



**GEMS ARTS AND SCIENCE COLLEGE  
RAMAPURAM, MALAPPURAM**

**INTERNAL QUALITY ASSURANCE CELL (IQAC)  
MONTHLY ACTIVITY REPORT(MAR)**

<b>PERIOD:</b>	<b>01.09.2021- 30.09.2021</b>	
<b>Name of the Department:</b>	<b>PG DEPARTMENT OF MICROBIOLOGY</b>	
<b>Head of the Department:</b>	<b>RADHIKA R KRISHNA</b>	
<b>Contents:</b>	I.	Department details
	II.	Minutes of department meetings
	III.	Academic progress details
	IV.	Webinar/Seminar/Conference/Workshop details
	V.	Extracurricular activities/competitions conducted
	VI.	Department achievements

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INTERNAL QUALITY ASSURANCE CELL (IQAC)

**Dr. NAVEEN MOHAN**  
PRINCIPAL  
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**I. DEPARTMENT DETAILS:**

I. STAFF DETAILS	
Teaching faculty	
Sl no.	Name
1.	Ms. Radhika R Krishna
2.	Ms. Resna N.K
3.	Dr.Anjanadevi I P
4.	Ms. Shana Parveen T T
5.	Ms. Shameema M
6.	Dr.Finose A
7.	Ms. Shaheena A
Non Teaching staff	
8.	Hima
9.	Amrutha

**II. DEPARTMENTAL MEETING DETAILS**

- No. of meetings conducted : 4 [Use separate forms for each meeting]
- Minutes of Meetings:

1. Meeting No: 1 / 2021		
2. Agenda: Routine		
3. Date:8/9/2021	4. Time:7.00pm	Venue: Google meet
5. Total Staff strength:6		
6. No. of Staffs Present:6		

7. Discussion Objectives: To be submitted in detail			
Sl no.	Topics	Suggestions/Highlights	Decisions/Conclusions
i.	Internship programme  for  Final year and second  year degree students.	S3 and S6 B.Sc  Microbiology students  can be divided into 3 and  2 groups respectively.	Holidays can be chosen  for this 10 days  internship programme.  S3 Students must go on

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		<p>10 days should be given to each group. The students will be send to the Biosino Research centre,Kotakkal for this internship programme.</p>	<p>Saturdays,Sundays and X-Mas holidays to complete the internship programme.</p> <p>In January half of the S6 students have to complete practicals in college and half of the students have to complete the internship in research centre.</p>
ii.	Academic and extra curricular activities.	<ul style="list-style-type: none"> <li>A webinar must be undertaken by each faculty in the department.</li> <li>Tutors must</li> </ul>	<p>A webinar can be conducted in every month.</p> <p>The tutors should find</p>

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		<p>conduct extra curricular activities to relieve the mental stress of students.</p>	<p>important days in every months and organise events.</p>
iii.	Stock analysis	<p>Stock currently in the lab should be checked and the total number should be verified.</p>	<ul style="list-style-type: none"> <li>• Stock register for Microbiology and Biochemistry should be kept(both for UG and PG).</li> <li>• Requirements can be prepared by verifying the available stock.</li> </ul>
iv.	Portion completion	<p>Each teacher should submit a clear outline of</p>	<ul style="list-style-type: none"> <li>• Portion completion should be recorded in</li> </ul>

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		<p>the online classes taken and submit the portion completion details. It should clearly state the number of assignments, seminars and exams conducted.</p>	<p>every month.</p> <ul style="list-style-type: none"> <li>• Try to complete the portions as written in the teachers diary.</li> </ul>
v.	vaccination	<p>Teachers coming to college must complete atleast the first dose of vaccine.</p>	<p>Those who do not get the covid vaccine should take it as soon as possible to ensure self protection.</p>
vi.	Pending fee	<p>Prepare the list of students who have not paid the fee and inform their parents.(both UG</p>	<p>Conduct an online meeting with parents of students who have not paid fees.</p>

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		and PG)  eir fee and inform their  parents.(both UG and PG)	
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8. Members Of The Meeting			
Name	Signature	Name	Signature
Ms. Radhika R Krishna		Dr.Finose A	
Ms. Resna N.K		Ms. Shaheena A	
Dr.Anjanadevi I P		Ms. Hima	
Ms. Shana Parveen T T			
Ms. Shameema M			

<b>9. Whether Previous Meeting Decisions Implemented : Yes/No* : No</b>
<b>10. *If No Specify Reason:</b> Fee collection could not be completed 100%

<b>11. Meeting No: 2 / 2021</b>
<b>12. Agenda: Routine</b>
<b>13. Date:14/9/2021</b> <b>14. Time:7.00pm</b> <b>Venue: Google meet</b>
<b>15. Total Staff strength:6</b>
<b>16. No. of Staffs Present:6</b>

17. Discussion Objectives: To be submitted in detail			
Sl no.	Topics	Suggestions/Highlights	Decisions/Conclusions
1	UG admission	Admission to the degree	All teachers should

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		<p>first year students is on September 15<sup>th</sup> at 10am to 12pm.</p> <p>All the documents needed for admission should be collected.</p>	<p>come to college at 9.30am for assisting these admission process.</p>
2	Stock completion and purchase order	<p>The stock verification was to be completed by September 20<sup>th</sup>.</p>	<p>Purchase order can be prepared by verifying the stock (both UG and PG)</p>
3	Consolidated result analysis	<p>Evaluate the examination result of each semester and prepare its consolidated result analysis.</p>	<p>The consolidated result analysis must be submitted by September 30<sup>th</sup>.</p>

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*[Signature]*  
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**18. Members Of The Meeting**

Name	Signature	Name	Signature
Ms. Radhika R Krishna		Dr.Finose A	
Ms. Resna N.K		Ms. Shaheena A	
Dr.Anjanadevi I P		Ms. Amrutha	
Ms. Shana Parveen T T			
Ms. Shameema M			

**19. Whether Previous Meeting Decisions Implemented : Yes/No\* : No****20. \*If No Specify Reason:**

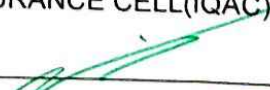
Some students with financial problems do not paid the fee

**21. Meeting No: 3/ 2021****22. Agenda: Routine****23. Date:22/9/2021****24. Time:7.30pm****Venue: Google meet****25. Total Staff strength:6****26. No. of Staffs Present:6****27. Discussion Objectives: To be submitted in detail**

Sl no.	Topics	Suggestions/Highlights	Decisions/Conclusions
1	Fee collection of S3UG and PG.	Online meeting should be conducted to inform parents.	It should be collected before 25 th September.
2	College reopening	Students coming to college should complete atleast first dose of	Inform the students to get vaccinated as early as possible.

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		vaccine.	
3	Orientation class for first year ug students	Orientation classes should be conducted for first year ug students after September 30 <sup>th</sup> onwards.	All faculties should engage classes .

### 28. Members Of The Meeting

Name	Signature	Name	Signature
Ms. Radhika R Krishna		Dr.Finose A	
Ms. Resna N.K		Ms. Shaheena A	
Dr.Anjanadevi I P		Ms. Amrutha	
Ms. Shana Parveen T T			
Ms. Shameema M			

29. Whether Previous Meeting Decisions Implemented : Yes/No\* : No

30. \*If No Specify Reason:paid more than 50% fee.

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**III. WEBINAR/SEMINAR/CONFERENCE/WORKSHOP DETAILS[Use separate sheets for each program]**

List Of Programs Conducted	SI No.	PROGRAMME:
		1
<b>DETAILED REPORT OF PROGRAMS</b>		
a. Programme/event name	Webinar-Plastics : A blessing or curse to mankind	
b. Date	8 <sup>th</sup> September	
c. Resource person	Nithya Jayan Assistant Professor ,Dept.of Microbiology SN College Alathur	
d. Topic	Plastics : A blessing or curse to mankind	
e. No. of Participants	60	
f. Write up	<p>In association with IQAC, the PG Department of Microbiology was conducted a webinar on the topic'Plastics: a blessing or curse to mankind' on 8th September 2021 at 2pm-3pm.The Speaker of the webinar was Nithya Jayan,Assistant Professor,SN College Alathur.The webinar was very interesting and informative for both students and faculties. Radhika R Krishna,Head of the department of microbiology performed the welcome speech.</p> <p>In the introductory section the speaker explained about types and structure of plastic and its uses and drawbacks. She led a very interesting class on bioplastics too. The microbial remediation system and biodegradation methods of plastic were also well explained. Each and every topic were further more interesting as it approached the biodegradation methods of plastic. A qualitative analysis of enzymes involved in the biodegradation and a detailed class on its mechanisms were the highlights of the webinar. A vision on the hazardous effects of plastic to the environment was emphasised and it generated the serious concerns regarding this major problem in every participants mind. The waste management is the biggest threat to our sustainability.She explained about recycling,reuse and reduce principles of plastic.</p> <p>In this era, we have to focus on biodegradable plastics and the trending one is bio-plastic " a new</p>	

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gen plastic". Bioplastics are plastic derived from renewable biomass sources, such as vegetable fats and oils, corn starch, or micro biota, and other bio wastes". Here we are focussing on synthesis of bio-plastic from bio- wastes such as sugarcane baggase and mixture fruit pulp which includes jackfruit, banana peel, mango, nutmeg, duranian seeds. The use of bioplastics offers significant advantages not only in an ecological sense but also in an economical sense.Types of Bioplastics are Starch-based plastics ,Cellulose-based plastics,Polylactic acid (PLA) ( a transparent plastic produced from cane sugar or glucose), Poly-3-hydroxybutyrate (PHB) ( a polyester produced by certain bacteria processing glucose, corn starch or wastewater and Bio-derived polyethylene.

After a brief interactive session,the programme was ended with the vote of thanks delivered by Shahana.P,a student of S3 B.Sc Microbiology. A total of 60 students attended the webinar.

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PG Department of Microbiology  
In Association With IQAC

**PLASTICS** A blessing or curse to mankind

**NITHYA JAYAN**  
Assistant Professor  
Department of Microbiology  
S.N COLLEGE ALATHUR

Webinar on  
8th September

Via  
Google Meet

SAY NO TO  
PLASTIC.

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### DETAILED REPORT OF PROGRAMS

<b>a. Programme/event name</b>	Webinar on Biochemistry-Why it matters?
<b>b. Date</b>	14.09.21
<b>c. Resource person</b>	Dr.ShonimaGovindan
<b>d. Topic</b>	Biochemistry-Why it matters?
<b>e. No. of Participants</b>	100
<b>f. Write up</b>	<p>PG department of microbiology conducted a webinar on Biochemistry-Why it matters?under the theme area biochemical world and beyond. Program started at 10AM with the Welcome speech and guest introduction by Dr.Finose A. Resourceperson of the program was Dr.Shonima, Assistant Professor, SAFI Institute of advanced study, Vazhayoor, Malappuram.</p> <p>She explained the basics of biochemical world in day to day life and further moved on to the research activities and it's biological importance. Common day biochemicalswere explained in detail with its importance in enzymology, confectionery, pharmaceutical and research sectors. Research potential of biochemistry was explained with special emphasis on vegan culture. Students from undergraduate and postgraduate programmes of the college along with the faculties participated in the event.All the doubts of the participants were cleared in the Question and Answer session by the speaker.Vote of thanks was delivered by Archana Girish of Second year microbiology. Program wound up by 11 AM.</p>

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*Ramapuram, Malappuram, Kerala*

**PG DEPARTMENT OF MICROBIOLOGY IN  
ASSOCIATION WITH IQAC**

**BIOCHEMISTRY - WHY IT MATTERS?**  
*Theme: Biochemical World and beyond*

**WEBINAR**



**RESOURCE PERSON**  
**DR. SHONIMA GOVINDAN M**  
ASSISTANT PROFESSOR  
Department of Biochemistry  
SAFI Institute of Advanced Study,  
Vozhayoor, Malappuram

**EVENT COORDINATOR**  
**DR. FINOSE A**

Date: 14.09.2021  
Time: 10.00-11.00AM  
Platform: Google meet

NB: Please attach the poster in the mail separately.

<b>DETAILED REPORT OF PROGRAMS</b>	
<b>a. Programme/event name</b>	Covid-19 Approach to vaccination and new variant update'
<b>b. Date</b>	13 <sup>th</sup> September 2021
<b>c. Resource person</b>	Dr.Soumya Sathyan
<b>d. Topic</b>	Covid-19 Approach to vaccination and new variant update'
<b>e. No. of Participants</b>	76

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f. Write up

A Webinar on "**Covid 19 -Approach to vaccination and new variant update**" was conducted by Department of Microbiology in association with IQAC on 13 September 2021 from 7 Pm to 8 pm. Second semester PG Microbiology students were coordinating the webinar. The resource person of the event was **Dr. Soumya Sathyan**, Consultant Physician at Moulana Hospital, Perinthalmanna. The programme formally began with the welcome address delivered by Dr. Anjanadevi I.P, Assistant Professor, Department of Microbiology.

Webinar gave deep insights into the topic COVID vaccination and also revealed some interesting facts about new variants of corona virus. She discussed the importance of vaccination and different types of vaccines available and their significant properties. Moreover, Dr. explained the facts about new corona virus variants and covid outbreak in future. After session, Participants asked many questions related with the concern and issues related with covid and vaccination and all the questions were satisfactorily answered by resource person. This interactive session conducted after her talk was more commendable. She congratulated all the participants for their active interaction in Q&A session. The event was concluded with the vote of thanks given by Ms. Shahla Sharbin. V. P of Second Semester PG Microbiology.

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PG DEPARTMENT OF MICROBIOLOGY  
IN ASSOCIATION WITH IQAC

**WEBINAR**  
ON  
**COVID 19 - Approach to  
vaccination and New  
Variants update**

Time: 7 PM to 8 PM

**13**  
September  
2021

Dr. Soumya Sathyan  
MBBS, MD

Speaker:  
Dr Soumya Sathyan (MBBS,MD)  
Consultant Physician  
Moulana Hospital  
Perinthalmanna

**G-MEET**

**SEM-2 PG MICROBIOLOGY**

#### IV. EXTRACURRICULAR ACTIVITIES/COMPETITIONS CONDUCTED

<b>Date</b>	11th september
<b>Program name</b>	World First Aid Day
<b>Winners</b>	Malayalam essay writing 1 <sup>st</sup> :Shahana .P(S3 B.Sc MB) 2 <sup>nd</sup> :Majida(S2 M.Sc MB) English essay 1 <sup>st</sup> :Adhila Musthafa(S5 B.Sc MB) 2 <sup>nd</sup> :Sana Thayyil(S3 B.Sc MB)
<b>Write up</b>	In association with IQAC the Department of Microbiology , Gems Arts and Science College, Ramapuram was conducted an online essay competition on 'World First Aid Day' on 11yh September 2021. The event was mainly focused to rejuvenate the mind of students. The students were given permission to write essay both in english and malayalam . The World First Aid Day is observing in second Saturday of September annually. The special day is marked to encourage people in first aid training which helps in preventing injuries and saving lives in critical situations. Through these kind of programmes , the awareness about the necessity of first aid training and the later benefits is imparted. There were many participation in this contest and among them two of the best

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essays in each malayalam and english category were selected to be winners.

In english essay writing competition, Adhila Musthafa from S5 B.Sc Microbiology and Sana Thayyil from S3 B.Sc Microbiology got first and second prizes respectively. In malayalam essay writing, Shahana.P from S3 B.Sc Microbiology and Majida from S2 M.Sc Microbiology got first and second prizes respectively.

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## WORLD FIRST AID DAY

ESSAY WRITING COMPETITION WINNERS

MALAYALAM ESSAY



ENGLISH ESSAY



<b>Date</b>	16th september
<b>Program name</b>	World Ozone day
<b>Winners</b>	Pencil drawing 1 <sup>st</sup> :Nitha Nasrin(S3 Microbiology) 2 <sup>nd</sup> :Shahana Sherin(S3 Microbiology) Water colour 1 <sup>st</sup> :Riya Mizna(S3 B.Com CA) 2 <sup>nd</sup> :Shahana Sherin(S3 B.Sc Microbiology)
<b>Write up</b>	PG Dept of Microbiology and IQAC conducted an online drawing competition on World Ozone Day. Students from all departments took part in the competition.

<b>Date</b>	<b>17 September 2021</b> (CELEBRATION ON WORLD MICROBES DAY)
<b>Program name</b>	<b>SPEECH ON THE SPOT COMPETITION</b>

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<b>Winners</b>	Majida M, Shanooba K and Shanida T P Class: second semester PG Microbiology
<b>Write up</b>	Speech on the spot is a great way of building personal development on many levels such as boosting confidence, critical thinking, personal satisfaction, building leadership skills, learning performance skills etc. With an aim to celebrate the WORLD MICROBES DAY, the Department of Microbiology in association with IQAC conducted SPEECH ON THE SPOT Competition in online mode for the students of UG and PG microbiology on 17.09.2021 from 7 pm to 8.30 pm. The program was coordinated by Dr. Anjanadevi I. P, Assistant Professor, Department of Microbiology. The topic was on different microbial species and was given just 4 minutes before they were given a chance to present it. Majida M, Shanooba K and Shanida T P of second semester PG Microbiology secured 1st, 2nd and 3rd place respectively.

V. DEPARTMENT ACHIEVEMENTS(if any)

FacultyName	Achievement
Resna N.K	Participated in the one week Faculty Development Programme (FDP) on Learning Management System (Moodle) and Course Design conducted by the Faculty Development Centre of the Kerala State Higher Education Council(KSHEC), Thiruvananthapuram from 01- 06 september 2021 through online mode for the faculty members of the state universities and affiliated colleges.
Dr. Anjanadevi I P	Publication- <i>Susan John, K, Anju, P.S., Chithra, S., Shanida Beegum, Anjanadevi, I.P., Suja G., Sheela, M.N., &amp; Ravi V. 2020. Recent advances in the soil-plant nutrition management of tropical tuber crops. Proceeding of the National Webinar on "Challenges and opportunities of vegetable production in warm humid tropics". Department of Vegetable Science. Kerala Agricultural University, Thrissur. 128-144.</i>

Student Name	Achievement
Hasna Hilal	First rank (Calicut University 2018-2021 B.Sc Microbiology examination)

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