

# **ANNUAL REPORT 2020 -2021**

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**PG DEPARTMENT OF BIOCHEMISTRY**  
**MARKAZ ARTS AND SCIENCE COLLEGE, ATHAVANAD**

The college reopened for the academic year 2020-2021 on 1<sup>st</sup> June Monday.

Due to Covid -19 pandemic condition, mode of teaching was changed to online. All the teachers were given instructions based on various software applications which can be used for online teaching. Department decided to take class using “Google Meet”, “ClassRoom”, “Zoom” etc... Department created independent class windows for all degree and PG classes in “class room app”.

### **STAFF AND STUDENTS**

Biochemistry Department has 7 faculty members and 1 lab attender. Mrs. Seena P was the Head of the Department. Other faculties were Arifa P.P., Jaseela K.P., Thasleena K.K., Surur Jahan KK, Harsha V and Deepika C (new staff appointed on 8<sup>th</sup> June 2020). Abitha PP was the Lab attender. Deepika resigned on November 15 and new staff Fathimath Faseeha was appointed on November 24. Harsha resigned on 31<sup>st</sup> December and new staff Rincy CK was appointed on 4<sup>th</sup> January 2021.

Mrs.Arifa PP was selected as Department Secretary for the academic year 2020-2021.

The Department has 107 students on roll of which 86 are degree students, in which there were 7 boys and 79 girls and 21 are PG students (1 boy & 20 girls).

### **TOTAL NUMBER OF STUDENTS B.Sc. BIOCHEMISTRY DEGREE PROGRAMME 2020-2021**

<b>SL . NO</b>	<b>CLASS</b>	<b>NO: OF BOYS</b>	<b>NO. OF GIRLS</b>	<b>TOTAL STUDENTS</b>
<b>1</b>	<b>FIRST YEAR</b>	<b>3</b>	<b>32</b>	<b>35</b>
<b>2</b>	<b>SECOND YEAR</b>	<b>0</b>	<b>27</b>	<b>27</b>
<b>3</b>	<b>THIRD YEAR</b>	<b>4</b>	<b>20</b>	<b>24</b>

**Table 1: Number of students in B.Sc. Programme 2020-2021**

### **TOTAL NUMBER OF STUDENTS M.Sc. BIOCHEMISTRY DEGREE PROGRAMME 2020-2021:**

<b>SL.NO,</b>	<b>CLASS</b>	<b>NUMBER OF BOYS</b>	<b>NUMBER OF GIRLS</b>	<b>TOTAL</b>
<b>1</b>	<b>First year</b>	<b>1</b>	<b>12</b>	<b>13</b>
<b>2</b>	<b>Second year</b>	<b>0</b>	<b>8</b>	<b>8</b>

**Table 2: List of students in PG during academic year 2020-2021**

## **ADVISORY DETAILS**

The details of advisors were as follows; Mrs.Arifa PP was assigned the duty of advisor of first year B.Sc., Mrs.Jaseela KP was the advisor of second year B.Sc., and Ms. Thasleena KK was the 3<sup>rd</sup> year B.Sc. class advisor. Mrs. Surur Jahan KK & Ms.Harsha V was the advisors of first and second year PG respectively. The advisor duty of second year PG was handed over to Seena P while Harsha got resigned.

## **LAST YEAR ACADEMIC RESULT**

### **DEGREE**

The number of candidates registered for the final year UG University examinations were 32. 31 students appeared for the examination and 13 passed for the examination with a pass percentage 42%. Fathima Thesni secured 2<sup>nd</sup> rank and Mohammed Alghazi bagged 11<sup>th</sup> rank for UG University examination. This was a proud moment for Biochemistry as well as for the Markaz Management. Fathima Thesni secured full A+ in the sixth semester.



**Figure 1: Fathima Thesni Calicut University 2<sup>nd</sup> rank**



**Figure 2: Alghazi Calicut University 11<sup>th</sup> position**

### **POST GRADUATION**

In PG, 7 students appeared for final year University examination and 6 passed. The pass percentage was 85.71%. . Hafeefa of 4<sup>th</sup> sem PG secured A grade for her project and viva. The topic of her dissertation was “Partial Purification and Characterization of Polyphenol Oxidase from Pineapple ( *Ananas comosus* )”. Hasna AP was the class topper with a CGPA of 3.11 and overall grade B+.

## DETAILS OF WEBINARS ATTENDED BY TEACHERS

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- 1) Seena P and Arifa PP attended webinar on “Computational Biochemistry”, organized by SNGC College, Coimbatore on 24<sup>th</sup> April 2020.
- 2) Department staffs participated in the International Webinar on “RNA Processing & Modifications” and “Emerging and Re-emerging Infectious Diseases - A Serious Challenge To Humanity” organized by Department of Microbiology & IQAC, Al Jamia Arts & Science College, Perinthalmanna, on 22<sup>nd</sup> August 2020
- 3) All the staffs attended National webinar on “Current Research and Perspectives for Bioremediation” organized by Microbiology Department in association with IQAC, Markaz Arts & Science College, Athavanad, on 12<sup>th</sup> September 2020
- 4) All the faculties attended the 10 days National e-Conference on “Current Trends In Life Science” organized by Department of Biotechnology and Microbiology, Gems Arts & Science , Malappuram, from 14<sup>th</sup> to 23<sup>rd</sup> September 2020
- 5) All the staffs attended International webinar on “Relevance Of Microbiology In Nanotechnology & Nanoscience” organized by Microbiology Department in association with IQAC, Markaz Arts & Science College, Athavanad, on 25<sup>th</sup> September 2020
- 6) All the department faculties successfully participated on National Webinar on “National Education Policy and Higher Education” Conducted by IQAC of MES KEVEEYAM College under UGC Paramarsha scheme on 25<sup>th</sup> September 2020
- 7) All the department faculties successfully completed 4 days online workshop on “Research Proposals, Publications and Patents” conducted by IQAC & IPR Cell of MES KEVEEYAM College under UGC Paramarsha scheme in association With IPRICK, Kerala State Higher Council for Science, Technology and Environment from 28<sup>th</sup> September -01 October 2020
- 8) Thasleena KK attended International Webinar on “Solar Fuel Technologies – From Natural to Artificial Photosynthesis” organized by PG Department of Chemistry, in association with IQAC, Markaz Arts & Science College, Athavanad, on 19<sup>th</sup> September 2020

- 9) Thasleena KK attended National e-Quiz on “ Facts On Mosquito Borne Infections” organized by Department of Microbiology & IQAC, Safi Institute of Advanced Study (SIAS) as part of world mosquito day on 20<sup>th</sup> August 2020
- 10) Surur Jahan KK attended one month International Webinar Series On “Covid-19 & Its Impact On Women” organized by Department of Women’s Studies, University of Calicut , Kerala, in association with Indian Association For women Studies, from 15<sup>th</sup> September to 15<sup>th</sup> October
- 11) Seena P has attended two day national level webinar on “ Recent Trends In Biological Sciences” organized by Department of Biochemistry, Sree Narayana Guru College, Coimbatore, on 21<sup>st</sup> & 22<sup>nd</sup> May 2020
- 12) Seena P has participated in the webinar on “COVID - 19 Diagnosis: Fundamentals, Current Diagnostic Techniques & Future Directions’ jointly organized by the Department of Biochemistry and Internal Quality Assurance Cell of TKM college of Arts & Science College, Kollam on 12<sup>th</sup> September 2020
- 13) Seena P has participated in Internatinal webinar on “Advances In Cancer Research” organized by the Department of Biochemistry and Department of Bioinformatics in collaboration with IQAC, SAFI Institute of Advanced Study, Malapuram, on 11<sup>th</sup> July 2020
- 14) Seena P has participated in National webinar on “Laboratory Testing & Health: Covid-19 Pandemic” organized by ACBM & PIET , Nagapur, on 18<sup>th</sup> July 2020
- 15) Seena P has participated in National webinar on “National Educational Policy 2020” organized by Unnat Bharat Abhiyan (UBA) Cell and IQAC, Rai University, Ahmedabad on 16<sup>th</sup> October 2020.
- 16) Arifa PP has participated in online survey conducted to test the awareness for “Nanotechnology: A potential multifunctional platform of cancer therapy” as part of a virtual project on 21-8-2020
- 17) Arifa PP has participated in the Online Workshop on Instrumental Techniques for Material Analysis organized by Research and Post Graduate Department of Chemistry in association with Research Facilitation Centre, MES Keveeyam College, Valanchery from 10<sup>th</sup> - 13<sup>th</sup> August 2020.
- 18) Arifa PP has participated in the 26<sup>th</sup> International conference of International Academy of Physical Sciences on “ Recent Advances In Biotechnology, Bioinformatics And Biochemistry” held at Sam Higginbottom University of agriculture ,technology and sciences, Prayagraj during December 18-20,2020.

19) Seena P has attended a webinar on “Research Methodology And Statistical Data Analysis” organized by Research Committee of Sree Narayana Guru College on 28<sup>th</sup> January 2021.



## SAFI INSTITUTE OF ADVANCED STUDY (SIAS)

(AFFILIATED TO UNIVERSITY OF CALICUT)  
RASIYA NAGAR, VAZHAYOOR EAST P.O, MALAPPURAM- 673653, KERALA  
CONTACT NO. - 04832880000, WEBSITE- www.siasindia.org



### Certificate of Participation

This is to certify that

Thasleena K.K.

has participated and qualified the National level E Quiz on Facts on Mosquito borne infections, organized by the Department of Microbiology and IQAC, SAFI Institute of Advanced Study, as part of the World mosquito day on 20th August, 2020

DR. SHAINY NK  
IQAC COORDINATOR

MS. FARHA BARAMY  
HOD, MICROBIOLOGY

PROF. E.P. IMBICHIKOYA  
PRINCIPAL



Association of Clinical Biochemists and Microbiologists (ACBM)  
And  
Priyadarshini Institute of Engineering and Technology (PIET),  
Nagpur



### Certificate of Participation

This is to certify that Dr./Mr./Ms **SEENA P** has participated in the  
National webinar on "*Laboratory Testing & Health : Covid -19 Pandemic*" held on 18<sup>th</sup>  
July 2020 from 3 to 5 pm .

Dr. Ajay Soni  
President  
ACBM

Dr. Vivek Nanoti  
Principal  
PIET

Dr. Alpa J Dherai  
Coordinator  
ACBM

Dr. Manju Soni  
HOD (Dept. Of  
Biotechnology) PIET





Figure 3: Copies of Certificates of Faculty attended seminars

## DETAILS OF FDP ATTENDED BY FACULTIES

- 1) All the department faculties (Seena , Arifa, Thasleena, Jaseela, Surur Jahan, Harsha & Deepika) successfully completed FDP on “Pedagogical Approaches & Digital Tools For Effective Teaching-Learning” Conducted by IQAC of MES KEVEEYEM College under UGC Paramarsha scheme in association With Kerala State Higher Education Council from 3-7 August 2020
- 2) Seena P has successfully participated in two days FDP on “Quantitative & Qualitative Research” organized by Department of Commerce & Research Committee of Sree Narayana Guru College, Coimbatore on 6<sup>th</sup> & 7<sup>th</sup> June 2020
- 3) Seena P has successfully participated in six days online FDP on “ Faculty Development Programme On Research Methods And Techniques” organized by Department of Science, School Of Arts, Science & Commerce, Center for Research and Development (CRD) & IQAC, Rai University, Ahmedabad, held on 14<sup>th</sup> -19<sup>th</sup> September 2020
- 4) Seena P has actively participated in the National Level Virtual Faculty Development Programme on “NAAC PROCESS ON QUALITY ADVANCEMENT” organized by IQAC of Sree Narayana Guru College in collaboration with IQAC of Bharathiar University, Coimbatore from 11<sup>th</sup> - 18<sup>th</sup> December 2020
- 5) All the faculties of Department participated in a one day Faculty Empowerment Programme “Developing Next Generation Teachers” organized by Markaz Arts and



Science College, in association with MES KEVEEYAM College, Valanchery, under UGC Paramarsh Scheme on 6<sup>th</sup> February 2021.



Figure 4: Certificate copies of faculty attended FDPs

## DETAILS OF STUDENTS ATTENDED PROGRAMMES

- Shamila Shirin of final year DC has successfully completed the training “Basics of COVID -19 (Malayalam Course) on 11<sup>th</sup> May 2020 organized by Department of Personnel & Training, DIKSHA, Govt. Of Kerala
- Shadia N and Sameeha Hadeeya participated in state level webinar on “Environmental Biochemistry & Toxicology” as a part of World Environment Day organized by Department of Zoology, Vimala College ,Thrissur on 6<sup>th</sup> June 2020
- Rifna Fathima M, Shifana Thasni V & Shifanath T of final year UG attended the webinar on “Role Of Youth In Preventing Child Abuse” organized by Childline Malappuram & Mark’Us alumni Association in collaboration with IQAC, Markaz Arts & Science College, on 25<sup>th</sup> July 2020
- Sameeha Hadeeya and Nakheeba Nargees participated in Covid 19 Awareness Online Quiz organized by PG Department Of Computer Science, Ideal College For Advanced Studies on 5<sup>th</sup> August 2020
- Rifna Fathima , Shifana, Riswana, Sajila, Shehala,Mumthaz, Thanveer Banu, Shifanath,Rahmath, Jumana, Ansila & Nayana of final year UG participated and qualified the National level E Quiz on Facts on Mosquito borne Infections, organized by the Department of Microbiology and IQAC , SAFI Institute Of Advanced Study, as part of the World Mosquito Day on 20<sup>th</sup> August 2020
- Muhammed Al Ghazi of first year PG successfully completed the one month online training on Computer Aided Drug Designing from 28<sup>th</sup> September to 28<sup>th</sup> October 2020 organized by Uni Biosys Biotech Research Labs, Kalamassery.



### **CERTIFICATE**

OF PARTICIPATION

THIS CERTIFICATE IS PRESENTED TO

Rifna Fathima m

FOR ATTENDING THE WEBINAR

#### **ROLE OF YOUTH IN PREVENTING CHILD ABUSE**

Organized by Childline Malappuram & Mark'Us Alumni Association  
in collaboration with IQAC, Markaz Arts & Science College, Athavanad

Date: 25 July 2020



Childline Malappuram  
Mark'Us Alumni Association  
IQAC Markaz Arts & Science College, Athavanad





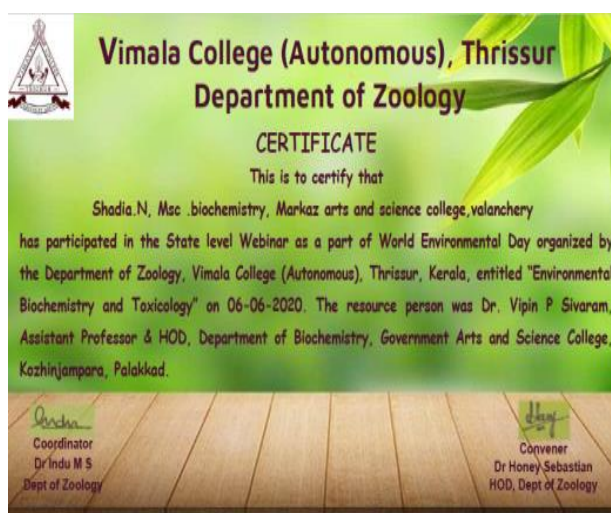


Figure 5: Certificates of students attended programmes

## DETAILS OF DEPARTMENT ACTIVITES

### 1) WEBINAR DETAILS

- PG Department of Biochemistry organized a one day **National webinar** on ‘**COMPUTATIONAL BIOCHEMISTRY**’ on 06<sup>th</sup> May 2020. Resource Person was Dr.Moni Philip Jacob, Assistant professor, Department of Biotechnology, Bannari Amman Institute of Technology, Sathyamangalm, Erode.

The programme was started with the Welcome address by Seena P. (HOD, Department of Biochemistry). Dr. C. P. Mohamed Kutty, Principal, Markaz Arts and Science College delivered his inaugural address. The resource person Dr. Moni Philip Jacob presented his topic on “Computational biochemistry”. The programme ended with the vote of thanks by Arifa PP, Assistant professor, Department of Biochemistry.



Figure 6: Programme brochure

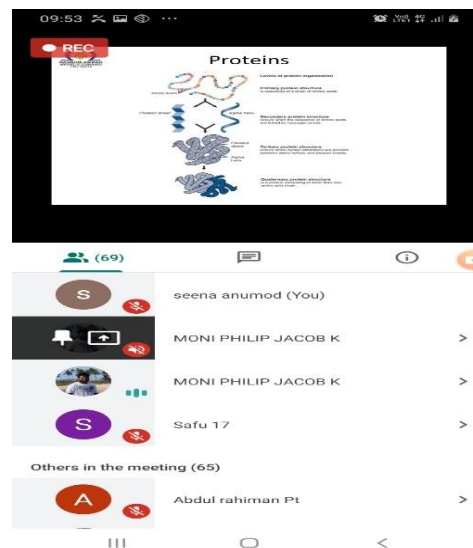


Figure 7: Programme screenshot

- PG Department of Biochemistry organized a one day **International webinar** on ‘**NOVEL TOOLS OF MOLECULAR BIOLOGY IN THERPEUTICS AND MOLECULAR BREEDING**’ on 05<sup>th</sup> September 2020. The webinar was conducted in 2 sessions with 2 resource persons. First session topic was “RNA-A Promising Molecule in Therapeutics” and the resource person was Dr. Sudheesh A.P. (Junior Scientist, Jackson Laboratory for Mammalian Genetics, Bar Harbor, Maine, USA.

First session started at 8.45am. Seena P, HOD, Department of biochemistry delivered the welcome address. The programme was inaugurated by honourable principal Dr.CP Mohamed Kutty. Nayana sharin, student third year biochemistry had given her feedback on the session. The session was ended with the vote of thanks by Arifa P.P., Assistant professor, Department of Biochemistry.

The second session started by 1.45pm. The session was hosted by Deepika C., Assistant Professor, Department of Biochemistry. The topic in the second session was “Genome edition in *Solanaceae*- Applicable tools for Molecular Breeding of Medicinal Plants” delivered by Dr. J. Anitha, (Research Professor). The session focussed on the recent trends in molecular breeding of medicinal plants. She discussed her studies on *Solanaceae* species and the tools used in molecular breeding of plants. Mohammed Al Ghazi, Former student Department of Biochemistry had given his feedback on the session. The session was ended with the vote of thanks by Suroor Jahan K.K., Assistant professor, Department of Biochemistry.



**MARKAZ ARTS AND SCIENCE COLLEGE, ATHAVANAD**  
(Affiliated to University of Calicut)  
Karthala p.o., Athavanad,  
Malappuram, Kerala- 679553

**PG DEPARTMENT OF BIOCHEMISTRY PRESENTS**  
AN INTERNATIONAL WEBINAR ON  
*Novel Tools of Molecular Biology in  
Therapeutics and Molecular Breeding*

Resource Persons :

**DR. SUDHEESH A. P.**  
JUNIOR SCIENTIST  
THE JACKSON LABORATORY  
FOR MAMMALIAN GENETICS  
BAR HARBOUR, MAINE, USA  
@9 a.m.

**DR. J. ANITHA**  
RESEARCH PROFESSOR  
PLANT DEVELOPMENT  
AND PHYSIOLOGY  
WONKWANG UNIVERSITY  
REPUBLIC OF KOREA  
@2 p.m.

**SEPTEMBER 05, 2020**

For More Info  
email: [biochemistry.markaz@gmail.com](mailto:biochemistry.markaz@gmail.com)  
phone: 9946669072

Figure 8: programme brochure

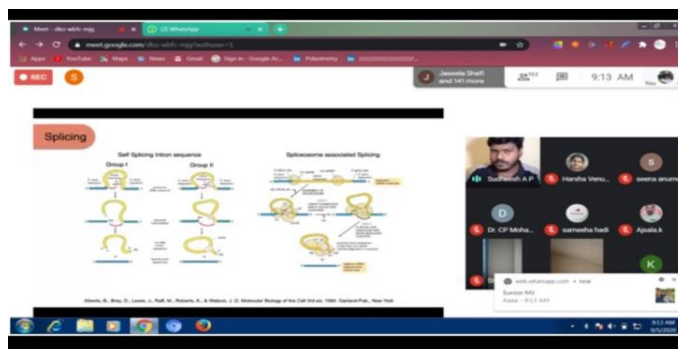


Figure 9: session 1 screenshot

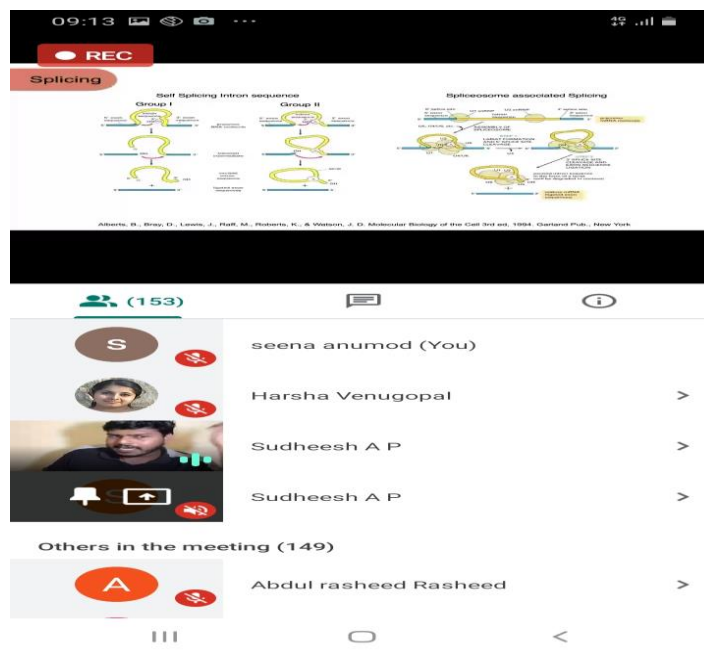


Figure 10: session 2 screenshot

- PG Department of Biochemistry organized a one day **National webinar** on ‘APPLICATION OF OZONE TECHNOLOGY IN FOOD INDUSTRY’ on 27<sup>th</sup> September 2020. Resource Person was Dr. Hariprasad P, M.Sc., M. Phil., PhD., Assistant manager, Quality Assurance (water), Suguna Foods Pvt. Ltd., Coimbatore

The programme was started at 12 pm. The programme was hosted by Maria Hashimi CK., student, 2<sup>nd</sup> year M.Sc. Biochemistry. The programme was started with the Welcome address by Seena P. (HOD, Department of Biochemistry). Dr. C. P. Mohamed Kutty, Principal, Markaz Arts and Science College delivered his inaugural address. The resource person Dr. Hariprasad P., presented his topic on ‘Application of Ozone Technology in Food Industry’. . Muhsina Farisa, student second year M.Sc. biochemistry had given her feedback on the session. The session was ended with the vote of thanks by Deepika C., Assistant professor, Department of Biochemistry.



Figure 11: programme brochure

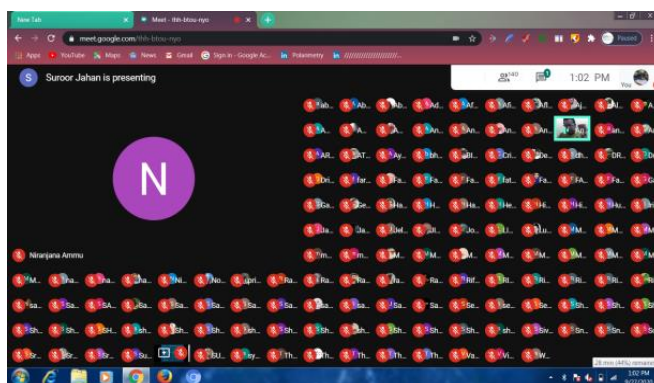


Figure 12: screenshot 1

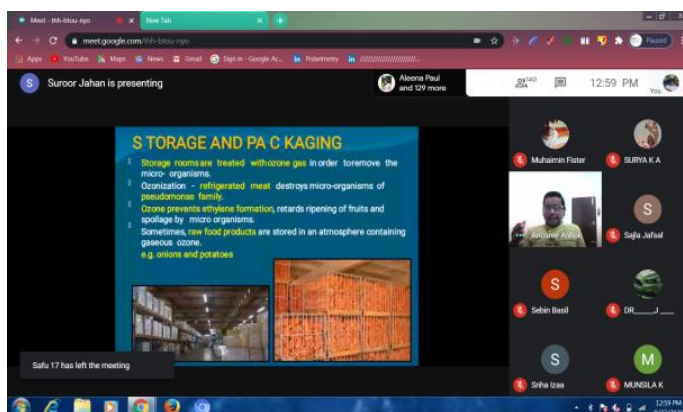


Figure 13: screenshot of the programme

- PG Department of Biochemistry organized a one day talk on “**Health Awareness With Ayurveda During global pandemic**” for the local people of Markaz adopted village on 13<sup>th</sup> November 2020. The resource person was Dr. Muhammed Safer PI, MD (Ay), Assistant Professor, Department of Swasthawritha, VPSV Ayurveda College, Kottakkal.

The session was hosted by Harsha V, Assistant Professor, Biochemistry Department. Welcome address was given by Mrs. Seena P, HOD, Biochemistry Department. Introduction to chief guest was given by Suroor Jahan KK, Assistant Professor, Biochemistry Department. The session was very informative. Many local people of Karthala village attended the programme, including ward counselor and asha worker. Vote of thanks was quoted by Mrs. Arifa PP, Biochemistry Department Secretary.

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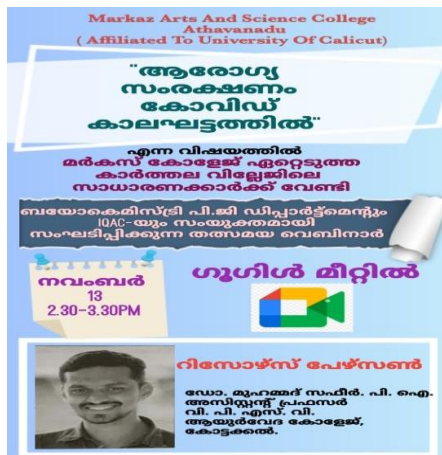
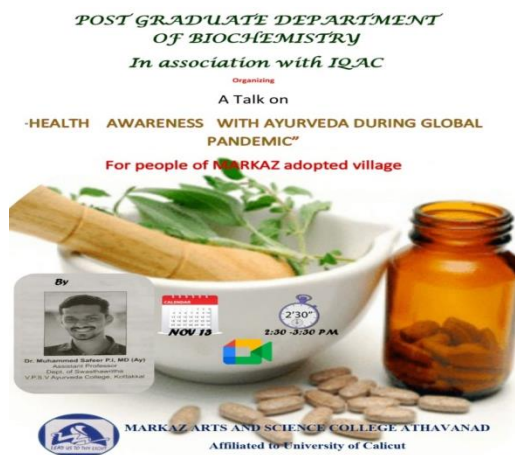


Figure 14: brochures (Malayalam and English ) for the programme

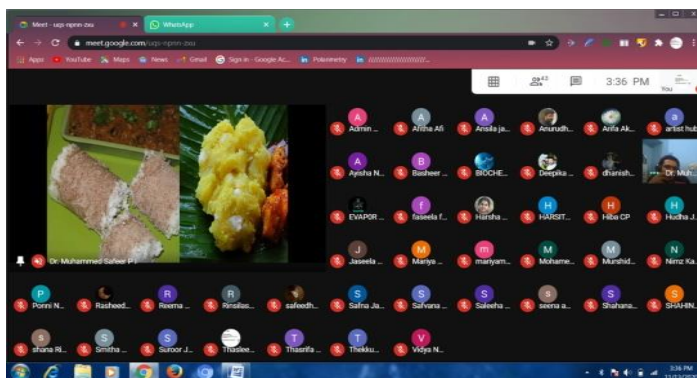


Figure 15: screenshot of the programme

- As a part of online Skill Enhancement Programme (SEP) series 1, organized by markaz Arts & Science College, PG department of Biochemistry conducted a talk on the topic **“Tools and Techniques for deciphering biosynthetic pathways”** on day 2 ( 27<sup>th</sup> November, Friday) at 2.30PM.

The session was hosted by Harsha V, Assistant Professor, Biochemistry Department. Welcome address was given by Mrs. Arifa PP, Biochemistry Department Secretary. Mrs. Seena P, HOD, was the chair of the session. Introduction to chief guest was given by Thasleena KK, Assistant Professor, Biochemistry Department. Feedback was given by Suroor Jahan KK, Assistant Professor of Biochemistry Department. Vote of thanks was delivered by Mrs. Jaseela KP, Assistant Professor, Biochemistry Department.



Figure 16: programme brochure

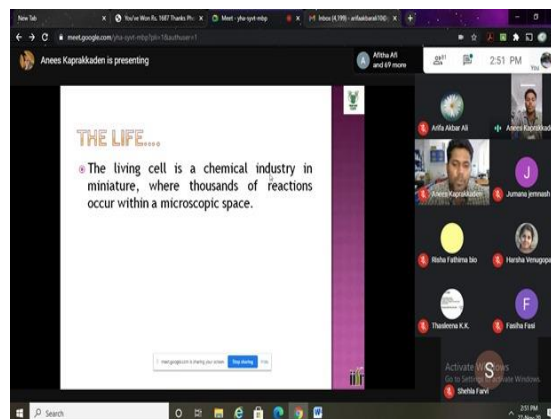


FIGURE 17: screenshot of the programme

## 2) PHOTOGRAPHY COMPETITION

PG Department of Biochemistry organized an Intercollegiate PHOTOGRAPHY COMPETITION on Global Hand Washing Day (15<sup>th</sup> October 2020). The theme was **"HAND HYGIENE FOR ALL"**. The 1<sup>st</sup> and 2<sup>nd</sup> place winners were awarded a cash prize of Rs. 500 and Rs. 300 respectively. First prize winner was Anshin paul of MES Asmabi College and second prize winner was Viswarag PV of Al Shifa College Of Paramedical Science.

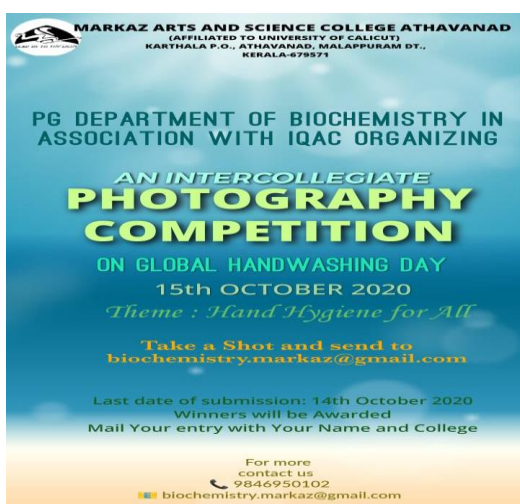


Figure 18: programme brochure



Figure 19: 1<sup>st</sup> prize

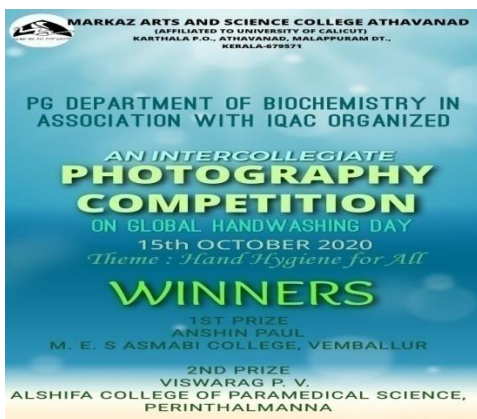


Figure 20: winners brochure



Figure 21: 2<sup>nd</sup> prize

### 3) NATIONAL SCIENCE DAY PROGRAMMES

#### ➤ Day 1; session 1: Webinar:

Department has organized many programmes from 25<sup>th</sup> February to 27<sup>th</sup> February 2021 related to National Science Day. On 25<sup>th</sup> February (Day 1) session1 was a webinar on “Principle And Application Of UV-VIS Spectrophotometer” by Mr. R Girijan Menon , Consultant Product Support , Toshvin Analytical Pvt Ltd, Mumbai. The session was very informative. All the PG students and final year degree students attended the session.

#### ➤ Day 1; session 2: Hands on Training:

Hands on training were provided to first year PG and final year year UG students on the “Working of UV-VIS Spectrophotometer (Shimadzu -1900)” by Mr.M.Chidamparapandian, Senior Service Executive, Toshvin Analytical Pvt Ltd, Mumbai, on second session of Day 1. The demonstration session was excellent and the engineer always maintained easy and cool environment in the workplace because of which our students achieved a good knowledge about handling the instrument.

#### ➤ Day 2; Hands on Training:

Hands on training were provided to first year PG and final year year UG students on the “Tools In Bioinformatics” by department faculties Mrs.Arifa PP and Mrs. Suroor Jahan KK. The session helped the students to understand about various biological databases. The students gained practical knowledge in different bioinformatical tools like BLAST, Rasmol, Clustal ω etc.

#### ➤ Day 3; Exhibition

An exhibition was conducted at Community Hall, Valanchery, in association with Valanchery Municipality, about the topic “ Diet Chart Of Different Age Groups and Therapeutic Diet”.

#### ➤ Day 3; Interactive Session




PG department of Biochemistry in association with Department of Microbiology jointly organized an interactive session on “Science In Everyday Life” by Dr. Mohammed Safer PI , MD (Ay), Department of Swasthawritha, VPSV Ayurveda College, Kottakkal at Community Hall, Valanchery, in association with Valanchery Municipality.



**POST GRADUATE DEPARTMENT  
OF BIOCHEMISTRY**

**NATIONAL SCIENCE DAY PROGRAMME**

**FEB 25 26 27**

<b>DAY 1 25 FEB 2021</b>	<p><b>Session 1 10:00 AM -12:0 PM</b></p> <p><b>WEBINAR ON</b> "PRINCIPLE AND APPLICATION OF UV-VIS SPECTROPHOTOMETER"</p>  <p><b>RESOURCE PERSON</b> <b>MR. R. GIRUJAN MENON</b> CONSULTANT PRODUCT SUPPORT TOSHVEN ANALYTICAL PVT LTD MUMBAI</p>
	<p><b>Session 2 1:00 PM -3:30 PM</b></p> <p><b>HANDS OWN TRAINING</b> "WORKING OF UV-VIS SPECTROPHOTOMETER"</p>  <p><b>RESOURCE PERSON</b> <b>MR. M. CHIDAMPARAPANDIAN</b> Sr. SERVICE EXECUTIVE TOSHVEN ANALYTICAL PVT LTD MUMBAI</p>
<b>DAY 2 26 FEB 2021</b>	<p><b>Session @ 1:00PM -3:30 PM</b></p> <p><b>HANDS OWN TRAINING</b> "TOOLS IN BIOINFORMATICS"</p> <p><b>SESSION HANDLED BY:</b> <b>ARIFA.P.P</b> <b>SUROOR JAHAN.K.K</b> FACULTIES DEPARTMENT OF BIOCHEMISTRY</p>
<b>DAY 3 27 FEB 2021</b>	<p><b>Session @ 12:00 PM</b></p> <p><b>INTERACTIVE SESSION ON</b> "SCIENCE IN EVERYDAY LIFE"</p>  <p><b>RESOURCE PERSON</b> <b>DR. MUHAMMED SAFEER.P.L. MD(AY)</b> DEPT. OF SWASTHAWRITHA V.P.S.V AYURVEDA COLLEGE, KOTTAKKAL</p>


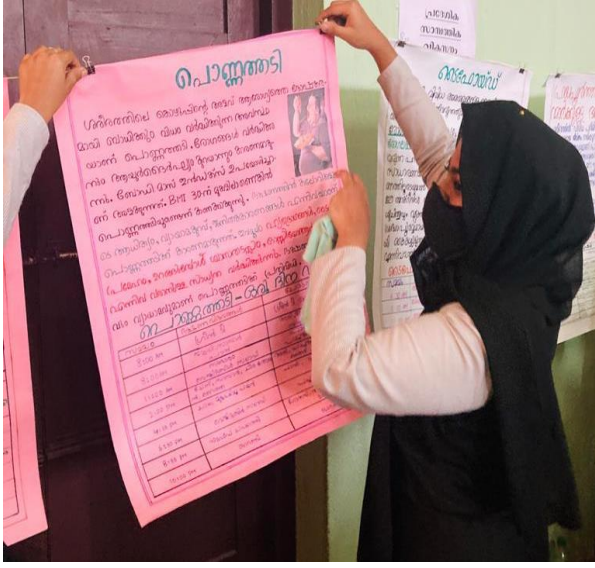

**MARKAZ ARTS AND SCIENCE COLLEGE, ATHAVANAD**  
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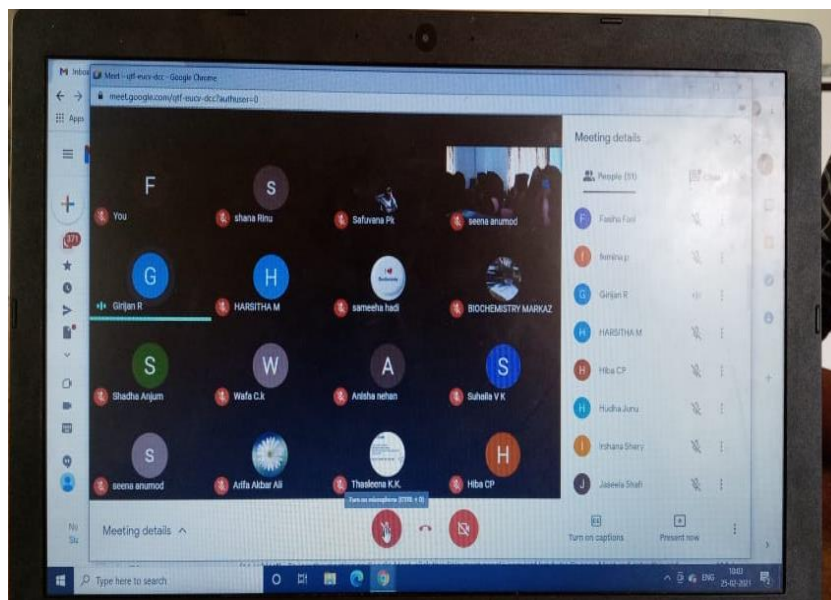
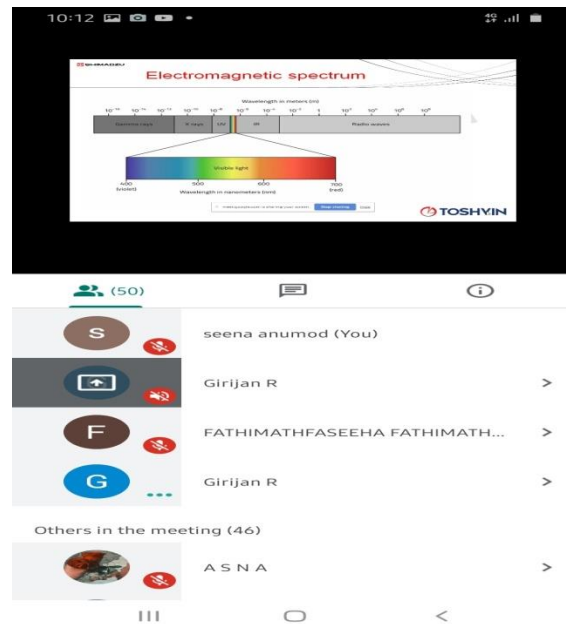
Fig 22: brochure of National Science Day



Fig 23: Photos of National Science Day Programmes







**Fig 24: National Science Day Program Photos**

## 4) OTHER ACTIVITIES

### ➤ SURVEY ON COVID'19 IMPACT

An online survey was conducted by students of third year biochemistry on the recent pandemic spread on covid'19. The students in the class were grouped into 4. Each group had 6 members. They had found four different topics. The group members made a survey form with Google forms. They started the online survey on 1/9/2020. The duration of survey was 20 days. The forms were forwarded through online platforms. They collected the responses and evaluated the responses. The topics were – “COVID 19-MENTAL ILLNESS AND FINANCIAL CRISIS, COVID 19-KNOWLEDGE AND PSYCHO SOCIAL IMPACT, IMPACTOFCOVID19 IN EDUCATIONAL FACILITIES AND

## UNEMPLOYMENT & KERALA GOVERNMENT'S SAFETY MEASURES ON COVID'19 & PUBLIC HEALTH'.

### ➤ HONOURING CEREMONY (24/9/2020)

PG Department of Biochemistry conducted a programme to honour the University rank holders on 24<sup>th</sup> September 2020. FATHIMA THESNI secured 2<sup>nd</sup> rank, while MOHAMED AZL GHAZI secured 11<sup>th</sup> rank in the university examination. The programme held at MMC hall in presence of management, staff members and parents. The welcome speech was delivered by K.M.Abdul Gafoor, superintendent, Markaz Arts and Science College. The felicitation address had given by the eminent persons presented on the stage, including management representatives, Principal, Dr.C.P. Mohamed Kutty., and Dr. Rajesh, Principal, MES KEYVEEYEM College. Winners were awarded trophies on the behalf of college and PTA. They were also awarded subject oriented text book by Department of Biochemistry as token of appreciation. The programme concluded with vote of thanks by Seena P., HOD, Department of Biochemistry.



Fig 25: photographs of honoring ceremony of rank holders of University Examinations



➤ **PROFICIENCY AWARD DISTRIBUTION CEREMONY**

Markaz college in association with PTA conducted a program to distribute proficiency award for the excellent students of final year UG and PG on 29/03/2021 at MMC hall at 11.30 am. Vice Principal Mr.Mohammed Shafi CC welcomed the gathering and the session was presided by respected Principal Dr. CP Mohammed Kutty. The session was inaugurated by General Secretary of Markaz Trust Mr.Adressary HamsaKutty Musliyar.

Mumthaz V of final year B.Sc. Biochemistry and Shadia N of 4<sup>th</sup> semester PG have got the proficiency from Biochemistry Department. Cash prizes and mementos were given to the winners by General Secretary. The occasion was graced by PTA Executive Members – Mr.Mujeeb Thrithala and Sidique Wafy – and other distinguished guests and parents. Award ceremony was winded up by the vote of thanks delivered by Mr.Sidique Wafy.



Figure 16: PTA programme presidential address by Principal



Figure 27: proficiency prize distribution Mumthaz of final UG



Figure 28: proficiency prize distribution to Shadia N of PG

## DETAILS OF PTA MEETING

PTA meetings were conducted for all the batches. The odd semester meetings were conducted via Google meet platform in the online mode. 3<sup>rd</sup> semester meeting was on 14/09/2020, Monday at 4 PM. 5<sup>th</sup> semester meeting was held on 15/09/2020, Tuesday at 2PM. 3<sup>rd</sup> semester PG meeting was on 16/09/2020, Wednesday at 2 PM. An online meeting was conducted for first semester B.Sc. Biochemistry on the first day of the commencement of their classes (3/11/2020, Tuesday) to give a detailed idea about course outcome and rules of college. Similarly a PTA meeting was conducted for 1<sup>st</sup> semester PG on 25/11/2020. Offline PTA meeting was conducted in the even semester for all classes in the following dates – 17/12/2020 (Thursday) 1<sup>st</sup> year UG, 14/01/2021 first year PG, 25/01/2021 final year UG, 01/02/2021 final year PG, 24/02/2021 second year UG. An offline PTA meeting was conducted for First year B.Sc. Biochemistry on 29/03/2021 (Monday) at 10am at MMC Hall.

Thus a total of 11 PTA meetings were conducted in the academic year 2020-2021, of which five were via online mode and six were on offline mode.

## ALUMNI ASSOCIATION PROGRAMME DETAILS

Alumni meet up programs were conducted by six different batches via online mode.

PG Department of Biochemistry in Association with Mark'Us Alumni Association Conducted a talk on **“RECENT TRENDS IN NUTRITION”** on 21<sup>st</sup> September 2020. **Murshid V.**, an Alumnus Markaz Arts and Science College, was the eminent person to deliver the talk. Murshid V. Is currently working as Nutritionist, NRC, Govt. Hospital Sholayur, Palakkad. The programme started @2pm with the welcome address by Thasleena K.K., Department Alumni coordinator. Seena P., HOD, Department of biochemistry delivered the Inaugural address. The resource person Murshid V., presented his topic on ‘Recent trends in nutrition’. Resource person gave a detailed explanation on Scope of nutrition, recent trends, Courses related to nutrition, Institution that providing the nutrition courses, the field of Nutrition in India and other countries and Malnutrition in Children and pregnant women. Students cleared their queries with the resource person. The programme ended with the vote of thanks by Jaseela K.P. Alumna as well as Assistant professor, Department of Biochemistry.



Figure 29: Programme brochure

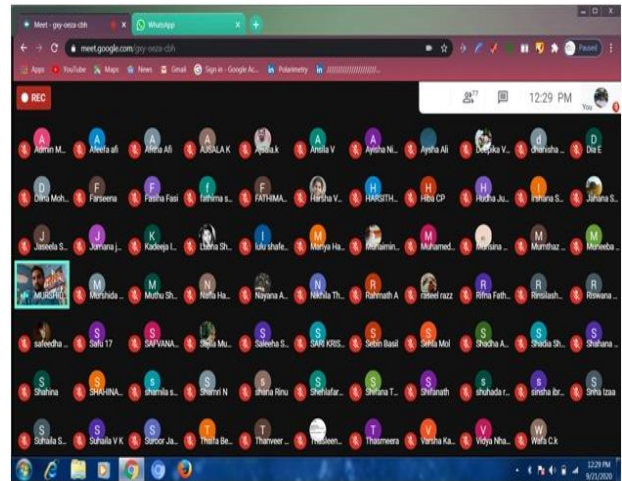
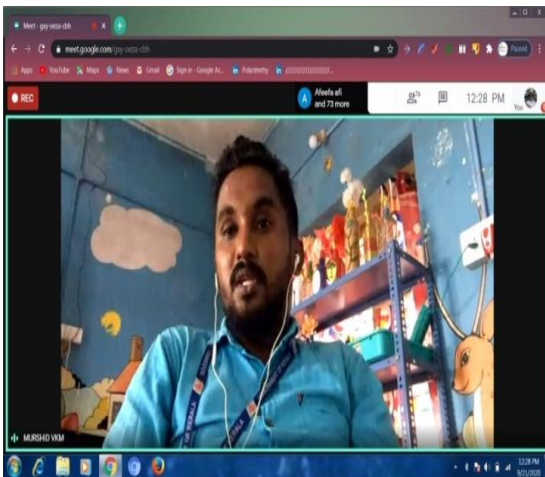


Figure 30: screenshot of programme

### CERTIFICATE COURSE

Department decided to provide an add-on course for the students on the topic “Health, Nutrition and Lifestyle Diseases”. Along with Department Faculties, Mr. Murshid V, Nutritionist, NRC, Govt. Hospital, Sholayur, Palakkad, was a member of Board Of Studies and set the syllabus for the course. The inauguration of course was done by Mr. Murshid V on 6<sup>th</sup> March 2021. The speaker explained well about the diet and lifestyle during this pandemic condition. He explained the most common causes of life style diseases and made aware the students that the complications of lifestyle disorders become highly serious if unattended on time and may need a prolonged treatment procedure.



Figure 31: brochure of program

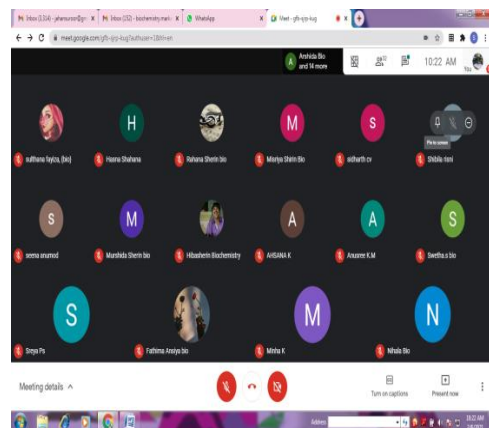


Figure 32: screenshot of program

Mr. Murshid took a class for the first year students on 20<sup>th</sup> March 2021, Saturday and explained well about nutrition, malnutrition, diet and life style diseases. He engaged the session for two and half hours.





Figure 33: photo of certificate course class taken by Mr. Murshid

## EXTRA AND CO-CURRICULAR ACTIVITIES

### ➤ NSS

NSS volunteers of second year B.Sc. Biochemistry attended a seven day virtual camp “PRAYANA 2020” from 22<sup>nd</sup> to 28<sup>th</sup> December 2020. The attended students are Aysha Nihala, Huda. Shadha Anjum, Safuvana PK, Suhaila VK and Lubna Shahnaz.



Figure 34: screenshot of “PRAYANA 2020”



Figure 35: brochure of “PRAYANA 2020”

The list of students selected for NSS from first year B.Sc. Biochemistry for the year 2021-22 camp are as follows; Sana, Hiba Sherin, Mohammed Munnavar and Sidharth.

### ➤ ARTS

Arts fest “JHALAK” was conducted in the college from 3<sup>rd</sup> March to 5<sup>th</sup> March 2021 by following COVID protocol. Many students from Biochemistry Department had participated

in various onstage and offstage items and secured first, second and third positions. The Department of Biochemistry bagged fourth position in the fest.

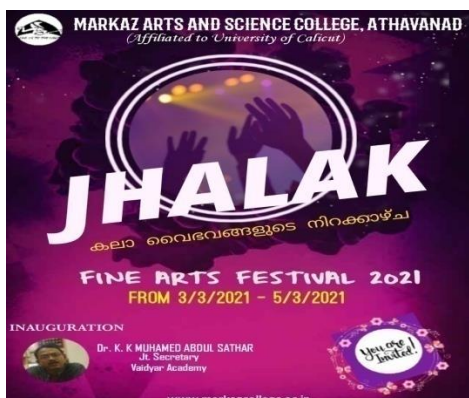


Figure 36: Programme brochure

NO	NAME	OFF STAGE	ON STAGE	TOTAL	PLACE
1.	BA FUNCTIONAL ENGLISH	33- <del>fourth</del>	25-FIRST	58	THIRD
2.	B.Sc. BIOCHEMISTRY	38- <del>third</del>	13-THIRD	51	4 <sup>th</sup>
3.	B.COM	15	10-FOURTH	25	
4.	BBA	-	-	-	-
5.	B.Sc. MICROBIOLOGY	62- <del>second</del>	13-THIRD	75	SECOND
6.	B.Sc. CHEMISTRY	70-FIRST	21-SECOND	91	FIRST
7.	B.Sc. PSYCHOLOGY	30	21-SECOND	51	4 <sup>th</sup>
8.	B.Sc. PHYSICS & B.SC.BOTANY	26	-	26	

Figure 37: Position chart

## ➤ WOMENS EMPOWERMENT PROGRAMME

Women Empowerment Cell had organized several programmes in the academic year 2020-2021. Almost all the girl students of Biochemistry Department had actively participated in the programmes. A Webinar On “Medicinal Plants In Common Health Care” was conducted by Women Empowerment Cell on 9<sup>th</sup> September 2020 through Google Meet. Mr. Mahesh Kumar MK, Extension scientist, Extension Department, CMPR, Kottakkal was the Resource Person. All the second year students of Biochemistry Department attended the programme.

Second year students from Department of Biochemistry was participated in the Awareness Class On ‘Life Is Beautiful’ On International Day Of The Girl Child conducted by Women Empowerment Cell Programme on 11<sup>th</sup> October 2020. Mr.CP Saleem, District Coordinator, Childline, Malappuram was the Resource Person and he did a great talk on how to prevent common problems facing by girls especially children.

First year students from Department Of Biochemistry were participated in a Webinar On "Kswdc Schemes And 'Reach' Programme" conducted by The Kerala State Women's Development Corporation Ltd (KSWDC) In Association With Women Empowerment Cell, on Women Entrepreneurship Day-19<sup>th</sup> November2020.

Third year girl students of Department Of Biochemistry attended One day workshop on ‘Women Safety- Self Defense For Womens’ by District Police, Malappuram in association with Women Empowerment Cell on 30<sup>th</sup> January 2021.

On 26<sup>th</sup> February 2021, a training on ‘Umbrella Making’, were conducted by Women Empowerment Cell .Six students from first year biochemistry were participated.

On International Womens Day (March 8 2021) a seminar was conducted in association with ICDS Project, Kuttipuram (Additional). 1<sup>st</sup> Year PG students from Department of

Biochemistry attended the programme. Programme was inaugurated by Smt. K.V. Rabiya, UN Award Winner for Social Work.

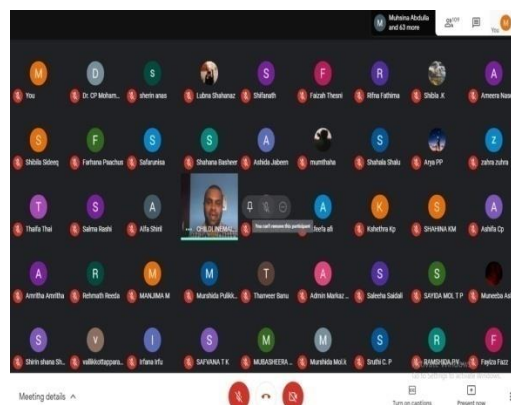


Figure 38: screenshot of webinar on medicinal plants in common health care

Figure 39: screenshot of webinar Life Is Beautiful



Figure 40: screenshot of umbrella making

Figure 41: screenshot of womens day programme

## INNOVATIVE ACTIVITIES

Students of Biochemistry Department attended a webinar on “implementation Of Social Enterprise Businesses” by B Sharath Chandra Naveen Kumar , chief Programme Coordinator, SAP Action Plan, MGNCRE 2020, Department of Higher Education, Government of India. As part of the Entrepreneurship Development club of our college, Biochemistry Department decided to create and present some aesthetic products which are completely handmade. These are mainly used for decoration and presentation purposes. The handmade products that we introduce are created with a combination of certain designs, colors, papers and some kind of decorative elements. A team of three students form 1<sup>st</sup> year B.Sc. Biochemistry was the organizers. Ayisha Farsana , was the team leader. “AIZAH ART” was the name given for the project.





Figure 42: logo of AIZAH ART



Figure 43: competition winners

**Ayisha Farsana** of first year Biochemistry was selected along with other two students from the institutional competition of Social Entrepreneurship Development. She presented her topic for Social Entrepreneurship National level competition on 22<sup>nd</sup> March 2021.

### DETAILS OF MOU

Department of Biochemistry has signed three MoU's with different Institutions in this academic year. The details were as follows;

- 1) MoU with Kerala Agriculture University , Mannuthy
- 2) MoU with AMPLICON BIOLABS ,KINFRA, Kakkanchery
- 3) MoU with ALBIO TECHNOLOGIES, Kochi



Fig 44: MoU with kAU





**MEMORANDUM OF UNDERSTANDING BETWEEN ALBIO TECHNOLOGIES, KOCHI & DEPARTMENT OF BIOCHEMISTRY, MARKAZ ARTS AND SCIENCE COLLEGE, ATHAVANAD, FOR CO-OPERATION IN THE FIELD OF ACADEMIC RESEARCH & SKILL DEVELOPMENT TRAINING**

This memorandum of understanding made on this March 2021 between ALBIO TECHNOLOGIES, KOCHI (hereinafter referred to as ALBIO) and DEPARTMENT OF BIOCHEMISTRY, MARKAZ ARTS AND SCIENCE COLLEGE, ATHAVANAD, (hereinafter referred to as Dept.) witnesses as follows:  
RECOGNISING the mutual interest in the field of research & development, Skill development training, transfer of technology and dissemination of knowledge to the students of Dept on a long term basis HEREBY agree to establish collaboration according to terms and condition set out in the article following hereunder.

Handwritten signatures and a blue circular stamp dated 26 FEB 2021.

**MEMORANDUM OF UNDERSTANDING**

On this 3<sup>rd</sup> day of March 2021  
Between  
**DEPARTMENT OF BIOCHEMISTRY  
MARKAZ ARTS AND SCIENCE COLLEGE,  
ATHAVANAD  
AND**

**AMPLICON BIOLABS, KINFRA, KAKKANCHERY,  
CALICUT UNIVERSITY(P.O), MALAPPURAM  
KERALA, 673635.**

Handwritten signatures and a blue circular stamp dated 26 FEB 2021.

**Fig 45: MoU with ALBIO LABS & AMPLICON LABS**

**DETAILS OF IV CONDUCTED**

Final year degree students went for an Industrial Visit to Horticulture Research Institute, Kodaikkanal, on 31/03/2021. 19 students from final year accompanied by Fathimath Faseeha, faculty of Biochemistry, went for IV.



**Fig: 46: Final year degree students in front of Horticulture Research Institute, Kodaikkanal**

