

Department : Chemistry

Course : Water Analysis (2022-23)

Sl No	Name of Student	Signature
1	ANULEKSHMI M S	Anu
2	APARNA. P. S	AP
3	ARATHI G S	Ar
4	ASWIN S	Aswin
5	ATHULYA.J	Aj
6	DHANU RAJ R	Dha
7	GOKUL KRISHNAN U	Gk
8	KAVYA VENU	Kavya
9	LAKSHMI K M	Lak
10	MANIKANDAN M	Ma
11	NANDU G NAIR	Nandu
12	PRARTHANA.A.M	Pm
13	THEERTHA S PILLAI	The
14	VAISHNAVI MURALI	Te
15	ABHISHEK V	Ab
16	AMAL KRISHNA	Abe
17	AMAL NARAYAN A	Nan A
18	ANAKHA. M. S	Ms
19	ANANDHU P KUMAR	Te
20	ARJUN R	Arjun
21	GAYATHRI. R.S	Gay
22	HARIKRISHNAN J	Har
23	MEENU. S	Ms
24	NANDU LAL	Nal
25	NEERAJ S N	SN
26	PRANAV P L	Pranav
27	SONA KRISHNAN.U	Suresh
28	SREELAL S	Sree
29	SREELEKSHMI. S. R	SR

Add on Course for II Year BSc Chemistry Students

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"WATER ANALYSIS"

Curriculum

- Unit I :- Definition : Water Analysis, Characteristics - Indian & International standard for drinking water and waste water.
- Unit II : Water Quality Parameters : pH, Temperature, Turbidity, Hardness, DO, BOD, COD, Conductivity,

Objectives

The objective of the course is to

- familiarise the students about different standards of drinking water.
- understand about various water quality parameters.

Learning outcomes

After the completion of course, students were able to analyse different water samples.



Course

<u>Date</u>	<u>Time</u>
10/8/2022 (Thursday)	3.30 pm - 4.30 pm (1 hr)
14/8/2022 (Monday)	3.30 pm - 4.30 pm (1 hr)
17/8/2022 (Thursday)	3.30 - 4.30 pm (1 hr)
20/8/2022 (Saturday)	9.30 - 3.30 pm (5 hr)
12/9/2022 (Monday)	3.30 - 4.30 pm (1 hr)
14/9/2022 (Wednesday)	3.30 - 4.30 pm (1 hr)
17/9/2022 (Saturday)	9.30 - 3.30 pm (5 hr)
24/9/2022 (Saturday)	9.30 - 3.30 pm (5 hr)
28/9/2022 (Wednesday)	3.30 - 4.30 pm (1 hr)
5/10/2022 (Wednesday)	3.30 - 4.30 pm (1 hr)
15/10/2022 (Saturday)	9.30 - 3.30 pm (5 hr)
22/10/2022 Saturday	9.30 - 12.30 pm (3 hr)

Department of Chemistry, MM NSS College, Kottiyam

Add on Course (2022-23)

Water Analysis

Each Question carries 4 marks each ($4 \times 10 = 40$)

Total marks-40

Time: 2h

1. What is the Indian standard for drinking water?
2. What are the various water quality parameters?
3. Write a note on the hardness of water
4. Compare BOD and COD
5. Explain the different sources of water pollution
6. Discuss the determination of hardness of water by volumetric method
7. How can you determine the DO of a water sample?
8. Write suitable methods for the prevention of water pollution
9. Discuss methods for the removal of hardness of water
10. How can you determine the alkalinity of a water sample?

Practical Examination

20 Marks

Time: 2h

Any one of the following (with ✓ mark)

1. Determine the hardness of the given water sample
2. Determine the DO of the given water sample
3. Determine the alkali content of the given water sample

MANNAM MEMORIAL NSS COLLEGE, KOTTIYAM END COURSE EVALUATION

Name of department : Chemistry

Name of course : Water Analysis (2022-23)

Duration of Exam: 4h

Total Marks: 60

Sl No	Name of Student	Marks obtained
1	ANULEKSHMI M S	46
2	APARNA. P. S	47
3	ARATHI G S	47
4	ASWIN S	46
5	ATHULYA.J	47
6	DHANU RAJ R	47
7	GOKUL KRISHNAN U	—
8	KAVYA VENU	48
9	LAKSHMI K M	42
10	MANIKANDAN M	41
11	NANDU G NAIR	40
12	PRARTHANA.A.M	47
13	THEERTHA S PILLAI	47
14	VAISHNAVI MURALI	— TC
15	ABHISHEK V	—
16	AMAL KRISHNA	40
17	AMAL NARAYAN A	40
18	ANAKHA. M. S	48 TC
19	ANANDHU P KUMAR	—
20	ARJUN R	42
21	GAYATHRI. R.S	47
22	HARIKRISHNAN J	40
23	MEENU. S	46
24	NANDU LAL	—
25	NEERAJ S N	—
26	PRANAV P L	45
27	SONA KRISHNAN.U	47
28	SREELAL S	—
29	SREELEKSHMI. S. R	47

Number of Students enrolled: 27

Number of Students completed: 22


Dr. R. PRAKASH CHANDRAN
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drprakash@gmail.com

The add on Course offered to II Year B.Sc chemistry students by Department of chemistry was on 'Water Analysis'. After the completion of course students were capable of doing water analysis on various water quality parameters. The duration of the course was 30 hours. Practical sessions were provided to all students. The ~~assistant~~ Dr. Prakash chandran, HOD chemistry handled the theory & practical sessions. Samples for the water analysis were collected from ~~many~~ various borewells, wells, reservoirs, water tanks.

Feed back

From the feedback of the students it was found that the course was very useful for implimenting the knowledge acquired from the course that into day to day life.



Sd/
Principal
M.M.N.S.S. COLLEGE
KOTTIYAM

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