



**M.V.MUTHIAH GOVERNMENT ARTS COLLEGE FOR WOMEN,  
DINDIGUL – 624 001, TAMIL NADU, INDIA**

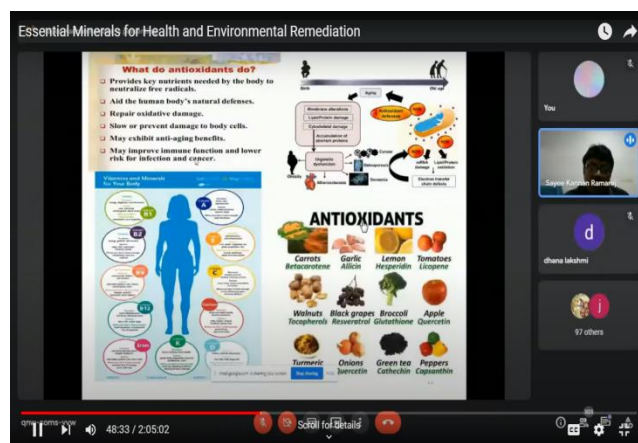
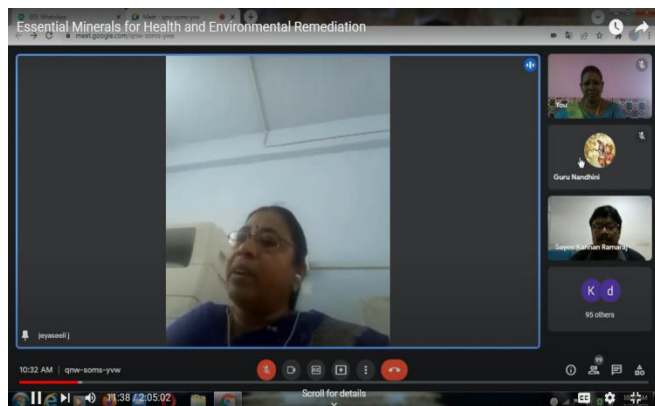
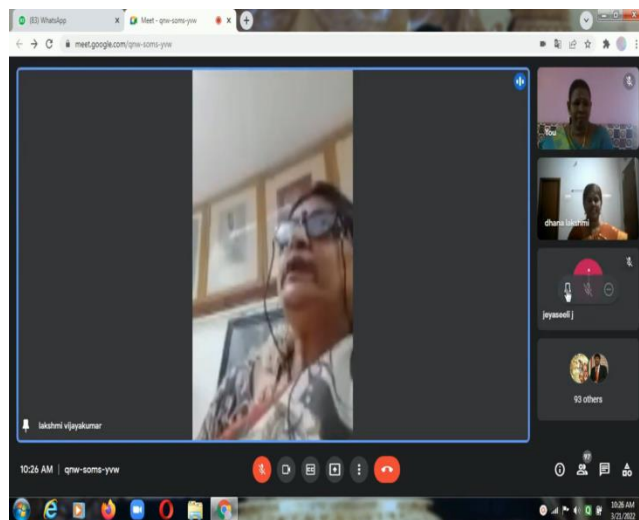
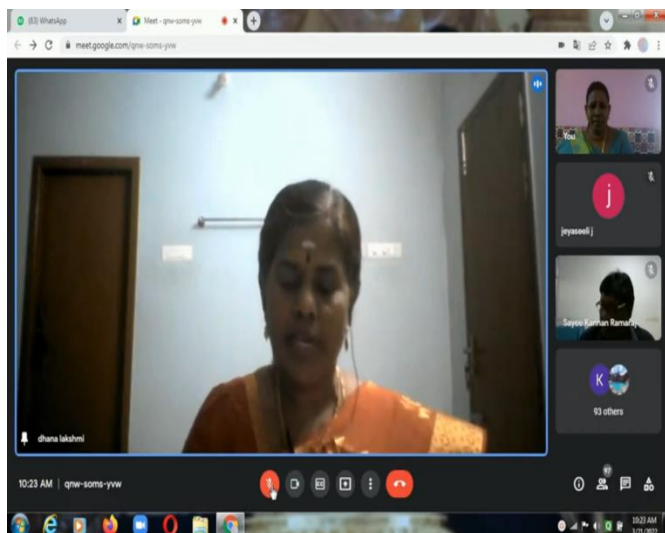
**(AFFILIATED TO MOTHER TERESA WOMEN'S UNIVERSITY, KODAIKANAL)**

**RE-ACCREDITED WITH 'A' GRADE BY NAAC**

**REPORT**

1. Title of the Programme : A One Day State Level Webinar on “Essential Minerals for Health and Environment Remediation” Organized by PG Department of Chemistry.
2. Aim : To enrich the knowledge about essential minerals for health and the environment remediation among the students.
3. Objectives (Outcomes):
  - a) Gain knowledge about the minerals which are essential for Human health.
  - b) Obtain details about the various minerals used for the function and development of the human body.
  - c) Acquire knowledge about the method of environment remediation and the function of minerals in it.
4. Date : 21.03.2022 (Monday)
5. Time : 10.30am to 12.00pm
6. Platform : Google Meet
7. Link : <https://meet.google.com/qnw-soms-yvw>
8. Resource Person : Dr.R.Sayee Kannan,  
Assistant Professor of Chemistry  
Thiagarajar College,  
Madurai
9. Organising Secretary : Dr. M.Dhanalakshmi  
Assistant Professor & Head  
Department of Chemistry  
Coordinator:  
Dr. P.Gnanasoundari  
Assistant Professor  
Department of Chemistry
10. Beneficiaries & No. of Beneficiaries: Students & Staff - 118
11. Certificate Issued Nos: 118
12. **You tube video link:** <https://youtu.be/FpyMKMqkEeM>
13. **Google form link:** <https://forms.gle/Zv5xmo5Q1Wot8V797>

## Screen Shots:



### Essential Minerals for Health and Environmental Remediation

#### Alkaline Minerals

ALUMINUM MAGNESIUM POTASSIUM MANGANESE

#### TOP WATER-RICH FOODS YOU MUST EAT

"BLACK RICE IS HIGHEST IN FLAVONOID ANTHOCYANIN, PAYS FOR FIGHTING FREE RADICALS. ANTHOCYANIN IS THE COMPOUND THAT GIVES BLACK RICE ITS COLOR. HOWEVER, REDUCE SUGARS IN TOTAL ANTIOXIDANTS."

22:56 / 2:05:02

### Essential Minerals for Health and Environmental Remediation

**WATER** – important solvent for all living beings

- SOFT WATER – POTABLE (60-180PPM)
- HARD WATER >200 ppm
- Ca & Mg
- Ions of Sulphate, Chlorides, Bicarbonates

#### Water Hardness Scale

| Grains/Gal  | mg/L & ppm     | Classification |
|-------------|----------------|----------------|
| Less than 1 | Less than 17.1 | Soft           |
| 1-3.5       | 17.1-60        | Slightly Hard  |
| 3.5-7       | 60-120         | Medium Hard    |
| 7-10        | 120-180        | Hard           |
| over 10     | over 180       | Very Hard      |

Oxygen supply to a river: photosynthesis, oxygen release, oxygen consumption in a river: respiration, decomposition, oxygen demand.

37:16 / 2:05:02

### Essential Minerals for Health and Environmental Remediation

#### MANGANESE

NUTRITION BY Ma

#### HEALTH BENEFITS OF MANGANESE

Control sugar levels, Promotes cognition, Maintains physical health, Improves metabolism & digestion, Alleviates premenstrual syndrome, Supports for stress & inflammation, Increases internal density of bone mass, Strengthens the activity of free radicals in the body.

1:10:06 / 2:05:02

### Essential Minerals for Health and Environmental Remediation

2:02:30 / 2:05:02

### Essential Minerals for Health and Environmental Remediation

10:21 AM | qm-some-yyw

0:38 / 2:05:02

# INVITATION



**MLV,MUTHIAH GOVERNMENT ARTS COLLEGE FOR WOMEN**  
**DINDIGUL-624001, TAMILNADU**  
(Affiliated to Mother Teresa Women's University, Kodaikanal)  
(Reaccredited by NAAC with 'A' Grade)

**PG DEPARTMENT OF CHEMISTRY ORGANIZES  
A ONE DAY STATE LEVEL WEBINAR ON  
ESSENTIAL MINERALS FOR HEALTH AND  
ENVIRONMENT REMEDIATION**



#### RESOURCE PERSON

**Dr.R.SAYEE KANNAN**  
M.Sc., M.Phil., M.Ed., Ph.D.,  
Assistant Professor  
in Chemistry  
Thiagarajar College  
Madurai



#### Google Meet

<https://meet.google.com/qnw-soms-yvw>

No Registration Fee  
E-certificate will be  
provided after submitting  
the Feedback Form

#### AGENDA

Date: 21/03/2022 (Monday)  
Time: 10.30 AM – 12.50 PM

Welcome Address  
**Dr.M. DHANALAKSHMI**  
Assistant Professor & Head  
Department of Chemistry

Presidential Address  
**Dr.D.LAKSHMI**  
Principal

Chief Guest Address  
**Dr.R.SAYEE KANNAN**  
M.Sc., M.Phil., M.Ed., Ph.D.,  
Assistant Professor in Chemistry  
Thiagarajar College, Madurai

Vote of Thanks  
**Dr.P.GNANASOUNDARI**  
Assistant Professor,  
Department of Chemistry



ALL ARE CORDIALLY INVITED



**PATRON**  
**Dr.D.LAKSHMI**  
Principal

Organizing Secretary  
**Dr.M.Dhanalakshmi**  
Assistant Professor  
and Head,  
Department of Chemistry

Coordinator  
**Dr.P.Gnanasoundari**  
Assistant Professor,  
Department of Chemistry

Members  
Mrs.J.Jeyaseeli,  
Guest Lecturer  
Mrs.G.Nandhini,  
Guest Lecturer  
Mrs.A.Rincy,  
Guest Lecturer (PTA)  
Mrs.M.Poongodi,  
Guest Lecturer (PTA),  
Mrs.T.Hasiminada Devi,  
Guest Lecturer (PTA)  
Mrs.P.Bharathi  
Guest Lecturer (PTA)

## WHATSAPP INVITATION

🌸 Greetings to All 🌸

🧪 PG Department of Chemistry,  
M.V.Muthiah Government Arts College  
for Women, Dindigul,  
cordially invites you to participate  
in a one day State Level Webinar on  
"Essential Minerals for Health and  
Environment Remediation"

🌟 Resource Person:  
Dr.R.SAYEE KANNAN  
M.Sc.,M.Phil.,M.Ed.,Ph.D.  
Assistant professor of Chemistry,  
Thiagarajar College,  
Madurai.

📌 Date: 21.03.2022.

📌 Time: 10.30 AM to 12.00 PM

📌 No Registration fee

🌹 The participants will receive the  
E-Certificate after filling the feedback  
back form.

🌹 Participants are asked to fill their  
details correctly to get the E-certificate  
without mistakes.

🌹 All are cordially invited

With Regards 🌸

🌟 PATRON:  
Dr.D.LAKSHMI  
PRINCIPAL.

🌟 ORGANIZING SECRETARY:  
Dr.M.DHANALAKSHMI,  
Assistant Professor & Head,  
Department of Chemistry.


🌟 COORDINATOR:  
Dr.P.GNANASOUNDARI,  
Assistant professor of Chemistry.

🌟 MEMBERS:  
Mrs.J.JEYASEELI  
Mrs.G.NANDHINI  
Mrs.A.RINCY  
Mrs.M.POONGODI  
Mrs.T.KASIMINADA DEVI  
Mrs.P.BHARATHI

⚡ Google Meet Link:  
<https://meet.google.com/qnw-soms-yvw>

5:29 pm

# GOOGLE FEED BACK FORM



**M. V. MUTHIAH GOVERNMENT ARTS  
COLLEGE FOR WOMEN, DINDIGUL : PG  
DEPARTMENT OF CHEMISTRY  
ORGANISES A ONE DAY STATE LEVEL  
WEBINAR ON "ESSENTIAL MINERALS  
FOR HEALTH AND ENVIRONMENT  
REMEDATION"**

DATE: 21st MARCH 2022  
TIME :10.30 A.M -12.00 P.M

chemistry@mvmwgadgl.ac.in [Switch account](#)

\* Required

Email \*

Your email

1. Name of the Participant (Ex.Mrs.G.NANDHINI) (In CAPITAL LETTER) \*

Your answer

2. Course / Designation (Ex: II B.Sc. CHEMISTRY / ASSISTANT PROFESSOR OF CHEMISTRY) (In CAPITAL LETTER) \*

Your answer

3. Name of the Institution with place and district (In CAPITAL LETTER) \*

Your answer

4. Department \*

Your answer

5. State \*

Your answer

6. Mobile Number \*

Your answer

7. I certify that the particulars furnished above by me are true to the best of my knowledge. \*

☐ Yes

8. Your valuable Feedback \*

☐ Excellent

☐ Very Good

☐ Satisfactory

9. The organization and conduct of the webinar was \*

☐ Excellent

☐ Very Good

☐ Satisfactory

10. Your overall impression about the program \*

☐ Excellent

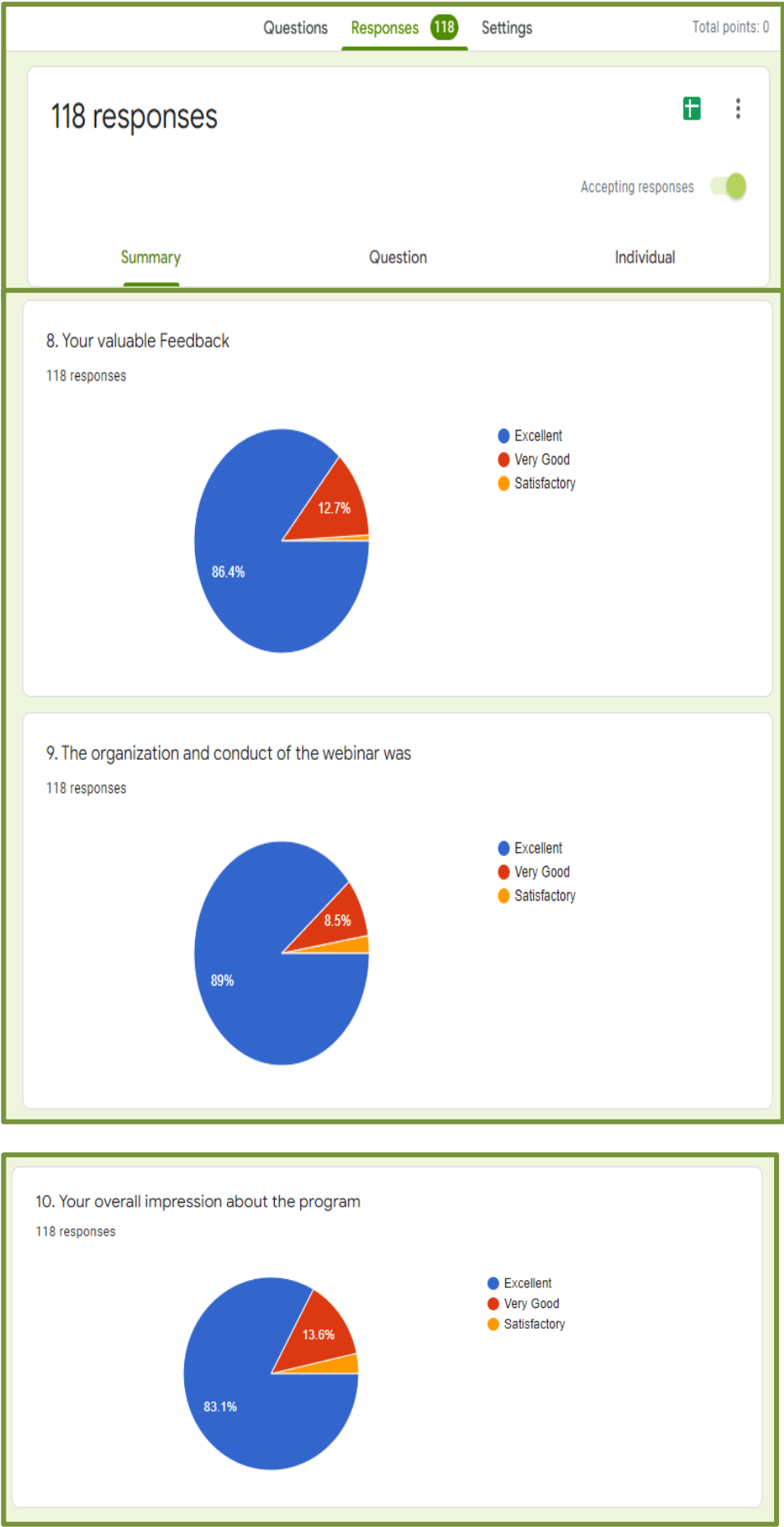
☐ Very Good

☐ Satisfactory

☐ Send me a copy of my responses.

**Submit** [Clear form](#)

# RESPONSES FOR THE WEBINAR



## E- CERTIFICATE MODEL





## **Report:**

The PG Department of Chemistry, M.V.Muthiah Government Arts College for Women, Dindigul organised a one day State Level Webinar on “Essential Minerals for Health and Environment Remediation” on 21.03.2022 through online mode using Google Meet Live stream.

Dr. M. Dhanalakshmi, Assistant Professor and Head, Department of Chemistry welcomed the online gatherers and Dr.D.Lakshmi, Principal of the College delivered the Presidential address. The Resource Person, Dr.R.Sayee Kannan, Assistant Professor of Chemistry, Thiagarajar College, Madurai, highlighted the importance of Minerals which are available on the earth and in foods that help our bodies develop and function using power point presentation. He gave a clear picture about the functions and uses of each mineral which are essential for human health. He also elaborated the significance of minerals used for the environmental remediation.

Dr. P. Gnanasoundari, Assistant Professor of Chemistry proposed the Vote of Thanks. This Webinar was exclusively arranged for the B.Sc. & M.Sc. science major students to enhance their knowledge about the minerals which are essential for human health and used as remedy to control the environment pollution. Staff & students from our college and other college had participated and got benefited.

The Google Feedback Forms were collected from 118 participants and E-Certificates were issued through their registered email.

Report – Prepared by-Dr. M. Dhanalakshmi Assistant Professor and Head, Dept. of Chemistry.