From

Head
Department of Chemistry
MES Keveeyam College, Valanchery

To

The Principal
MES Keveeyam College, Valanchery

Sir,

Sub: Request for conducting Certificate Course Reg.

The Department of Chemistry would like to conduct a certificate course on "**Chemistry in Everyday Life**" of 30 hours duration. The course is aimed for undergraduate students of any discipline. I also suggest following teachers as Board of Studies members.

1. Dr. C. Soumini, Assistant Professor
2. Dr. Jisha V. S., Assistant Professor
3. Dr. T. K. Saifuneesa, Assistant Professor
4. Smt. Jaseela M. A., Assistant Professor
5. Mr. Sreejith M. P.,Assistant Professor in Chemistry, Grace Valley College of Arts and Science, Maravattom

I kindly request you to grant permission for the same.

Thanking you

Yours faithfully,

K. M. Rukkiya

Place: Valanchery

Date: 6/10/2022

SHAJID P.P
ASSISTANT PROFESSOR
IN CHARGE OF PRINCIPAL
M.E.S KEVEEYAM COLLEGE
VALANCHERY, PIN 676 552

MES KEVEEYAM COLLEGE
VALANCHERY

P.O.Valanchery, Malappuram Dist, Kerala, Pin:676 552.
Phone : 0494-2642670, 0494 2644380
www.meskeveeyamcollege.ac.in,
principal@meskeveeyamcollege.ac.in

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ISO 9001:2015 certified institution

Proceedings of the Principal, MES Keveeyam College, Valanchery

Order No. ACS/2022-2023/03 Dated 11/10/2022

Sub: Certificate Course – Reg.

Ref : (1) Request from the Head of the Department of Chemistry dt. 06/10/2022

ORDER

As per the reference cited (1), a request was received from the Head of the Department of Chemistry to start a certificate course on **Chemistry in Everyday Life:** KVM/CC/CHE/22-23/01. In the same letter, the head has recommended a panel of academicians to be included in the Board of Studies.

The Board of Studies for the above course is constituted of the following members

1. Dr. C. Soumini, Assistant Professor MES Keveeyam College Valanchery
2. Dr. Jisha V. S., Assistant Professor MES Keveeyam College Valanchery
3. Dr. T. K. Saifuneesa, Assistant Professor, MES Keveeyam College, Valanchery
4. Smt. Jaseela M. A. Assistant Professor, MES Keveeyam College Valanchery
5. Mr. Sreejith M. P.,Assistant Professor in Chemistry, Grace Valley College of Arts and Science, Maravattom

Sanction is hereby accorded to the Department of Chemistry for conducting the above-referred certificate course.

Order is issued accordingly.

Principal

Copy to:

1. **HoD, Department of Chemistry**
2. **File**

SHAJID P P
ASSISTANT PROFESSOR
IN CHARGE OF PRINCIPAL
M.E.S KEVEEYAM COLLEGE
VALANCHERY, PIN 676 552

Minutes of Board of Studies Meeting

Date: 12/10/2022

Time: 11.00 AM

Venue: Department of Chemistry

Attendees

1. Dr. Jisha V. S., Assistant Professor, Dept. of Chemistry, MES Keveeyam College Valanchery
2. Dr. C. Soumini, Assistant Professor Dept. of Chemistry, MES Keveeyam College Valanchery
3. Dr. T. K. Saifuneesa, Assistant Professor , Dept. of Chemistry, MES Keveeyam College Valanchery
4. Smt Jaseela M. A. Assistant Professor, Dept. of Chemistry, MES Keveeyam College Valanchery
5. Mr. Sreejith M. P.,Assistant Professor in Chemistry, Grace Valley College of Arts and Science, Maravattom

Agenda

1. Introducing the current Certificate Course– Prof. K. M. Rukiya discussed about the need and importance of current certificate course.
2. Syllabus discussion – Had a discussion on the syllabus for the required course. and timings of the course. A time table for the same was decided to be formulated.
3. Discussion on the outcome of the course.

Decisions

1. Decide detailed syllabus and timings of the course
2. A time table for the same was decided to be formulated.
3. Ensured on giving practical sessions.

Action Item

1. Dr. C. Soumini and Dr. Jisha V. S. and for syllabus structuring.
2. Time table for the course by Dr. T. K. Saifuneesa
3. Assessment to be handled by Smt. Jaseela M. A.
4. Certificate arrangements by Dr. T. K. Saifuneesa

Minutes Recorded by: Prof. K. M. Rukiya

These minutes will be circulated to all committee members for their reference & review.

Research and PG Department of Chemistry
MES Keveeyam College, 676552

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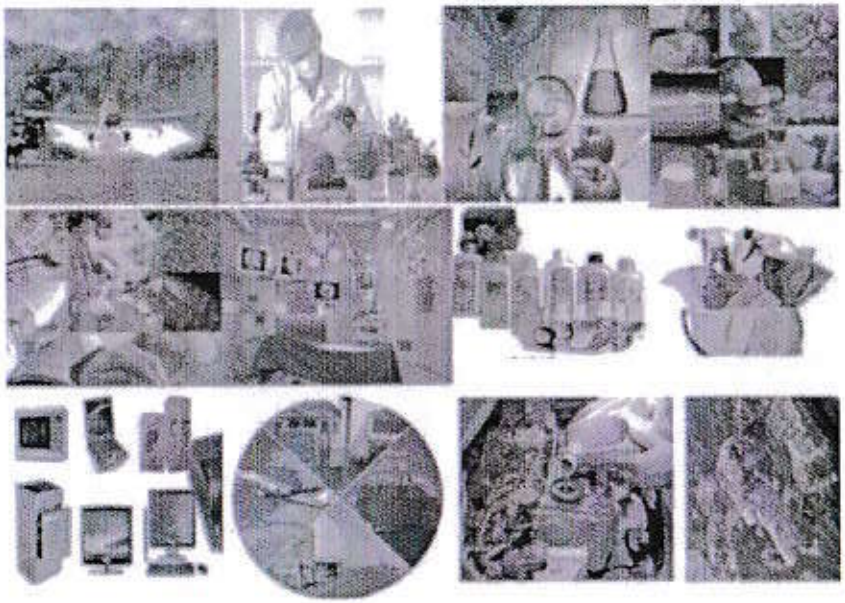
Research and PG Department of Chemistry



Certificate course on

Chemistry in everyday life

Duration : 30 hours

Course starts from

19.10.2022

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MES KEVEEYAM COLLEGE VALANCHERY

DEPARTMENT OF CHEMISTRY

Chemistry in Everyday Life: KVM/CC/CHE/22-23/01

SYLLABUS

(2022- 2023)

Module 1: Introduction to Chemistry (4 Hours)

Basic concepts: atoms, molecules, elements, compounds. Chemical reactions and equations. The periodic table and chemical properties

Module 2: Chemistry in Household Products (5 Hours)

Cleaning agents: detergents, soaps, and disinfectants, chemical reactions in cooking, food additives, and preservatives. Cosmetics and personal care products: composition and safety

Module 3: Chemistry in Food and Nutrition (6 Hours)

Macronutrients and micronutrients: proteins, carbohydrates, fats, vitamins, and minerals. Chemical processes in digestion and metabolism. Food labels and nutritional information: understanding and evaluating

Module 4: Chemistry in Medicine (6 Hours)

Common pharmaceuticals: active ingredients and mechanisms of action. Over-the-counter vs. prescription medications. Drug interactions and side effects. Vaccines and antibiotics: chemical basis and importance

Module 5: Environmental Chemistry (6 Hours)

Air and water pollution: sources, effects, and chemical solutions, Waste management and recycling: chemical perspectives. Sustainable chemistry: green chemistry principles and practices. Impact of chemicals on ecosystems and human health

Module 6: Chemical Safety and Awareness (3 Hours)

Chemical hazards in daily life: identification and prevention. Safe storage and disposal of chemicals

First aid for chemical exposures. Regulatory frameworks and guidelines

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for HoD

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MES KEVEEYAM COLLEGE VALANCHERY

DEPARTMENT OF CHEMISTRY

CERTIFICATE COURSE

Chemistry in Everyday Life: KVM/CC/CHE/22-23/01

Credit 3

30 hrs.

Objectives

- To foster an appreciation for the relevance and importance of chemistry in everyday decisions.
- To understand the chemistry of certain things in our day-to-day life.
- To recognize the role of chemistry in household products, food, medicine, and the environment.
- To develop critical thinking skills by analyzing chemical processes in daily activities.
- To promote awareness of chemical safety and environmental impacts.

Outcomes

- Identify and explain the chemical components and reactions in common household items.
- Understand the chemical basis of nutrition and the role of different nutrients.
- Explain the chemical principles behind common medications and their effects on the body.
- Apply knowledge of chemistry to make informed decisions regarding health, safety, and environmental issues.

Course Contents

- Theory: 25 Hrs.
- Practical: 05 Hrs.

Scheme of evaluation

- Written Examination (Conventional): 30 marks
- Practical : 10 marks
- Total : 40 marks

A Grade: 80% and above, B Grade: 60 – 79%, C Grade: 40 – 59%, below 40% D Grade

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MES KEVEEYAM COLLEGE VALANCHERY

Department of Chemistry

Unique ID of the Certificate Course : KVM/CC/CHE/22-23/01

Sl No	Name of the Student	Class	Dates														
			19/10/22	25/10/22	26/10/22	29/10/22	2/11/22	4/11/22	7/11/22	9/11/22	11/11/22	14/11/22	16/11/22	18/11/22	21/11/22	23/11/22	25/11/22
1.	Aneesa Hiba K	1st Bsc															
2.	Ayishath M	"															
3.	Aysha Zahwa K V	"															
4.	Basila	"										A	A				
5.	Farsana	"					A										
6.	Fathima Hiba K.	"						A									
7.	Fathima Rahila P	"															
8.	Fathima Rinsha	"							A	A					A		
9.	Haneena C K	"						A				A					
10.	Hiba Banu N P	"							A								
11.	Minha P	"	A														

SH[illegible] P P
ASSIST[illegible] PROFESSOR
IN CHAR[illegible] PRINCIPAL
M[illegible] S K[illegible] COLLEGE
VALANC[illegible] 676 552

12.	Mohsina Sherin	"															
13.	Mufeedha K	"															
14.	Rabeeyath	"		A													
15.	Rinshidha P	"							A								
16.	Risvana K K	"															
17.	Shabeea Jebin	"															
18.	Shida Subna Meleveetil	"															
19.	Summayya P	"															
20.	Sanadhayini V P	"															
21.	Aleena Rani K P	"															
22.	Ayisha Rasana P	"											A				
23.	Aysha Adheel P	"															
24.	Baheeja Beegum K R	"															
25.	Hajara Shifa K V	"															
26.	Mushrifa Shirin K K	"															
27.	Nafeesa Zakira K K	"															

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28.	Najiya Nasrin T P	"															
29.	Reneesha E P	"															
30.	Winsa Kalithodayil	"										A					

Signature of teachers who had engaged the sessions:

Signature of HoD:

Department seal:

Signature of Principal:

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Department of Chemistry

Unique ID of the Certificate Course : KVM/CC/CHE/22-23/01

Sl No	Name of the Student	Class	Dates														
			30/11/22	2/12/22	5/12/22	7/12/22	9/12/22	12/12/22	14/12/22	16/12/22	19/12/22	21/12/22	22/12/22	29/12/22	3/1/23	5/1/23	6/1/23
1.	Aneesa Hiba K	1st Bsc															
2.	Ayishath M	"															
3.	Aysha Zahwa K V	"															
4.	Basila	"					A								A		
5.	Farsana	"							A	A							
6.	Fathima Hiba K.	"		A													
7.	Fathima Rahila P	"															
8.	Fathima Rinsha	"			A				A	A							
9.	Haneena C K	"			A												
10.	Hiba Banu N P	"															
11.	Minha P	"			A												

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16.	Risvana K K	"														
17.	Shabeea Jebin	"														
18.	Shida Subna Meleveetil	"														
19.	Summayya P	"														
20.	Sanadhayini V P	"														
21.	Aleena Rani K P	"														
22.	Ayisha Rasana P	"							A							
23.	Aysha Adheel K	"														
24.	Baheeja Beegum K R	"														
25.	Hajara Shifa K V	"														
26.	Mushrifa Shirin K K	"											A			
27.	Nafeesa Zakira K K	"				A										

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Question Paper

Chemistry in Everyday Life: KVM/CC/CHE/22-23/01

Time 2 hrs

Marks 30

Each question carries five marks. Answer any six.

1. What are food additives? Give its classification.
2. Explain how to read a food label to understand the nutritional information.
3. Explain the importance of vaccines in disease prevention.
4. How should corrosive chemicals be stored safely?
5. List two food additives and their uses.
6. Describe the role of carbohydrates in the human body.
7. Describe the chemical basis and mechanism of action for a commonly used pharmaceutical, such as ibuprofen or acetaminophen.
8. Write notes on vaccines and antibiotics.

for HoD

Dr. Soumini-C

Research & PG Department of Chemistry
M.E.S Keveeyam College, 676552

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List of Students who passed the course

Sl No.	Name	~~Percentage~~/Marks
1.	Aneesa Hiba K	38
2.	Ayishath M	36
3.	Aysha Zahwa K V	36
4.	Basila	34
5.	Farsana	36
6.	Fathima Hiba K.	39
7.	Fathima Rahila P	38
8.	Fathima Rinsha	32
9.	Haneena C K	36
10.	Hiba Banu N P	37
11.	Minha P	39
12.	Mohsina Sherin	38
13.	Mufeedha K	33
14.	Rabeeyath	35
15.	Rinshidha P	36
16.	Risvana K K	36
17.	Shabeea Jebin	38
18.	Shida Subna Meleveetil	39
19.	Summayya P	38
20.	Sanadhayini V P	38
21.	Aleena Rani K P	38
22.	Ayisha Rasana P	38
23.	Aysha Adheel P	36
24.	Baheeja Beegum K R	35
25.	Hajara Shifa K V	35
26.	Mushrifa Shirin K K	38
27.	Nafeesa Zakira K K	39
28.	Najiya Nasrin T P	38
29.	Reneesha E P	36
30.	Winsa Kalithodayil	35

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VALANCHERY

Research and PG Department of Chemistry
MES Keveeyam College, 676552

MES KEVEEYAM COLLEGE VALANCHERY

DEPARTMENT OF CHEMISTRY

Chemistry in Everyday Life KVM/CC/CHE/22-23/01

Time Table

Sl. no.	Date	Day	Name of the faculty engaging the class	time
1.	19/10/22	Wednesday	Dr. Jisha V. S.	3.30-4.30
2.	21/10/22	Friday	Dr. C. Soumini	3.30-4.30
3.	26/10/22	Monday	Dr. C. Soumini	3.30-4.30
4.	28/10/22	Friday	Dr. Jisha V. S.	3.30-4.30
5.	2/11/22	Wednesday	Dr. C. Soumini	3.30-4.30
6.	4/11/22	Friday	Dr. C. Soumini	3.30-4.30
7.	7/11/22	Monday	Dr. Jisha V. S.	3.30-4.30
8.	9/11/22	Wednesday	Dr. C. Soumini	3.30-4.30
9.	11/11/22	Friday	Smt. Jaseela M. A.	3.30-4.30
10.	14/11/22	Monday	Smt. Jaseela M. A.	3.30-4.30
11.	16/11/22	Wednesday	Dr. C. Soumini	3.30-4.30
12.	18/11/22	Friday	Smt. Jaseela M. A.	3.30-4.30
13.	21/11/22	Monday	Dr. Jisha V. S.	3.30-4.30
14.	23/11/22	Wednesday	Dr. T. K. Saifuneesa	3.30-4.30
15.	25/11/22	Friday	Dr. T. K. Saifuneesa	3.30-4.30
16.	30/11/22	Monday	Dr. Jisha V. S.	3.30-4.30
17.	2/12/22	Wednesday	Dr. T. K. Saifuneesa	3.30-4.30
18.	5/12/22	Friday	Dr. T. K. Saifuneesa	3.30-4.30
19.	7/12/22	Monday	Dr. C. Soumini	3.30-4.30
20.	9/12/22	Wednesday	Dr. T. K. Saifuneesa	3.30-4.30
21.	12/12/22	Friday	Dr. T. K. Saifuneesa	3.30-4.30
22.	14/12/22	Monday	Dr. Jisha V. S.	3.30-4.30
23.	16/12/22	Wednesday	Dr. T. K. Saifuneesa	3.30-4.30
24.	19/12/22	Friday	Dr. Jisha V. S.	3.30-4.30
25.	21/12/22	Monday	Smt. Jaseela M. A.	3.30-4.30
26.	22/12/22	Wednesday	Dr. C. Soumini	3.30-4.30
27.	23/12/22	Friday	Dr. C. Soumini	3.30-4.30
28.	3/1/23	Tuesday	Dr. Jisha V. S.	3.30-4.30
29.	5/1/23	Thursday	Smt. Jaseela M. A.	3.30-4.30
30.	6/1/23	Friday	Smt. Jaseela M. A.	3.30-4.30

Dr. Jisha V. S. – 8 hours

Dr. C. Soumini – 8 hours

Smt. Jaseela M. A. - 7 hours

Dr. T. K. Saifuneesa – 7 hours

K. M. Rukkiya
Head of the Department

Research and PG Department of Chemistry
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Certificate

KVM/CC/22-23/01

This is to certify that

Rinshidha P

has successfully completed the certificate course on "Chemistry in Everyday Life" conducted by the Department of Chemistry, MES Keveeyam College, Valanchery during the period 2022-23.

CO-ORDINATOR

HEAD OF DEPARTMENT

Dr. K.P. VINOD KUMAR
PRINCIPAL

MES KEVEEYAM COLLEGE VALANCHERY

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Certificate

KVM/CC/22-23/01

This is to certify that

Minha P.

has successfully completed the certificate course on "Chemistry in Everyday Life" conducted by the Department of Chemistry, MES Keveeyam College, Valanchery during the period 2022-23.

CO-ORDINATOR

for. HEAD OF DEPARTMENT

Dr. K.P. VINOD KUMAR
PRINCIPAL