GEMS

GENERAL REQUEST FORMAT FOR PROGRAMS and EVENTS

From,

Head of the Department
PG Department of Microbiology
.....

Date: 19/03/2022

To,

The Principal
GEMS Arts and Science College,
Ramapuram, Malappuram, 679321

Sl No	Name of Department	Name of the Program	Date	Time	
				From	To
1.	PG Dept. of Microbiology	Water Quality Assessment Program	22/03/22	1.30 pm	3.30 pm

Venue: Microbiology Laboratory

Resource person (if any):

Associating Clubs/Departments (if any):

Sanctioning Details:

Approved	Not Approved

Dr. NAVEEN MOHAN
PRINCIPAL
GEMS ARTS AND SCIENCE COLLEGE
KADUNGAPURAM (PO), RAMAPURAM
MALAPPURAM DT., KERALA-679 321

Signature

Head of the Department
Department of Microbiology
GEMS Arts & Science College
Ramapuram, Kadungapuram Post
Malappuram (Dt.) - 679 321

Seal

Note: 1. Brochure shall be displayed/circulated in the college notice board.
2. Program Report shall be submitted within 5 days.

Circular No: MB/21-22/019 **Date: 19.03.2022**

CIRCULAR

This is to inform you all that the PG Department of Microbiology in association with IQAC decided to conduct a Water Quality Assessment Program on 22.03.2022.

Program details:

Time : 2.00 PM

Venue : Microbiology Laboratory

Department of Microbiology
Kadungapuram P.O
Ramapuram
Date:.....
GEMS ARTS & SCIENCE COLLEGE

Head of the Department
Department of Microbiology
GEMS Arts & Science College
Ramapuram, Kadungapuram Post
Malappuram (Dt.) - 679 321

GEMS

GEMS Arts and Science College

PG Department Of Microbiology

In Association With IQAC

WATER QUALITY ASSESSMENT PROGRAM

22.03.2022

1.30 pm

Microbiology Laboratory

Radhika R Krishna

Head of the Department
Department of Microbiology
GEMS Arts & Science College
Ramapuram, Kadungapuram Post
Malappuram (Dt.) - 679 321

Dr. NAVEEN MOHAN
PRINCIPAL
GEMS ARTS AND SCIENCE COLLEGE
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PROGRAM REPORT

WATER QUALITY ASSESSMENT PROGRAM

22.03.2022

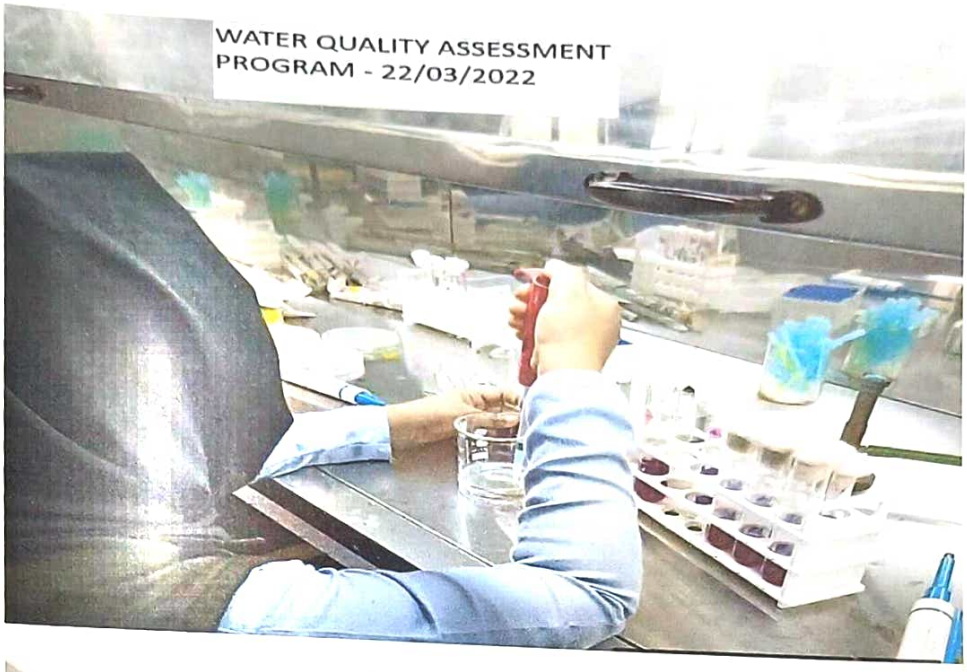
The PG Department of Microbiology undertook a comprehensive water quality assessment program on 22/03/2022 to evaluate the microbial pollution levels in local water sources. The primary method employed was the Most Probable Number (MPN) technique, a widely accepted method for quantifying the concentration of coliform bacteria in water samples. Water samples were collected from various sources, including wells, and municipal water supplies. The MPN method was used to estimate the number of coliform bacteria present in each water sample. The MPN analysis revealed varying levels of coliform contamination in the water samples. Some sources exhibited low coliform counts, indicating good water quality, while others had significantly higher counts, suggesting contamination with fecal matter or other pollutants and conveyed the customer the risk and guided them to decontaminate the water. About 10 students participated in the analysis.

The results highlight the importance of monitoring water quality, especially in regions with limited access to clean water. High coliform counts in certain samples indicate potential health risks associated with waterborne diseases. It emphasizes the need for proper sanitation practices and the treatment of water sources to ensure safe drinking water for communities. The water quality assessment program conducted by the PG Department of Microbiology underscored the importance of regular monitoring and intervention in ensuring safe and clean water sources for communities. The MPN technique proved to be a valuable tool in assessing microbial contamination levels. Continued efforts in water quality assessment and improvement are essential to safeguard public health and the environment.

GEMS ARTS & SCIENCE COLLEGE
RAMAPURAM
MALAPPURAM DT.
Date.....
P.O. KADUNGAPURAM

Dr. NAVEEN MOHAN
PRINCIPAL
GEMS ARTS AND SCIENCE COLLEGE
KADUNGAPURAM (PO), RAMAPURAM
MALAPPURAM DT., KERALA-679 321

Photographs



GEMS ARTS & SCIENCE COLLEGE
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GEMS ARTS AND SCIENCE COLLEGE
KADUNGAPURAM (PO), RAMAPURAM
MALAPPURAM DT., KERALA-679 321

PARTICIPANT LIST

EVENT: WATER QUALITY ASSESSMENT PROGRAM

VENUE: Microbiology Laboratory. **DATE:** 22/03/22

Sl No:	Name	Signature
1.	Rasha	
2.	Sana. P.P	
3	Hashmina Beegam	
4	Nafiya Thasneem	
5.	Hasna Hilal	
6.	Mufeeda T	
7.	Dilsha Sherif. T	
8.	Shaba Jasmin	
9.	Fathima Suman	
10.	Shaneeba. K	

Radhika R krishna

Dr. NAVEEN MOHAN
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PG DEPARTMENT OF MICROBIOLOGY
GEMS Arts and Science College, Ramapuram, Malappuram, Kerala
mbmicrogems@gmail.com

WATER ANALYSIS RESULT

Report No: GEMS/WQA/MBG/2021-2022/0001 Date: 22/03/2022

Customer Name and address		
FAIZAL K K KALLANKUNNAN (H) PUZHAKKATTIRI (PO) MALAPPURAM (DT) 679321	Date of sample received	22/03/2022
	Sampling Done By	CUSTOMER
	Sample Code	WQA/MBG/2021-2022/0001
	Source of sample	WELL
	Sample Quantity	1000ml
	Test Performed Dates	22/03/2022 TO 24/03/2022

Sl. No	Characteristics	Unit	Range	Result
1.	pH	-	6.5 - 8.5	7
2.	Total Alkalinity	mg/l	10 – 300	60mg/l
3.	Total Hardness	mg/l	25 – 300	80mg/l
4.	Chloride	mg/l	10 – 300	80mg/l
5.	Nitrate	mg/l	0.0 – 80.0	0.0mg/l
6.	Fluoride	mg/l	0.0 – 5.0	0.0mg/l
7.	Iron	mg/l	0.0 – 5.0	0.3mg/l
8.	Residual Free Chlorine	mg/l	0.0 – 3.0	0.2mg/l
9.	Ammonia	mg/l	0.0 – 1.0	0.0mg/l
10.	Turbidity	NTU	0.0 - 80	5 NTU
11.	Bacteriological Test	MPN/100 ml	0/100ml	3/100ml

Remarks: The given water sample can be used for drinking purpose only after any of the water purification procedures like boiling, filtration and UV treatment.

Microbiologist
RESNA·N·K

Head of the Department
Radhika R Krishna

Principal
PRINCIPAL
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