

**POST GRADUATE DEPARTMENT OF CHEMISTRY**  
**K A H M UNITY WOMEN'S COLLEGE, MANJERI**  
**ANNUAL REPORT 2020-'21**

**STAFF**

There are four permanent teachers, five guest lecturers and two non-teaching staff in the department.

**Permanent Faculty**

Sl. No.	Name	Qualifications	Present position
1	Dr. Muhammed Basheer Ummathur	M.Sc., B.Ed., Ph.D.	Associate Professor and Head
2	Dr. P. Jyothi	M.Sc., Ph.D.	Associate Professor
3	Dr. Deepa K	M.Sc., B.Ed., M.Phil., Ph.D.	Assistant Professor
4	Mrs. Suhada KM	M.Sc.	Assistant Professor

**Guest Faculty**

Sl. No.	Name	Duration
1	Mrs. Najeera PC	23-11-2020 to 31-03-2021
2	Dr. Jamsheena V	01-06-2020 to 31-03-2021
3	Dr. Nabeela Kallayi	05-11-2020 to 31-03-2021
4	Mrs. Anju Raveendran	02-11-2020 to 31-03-2021
5	Mrs. Shifna P	23-11-2020 to 31-03-2021

**Non-Teaching Staff**

Sl. No.	Name
1	Mr. Moideen kutty AP
2	Mr. Abdul Nasar TM

**INVOLVEMENT IN CURRICULUM DESIGN: UNIVERSITY LEVEL**

**Dr. Muhammed Basheer Ummathur**

- Member of the Board of Studies (UG & PG) in B. Sc. & M. Sc. Chemistry of Farook College (Autonomous).
- Subject expert in the steering and evaluation committee nominated by the University of Calicut for the placement and promotion of Assistant Professors. Attended the evaluation committee meeting for the following teachers; Dr. Bijudas K, Assistant Professor, NSS College, Manjeri on 17<sup>th</sup> July 2020; Dr. Manu and Dr. Nisha Nandakumar of Sri Vyasa NSS College, Vadakkanchery on 20<sup>th</sup> August 2020; Ms. Harsha Paul, Ms. Memsy CK, Dr. Priya Varma C, Ms. Taniya Antony and Dr. Divya K Nair of Mercy College, Palghat on 21<sup>st</sup> August 2020; Dr. Rafeeqe P of Farook College on 26<sup>th</sup> August 2020.

### **Dr. P. Jyothi**

- Member of the Board of Studies (UG) in B. Sc. Chemistry of University of Calicut.
- Member of the Board of Studies (UG & PG) in B. Sc. & M. Sc. Chemistry of DGM MES Mampad College (Autonomous).

### **SEMINARS ORGANIZED**

PG Department of Chemistry conducted an International Webinar Series on “Novel Areas of Chemical Research” on 3<sup>rd</sup>, 10<sup>th</sup> and 17<sup>th</sup> October 2020. Dr. P. Jyothi and Dr. Jamsheena V were the coordinators of the Programme. The webinar was inaugurated by Dr. A. I. Yahya, *Professor and Head, Department of Chemistry, University of Calicut*. The external Resource persons were

- Dr. Rabindran Jermy Balasamy, *Assistant Professor, Institute for Research and Medical Consultations, Imam Abdul Rahman Bin Faisal University, Saudi Arabia*.
- Dr. Silviya Elanthikkal Abdulrahman, *Assistant Professor, Deanship of Scientific Research, Imam Abdul Rahman Bin Faisal University, Saudi Arabia*.
- Dr. Haseena Navas AP, *Head-Research and Development Enterplastics LLC, Dubai & Consultant Leading Scientist, Borouge Innovation Centre, Joint Venture of ADNOC and Borealis*.

PG students, Research Scholars and Faculty members of the Chemistry Department of various colleges attended the webinar.

### **PARTICIPATION IN SEMINARS/WEBINARS**

All the staff members participated in the following webinars.

<i>Sl. No.</i>	<i>Webinar/ Seminar</i>	<i>Theme/Title</i>	<i>Organizing Institution</i>	<i>Period</i>
1	Regional Webinar	Digitally Transformed Educational Scenario	IQAC, KAHM Unity Women’s College, Manjeri	7 <sup>th</sup> August 2020
2	Regional Webinar	‘How to Conserve Our Environment’	PG Department of Chemistry, KAHM Unity Women’s College, Manjeri	18 <sup>th</sup> September 2020
3	Regional Webinar	‘Rain, Water & Public Health’	PG Department of Chemistry, KAHM Unity Women’s College, Manjeri	20 <sup>th</sup> September 2020
4	International Webinar	‘Novel Areas of Chemical Research’	PG Department of Chemistry, KAHM Unity Women’s College, Manjeri	3 <sup>rd</sup> , 10 <sup>th</sup> & 17 <sup>th</sup> October 2020
5	State Level Webinar	Traditional Foods and Wellness	IQAC and PG department of Home Science, KAHM Unity Women’s College, Manjeri.	1 <sup>st</sup> November 2020
6	Regional Webinar	Homestead Farming	PG Department of Chemistry, KAHM Unity Women’s College, Manjeri	15 <sup>th</sup> November 2020
7	Open Debate	Does God favour a Gender	PG Department of Chemistry, KAHM Unity Women’s College, Manjeri	5 <sup>th</sup> February 2021

8.	Regional Seminar	Chemistry of Kitchen	PG Department of Chemistry, KAHM Unity Women's College, Manjeri	4 <sup>th</sup> March 2021
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**Dr. Muhammed Basheer Ummathur**

<i>Sl. No.</i>	<i>Webinar/ Seminar</i>	<i>Theme/Title</i>	<i>Organizing Institution</i>	<i>Period</i>
1.	International Webinar	Advanced Topics in Chemistry	Department of Chemistry, St. Joseph's College (Autonomous) Devagiri	25 <sup>th</sup> September & 14 <sup>th</sup> October, 2020
2.	International Webinar	Artificial Virus: Chemical Approaches Towards Gene Therapy Applications	Research and PG Department of Chemistry, MES Kalladi College, Mannarghat	27 <sup>th</sup> September 2020
3.	International Webinar	Career Prospects in Chemical Sciences: What, When, Where & How	Department of Chemistry Assumption College, Autonomous, Changanacherry, Kerala.	28 <sup>th</sup> September 2020
4.	Lecture Series	Inspiring thoughts in Chemical Sciences	Calicut Chemistry Collective (CCC)	3 <sup>rd</sup> October 2020
5.	International Webinar	Materials and Medicine	Department of Chemistry, Biochemistry & IQAC, MES Asmabi College, Kodungalloor	3 <sup>rd</sup> & 5 <sup>th</sup> October 2020
6.	International Webinar	How to Publish Scientific Papers: Why You Win or Lose	Department of Chemistry, Sree Narayana College for Women, Kollam, Kerala	31 <sup>st</sup> October 2020

**Dr. Jyothi P**

<i>Sl. No.</i>	<i>Webinar/ Seminar</i>	<i>Theme/Title</i>	<i>Organizing Institution</i>	<i>Period</i>
1.	Webinar	Awareness on Cyber Crimes	Women Cell of Mar Thoma College Chungathara	24 <sup>th</sup> August, 2020
2.	International Online FDP Programme	21 <sup>st</sup> Century Teaching Skills	PG department of Home Science, KAHM Unity Women's College, Manjeri.	27 <sup>th</sup> to 29 <sup>th</sup> July 2020
3	Regional Webinar	Culture & Society in Himachal Pradesh	EBSB Club, KAHM Unity Women's College, Manjeri.	20 <sup>th</sup> August 2020
4	Training Programme	Outcome Based Education	Pandit Madan Mohan Malavya National Mission, University of Calicut	15 <sup>th</sup> January 2021
5	Training Programme	Processing of Rubber Latex	Common Facility Centre, Rubber Board, Payyanad	1 <sup>st</sup> to 3 <sup>rd</sup> February 2021

**Dr. Deepa K**

<i>Sl. No.</i>	<i>Webinar/ Seminar</i>	<i>Theme/Title</i>	<i>Organizing Institution</i>	<i>Period</i>
1	Webinar	Gender Binaries and Screen Representations	PG and Research Department of English, Providence College for Women, Coonoor	8 <sup>th</sup> August 2020

2	Online Workshop	Instrumental Techniques for material Analysis	PG and Research Department of Chemistry, MES KEVEEYAM College, Valancheri	10 <sup>th</sup> -13 <sup>th</sup> August 2020
3	Webinar	Culture and Society in Himachal Pradesh	EBSB Club, KAHM Unity Women's College, Manjeri	20 August 2020
4	International Webinar	Smart Functional Materials	Government College, Kariavattam, Thiruvananthapuram	21 August, 2020
5	International Webinar	Pendemic and Resilience: Body Mind and Spirit	IQAC, KAHM Unity Women's College, Manjeri	9 <sup>th</sup> September, 2020
6	International Webinar	Nanotechnology for Energy Applications	PG and Research Department of Chemistry, DGMMES College, Mampad	12 <sup>th</sup> September 2020
7	Webinar	Catalysis in action: A Few Short Stories	Department of Chemistry, St. Joseph's College, Devagiri, Calicut	16 <sup>th</sup> September. 2020
8	International Webinar	Polymers in Tissue Engineering and Medicine	Department of Chemistry, St. Joseph's College, Devagiri, Calicut	25 <sup>th</sup> September, 2020
9	International Webinar	Artificial Viruses: Chemical Approaches Towards Gene Therapy Applications	PG and Research Department of Chemistry, MES Kalladi College, Mannarkkad.	27 <sup>th</sup> September, 2020
10	Webinar	Transnational Football and its Discontents	Dept. of History and Research Club of English, KAHM Unity Women's College, Manjeri	10 <sup>th</sup> October, 2020
11	International Webinar	Organic Chemistry: How Much We Mug Up?	Department of Chemistry, St. Joseph's College, Devagiri, Calicut	14 <sup>th</sup> October, 2020
12	Webinar	MRSI Thiruvananthapuram	University Chemistry Departments in Kerala	17 <sup>th</sup> October, 2020
13	International Webinar	Cholesteric Liquid Crystal Elastomers	Department of Chemistry, MES Ponnani College, Ponnani.	4 <sup>th</sup> February, 2021

**Mrs. Suhada KM**

<i>Sl. No.</i>	<i>Webinar/ Seminar</i>	<i>Theme/Title</i>	<i>Organizing Institution</i>	<i>Period</i>
1	Regional Webinar	Culture & Society in Himachal Pradesh	EBSB Club, KAHM Unity Women's College, Manjeri.	20 <sup>th</sup> August 2020
2	Training Programme	Processing of Rubber Latex	Common Facility Centre, Rubber Board, Payyanad	1 <sup>st</sup> to 3 <sup>rd</sup> February 2021
3	International Webinar	Cholesteric Liquid Crystal Elastomers	MES Ponnani College	4 <sup>th</sup> February 2021
4	Webinar	Forest & Water Day observation	Science Club, KAHM Unity Women's College, Manjeri	29 <sup>th</sup> March 2021

5	National Webinar	Carbon dioxide as a green solvent for chemical industry	St. Francis College for Women, Hyderabad	5 <sup>th</sup> May 2021
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### **Mrs. Najeera PC**

<i>Sl. No.</i>	<i>Webinar/Seminar</i>	<i>Theme/Title</i>	<i>Organizing Institution</i>	<i>Period</i>
1	National Webinar Series	Practicing Chemdraw, Origin and Mendeleey	Laxman Singh Mahar Post Graduate College, Pithoragarh, Utterakhand	08 <sup>th</sup> & 10 <sup>th</sup> August 2020
2	National Virtual Conference	Recent Advances in Analytical techniques	USERC, Utterakhand	August 16-17, 2020
3	International Virtual Conference	Modern instrumental and Characterisation techniques in applied science (MICTAS 2020)	USERC, Utterakhand	July 05-06, 2020
4	National Webinar	Nanotechnology for Energy Application	MES Mampad College	12 <sup>th</sup> September 2020

### **BOOKS WITH ISBN**

The Department published one book with ISBN by Dr. Muhammed Basheer Ummathur.

<i>Sl. No.</i>	<i>Name of Book, ISBN, Month and Year of Publishing, Publisher</i>	<i>Author</i>
1	<b>Trends in Sustainable Chemistry</b> , ISBN <b>978-93-5457-774-1</b> , May 2021; published by Dr. Muhammed Basheer Ummathur, PG Department of Chemistry, KAHM Unity Women's College, Manjeri.	Dr. Muhammed Basheer Ummathur

### **CHAPTERS IN EDITED BOOKS BY FACULTY**

The following faculty members published chapters in the book “**Trends in Sustainable Chemistry**”, ISBN **978-93-5457-774-1**, May 2021 published by Dr. Muhammed Basheer Ummathur, PG Department of Chemistry, KAHM Unity Women's College, Manjeri.

<i>Sl. No.</i>	<i>Title</i>	<i>Page No.</i>
1.	Nanocellulose as Green Platform for Functional Hydrogels/Aerogels; <b>Dr. Kallayi Nabeela</b>	9
2.	Scaffolds for the Application of Phosphorescent Organic Light-Emitting Diode; <b>Mrs. Shifna P</b>	29
3.	Estimation of Calcium in Some Milk Samples; <b>Dr. Muhammed Basheer Ummathur</b>	47
4.	Fate of Microplastics in Soil; <b>Mrs. Suhada K M</b>	52
5.	Carbon Dioxide: Capture and Utilization; <b>Mrs. Najeera P C</b>	63
6.	Sources of Heavy Metal Contamination in Soil; <b>Dr. Deepa K</b>	77

### **CHAPTERS IN EDITED BOOKS BY ALUMNI**

The following alumni member published chapters in the book “**Trends in Sustainable Chemistry**”, ISBN **978-93-5457-774-1**, May 2021 published by Dr. Muhammed Basheer Ummathur, PG Department of Chemistry, KAHM Unity Women’s College, Manjeri.

<i>Sl. No.</i>	<i>Title</i>	<i>Page No.</i>
1.	Nanocellulose as Green Platform for Functional Hydrogels/Aerogels; <b>Dr. Kallayi Nabeela</b>	9
2.	Surface Modified Cathode Materials for Advanced Solid State Battery <b>Ms. Fidha N</b>	29

## **COLLABORATIONS**

The Department has three international collaborations as detailed below.

- Dr. Rabindran Jermy Balasamy, *Assistant Professor, Institute for Research and Medical Consultations, Imam Abdul Rahman Bin Faisal University, Saudi Arabia.*
- Dr. Silviya Elanthikkal Abdulrahman, *Assistant Professor, Deanship of Scientific Research, Imam Abdul Rahman Bin Faisal University, Saudi Arabia.*
- Dr. Haseena Navas AP, *Head-Research and Development Enterplastics LLC, Dubai & Consultant Leading Scientist, Borouge Innovation Centre, Joint Venture of ADNOC and Borealis.*

The Department has one State Level collaboration as detailed below.

- Mr. Syam, Assistant Director, Common Facility Centre, Rubber Board, Payyanad, Malappuram (DT), Kerala

## **COURSES FOR ACADEMIC ADVANCEMENT**

Mrs. Suhada KM attended the Online Refresher Course in Chemical Science conducted by UGC-HRDC Kannur University from 14<sup>th</sup> to 27<sup>th</sup> August 2020. Mrs. Suhada KM also attended Short run course on e-content development and course design conducted by MHRD-TLC, University of Calicut from 23<sup>rd</sup> to 29<sup>th</sup> September 2020.

## **COLLEGE LEVEL ACADEMIC AND CO-CARRICULAR ACTIVITIES**

### **Dr. Muhammed Basher Ummathur**

- HoD Chemistry
- Assistant Chief of Calicut University Examinations
- Member of the UGC Project Cell
- Member of the College Staff Council
- Member of RUSSA
- Member of IQAC

### **Dr. P. Jyothi**

- Member of Staff Club executive Committee
- Staff Editor of College Magazine

### **Dr. Deepa K**

- Warden of College hostel

## **Mrs. Suhada KM**

- DQAC Coordinator
- Science Club Coordinator

## **EXTENSION ACTIVITIES**

### **1. Ozone Day Celebrations**

The Department conducted Ozone Day Celebrations on 18<sup>th</sup> September 2020. Dr. P. Jyothi was the Coordinator of the Programme. Dr. Raveendran P, Associate Professor, Department of Chemistry, University of Calicut was the Resource person and delivered a talk on “How to Conserve Our Environment”. PPT presentation competition was carried on the topic “Montreal Protocol-keeping us, our food and vaccines cool”. 1<sup>st</sup> prize: Kadeeja Farsana Thumba (3<sup>rd</sup> Sem. M. Sc. Chemistry), 2<sup>nd</sup> prize: Fathima Hafna (5<sup>th</sup> Sem B.Sc. Botany).

### **2. National Science Day Celebrations**

The Department conducted National Science Day Celebrations on 4<sup>th</sup> March 2021. Mrs. Suhada KM was the Coordinator of the Programme. Dr. C.P. Muhammed Kutty, Retired Professor, PSMO College Tirurangadi & Principal, Markaz Arts & Science College, Valanchery, was the Resource person and delivered a talk on “Chemistry of Kitchen”. PPT presentation competition was carried on the topic “Women Scientists”. 1<sup>st</sup> prize: Dilsha K, 2<sup>nd</sup> prize: Najiya and Safna, 3<sup>rd</sup> prize: Aysha Shahma.

### **3. Community Outreach Programme**

The Department conducted two Community Outreach Programmes in Google meet for the staff, students and parents of our college.

1. **Webinar on Rain, Water and Public Health on 20<sup>th</sup> September 2020:** Mr. Sajeesh AK, *Chemist, Quality Control District Laboratory, Kerala Water Authority, Malappuram* was the Resource person. The coordinator of the Webinar was Dr. Deepa K.
2. **Webinar on Homestead Farming on 15<sup>th</sup> November 2020:** Mrs. Meharunneesa PM, *Agriculture Officer, Oorakam, Malappuram (DT)* was the Resource person. The coordinator of the Webinar was Dr. Deepa K.

### **4. Financial Assistance**

The staff members of the department visited the house of Sreelakshmi, B. Sc. Chemistry (2018-2021 batch) and University 2<sup>nd</sup> Rank holder. The staff members congratulated for the achievement and handed over an amount of Rs. 10000 as financial assistance.

As a part of Share & Care Programme financial Assistance of Rs 10,000 each was given to the following students during during the pandemic period of Corona virus.

1. Sreelakshmi A; 6<sup>th</sup> Sem B. Sc. Chemistry
2. Saheera Thoran; 4<sup>th</sup> Sem M. Sc. Chemistry

Free ships were given to the following students during this academic year.

1. Silpa Narayanan Kutty A; 6<sup>th</sup> Sem B. Sc. Chemistry
2. Saheera Thoran; 4<sup>th</sup> Sem M. Sc. Chemistry

## **Dr. P. Jyothi**

- Published the article “History of Soap” in Sasthrakeralam (February 2021).
- Valued the answer scripts of various autonomous colleges.

## **Dr. Deepa K**

- Valued the answer scripts of various autonomous colleges.

**Mrs. Suhada KM**

- Valued the answer scripts of various autonomous colleges.

**RESEARCH PUBLICATIONS**

**Dr. Muhammed Basheer Ummathur**

<i>Sl. No.</i>	<i>Name of Paper</i>	<i>Name of Journal</i>	<i>ISSN</i>	<i>Issue, Year, Page</i>
1	Pr(III), Nd(III), Eu(III), Er(III) and Yb(III) Complexes of Some 1,7-Diaryl-1,6-heptadiene-3,5-diones	JASC: Journal of Applied Science and Computations	1076-5131	7(9), 2020, 72-75
2	Synthesis and Structural Characterisation of Tb(IV) Complexes of Curcuminoids	JASC: Journal of Applied Science and Computations	1076-5131	7(10), 2020, 120-122
3	Mixed Ligand Complexes of Some Trivalent Lanthanide Ions with Unsaturated 1,3-Diketones	JASC: Journal of Applied Science and Computations	1076-5131	7(10), 2020, 163-166
4	Synthesis and characterization of some conjugated $\beta$ -ketoesters and their Cu(II) complexes	Research Journal of Chemical Sciences	2231-606X	10 (3), 2020, 25-29
5	Lanthanide Complexes of Some Synthetic Curcuminoids	Journal of Chemistry & Chemical Sciences	2229-760X	10(11), 2020, 333-339
6	Thermogravimetric Studies of Some Lanthanide Complexes of Curcumin I	JASC: Journal of Applied Science and Computations	1076-5131	7(11), 2020, 10-13
7	Synthesis and Characterisation of a Conjugated Polycarbonyl Ligand and its Cu(II) Complex	JASC: Journal of Applied Science and Computations	1076-5131	7(11), 2020, 25-28
8	Fluorescence Studies of Curcuminoids and their Lanthanide Complexes	International Journal of Recent Scientific Research	0976-3031	11(11), 2020, 40057-61
9	Antioxidant Studies of Some Synthetic Curcuminoids	International Journal of Recent Scientific Research	0976-3031	11(11), 2020, 40089-91
10	Quality Assessment of Rubber Latex from Different Plane Areas in Nilambur Taluk of Kerala State	JASC: Journal of Applied Science and Computations	1076-5131	8(5), 2021, 25-28
11	Schiff bases of 1,5-diarylpent-4-ene-1,3-diones and their metal complexes: Synthesis, characterization and fluorescent studies	Journal of the Serbian Chemical Society	0352-5139	86 (1), 2021, 39-49
12	Antioxidant Studies of Some Lanthanide Complexes Derived from Curcuminoid Analogues	Oriental Journal of Chemistry	0970-020X	37(1), 2021, 80-83

**Dr. Nabeela Kallayi**



<i>Sl. No.</i>	<i>Name of Paper</i>	<i>Name of Journal</i>	<i>ISSN</i>	<i>Issue, Year, Page</i>
1	Nanocellulose-silver ensembles for ultrasensitive SERS: An investigation on the role of nanocellulose fibers in the generation of high-density hotspots	Applied Materials Today	2352-9407	20 (2020) 100672 - 100680
2	Direct Visualization of Crystalline Domains in Carboxylated Nanocellulose Fibers	ACS Omega	2470-1343	2020, 5(21), 12136–12143
3	Hydrophilic 3D Interconnected Network of Bacterial Nanocellulose/ Black Titania Photothermal Foams as an Efficient Interfacial Solar Evaporator	ACS Applied Biomaterials	2576-6422	2021, 4, 5, 4373–4383

### **Mrs. Anju Raveendran**

<i>Sl. No.</i>	<i>Name of Paper</i>	<i>Name of Journal</i>	<i>ISSN</i>	<i>Issue, Year, Page</i>
1	Light-fueled rapid macroscopic motion of a green fluorescent organic crystal	Cryst Eng Comm	1466-8033	2021, 23, 5876-5881

### **Mrs. Najeera PC**

<i>Sl. No.</i>	<i>Name of Paper</i>	<i>Name of Journal</i>	<i>ISSN</i>	<i>Issue, Year, Page</i>
1	Quality Assessment of Rubber Latex from Different Plane Areas in Nilambur Taluk of Kerala State	JASC: Journal of Applied Science and Computations	1076-5131	8(5), 2021, 25-28

## **UNIVERSITY EXAMINATION RESULTS**

### **B. Sc. Chemistry 2018-'21**

Number of students							Pass %
Appeared	Passed	A+	A	B	C	Failed	
47	40	2	23	14	1	7	85.11

Ms. Shaima TP and Ms. Safna P have got the 4<sup>th</sup> and 7<sup>th</sup> Ranks respectively in the University Examination.

**M. Sc. Chemistry 2019-'21** Not published yet.

## **CLASS TOPPERS**

### **UG**

Batch	Name	CGPA & Grade	% of Marks
2018-'21	Shaima TP	5.77, A+, 4 <sup>th</sup> Rank	95.40

## **STUDENT QUALITY ASSURANCE CELL**

Student Quality Assurance Cell (SQAC) is constituted for the efficient implementation of Teaching Learning process. The members include HoD and class leaders of UG and PG classes. The first meeting of the committee was held on 1<sup>st</sup> June 2020. HoD has made an awareness session to the class leaders of second year UG, third year UG and 2<sup>nd</sup> year PG classes. The second meeting of the Committee was carried out on 1<sup>st</sup> January 2021 after nominating the class leaders of first year UG and PG classes. The members of the SQAC were the following.

1.	Dr. Muhammed Basheer Ummathur	:	HoD
2.	Keerthana	:	Class leader, 1 <sup>st</sup> year UG
3.	Shaniba	:	Class leader, 2 <sup>nd</sup> year UG
4.	Amna Sana	:	Class leader, 3 <sup>rd</sup> year UG
5.	Resmin	:	Class leader, 1 <sup>st</sup> year PG
6.	Aysha Jinan	:	Class leader, 2 <sup>nd</sup> year PG

## **TRAINING PROGRAMME ATTENDED BY STUDENTS**

<i>Sl. No.</i>	<i>Topic</i>	<i>Students attended</i>	<i>Organizing institution</i>	<i>Period</i>
1	Training Programme on Processing of Rubber Latex	VI Sem UG	Common Facility Centre, Rubber Board, Payyanad	1 <sup>st</sup> to 3 <sup>rd</sup> February 2021

## **SEMINARS ATTENDED BY STUDENTS**

<i>Sl. No.</i>	<i>Class</i>	<i>Webinar/ Seminar</i>	<i>Organizing Institution</i>	<i>Period</i>
1	III Sem PG	International Multidisciplinary Webinar Series CONVERGENCE 2020 Digital Aids	SES College, Sreekandapuram, Kannur	7 <sup>th</sup> June 2020
2	III Sem PG	3 Day International Webinar on "GOLD AURA-Chemistry for life	Payyannur College, KSCSTE and Prof. KTK Foundation	17 <sup>th</sup> to 19 <sup>th</sup> June 2020
3	III Sem PG	Impact Lecture session on 'Innovation Opportunities in Healthcare Technology: A Covid 19 Perspective'	Institution Innovation Council of MES Keveeyam College Valanchery	24 <sup>th</sup> June 2020
4	III Sem PG	National Webinar on Chemistry for Better Health	Government Arts College, Salem	8 <sup>th</sup> July 2020
5	III Sem PG	Webinar on Macromolecular Evaluations Using Rheological Techniques MEURT-2020	Farook College (Autonomous)	9 <sup>th</sup> July 2020
6	III Sem PG	International Webinar on The Benefits of Polymer Chemistry in 3D Printing Technology	Santhom Malankara Arts & Science College, Edanji, Thiruvananthapuram	11 <sup>th</sup> July 2020

7	III Sem PG	National Webinar on Modern Trends in Chemistry and Biology	Central University of Karnataka	13 <sup>th</sup> July 2020
8	III Sem PG	One day international webinar -Recent Trends in Material Science	Najath College of Science and Technology, Karuvarakundu	17 <sup>th</sup> August 2020
9	III Sem PG	Webinar on Chemistry- Windows to Opportunities	Majlis Arts & Science College, Puramannur	22 <sup>nd</sup> September 2020
10	III Sem PG	International Webinar on Artificial Virus: Chemical Approaches Towards Gene Therapy Applications	MES Kalladi College, Mannarkkad	27 <sup>th</sup> September 2020
11	I & III Sem PG	International Webinar on Novel Areas of Chemical Research	PG Department of Chemistry, KAHM Unity Women's College, Manjeri	3 <sup>rd</sup> , 10 <sup>th</sup> & 17 <sup>th</sup> October 2020
12	IV Sem PG	Inspiring thoughts in Chemical Sciences	Calicut Chemistry Collective (CCC), University of Calicut	3 <sup>rd</sup> October, 21 <sup>st</sup> November, 19 <sup>th</sup> December 2020 & 16 <sup>th</sup> January 2021
13	All UG and PG	Regional Webinar on Homestead Farming	PG Department of Chemistry, KAHM Unity Women's College, Manjeri	15 <sup>th</sup> November 2020
14	I Sem PG	Invited Lecture with Dr. Sowmya Swaminathan, WHO	Women Cell, KAHM Unity Women's College, Manjeri	27 <sup>th</sup> November 2020
15	I Sem PG	Basics of Quantum Chemistry	Calicut Chemistry Collective (CCC), University of Calicut	19 <sup>th</sup> December 2020
16	I Sem PG	Polymers for Environment	Majlis Arts & Science College, Puramannur	29 <sup>th</sup> December 2020 to 2 <sup>nd</sup> January 2021
17	II & IV Sem UG	Open Debate on Does God favour a Gender	PG Department of Chemistry, KAHM Unity Women's College, Manjeri	5 <sup>th</sup> February 2021
18	I Sem PG	Stereochemistry and Conformational Analysis	Calicut Chemistry Collective (CCC), University of Calicut	13 <sup>th</sup> February 2021
19	II Sem PG	Design and Development of Hierarchical Zeolites for Application in Industrial Relevant Process	MES keveeyam College, Valanchery	27 <sup>th</sup> February 2021
20	All UG and PG	Regional Seminar on Chemistry of Kitchen	PG Department of Chemistry, KAHM Unity Women's College, Manjeri	4 <sup>th</sup> March 2021

## **TUTORIAL SYSTEM**

<b>Batch</b>	<b>Class Tutor</b>
<b>B. Sc</b>	
I & II Sem	Dr. Jyothi P
III & IV Sem	Dr. Jamsheena V
V & VI Sem	Dr. Deepa K
<b>M. Sc</b>	
I & II Sem	Mrs. Suhada KM
III & IV Sem	Mrs. Najeera PC

## **INTER-DEPARTMENTAL ACTIVITIES**

### **OPEN COURSE**

The Department offers Environmental Chemistry as the Open Course to the UG students of other departments.

### **ASSOCIATION ACTIVITIES**

Due to Covid Pandemic, College Union Election was not held during 2020-21. Students and Staff unanimously selected Ms. Basila Shirin and Ms. Soorya of 3<sup>rd</sup> Sem B. Sc. Chemistry as the Association secretaries. Dr. Muhammed Basheer Ummathur was the Teacher in Charge. As a part of the association the following programmes were conducted.

16-10-2020	Discussion on various programmes to be conducted in the academic year.
21.10.2020	Experience sharing by faculty members and students about the proper utilization of time during the Covid Pandemic period.
29.10.2020	Celebrated Kerala Piravi Day. Dr. P. Jyothi delivered a talk on Importance of Malayalam.
11.11.2020	Chemistry riddles and current affairs of 2020.
18.11.2020	Staff and students watched the short film on women empowerment named "WAR" directed by Arun. K. Vaniyamkulam, which gives awareness against Women Abusement in Public as a part of UN's International day for the Elimination of violence against Women.
26.11.2020	Quiz competition.
02.12.2020	Making out words from periodic table.
05.02.2021	An Open Debate on the topic "Does God Favour a Gender".

The delayed University Examination Schedule was a great challenge in conducting the association programmes when classes turned on in the offline mode.

### **CERTIFICATE COURSE**

The Department conducted three certificate courses during this academic year.

1. **Household Products from Rubber Latex:** The course was conducted for the final B. Sc. Chemistry students in collaboration with Common Facility Centre, Rubber Board, Payyanad. 47 students successfully completed the Certificate course. Dr. Deepa K was the coordinator of the course.

- Laboratory Precautions and Analytical Skill Development:** The course was conducted for the First Year B. Sc. Chemistry students. 47 students successfully completed the Certificate course. Dr. Deepa K was the coordinator of the course.
- Pollution Control Measures:** The course was conducted for the Open Course UG students of our college. 48 students successfully completed the Certificate course. Dr. Deepa K was the coordinator of the course.

## INFRASTRUCTURE

Construction of a new Block for the Chemistry Department was started and it is expected to shift the Department, Final UG classroom and PG classrooms in the next academic year.

## SPECIAL ACHIEVEMENTS

**Sreelakshmi A** of 2017-20 batch got Second Rank in B.Sc. Chemistry of University of Calicut.

**Nasla Shareen PP** of 2<sup>nd</sup> year B. Sc. Chemistry 2018-21 batch participated in the Makeup Workshop conducted by Renju Renjimar (celebrity makeup artist) from 5<sup>th</sup> to 7<sup>th</sup> October 2020 at Dora Beauty World, Angamaly, Ernakulam.

**Aysha Bint Syed** of 2013-16 batch got admission to M. Sc. Forensic Science at Anglia Ruskin University, Cambridge.

**Fathima Haffa** of 2017-20 batch got admission to M. Sc. Nanotechnology at University College, London.

## ALUMNI

- Alumni meeting conducted on 6<sup>th</sup> March 2021.
- Text Books are given to Class Toppers of 2019-'20 on 6<sup>th</sup> March 2021. I year B. Sc.: Krishnapriya; II year B. Sc.: Shaima T P, III year B. Sc.: Sree Lakshmi A, I year M. Sc.: Saheera Thoran; II year B. Sc.: Fidha.
- Congratulated Jamsheena V, Mrs. Nihmath, Nabeela Kallayi and Mrs. Nusrath for the award of Ph.D in chemistry.

## PROGRESSION TO HIGHER EDUCATION (2017-20 Batch)

### UG to PG

Sl. No.	Name of student	Name of institution
1	Resmin M	KAHM Unity Women's College, Manjeri
2	Shahana Thesni V	KAHM Unity Women's College, Manjeri
3	Rinsha K	KAHM Unity Women's College, Manjeri
4	Farsana Thasneem P	KAHM Unity Women's College, Manjeri
5	Safa K	KAHM Unity Women's College, Manjeri
6	Jasla C	KAHM Unity Women's College, Manjeri
7	Fidha Shirin K	KAHM Unity Women's College, Manjeri
8	Jubna C	KAHM Unity Women's College, Manjeri
9	Aleena KS	DGM MES Mampad College
10	Sreelakshmi A	DGM MES Mampad College
11	Drisyia K	DGM MES Mampad College
12	Nidha T	PSMO College, Tirurangadi

13	Thwohani P	Farook College, Feroke
14	Nafeesathul Nadha V	Farook College, Feroke
15	Nashwa VP	MG University
16	Haritha H Warriar	Amritha Vishwa Vidyapeetham, Coimbatore
17	Raniya KT	Markaz Arts & Science College, Valanchery
18	Ayisha Nasla N	Markaz Arts & Science College, Valanchery
19	Sreelakshmi Sreenivas	Sri Kerala Varma College, Thrissur
20	Fathima Haffa AP	Forensic Science in Anglia Ruskin University, Cambridge
21	Shafna VP	Morning Star Home Science College, Angamaly
22	Aswathy C	Guruvayurappan College, Calicut

### **UG to B. Ed**

Sl. No.	Name of student	Name of institution
1	Shamila P	B. Ed. Training College, MCT, Melmuri
2	Rinsha K	Majmah B. Ed. Centre, Kavanur
3	Dhanisha T	EMEA Training College, Kondotty
4	Fathima Rinsha PC	Majmah B. Ed. Centre, Kavanur

### **UG to Other courses**

Sl. No.	Name of student	Name of institution
1	Shameela Sherin	MA English, KAHM Unity Women's College, Manjeri
2	Shameena Musthari P	D. El. Ed. at GITE, Malappuram
3	Nabeela P	D. El. Ed. at GITE, Malappuram
4.	Brijitha K	PDFT Course, ITI, Areacode
5.	Unnimaya O	Medical coding, Cigma Medical Coding Academy, Kochi
6.	Ayisha Sana AP	Medical coding, Avodha, Kochi

### **PG to B. Ed**

Sl. No.	Name of student	Name of institution
1	Fida P	Sri Navaa College of Education, Tamil Nadu Teacher Education University
2	Shirin V	Mangalam College, Tamil Nadu Teacher Education University
3	Mufeeda Thasneem P	KMO Training College, Koduvally
4	Athira R	KET College of Teacher Education, Balussery

5	Naima Jannath K	EMEA Training College, Kondotty
6	Fasalul Farisa T	Calicut University Teacher Education Centre, Manjeri

### **Placement**

<b>Sl. No.</b>	<b>Name of student</b>	<b>Name of institution</b>
1	Rajna OPC	Teacher at CHMHSS, Pookolathur