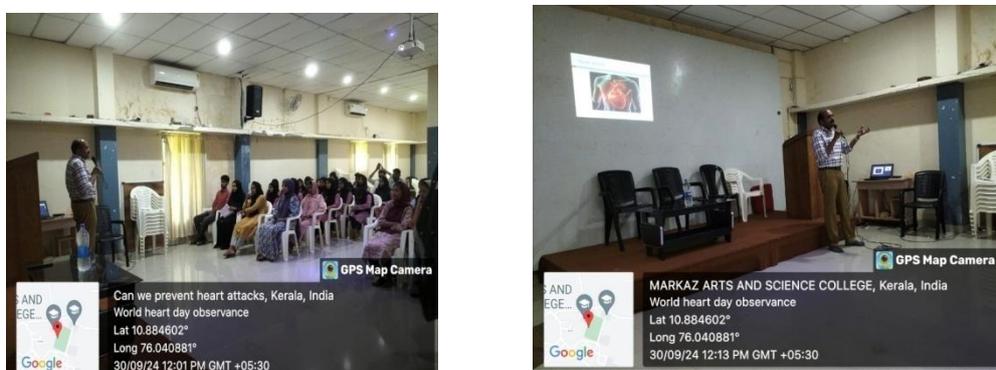


Figure 20: Photos of World Heart Day Observance Program

4) SEMINAR ON "BIOINFORMATICS-TECHNIQUES & TOOLS"

The Department of Biochemistry organized a seminar on "BIOINFORMATICS-TECHNIQUES & TOOLS" on 24th October at MMC Hall. The seminar aimed to introduce participants to the growing field of bioinformatics and its applications in biological research and healthcare. The objective of the seminar was designed to provide an overview of bioinformatics tools and techniques and highlight the interdisciplinary nature of bioinformatics, merging biology, computer science, and data analysis. The seminar

successfully achieved its objective of introducing participants to the field of bioinformatics and its vast applications. It served as a platform to inspire future research and collaboration in this interdisciplinary domain. A total of 30 students were benefited from the programme.



Figure 21: Program brochure & photo of program

5) DIABETIC DAY OBSERVANCE

As a part of Diabetic Day observance (14/11/2024), PG Department of Biochemistry conducted Blood Glucose detection for the local people near to college premises. Second year PG students went to the nearby houses and performed the blood glucose detection using glucometer. Mrs.Fathimath Faseeha, Department faculty coordinated the program. The theme for this year was “Breaking Barriers, Bridging Gaps”. The students also gave

awareness class to people by going to their houses about impact of diabetes on health and how to manage diabetes.



Figure 22: Photos of Diabetes Day Observance

6) NATIONAL WEBINAR ON “CANCER IMMUNOLOGY”

PG Department of Biochemistry hosted a National Webinar on Cancer Immunology, aimed at enhancing awareness and knowledge about the role of the immune system in cancer biology, diagnostics, and therapeutic interventions on 19th November 2024 Via Google Meet. The webinar brought together experts in the field of cancer research, immunology, and biochemistry to discuss the latest developments and research in cancer immunology. The objective of the seminar was to discuss the mechanisms by which tumours evade immune surveillance and to examine the potential of immunotherapy and its clinical applications in cancer treatment. The National Webinar on Cancer Immunology successfully provided a comprehensive overview of cutting-edge research and clinical applications in cancer

immunology. A total of 55 peoples including students and faculties were benefited from the programme.



Figure 23: National Webinar Brochure

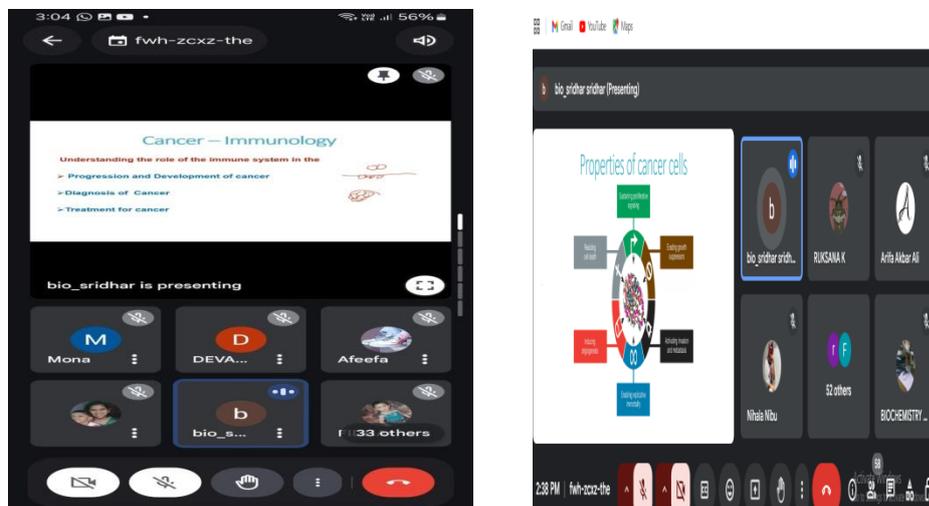


Figure 24: Screenshots of National Webinar

7) NATIONAL YOUTH DAY PROGRAM

PG Department of Biochemistry organized a talk in accordance with “National Youth Day” on 14th January 2025 at 3rd Year B.Sc. Biochemistry class at 12 noon. Second Year PG student Muhammed Thanseeh CK coordinated the program and delivered an engaging talk, sparking meaningful discussions and reflection among the attended students. He emphasized on the theme of National Youth Day 2025, “Youth for a Sustainable Future: Shaping the Nation with Resilience and Responsibility”. His words inspired and motivated young minds. He focused on themes relevant to today’s youth. The event encouraged participants to take an active role in shaping their future. The event successfully promoted intellectual exchange, creativity, and leadership among the young participants, aligning with the spirit of National Youth Day. All the students of Department attended the program.



Figure 25: Photos of National Youth Day Program

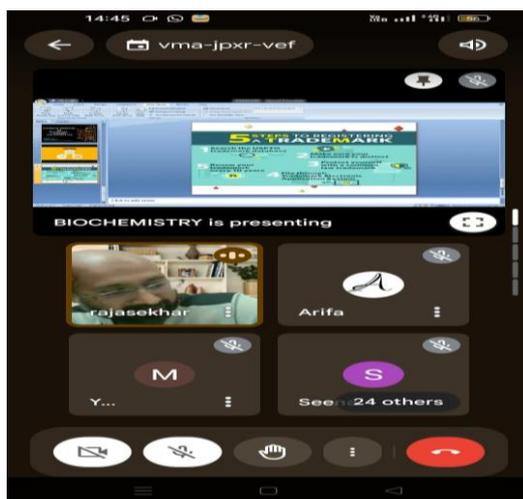
8) NATIONAL WEBINAR ON “TRADE MARK – CONCEPT AND IMPORTANCE”

A national webinar on “TRADE MARK – CONCEPT AND IMPORTANCE” was organized by the Department on 10th March 2025 via online mode. The Resource Person was Rajasekhar Pandarathil, Marketing Manager, West Pharmaceutical Service Pvt. Ltd., Hyderabad. The Resource Person explained in detail about trademark fundamentals such as trademark law including registration, protection and enforcement. The Resource Person emphasized the significance of trademarks in establishing brand identity and distinguishing products. The session also focused on international trade mark law including treaties and agreements. A total of 32 participants attended the session.

The session provided a valuable platform for knowledge sharing, networking and discussion on trademark related topics. The participants gained a deeper understanding of trademark law and its importance.



Figure 26: Poster of Webinar on Trademark – Concept & Importance



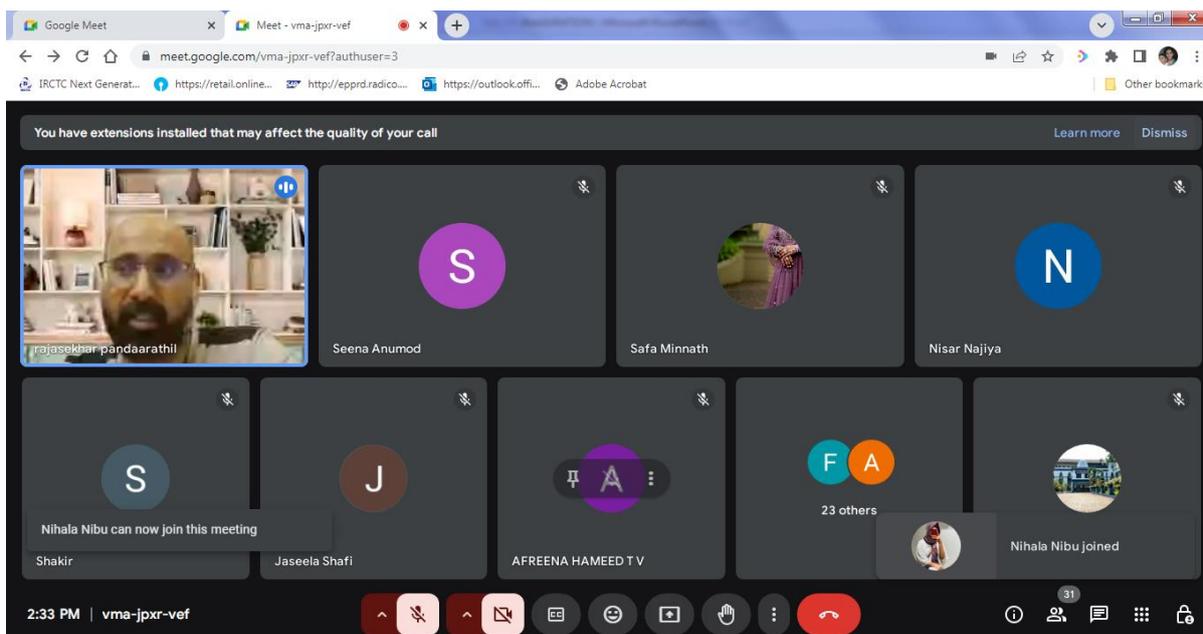


Figure 27: Screenshots of Webinar on Trademark – Concept & Importance

9) EXTENSION ACTIVITIES

A) DIABETIC DAY OBSERVANCE

As a part of Diabetic Day observance (14/11/2024), PG Department of Biochemistry conducted Blood Glucose detection for the local people near to college premises. Second year PG students went to the nearby houses and performed the blood glucose detection using glucometer. Mrs.Fathimath Faseeha, Department faculty coordinated the program. The theme for this year was “Breaking Barriers, Bridging Gaps”. The students also gave awareness class to people by going to their houses about impact of diabetes on health and how to manage diabetes.



Figure 28: Blood glucose determination - Diabetic Day Observance

B) OPEN HOUSE 2024 -2025

Open house exhibition was conducted on 18th February 2025, Tuesday. Students made a still model showcasing the adverse effect of tobacco use for the competition, as the topic of competition was “Prevention of Drug Abuse”.

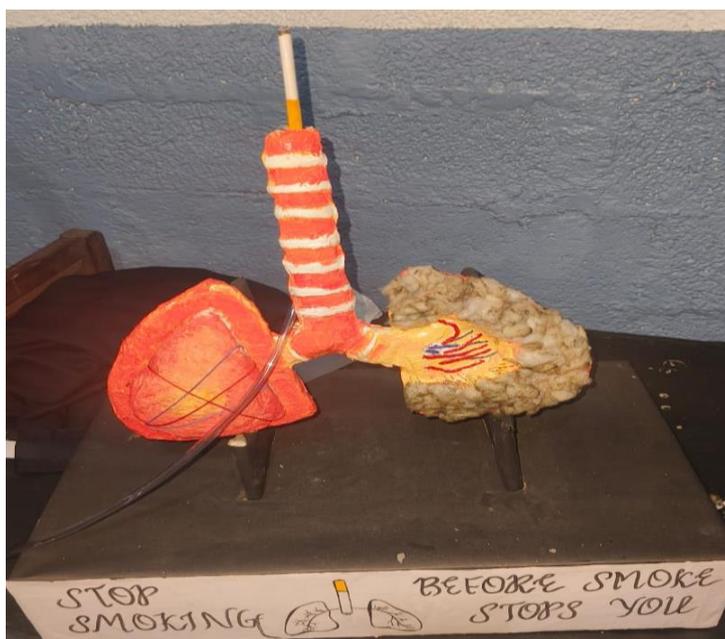


Figure 29: Still model for the competition “Prevention of Drug Abuse”.

Students were actively participated in the exhibition and exhibited several models and charts based on the topic “Youth for Healthy Lifestyle”. Various charts were displayed in the lab explaining about different life style diseases and symptoms. Students of final year B.Sc. Biochemistry also exhibited various healthy foods including raagi payasam, millet dosa, oats porridge, vegetable and fruit salads etc.. They also explained the benefits of each items. Many parents and students visited the stall.

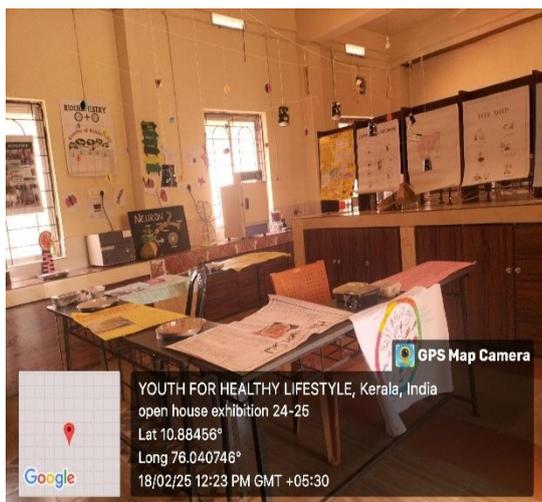


Figure 30: Photos of Open House Exhibition

10) CAREER DEVELOPMENT PROGRAMMES

A) CAREER GUIDANCE CLASS

Department of Biochemistry and Career Guidance and Placement cell, Markaz Arts and Science College in association with IQAC organized a Career Awareness Program on “Medical Coding” for Biochemistry students on 04/12/2024 (The program was scheduled to conduct on 3rd December 2024, but due to public holiday declared by the Malappuram Collector the program was rescheduled to 4th December 2024, 1PM). The Resource Person was Miss.Sneha, Medical Coding Trainer, Transorze solution. The Resource Person addressed the students on career opportunities available and how to choose on their options in medical coding. The students discussed freely about their problems feelings and fears that are important in choosing the best suited career. The ultimate goal was to help the student grow in self-understanding, so that he/she can better cope with immediate situation and with future decisions. During the entire session, the Resource Person discussed the various strength, value and interest in order to make choice regarding the career of the student. The students were enriched in session and had better confidence in choosing the Career. A total of 30 students attended the session.



Figure 31: Poster & photo of Career Development class

B) CAREER ORIENTATION PROGRAM

Department of Biochemistry in association with Career Guidance and Placement cell organized a Career Development Online Program on “Research Opportunities in Biochemistry” on 14th March 2025, Friday. The Resource Person was Mrs.Fahida MK, Alumna, 2021-2023 M.Sc. Biochemistry. She talked about numerous research opportunities, driving advancements in various fields of Biochemistry such as Cancer Research, Gene Editing and Gene Therapy, Neurodegenerative Diseases, Plant Biotechnology etc. She motivated the students to explore these opportunities. She also told the students to contribute their understanding of biochemical systems and to develop novel applications that human health and the environment



Figure 32: Poster of Career Orientation Program

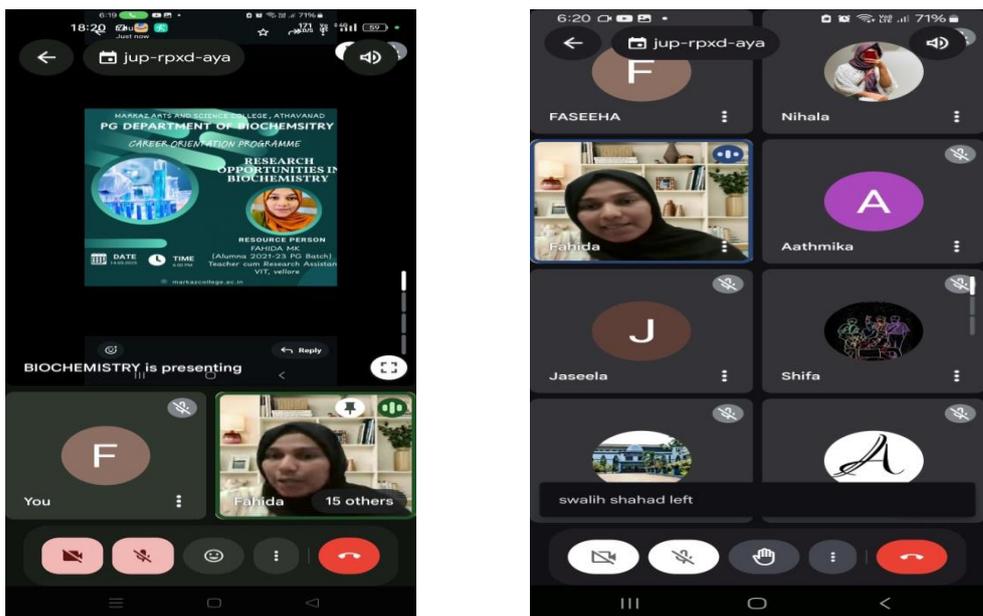


Figure 33: Photo of Career Orientation Program

C) CAREER DEVELOPMENT PROGRAMS ATTENDED BY STUDENTS

i) THOZHILMELA 2024 (JOB FAIR)

The Career Guidance and Placement Cell of the college, in association with Dist. Employment Office and IQAC of the college, conducted job fair titled “*Thozhilmela 2024*” on 07th September 2024 in the college campus. The programme was inaugurated by Mr. Abid Husain Thangal, Hon.MLA, Kottakkal Constituency. Fifteen companies/institutions participated in the fair. Around three hundred employees attended the fair. 3 PG and 4 UG students of the department of Biochemistry attended the job fair.

Sl.No	Student Name	Class	Company Offered
1	Fathima Sana	5 th Sem Biochemistry	Ayur Health Care, Star Health And Allied Insurance
2	Amana	5 th Sem Biochemistry	Ayur Health Care, Star Health And Allied Insurance
3	Rusaida Nasri	5 th Sem Biochemistry	Ayur Health Care
4	Afeena	3 rd Sem PG	Ayur Health Care
5	Thasleeema	3 rd Sem PG	Herbocare Herbal
6	Shifa	3 rd Sem PG	Herbocare Herbal
7	Shibla.V	5 th Sem Biochemistry	Star Health And Allied Insurance

Table 3: Students participated in Thozhilmela 2024 from the Department

ii) ORIENTATION PROGRAMME ON CONNECT CAREER TO CAMPUS

The Career Guidance and Placement Cell in association with IQAC and KKEM organized an orientation programme on CAREER CONNECT TO CAMPUS (CCC) for the final year UG and all PG students who decided to seek jobs after their degree, on 03 October 2024 Thursday at MMC Hall. Mrs. Shafana Parveen, Talent Curation Executive- Kerala Knowledge Economy Mission (KKEM) led the session. Three students from the department attended the program.

Sl.No	Name Of Student	Class
1	Muhsina.C	5 th Sem Biochemistry
2	Fathima Nida	5 th Sem Biochemistry
3	Afeefa Sherin	5 th Sem Biochemistry

Table 4: Name of Department students attended the Orientation Program

iii) SkillBridge'24

Career Guidance and Placement Cell in association with SLBS Marklance and IQAC of the college conducted an Exclusive Training and Placement Programme titled “SkillBridge'24” for final year B.Sc. Biochemistry and Microbiology students on 04th October 2024. Mr. K R Jayasankar, HR Trainer, SLBS Marklance, led the session.17 students of 5th semester B.Sc. Biochemistry attended the program.

Sl.No	Name Of Student	class
1.	Fathima Sana	5 th sem Biochemistry
2.	Shaniba Dilsha	5 th sem Biochemistry
3.	Fathima Lisana	5 th sem Biochemistry
4.	Fathima Nida	5 th sem Biochemistry
5.	Afeefa Serin	5 th sem Biochemistry
6.	Fathima Rizwa	5 th sem Biochemistry
7.	Fidha Thasni	5 th sem Biochemistry
8.	Muhsina.C	5 th sem Biochemistry
9.	Mohammed Sinan.P	5 th sem Biochemistry
10.	Mohamed Fazil M.P	5 th sem Biochemistry
11.	Abhishek.T.M	5 th sem Biochemistry
12.	Mohammed Shameel.P	5 th sem Biochemistry
13.	Shibla.V	5 th sem Biochemistry
14.	Amana.T	5 th sem Biochemistry
15.	Hisana Nasrin	5 th sem Biochemistry
16.	Rusaida Nasri.K	5 th sem Biochemistry
17.	Shifna.K.C	5 th sem Biochemistry

Table 5: Name of Department students attended the SkillBridge'24

iv) SOFT SKILL TRAINING AND EMPLOYABILITY REGISTRATION

Career Guidance and Placement Cell in association with District Employment Exchange & Employability Centre, Malappuram and the IQAC of the college organized Soft Skill Training and Employability Registration Camp on 20th November 2024 at MMC Hall. Four students of Biochemistry Department attended the program.

Sl. No	Name Of Student	Class
1	Mubashira.T	3 rd Sem Biochemistry
2	Sreya Pradeep	3 rd Sem Biochemistry
3	Fathima Sefna	3 rd Sem Biochemistry
4	Rifida	3 rd Sem Biochemistry

Table 6: Name of Department students attended Soft Skill Training and Employability Registration Camp

11) ALUMNI PROGRAMMES

a) Alumni meet up of 2014-2017 B.Sc. Biochemistry batch, “Jasne Milan 2024” was conducted on 22nd September 2024 at College Campus. The event brought together alumni from the batch to reconnect, share experiences and celebrate their time at the institution. REEThe students shared stories and experiences from their time at the institution and beyond. They shared their career paths and experiences, offering valuable guidance to current batches. Several faculty members from Biochemistry Department attended the event. The event demonstrated the strong bond and sense of community among the alumni.

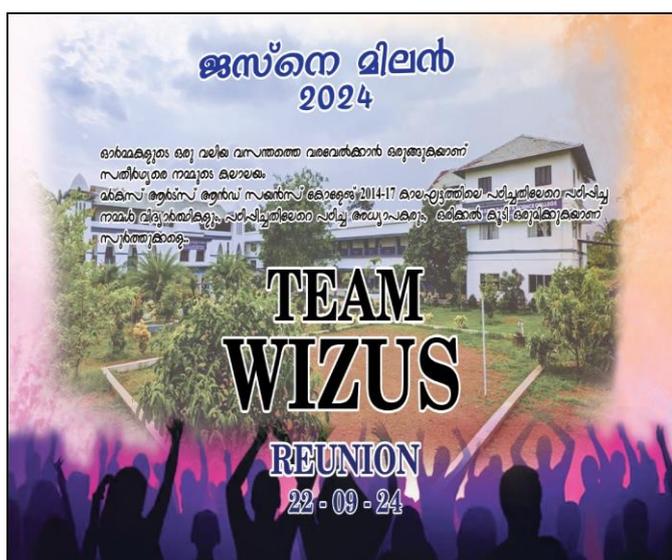


Figure 34: Poster of Alumni Meet up



Figure 35: Alumni Program Photos

b) Mrs. Fahida MK, Alumna 2021-2023 PG Batch, acted as a Keynote speaker for giving a class for PG Biochemistry students on “Research Opportunities in Biochemistry” on 14th March 2025. She is presently working as Teacher cum Research Assistant, VIT, Vellore. The session really inspired the students and they raised their queries about various opportunities in the field of Research.

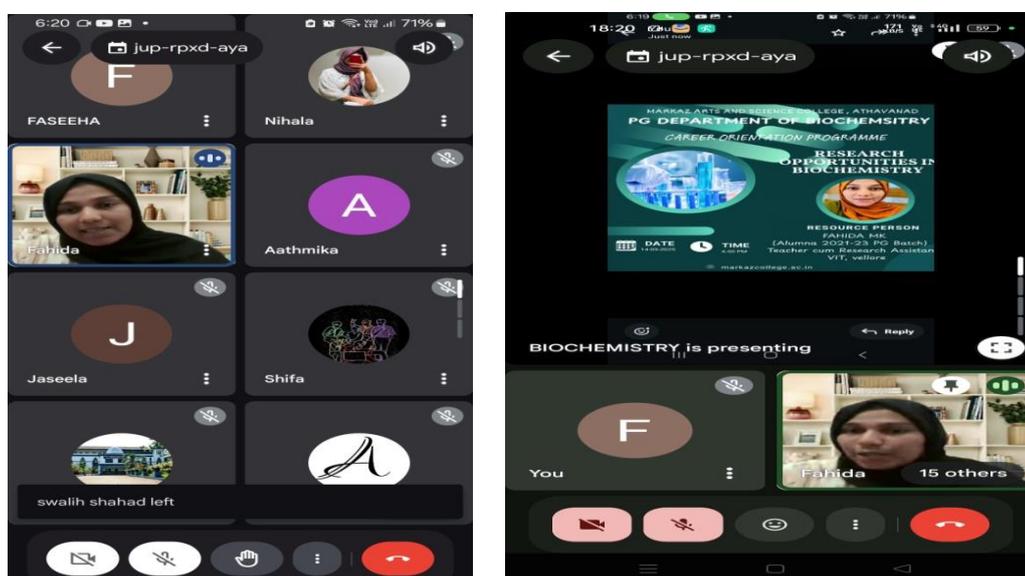


Figure 36: Screenshot of Alumni Program

12) SOFT SKILL PROGRAMMES

A) Hands –on Training on “Working of UV-VIS 1900 Shimadzu Spectrophotometer

PG Department of Biochemistry conducted hands –on training session on “Working of UV-VIS 1900 Shimadzu Spectrophotometer” for first year PG Biochemistry students on 4th

December 2024 at 2pm. The resource person was Mr.M.Chindamparapandian, Service Engineer, Toshvin Analytical Pvt. Ltd., Mumbai. The session provided the students with practical experience in operating and utilizing this advanced analytical instrument. The students gained knowledge about the Spectrophotometer's capabilities, specifications and applications. The students got a deep idea in preparing samples for analysis, cuvette handling and learned to operate the instrument including setting parameters, running samples and trouble shooting. A total of 13 students attended the session.

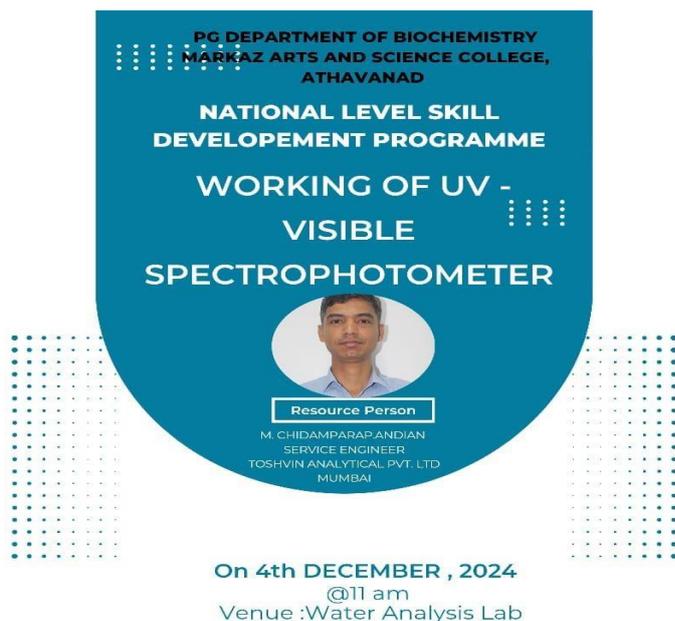


Figure 37: Poster of hands –on training session

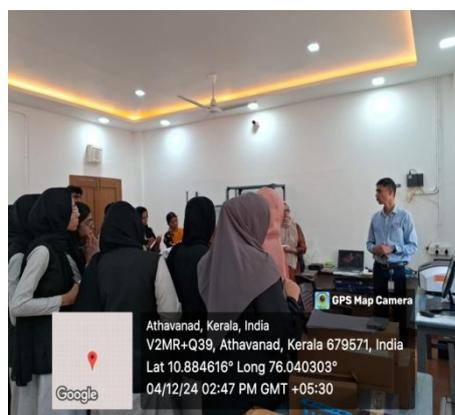


Figure 38: Photos of hands –on training session

B) BIOINFORMATICS TRAINING BY DEPARTMENT FACULTY

Department organized a hands-on training in Bioinformatics on 15th January 2025, for the first year M.Sc. Biochemistry students. Department faculty Dr.Arifa PP coordinated the session and gave a detailed practical session on familiarizing nucleotides, protein databases and molecular visualization tools. All the students of first year PG attended the training session.

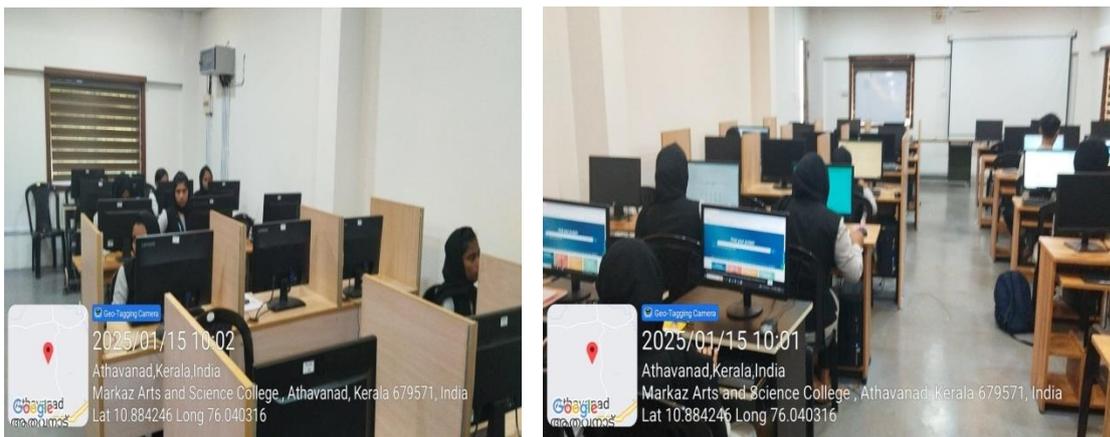


Figure 39: Photos Hands on Training in Bioinformatics

13) CERTIFICATE COURSES FOR THE STUDENTS

In this academic year Certificate Courses were not provided by the Department. First year UG students were enrolled for ASAP Course – “**Data Analysis and Advanced Excel**” and the first year PG students were admitted for Certificate Course offered by REACH- “**Information Technology**”. Second year students were selected the Certificate Course on “**Indian Knowledge System**” provided by IQAC of College.

14) INDUSTRIAL VISIT TO SWAMINATHAN RESEARCH FOUNDATION CENTRE, WAYANAD

An industrial visit was organized for Second year PG students to M.S. Swaminathan Research Foundation Centre, Wayanad on 20th February 2025. The students got an opportunity to have a discussion with scientist of the institute. He gave a detailed idea about the institute and told the students that the main aim of the institute is to accelerate use of modern science for sustainable agricultural and rural development. He also emphasized on the point that the institute applies appropriate science and technology options to address practical problems faced by rural populations in agriculture, food and nutrition. After the

session by the scientist, the students got an opportunity to visit the state of the art laboratories, green houses and experimental farms. The visit helped the students to gain knowledge about the centre’s research projects, focusing on sustainable agriculture, crop improvement and biodiversity conservation. The visit highlighted the centre’s commitment to sustainable practices, including organic farming, rainwater harvesting and renewable energy. A total of 10 students joined in the visit. Dr.Seena P, Department faculty accompanied the students.



Figure 40: Photos of Industrial Visit

15) DETAILS OF SWAYAM COURSE ENROLLMENT

65 students and six faculties of the Department enrolled for Swayam Course in this academic year. Details of faculties enrollment for Swayam Course are as follows; Dr.Seena – Biochemistry, Jaseela – Molecular Biology, Rincy –Biochemistry, Maneesha – Cancer Fundamentals, Dr.Arifa- Bioinformatics: Algorithms and Applications and Fathimath

Faseeha - Biochemistry. Details of students enrolled for Swayam Course in this academic year were given in the table below:

Sl. No.	NAME	CLASS	COURSE SELECTED
1.	ARYANANDA N P	2 nd Year PG	Advanced Chemical Thermodynamics & Kinetics
2.	FATHIMA FIDHA K P	2 nd Year PG	AI in Product Management
3.	FATHIMA FIDHA M K	2 nd Year PG	Biochemistry
4.	FATHIMATH NOORA K	2 nd Year PG	Biochemistry
5.	HAFEENA K	2 nd Year PG	A Brief Introduction of Microsensors
6.	HASNA SHAHANA E N	2 nd Year PG	Biochemistry
7.	KADEEJA SHERRY. C	2 nd Year PG	AI in Marketing
8.	NIHALA K	2 nd Year PG	Biochemistry
9.	SHIFA FATHIMA. V.M	2 nd Year PG	Advanced Chemical Thermodynamics & Kinetics
10.	SWETHA S	2 nd Year PG	AI in Human Resource Management
11.	THASLEEMA K S	2 nd Year PG	Applied Environmental Microbiology
12.	MUHAMMED SWALIH SHAHAD V	2 nd Year PG	I Think Biology
13.	MUHAMMED THANSEEH CK	2 nd Year PG	Molecular Biology
14.	FABEELA MOL N	1 st Year UG	Food Microbiology for Safe and Sustainable Food System
15.	FATHIMA NIFLA P	1 st Year UG	Food Microbiology for Safe and Sustainable Food System
16.	FATHIMA SHANHA K	1 st Year UG	Food Microbiology for Safe and Sustainable Food System
17.	HUSNA NASREEN	1 st Year UG	Food Microbiology for Safe and Sustainable Food System
18.	KADEEJATHUL KUBARA	1 st Year UG	Food Microbiology for Safe and Sustainable Food System
19.	MISNA	1 st Year UG	Food Microbiology for Safe and Sustainable Food System
20.	NAJA RAHMAN C K	1 st Year UG	Food Microbiology for Safe and Sustainable Food System
21.	NIDHA A K	1 st Year UG	Food Microbiology for Safe and Sustainable Food System
22.	SHAHANA K P	1 st Year UG	Food Microbiology for Safe and Sustainable Food System
23.	FATHIMA MEHNA M	1 st Year UG	Food Microbiology for Safe and Sustainable Food System
24.	FATHIMA SEFNA PK	2 nd Year UG	Food science and technology

25.	FATHIMA FIDA KT	2 nd Year UG	Microbial biotechnology
26.	AFNAN.T.T	2 nd Year UG	Interior design
27.	NASEEFA MARIYAM K	2 nd Year UG	Environmental chemistry and Microbiology
28.	HASNA	2 nd Year UG	Modern Food packaging Technologies
29.	FABINA PM	2 nd Year UG	Food science and technology
30.	SHAHANA SHERIN	2 nd Year UG	Biochemistry-IITM
31.	SREYA PRADEEP	2 nd Year UG	Advanced Fluorescence microscopy and image processing
32.	MUBASHIRA T	2 nd Year UG	Advanced Fluorescence microscopy and image processing
33.	RIFIDA	2 nd Year UG	Environmental science
34.	HESSA MUJEEB VP	2 nd Year UG	Food science and Microbiology
35.	FIDHA K	2 nd Year UG	Food science and Microbiology
36.	FATHIMA HIBA A.P	2 nd Year UG	Environmental chemistry and Microbiology
37.	ASHBI SHERI P V	2 nd Year UG	Food science and technology
38.	AFEefa SERIN	3 rd Year UG	Food science and technology
39.	AMANA T	3 rd Year UG	Food science and technology
40.	FATHIMA NIDA	3 rd Year UG	Food science and technology
41.	FATHIMA RISWA	3 rd Year UG	Food science and technology
42.	FATHIMA SANA	3 rd Year UG	Food Microbiology for Safe and Sustainable Food Systems .
43.	FIDHA THASNI AV	3 rd Year UG	Food science and technology
44.	HISANA NASRIN	3 rd Year UG	Food science and technology
45.	RUSAIDA NASHRI K	3 rd Year UG	Food science and technology
46.	SHANIBA DILSHA K	3 rd Year UG	Food science and technology
47.	SHIBLA V	3 rd Year UG	Food science and technology
48.	SHIFNA KC	3 rd Year UG	Food science and technology
49.	MOHAMMED SINAN. P	3 rd Year UG	Food science and technology
50.	MUHAMMED SHEMEEL P	3 rd Year UG	Food science and technology
51.	MUHSINA. C	3 rd Year UG	Food science and technology
52.	ABHISHEK T M	3 rd Year UG	Food Science and Technology
53.	MUHAMMED FASIL. M P	3 rd Year UG	Food science and Technology
54.	AFEefa SHARIN C C	1 st Year PG	Bioengineering an interface with biology and medicine
55.	AFREENA HAMEED TV	1 st Year PG	Food science and technology
56.	ANSHIFA C K	1 st Year PG	Bioengineering:an interface with biology and medicine
57.	HAFSATH SHERIN A	1 st Year PG	Bioengineering:an interface with biology and medicine
58.	NAJIYA K K	1 st Year PG	Food science and Technology
59.	NAYANA SHARIN	1 st Year PG	a- Food science and Technology b-Biochemistry IITM c- Artificial intelligence:knowledge,representation

			and reasoning
60.	NEHA P	1 st Year PG	Food science and Technology
61.	RUKSANA K	1 st Year PG	Food science and Technology
62.	SAFA MINNATH T P	1 st Year PG	Bioengineering: An Interface with Biology and Medicine.
63.	SHAMRI N	1 st Year PG	Biochemistry IITM
64.	SHIFANA K V	1 st Year PG	Food Science and Technology
65.	MUHAMMED SHAKIR M	1 st Year PG	a)Food Science and Technology b)Biochemistry IITM c)Water Quality Management Practices

Table 7: Details of Swayam Enrollment 24-25 academic year

RECOGNITIONS AND AWARDS OF FACULTIES

- 1) Dr.Seena P continued as Chairman of PG Biochemistry at University level since April 2023
- 2) Dr.Seena P acted as external examiner for scrutiny of question papers of first semester UG/PG Examination at Safi Institute of Advanced Study, Vazhayoor
- 3) Dr.Seena P acted as question paper setter for B.Sc Microbiology of Majlis Arts and Science College (Autonomous), Puramannur, for the course Minor-1-BCH1MN101 BIOCHEMISTRY and for the course BCH2MN101 LIFE MOLECULES
- 4) Dr.Seena P acted as reviewer for the manuscript title “Partial Purification and Characterizations of Bacteriocin from *Lactobacillus casei* Isolated from Goat Milk: A Novel Antimicrobial Agent” for the Journal ‘Journal of Pharmacology and Pharmacotherapeutics’.

 University of Calicut Accredited by NAAC with 'A+' Grade	 University of Calicut Accredited by NAAC with 'A+' Grade								
Appointment as Examiner at Valuation Camp	Appointment as Examiner at Valuation Camp								
Dear SEENA P, You are appointed as Chairman for the upcoming THIRD SEMESTER M.SC. BIOCHEMISTRY MA/MSC/MCOM/MSW/MCJ/MTTM/MBE/ MTHM (CBCSS-PG) 11/2024 at MALABAR CHRISTIAN COLLEGE, KOZHIKODE commencing on 20-01-2025 . - Controller of Examinations, University of Calicut	Dear SEENA P, You are appointed as Chairman for the upcoming FIRST SEMESTER M.SC. BIOCHEMISTRY MA/MSC/MCOM/MSW/MCJ/MTTM/MBE/ MTHM (CBCSS-PG) 11/2024 at GOVT. ARTS & SCIENCE COLLEGE, KOZHIKODE commencing on 10-02-2025 . - Controller of Examinations, University of Calicut								
<table border="1"> <thead> <tr> <th>Address</th> <th>Information</th> </tr> </thead> <tbody> <tr> <td>University of Calicut Calicut University PO Thenhippalam - 673635</td> <td>Official Website Admission Pareeksha Bhavan</td> </tr> </tbody> </table>	Address	Information	University of Calicut Calicut University PO Thenhippalam - 673635	Official Website Admission Pareeksha Bhavan	<table border="1"> <thead> <tr> <th>Address</th> <th>Information</th> </tr> </thead> <tbody> <tr> <td>University of Calicut Calicut University PO Thenhippalam - 673635 Malappuram District Kerala, India</td> <td>Official Website Admission Pareeksha Bhavan Examination Results Distance Education Degree Certificate</td> </tr> </tbody> </table>	Address	Information	University of Calicut Calicut University PO Thenhippalam - 673635 Malappuram District Kerala, India	Official Website Admission Pareeksha Bhavan Examination Results Distance Education Degree Certificate
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Figure 41: Recognitions of faculty –Dr.Seena P

EXTRA CURRICULAR ACTIVITIES

A) Mehendi Competition

On account of Eid celebration, Mehendi Competition was conducted on 14th June 2024. Students of Biochemistry actively participated in competition. Febina and Shahana of second semester Biochemistry got first prize.



Figure 42: Winners poster of Mehandi Competition

B) VALEED OMAR SHERIF SCHOLARSHIP

In loving memory of alumni Valeed, it was decided to give scholarship to the outstanding students in social service. Muhammed Thansee C K of second year M.Sc. Biochemistry was selected for Valeed Omar Sherif Scholarship.



Figure 43: Winners poster & photo of Valeed Omar Sherif Scholarship

C) INDEPENDENCE DAY COMPETITION

On account of Independence Day, several competitions were conducted. Fatima Hiba A P of second year B.Sc. Biochemistry got first prize in cloth painting competition.



Figure 44: Winners poster of Independence Day competition

D) FRESHER'S DAY

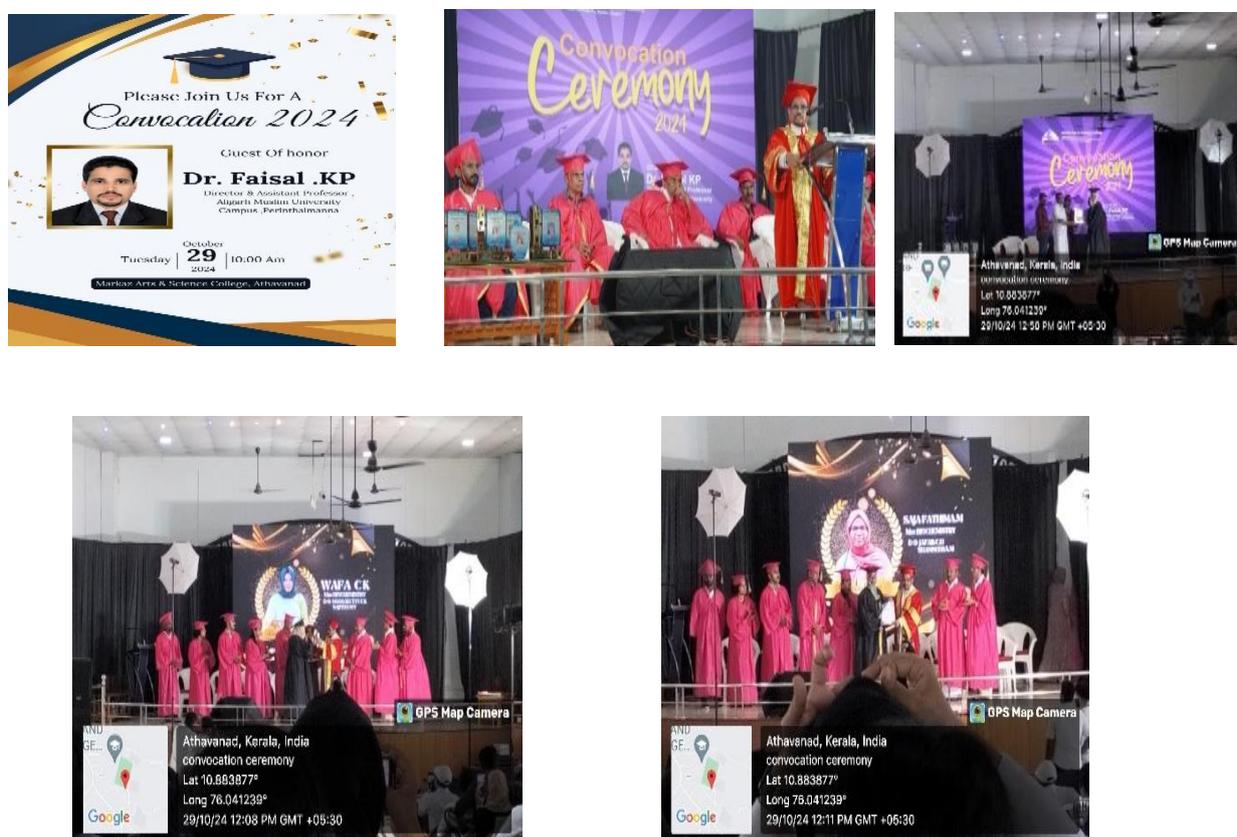
Fresher's day programme of the academic year 2024-2025 'THAAL' was celebrated on 10th September 2024. Various entertainment programmes were organised by third year students. Students of Biochemistry exhibited energetic dance performances.



Figure 45: Photos of Freshers Day Programme 2024-25

E) CONVOCATION CEREMONY

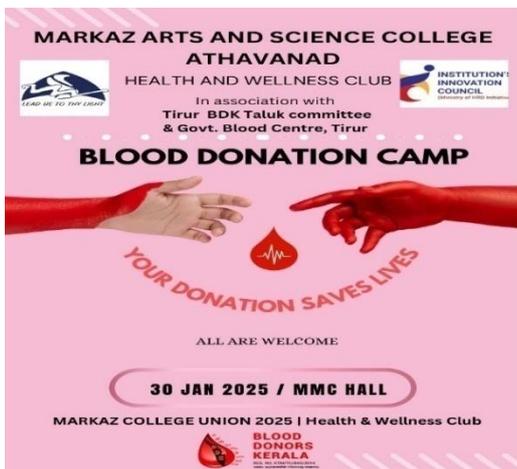
Convocation ceremony of 2024 pass out PG batch was conducted on 29th October 2024. Dr.Faisal K P, Director and Assistant Professor, Aligarh Muslim University Campus, Perinthalmanna was the chief guest .MTI working secretary K T Azadali, Principal Dr.C.P. Muhamed Kutty chaired the session. Dr. Faisal K P awarded the certificates to the students. Department of Biochemistry bagged 5 university ranks- Rafni Pothangodan (1strank), Farhath FarsanaT (3rd rank), Wafa C K (4thrank), Ashfina (7thrank), Ershana Shery (8th rank)and Saja Fathima M (9th rank) . The rank holders were awarded with special memento by the management team.



. Figure 46: Poster & Photos of Convocation Ceremony

F) BLOOD DONATION CAMP

Health and wellness club conducted blood donation camp on 30th January 2025. Muhammed Thanseeh CK, second year M.Sc. Biochemistry was an active coordinator of the programme. Several students of Biochemistry department actively participated in the program.



. Figure 47: Poster & Photo of Blood Donation Camp

G) HONOURING CEREMONY

Dr.Seena P, HoD, Department of Biochemistry and Dr.Arifa P, Assistant Professor, Department of Biochemistry completed Ph.D. from Bharathiar University. Faculties and students of the department honoured them with memento for their relentless academic effort. The honouring ceremony was conducted on 29thSeptember 2024 and 16th January 2025 respectively.



Figure 48: Photos of Honouring Ceremony

H) APPLAUZIA

The management of Markaz Tharbiyathil Islamiya conducted a program named “Aplauzia” as recognition to Markaz family for achieving NAAC ‘A’ Grade. All the staffs were awarded certificates and gift vouchers. The programme was inaugurated by Sayyid Munnawar Ali ShihabThangal on 6th February 2025. Other eminent personalities also chaired the session.



Figure 49: Poster & Photo of APPLAUZIA

I) UNION INAUGURATION

2024-2025 Union Inauguration –‘Ekatva’ was done on 8th February 2025. Mohammed Thanseeh CK of second year M.Sc. Biochemistry was elected as the UUC. The Union Inauguration was done by the chief guest Prof. Abid Hussain Thangal, MLA of Kerala, Kottakkal Constituency. All the other elected members took oath.

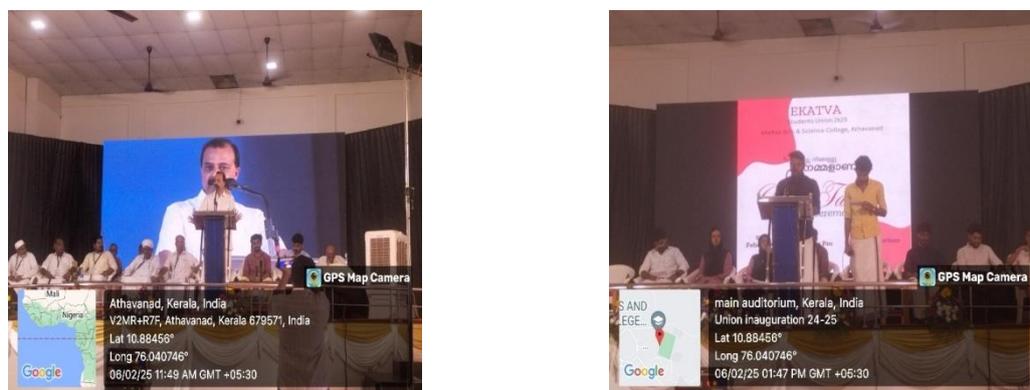


Figure 50: Photos of Union Inauguration

J) MURSHID MEMORIAL EXCELLENCE AWARD

In loving memory of Murshid, former student of Markaz Arts and Science College, every year college conducts excellency test. Students of Biochemistry actively participated in the Round 1 of the test, Muhammed Shakir of first year Msc Biochemistry got an opportunity to attend till third round.

K) C ZONE

Fathima Hiba A P of second year BSc Biochemistry got third prize for collage making competition in the Calicut University C Zone Fest 2025. This was a remarkable achievement for the Department.



Figure 51: Appreciation Poster for winning third prize in C Zone

L) WUSHU CHAMPION

Mr. Muhammed Swalih Sahad V of second year M.Sc. Biochemistry won Bronze medal in interzone Wushu Championship 2024-25, Calicut University (Under 70 weight category). His achievement was remarkable to the Department.



Figure 52: Appreciation Poster & Photo of WUSHU Champiوشي

M) LEAD-leadership fest 2025

Lead College of Management, Dhoni, Palakkad conducted LEAD-Leadership Fest 2025 from 11th February to 13th February 2025. Four students of 3rd Semester B.Sc. Biochemistry participated in the program. It was a wonderful opportunity to them to showcase their talents and they had a great experience there. Muhammed Shameel, Muhammed Fasil, Muhammed Sinan and Abhishek were the participants.



Figure 53: Photos & Certificate of Students at LEAD-Leadership Fest 2025

N) SPORTS MEET 2K25

EKATVA College Union 24-25 conducted 'KHELO MARKAZ' SPORTS MEET 2K25 on 5th February 2024. The students of Biochemistry Department actively participated in every events like running, shotput, relay, high jump, long jump etc.. and won prizes too.



Figure 54: Photo of Sports Meet 2K25

O) OPEN HOUSE EXHIBITION

2024-2025 Open house Exhibition was conducted on 18th February 2025, Tuesday. Students of the Biochemistry Department actively participated in the exhibition and exhibited several models and charts based on the topic Youth for Healthy Lifestyle. Students also made a working model on the topic Prevention of Drug Abuse.



Figure 55: Photos of Open House Exhibition

P) ARTS FEST 24-25

Ekatva College Union 24-25 conducted CHUVADU FINE ARTS FEST 2K25 on 25th February 2025. The students of Biochemistry department actively participated in both offstage and onstage items

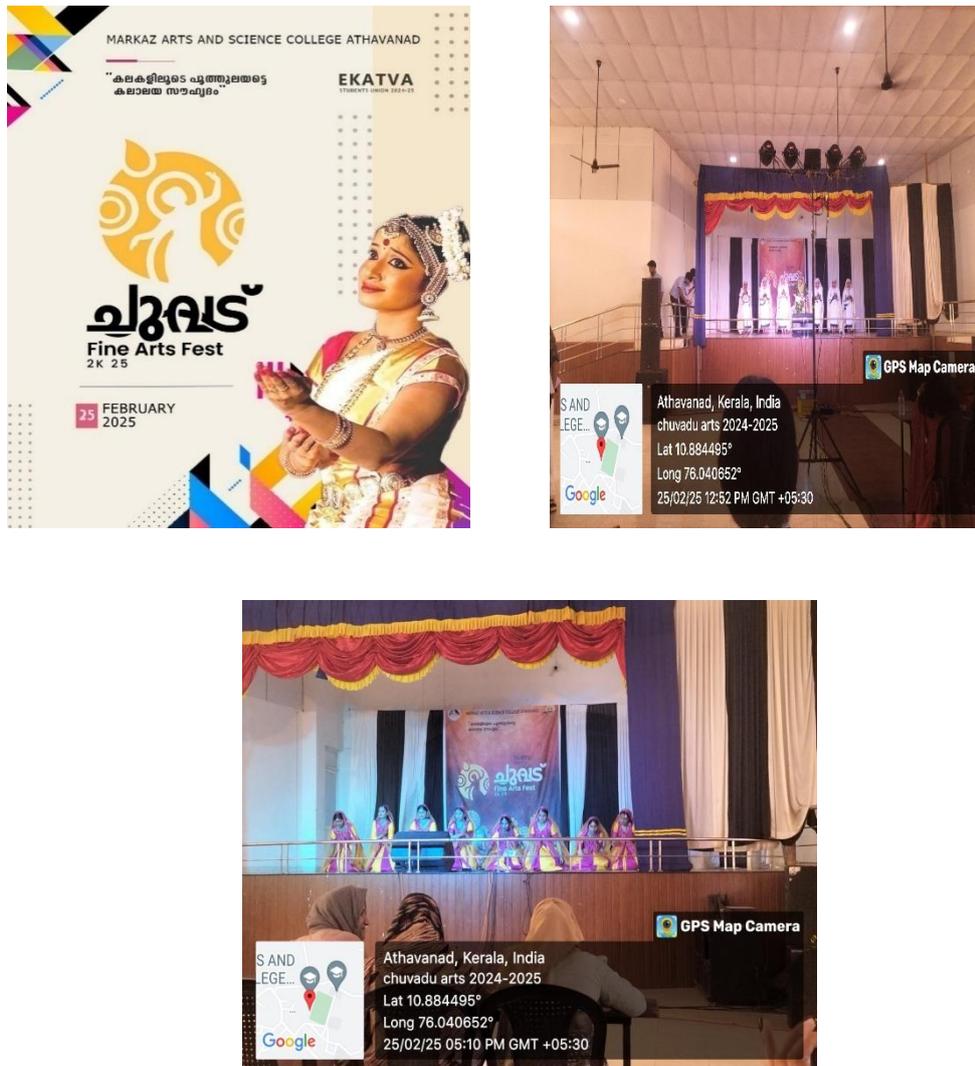


Figure 56: Poster & Photo of Arts Fest 24-25

Q) COLLEGE DAY

College day 2k25 was celebrated on 27th February 2025. Ekatva Union conducted several programmes. Final year Biochemistry students performed energetic dance performances.

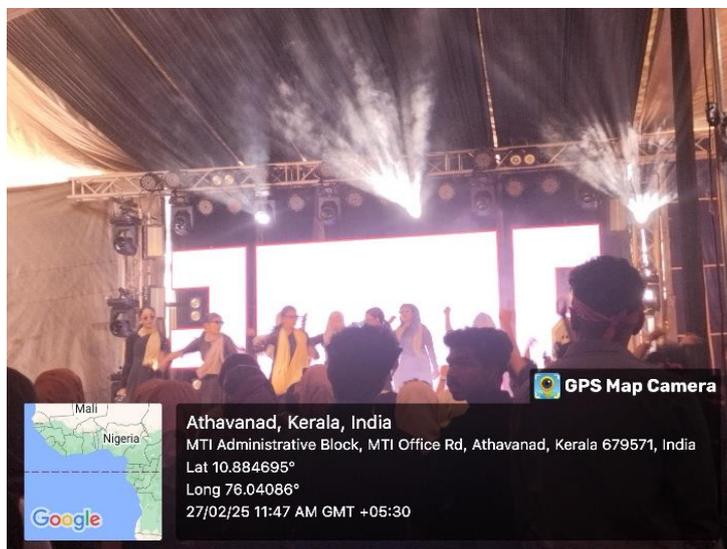


Figure 57: Photos of College Day 24-25

R) PROFICIENCY PRIZE 24-25

Proficiency Awards 24-25 were given on 6th March 2025. Mr.Najeeb Kanthapuram MLA, Perintalmanna was the chief guest. Shaniba Dilsha got proficiency prize for final year B.Sc. Biochemistry and Fathima Fidha KP got proficiency Award for final year PG Biochemistry. C Zone winner Fathima Hibha of second year B.Sc. Biochemistry and Wushu champion Mohammed Swalih Sahad of second year M.Sc. Biochemistry were also awarded.



Figure 58: Poster & Photo of Award Ceremony

S) SEMINAR BY PG STUDENTS TO UG STUDENTS

Second semester PG students took seminar for UG students, providing valuable insights and knowledge on specialized topics in Enzymology. This type of seminars facilitated a platform for academic exchange, fostering interaction and learning between UG and PG students. The event showcased the PG students research skills and presentation abilities, while also benefiting the UG students through knowledge sharing.





Figure 3: PG students taking Seminar for UG Students

T) FAREWELL PARTY

The juniors organized a heartwarming farewell party to the final year UG students, showcasing their appreciation and gratitude for the seniors. The event was filled with nostalgic moments and laughter. The farewell party served as a fitting tribute to the senior's time at the institution, leaving a lasting impression on all attendees.



Figure 60: Photos of Farewell Party

CO-CURRICULAR ACTIVITIES 24-25

1) NSS

Ashbi Sheri PV of Second year B.Sc. Biochemistry was the NSS volunteer. She participated in various activities conducted by NSS which includes seven day camp from 21st December to 27th December, various seminar sessions, quiz competitions, eye camp, kidney detection camp etc.. The following students of first year B.Sc. Biochemistry were selected as NSS

Volunteers for next academic year : Shahana K P, Fathima Shanha, Fathima Nifla, Nidha A K, Naja Rahman C K & Fathima Mehana