

SHRI SHIVAJI EDUCATION SOCIETY, AMRAVATI'S SCIENCE COLLEGE,

NAGPUR

PG DEPARTMENT OF CHEMISTRY

Academic Session: 2022-23

Course Coordinator Report

Course Name: **Chemistry Useful in Life**

A free Add-On Course for PG students in the Department of Chemistry, Shri Shivaji Education Society Amravati's Science College, Congress Nagar, Nagpur was held from 16 January to 16 April 2023. The motto behind this course is to enrich students with knowledge of Chemistry useful in life. It is 10-week duration course. Practical and Theory classes are arranging for students. For this course 25 Students are enrolled. Theory exam was MCQ based containing 40 questions and Each question having 2 marks. Practical of 20marks. It was based performance evaluation in the laboratory.

Number of Students Appeared: -25

Number of Students Passed: -25

Skony

Dr. S. J. Kene

Course Coordinator
S. S. S. A.'s Science College
Nagpur

To,
The Principal
SSES Aml's Science College,
Congress Nagar, Nagpur-12

Subject: For permission to conduct the add on courses in the department during the session
2022 - 23

Respected Sir,

This is to request you that, the teachers of our Chemistry department have prepared the syllabus and modules of the 30 hours certificate courses for the session 2023-2024.

The details of the course module, syllabus and time table is submitted here with.

Hence please permit to run the add on courses and oblige me.

Thanking you

Date

20/06/22

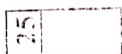
Yours sincerely



(Prof. R. U. Khope)

Professor & Head
Department of Chemistry,
Sri Shriji Science College,
Congress Nagar, Nagpur-12

Permitted
R. U. Khope



SHRI SHIVAJI EDUCATION SOCIETY, AMRAVATI'S SCIENCE COLLEGE,
NAGPUR

PG DEPARTMENT OF CHEMISTRY

Academic Session

2022-2023

Date: 10/01/2023

NOTICE

All the students of M.Sc. (Chemistry) are hereby informed that the Department of Chemistry is going to start the "Certificate Course in Chemistry Useful in life" from 16th Jan- 16th April 2023. So, the interested students should register their name for this course in the department of Chemistry. The Schedule is as follows.

Registration starts on: 11/01/23 (11:00 am to 4:00 pm)

Registration end on: 14/01/23(4:00 pm)

Venue of registration: Department of Chemistry

Course Coordinator



Dr. Shubhangi J. Kene

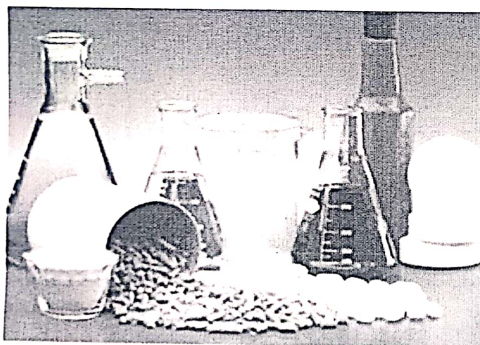
Course Coordinator
S.S.E.S.A.'s Science College
Nagpur

The value Added Course
in
"Chemistry Useful in Life"

From 16 Jan 2023 to 16 April 2023

Course Coordinator
Dr. Shubhangi J. Kene

Session 2022-23



Objective of Course:

1. *To understand the importance of chemistry in the processing of food products.*
2. *To give insight of the chemistry to prepare the polymers and the other products.*

Duration of the Course: 30 Hrs

No. of Participants: 30

Course Fees: Free

Commencement on: 21/01/2023

Organized by

PG DEPARTMENT OF CHEMISTRY
SHRI SHIVAJI EDUCATION SOCIETY, AMRAVATI'S
SCIENCE COLLEGE, NAGPUR

About the Course:

Chemistry is a very important part of our daily lives, silently influencing everything around us. It's the science that explores what things are made of and how they change under different conditions.

Chemicals are the fundamental components of everything. Chemical molecules make up all food, including carbs, vitamins, lipids, proteins, and fiber, which are all safe and often desirable.

Chemicals have an important part in the manufacturing and preservation of food. Food preservation chemicals have tremendously aided in the preservation of food for a longer duration. Cans of food additives, flavourings, and nutritional supplements can all contribute to improve the quality and quantity of meals.

Chemistry has provided the globe with vital fertilizers, herbicides, insecticides, and fungicides to aid in the production of healthy and nutritious crops, fruits, and vegetables. Urea, calcium superphosphates, ammonium sulphate, and sodium nitrate are all significant fertilisers.

Course Learning Outcome:

After the completion of the course, student will be able:

1. To understand the fact and vitamins in the milk and various food.
2. To identify purity and Composition of edible oils.
3. To understand the Classification and Application of polymers.
4. To understand artificial food colorants, sweeteners and preservatives

Faculty: The classes are delivered by the expert faculty **Dr. S. J. Kene**

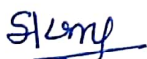
Duration of the Course: 30 Hrs

No. of times offered in a year: Once

Fees: Free

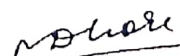
Certification: All successful students shall be awarded by a certificate.

Coordinator



Dr. S. J. Kene
Assistant Professor

Principal



Prof. M. P. Dhore
Shivaji Science College,
Congress Nagar, Nagpur

**SHRI SHIVAJI EDUCATION SOCIETY, AMRAVATI'S SCIENCE
COLLEGE, NAGPUR**

PG DEPARTMENT OF CHEMISTRY

Academic Session: 2023-24

Title of the course: "Chemistry Useful in Life"

Number of lecture hours: 30 Hrs

Course Learning Outcome:

After the completion of the course, student will be able:

1. To understand the fat and vitamins in the milk and various food.
2. To identify purity and Composition of edible oils.
3. To understand the Classification and Application of polymers.
4. To understand artificial food colorants, sweeteners and preservatives

Content of the course:

Unit-1

Dairy Products: Composition of milk and milk products. Minerals in milk and butter. Estimation of added water in milk. Analysis of fat content. Analysis of caffeine in coffee and tea. Detection of chicory in coffee. Beverages. determination of methyl alcohol in alcoholic beverages. Artificial food colorants: coal tar dyes and non- permitted colors and metallic salts. Analysis of pesticide residues in food.

Unit-2

Food additives, adulterants and contaminations: Food preservatives like benzoates, propionates, sorbates, sulphites. Artificial sweeteners - aspartame, saccharin, dulcin, sucralose and sodium cyclamate.

Unit-3

Vitamins: Classification and nomenclature sources, deficiency diseases and structures of Vitamin A1, B1, C, D, E and K1. Oils and Fats: Composition of edible oils detection of Purity, Rancidity of fats

Unit-3

Vitamins: Classification and nomenclature sources, deficiency diseases and structures of Vitamin A1, B1, C, D, E and K1, Oils and Fats: Composition of edible oils detection of Purity, Rancidity of fats and oils, Tests for adulterants like organone oil and mineral oils.


Unit-4

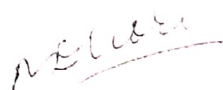
Polymers: Basic concepts of polymers, Classification, Application of polymers as Plastics in Electronic, Automobiles components, Medical Fields and aerospace materials, Problems of Plastic waste managements.

Practicals: - Methods for analysis of alcoholic beverages

1. Determination of Ethyl alcohol content
2. Determination of Methyl alcohol
3. Determination of Residue on evaporation
4. Determination of Reducing sugars
5. Determination of Sorbic acid


Course Coordinator


IQAC Coordinator
Internal Quality Assurance Cell
(IQAC)
S. S. E. S. A. Science College
Congress Nagar, Nagpur.


Principal
Principal
S. S. E. S. Amravati's
Science College, Nagpur.

The Structure of Syllabus and system of evaluation -

Course	Theory Papers and Practical	Total Marks	
		Theory	Practical
Certificate Course in "Certificate Course in Chemistry Useful in life"	Theory paper- " Chemistry Useful in Life" * Theory examination will be of MCQ pattern having 40 questions each with equal marks.	80	20
	* Practical examination will be based on performance evaluation in the laboratory	100	

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Dr. S. J. Kene

Course Coordinator
S.E.S.A.'s Science College
Nagpur

**SHRI SHIVAJI EDUCATION SOCIETY, AMRAVATI'S SCIENCE
COLLEGE, NAGPUR**

PG DEPARTMENT OF CHEMISTRY

Academic Session: 2022-23

Title of the course: "Chemistry Useful in Life"

Number of lecture hours: 30 Hrs

Week-Wise Teaching Plan

Week	Hours	Topics
Week 1	2	Composition of milk and milk products. Minerals in milk and butter. Estimation of added water in milk. Analysis of fat content
	1	Determination of Ethyl alcohol content
Week 2	2	Analysis of caffeine in coffee and tea. Detection of chicory in coffee. Beverages, determination of methyl alcohol in alcoholic beverages
	1	Determination of Ethyl alcohol content
Week 3	2	Artificial food colorants: coal tar dyes and non-permitted colors and metallic salts. Analysis of pesticide residues in food.
	1	Determination of Methyl alcohol
Week 4	2	Food additives, adulterants and contaminations: Food preservatives like benzoates, propionates, sorbates, sulphites
	1	Determination of Methyl alcohol
Week 5	2	Artificial sweeteners - aspartame, saccharin, dulcin, sucralose and sodium cyclamate.
	1	Determination of Residue on evaporation

Week 6	2	Vitamins: Classification and nomenclature sources, deficiency diseases and structures of Vitamin A1, B1, C, D, E and K1
	1	Determination of Residue on evaporation
Week 7	2	Oils and Fats: Composition of edible oils detection of Purity
	1	Determination of Reducing sugars
Week 8	2	Rancidity of fats and oils. Tests for adulterants like orgamone oil and mineral oils
	1	Determination of Reducing sugars
Week 9	2	Polymers: Basic concepts of polymers. Classification, Application of polymers as . Plastics in Electronic, Automobiles components.
	1	Determination of Sorbic acid
Week 10	2	Medical Fields and aerospace materials, Problems of Plastic waste managements.
	1	Determination of Sorbic acid

**SHRI SHIVAJI EDUCATION SOCIETY, AMRAVATI'S SCIENCE
COLLEGE, NAGPUR**

PG DEPARTMENT OF CHEMISTRY

Academic Session: 2022-23

Title of the course: "Chemistry Useful in Life"

Time Table

Day	Time	Theory/Practical	Name of Teacher
Friday	3:30pm - 4:30pm	Theory	Dr. S. J. Kene
Saturday	3:30pm - 4:30pm	Theory	Dr. S. J. Kene
Saturday	4:30pm - 5:30pm	Practical	Dr. S. J. Kene

Course Coordinator



Dr. Shubhangi J. Kene

**Course Coordinator
S.S.E.S.A.'s Science College
Nagpur**

Shri Shivaji Education Society Amravati's
Science College Congress Nagar Nagpur

Department of Chemistry

Add on course

Title: "Certificate Course in Chemistry Useful in life"

Attendance Sheet-2022-2023

Course Coordinator: Dr. Shubhangi Jagdish Kene

Sr. No	Roll No.	Name of the Student
1	101	AAKANSHA RAJKUMAR DANDEWAR
2	102	AASTHA RUSHIPAL PATLE
3	103	ADITYA ASHOK GADPAYLE
4	104	ADITYA GOPAL SHRIVASTAVA
5	105	ADITYA TEJRAM UKE
6	106	AMEYA RAMESH DHORE
7	107	BIAGYASHREE SHIVSHANKAR BOKDE
8	108	DIKSHA DILICHAND GEDAM
9	109	HIMANI VIJAY BORKAR
10	110	MAITHILI MANOJ KANCHANWAR
11	111	MANISHA VISHNU SHARMA
12	112	NAYNA OMPRAKASH GURJAR
13	113	NISHANT BHOJRAJ DHOBALÉ
14	114	PANKAJA DILIP DAKHOLE
15	115	PRIYANKA RAJENDRA PHARANDE
16	116	SADNYA ARUN BHADANG
17	117	SAKSHI ANAND NAGDEVE
18	118	SAKSHI ARUN IRASKAR
19	119	SANIYA AMINBEG MIRZA
20	120	SHIVANI DATTATRAY RAUT
21	121	SONALI PRAKASH JOGI
22	122	SONIYA ANIL MENDHE
23	123	SUNIL CHANDRASHEKHAR JAMBHORE
24	124	SWASTIC SANJAY NANDANWAR
25	125	TRIVENI RAVINDRA FULKAR

Shri Shivaji Education Society Amravati's Science College, Congress Nagar, Nagpur.

ADD-ON COURSE EXAMINATION (2022-2023)

Certificate Course: "Certificate Course in Chemistry Useful in life"

NOTICE

Date: 10/04/2024

All the registered students of the add-on Course on "Certificate Course in Chemistry Useful in life" under the Department of Chemistry for the session 2023-24 are hereby informed that the **Theory examination** is to be scheduled on 15/04/2023 (Saturday) from 10:30 am to 11:30 am in the Chemistry classroom (C2) at our college center. Also, the Practical examination in PG lab is followed by the theory Examination. All Students should be present in classroom (C2x) 10 mins. of the scheduled time of examination. List of students along with roll no is given as Below:



Dr. S.J. Kene.
Course Coordinator
Department of Chemistry.

Course Coordinator
E.S.A.'s Science College
Nagpur

Shri Shivaji Education Society Amravati's
Science College Congress Nagar Nagpur
Department of Chemistry
Add on course

Title: "Certificate Course in Chemistry Useful in life"

Attendance Sheet-2022-2023

Course Coordinator: Dr. Shubhangi Jagdish Kene

Date: -15/04/2023

Sr. No	Roll No.	Name of the Student	Signature
1	101	AAKASHA RAJKUMAR DANDEWAR	<i>As</i>
2	102	AASTHA RUSHIPAL PATLE	<i>As</i>
3	103	ADITYA ASHOK GADPAYLE	<i>As</i>
4	104	ADITYA GOPAL SHRIVASTAVA	<i>As</i>
5	105	ADITYA TEJRAM UKE	<i>As</i>
6	106	AMEYA RAMESH DHORE	<i>As</i>
7	107	BHAGYASHREE SHIVSHANKAR BOKDE	<i>As</i>
8	108	DIKSHA DILICHAND GEDAM	<i>As</i>
9	109	HIMANI VIJAY BORKAR	<i>As</i>
10	110	MAITHILI MANOJ KANCHANWAR	<i>As</i>
11	111	MANISHA VISHNU SHARMA	<i>As</i>
12	112	NAYNA OMPRAKASH GURJAR	<i>As</i>
13	113	NISHANT BHOJRAJ DHOBALE	<i>As</i>
14	114	PANKAJA DILIP DAKHOLE	<i>As</i>
15	115	PRIYANKA RAJENDRA PHARANDE	<i>As</i>
16	116	SADNYA ARUN BHADANG	<i>As</i>
17	117	SAKSHI ANAND NAGDEVE	<i>As</i>
18	118	SAKSHI ARUN IRASKAR	<i>As</i>
19	119	SANIYA AMINBEG MIRZA	<i>As</i>
20	120	SHIVANI DATTATRAY RAU	<i>As</i>
21	121	SONALI PRAKASH JOGI	<i>As</i>
22	122	SONIYA ANIL MENDHE	<i>As</i>
23	123	SUNIL CHANDRASHEKHAR JAMBHORE	<i>As</i>
24	124	SWASTIC SANJAY NANDANWAR	<i>As</i>
25	125	TRIVENI RAVINDRA LULKAR	<i>As</i>

eShri Shivaji Education Society Amravati's
Science College Congress Nagar Nagpur
Department of Chemistry
Add on course

Attendance Sheet-2022-2023

Certificate Course in
Time-1Hrs "CHEMISTRY USEFUL IN LIFE" Maximum Marks:80

Note: -Solve all The questions.

Roll No.: -

Tick for right answer and Each question having 2 marks.

1. Milk is a good source of all water-soluble vitamins except for _____.
 - a) Cyanocobalmin
 - b) Riboflavin
 - c) Ascorbic Acid
 - d) Thiamine
2. _____ is a milk process that makes milk more easily digested by those with a sensitive digestive system.
 - a) Ionization
 - b) Evaporation
 - c) Pasteurization
 - d) Homogenization
3. _____ amino acids are commonly found in milk proteins, including the essential amino acids.
 - a) 7
 - b) 12
 - c) 14
 - d) 19
4. Summer milk has been estimated to contain 1.6 times as much vitamin ____ as winter milk.
 - a) A
 - b) B
 - c) C
 - d) D
5. Select the incorrect statement from the following option.
 - a) Oils are saturated triglyceride
 - b) Oils have lower melting points
 - c) Oils are liquid at room temperature
 - d) Examples of oils are glyceryl trioleate, coconut oil, olive oil, etc.

6. Which of the following is not a suitable solvent for oils and fats?
- a) Benzene
 - b) CCl_4
 - c) CHCl_3
 - d) Water
7. Saponification is hydrolysis _____
- a) By alkalis
 - b) In digestive tracts of human beings
 - c) By acids
 - d) By salts
8. 15% pure ethyl alcohol (wash) on fractional distillation gives 95% ethyl alcohol by weight which is commonly known as which of the following terms?
- a) Wash
 - b) Absolute alcohol
 - c) Rectified spirit
 - d) Methylated spirit
9. Ethyl alcohol obtained by fermentation of starch or molasses is called wash, and what is its purity?
- a) 15%
 - b) 99%
 - c) 99.9%
 - d) 95%
10. Which of the following way is not a method of preparation of alcohol?
- a) Grignard reaction
 - b) Reduction of an aldehyde, ketone, or carboxylic acid with the appropriate reducing agent
 - c) Substitution reaction of hydroxide or water on the appropriate alkyl halide
 - d) Haber's process
11. A substance intentionally added that preserves flavour and improves taste is called _____
- a) Food additive
 - b) Food adulterant
 - c) Food contaminant
 - d) Food material
12. Which of the following is NOT a function of a food additive _____
- a) To maintain product consistency
 - b) Maintain nutritive value
 - c) Controlling acidity/alkalinity
 - d) None of the mentioned
13. Statement 1: All food additives are carcinogenic.
Statement 2: Food additives must be avoided as far as possible.
- a) True, False
 - b) True, True
 - c) False, False
 - d) False, True

14. The first FDA approved chemical preservative was _____

- a) Sodium pyruvate
- b) Lithium chloride
- c) Sodium Benzoate
- d) Magnesium chloride

15. Sorbates inhibit the _____ in molds.

- a) Ribosomes
- b) Dehydrogenase system
- c) Hydrolase system
- d) Invertase system

16. What is the full form of BHT?

- a) Benzoate hydroxytoluene
- b) Benzoate hydrotoluene
- c) Butylated hydroxytoluene
- d) Butylated hydroxyl triacetate

17. Which of the following is NOT a sweetener?

- a) Saccharin
- b) Maltose
- c) Pectin
- d) Mannitol

18. Which of the following sweetener is 300 times as sweet as sucrose?

- a) Saccharin
- b) Aspartame
- c) Sucralose
- d) Cyclamates

20. Which of the following is NOT a function of sweeteners?

- a) Impart sweetness to food products
- b) Provide bulk and body to food products
- c) Act as a preservative
- d) Breakdown carbohydrate into carbon dioxide and ethanol

21. ____ help in maintaining/controlling the acidic/alkaline changes during food processing and hence maintain flavor and stability.

- a) Buffering agents
- b) Sequestrants
- c) Anti-caking agents
- d) Anti-foaming agents

21. Which of the following vitamin helps in blood clotting?

- (a) Vitamin A
- (b) Vitamin C
- (c) Vitamin D
- (d) Vitamin K

22. Which is the leading cause of blindness in children worldwide?

- (a) Glaucoma
- (b) Cataracts
- (c) Colour blindness
- (d) Vitamin A deficiency

23. Which of the following nutrient deficiency causes megaloblastic anaemia?

- (a) Folic acid
- (b) Niacin
- (c) Pyridoxine
- (d) Cobalamin

24. Which of the following is a fat-soluble vitamin?

- (a) Vitamin B
- (b) Vitamin C
- (c) Vitamin B₁₂
- (d) Vitamin K

25. Which of the following is responsible for rancidity?

- a) Alkalies
- b) Ketones
- c) Aldehydes
- d) Alcohols

26. The number of milligrams of KOH required for the saponification of one gram of oil or fat is called _____

- a) Acid number
- b) Iodine number
- c) Richert-Meissl number
- d) Saponification number

27. Which of the following tells the amount of free fatty acids present in fat or oil?
- a) Acid number
 - b) Iodine number
 - c) Saponification number
 - d) Richert-Meissl number
28. The highest levels of vitamin C are present in which of the following?
- (a) Parsley
 - (b) Broccoli
 - (c) Orange juice
 - (d) Black currants
29. Which of the following food source are the best sources of vitamin A?
- (a) Sweet potato
 - (b) Poultry
 - (c) Legumes
 - (d) Dairy products
30. Which of the following adulterants cause partial or complete blindness as well as harmful to the the heart?
- 1. Khesari Dal
 - 2. Metanil Pello
 - 3. Argemone Oil
 - 4. Rhodamine B
31. The polymers are classified into _____ types based on the nature of polymerization.
- a) 5
 - b) 2
 - c) 3
 - d) 4
32. Combination of the organic and inorganic polymers are called _____
- a) Element organic polymers
 - b) Inorganic polymers
 - c) Fibres
 - d) Thermoplastics

33. Which of the following polymerization mechanism can polymerize the styrene monomer?
- a) radical polymerization
 - b) anionic polymerization
 - c) cationic polymerization
 - d) all of the mentioned
34. Which of the following additives are used in the least amount with polymer in general?
- a) cross-linking agents
 - b) fillers
 - c) lubricants
 - d) plasticizers
35. Which of the following area of application restricts the use of cellulose nitrate?
- a) photographic films
 - b) lacquer coatings
 - c) tool handles
 - d) printing inks
36. Which of the following type of composite is not classified under the category of number of layers?
- a) Unidirectional fibre reinforced
 - b) Laminar
 - c) Sandwich panels
 - d) Glass-fibre reinforced
37. Nanostructures of block copolymers have a lot of applications. Which of the following is not one of them?
- a) Catalysts
 - b) Production of nanosized electronic devices
 - c) Semi-transparent antistatic coating
 - d) Water reclamation
38. Why are nanoparticle based drugs preferred for therapeutic dosages over traditional drugs?
- a) Biodegradable
 - b) High toxicity
 - c) Increased active constituent absorption
 - d) Sensitivity to salt ions
39. Why is PHB (Poly- β -hydroxybutrate), a biosynthesized polymer widely used in suture surgery?
- a) It has sustained hypoglycemic effect beyond 24 hours
 - b) It is a biosynthetic polymer
 - c) It is a high molecular polymer
 - d) It can degrade in vivo and hence does not require its removal after surgery.
40. The steel being used in the construction of aircraft must be _____ to fabricate.
- a) moderate
 - b) difficult
 - c) impossible
 - d) easy

Shri Shivaji Education Society Amravati's
Science College Congress Nagar, Nagpur

Department of Chemistry

Add on course

Attendance Sheet-2022-2023

**Certificate Course in
"CHEMISTRY USEFUL IN LIFE"**

Answer key

- 1) c) Ascorbic Acid
- 2) d) Homogenization
- 3) d) 19
- 4) a) A
- 5) a) Oils are saturated triglyceride
- 6) d) Water
- 7) a) By alkalis
- 8) c) Rectified spirit
- 9) a) 15%
- 10) d) Haber's process
- 11) a) Food additive
- 12) d) None of the mentioned
- 13) d) False, True
- 14) c) Sodium Benzoate
- 15) b) Dehydrogenase system
- 16) c) Butylated hydroxytoluene
- 17) c) Pectin
- 18) a) Saccharin
- 19) d) Breakdown carbohydrate into carbon dioxide and ethanol
- 20) a) Buffering agents
- 21) (d) Vitamin K
- 22) (d) Vitamin A deficiency
- 23) (a) Folic acid
- 24) (d) Vitamin K
- 25) c) Aldehydes
- 26) d) Saponification number
- 27) a) Acid number
- 28) (d) Black currants
- 29) (a) Sweet potato.
- 30) C) Argemone Oil

- 31) b) 2
- 32) a) Element organic polymers
- 33) d) all of the mentioned
- 34) c) lubricants
- 35) a) photographic films
- 36) d) Glass-fibre reinforced
- 37) c) Semi-transparent antistatic coating
- 38) c) Increased active constituent absorption
- 39) d) It can degrade in vivo and hence does not require its removal after surgery
- 40) d) easy



Shri Shivaji Education Society, Amravati's

SCIENCE COLLEGE

Congress Nagar, Nagpur-12 (M.S.), India



Accredited with CGPA of 3.51 at 'A' grade by NAAC, Bangalore
A "College with Potential for Excellence" identified by UGC New Delhi.
Institutional Member of APQN Recognized
Centre for Higher Learning and Research
Mentor College under 'PARAMARSHI Scheme', UGC, New Delhi

Add-on Course

Course Exam Name: Certificate Course in Chemistry Useful in Life

Name of Student:

Sonali Jogi

Roll No.:

1 2 1

Session: 2022-23

Test Date: 15/04/2023

Max. Marks: 80

Reddewar
Invigilator Signature

Obtained Marks:

80

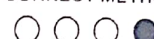
INSTRUCTIONS FOR FILLING THE SHEET

1. This sheet should not be folded or crushed
2. Use only blue/black ball point pen to fill the circles.
3. Use of pencil is strictly prohibited.
4. Circles should be darkened completely and properly.
5. Cutting and erasing on this sheet is not allowed
6. Do not use any stray marks on the sheet.
7. Do not use marker or white fluid to hide the mark.

WRONG METHODS



CORRECT METHOD



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Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur
PG Chemistry ("Certificate Course in Chemistry Useful in life")
Score Card (Session 2022-23)

S.N	Roll. No.	Name	Theory	Practical	Total	Grade
			80	20	100	
1	101	Ku AAKANSHA RAJKUMAR DANDEWAR	52	18	70	A
2	102	Ku AASTHA RUSHIPAL PATIL	80	18	98	O
3	103	ADITYA ASHOK GADPAYLE	78	18	96	O
4	104	ADITYA GOPAL SHRIVASTAVA	54	18	72	A
5	105	ADITYA TEJRAM UKI	64	16	80	A
6	106	AMEYA RAMESH DHORE	60	18	78	A
7	107	Ku BHAGYASHREE SHIVSHANKAR BOKDE	80	16	96	O
8	108	Ku DIKSHA DILICHAND GEDAM	54	20	74	A
9	109	Ku HIMANI VIJAY BORKAR	76	18	94	O
10	110	Ku MAITHILI MANOJ KANCHANWAR	60	18	78	A
11	111	Ku MANISHA VISHNU SHARMA	80	18	90	A+
12	112	Ku NAYNA OMPRAKASH GURJAR	68	18	86	A+
13	113	NISHANT BHOJRAJ DHOBALÉ	78	20	98	O
14	114	Ku PANKAJA DILIP DAKHOLE	72	14	86	A+
15	115	Ku PRIYANKA RAJENDRA PHARANDE	74	16	90	A+
16	116	SADNYA ARUN BHADANG	70	18	88	A+
17	117	Ku SAKSHI ANAND NAGDEVE	68	18	86	A+
18	118	SAKSHI ARUN IRASKAR	80	14	94	O
19	119	Ku SANIYA AMINBI G MIRZA	74	18	92	O
20	120	Ku SHIVANI DATTATRAY RAUT	64	18	86	A+
21	121	Ku SONALI PRAKASH JOGI	80	18	98	O
22	122	Ku SONIYA ANIL MENDHE	76	18	94	O
23	123	SUNIL CHANDRASHEKHAR JAMBHORE	80	18	98	O
24	124	SWASTIC SANJAY NANDANWAR	80	16	96	O
25	125	Ku TRIVENI RAVINDRA FULKAR	80	18	98	O

Skeny

Dr. S. J. Kene

Course Coordinator
S.S.E.S.A.'s Science College
Nagpur

SHRI SHIVAJI EDUCATION SOCIETY, AMRAVATI' SCIENCE COLLEGE, NAGPUR

Academic Session: 2022-23

PG.DEPARTMENT OF Chemistry (M.Sc. Sem IV)

Title of the course: Add On Course - "Chemistry Useful in life

Attendance Sheet: -Batch A

Theory / Practical

Sr. No	Roll	Students Full Name	Period	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
			Date	20/10	21/10	22/10	23/10	24/10	25/10	26/10	27/10	28/10	29/10	30/10	31/10	01/11	02/11	03/11	04/11	05/11	06/11	07/11	08/11
1	Ku	AAKASHA RAJKUMAR DANDEWAR		P	A	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P
2		AASTHA RUSHIPAL PATLE		P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P
3		ADITYA ASHOK GADPAYLE		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
4		ADITYA GOPAL SHRIVASTAVA		A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
5		ADITYA TEJARAM UKE		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
6		AMEYA RAMESH DHORE		P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
7	Ku	BHAGYASHREE SHIVSHANKAR BOKDE		P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P
8	Ku	DIKSHA DILICHAND GEDAM		P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
9	Ku	HIMANI VIJAY BORKAR		P	P	A	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P
10	Ku	MAITHILI MANOJ KANCHANWAR		P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
11	Ku	MANISHA VISHNU SHARMA		P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
12	Ku	NAYNA OMPRAKASH GURJAR		P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P
13		NISHANT BHOJRAJ DHOBAL		P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
14	Ku	PANKAJA DILIP DAKHOLE		P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
15	Ku	PRIYANKA RAJENDRA PHARANDE		P	A	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P
16	Ku	SADNYA ARUN BHADANG		P	P	P	A	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P
17	Ku	SAKSHI ANAND NAGDEVE		P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
18	Ku	SAKSHI ARUN IRASKAR		P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P
19	Ku	SANIYA AMINBEG MIRZA		P	P	A	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P
20	Ku	SHIVANI DATTATRAY RAUT		A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
21	Ku	SONALI PRAKASH JOGI		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
22	Ku	SONIYA ANIL MENDHE		P	A	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P
23		SUNIL CHANDRASHEKHAR JAMBHORE		P	P	A	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P
24		SWASTIC SANJAY NANDANWAR		P	P	A	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P
25	Ku	TRIVINI RAVINDRA FULKAR		A	P	P	A	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P

Skany



**SHRI SHIVAJI EDUCATION SOCIETY, AMRAVATI'S
SCIENCE COLLEGE,**



CONGRESS NAGAR, NAGPUR-12 (M. S.) INDIA

Accredited with CGPA of 3.51 at A+ grade

A College with Potential Excellence member APQN, Recognized center for Higher Learning
Mentor College Under 'PARAMARSH Scheme', UGC New Delhi

DEPARTMENT OF CHEMISTRY

Certificate

This is to Certify that Ms/Mrs/Mr Sonali Jogi Student of M. Sc. I/II

Attended the Certificate Course in *Chemistry Useful in Life* held from 16 January – 16 April 2023

Skene

Dr. S. J. Kene
Coordinator

Department of Chemistry

M. P. Dhore

Dr. M. P. Dhore
Principal

SSES's Science College Nagpur

Action Taken Report

Total 25 students were benefitted by this course in **Chemistry Useful in Life** and it was very helpful to expand their Entrepreneurship knowledge and skills. It also encouraged their innovation by bringing new technique and services to society.

SSES Amit's Science College Congress Nagar Nagpur

**Certificate course in
Chemistry Useful in Life
Department of Chemistry**

2022-23

Feedback Analysis

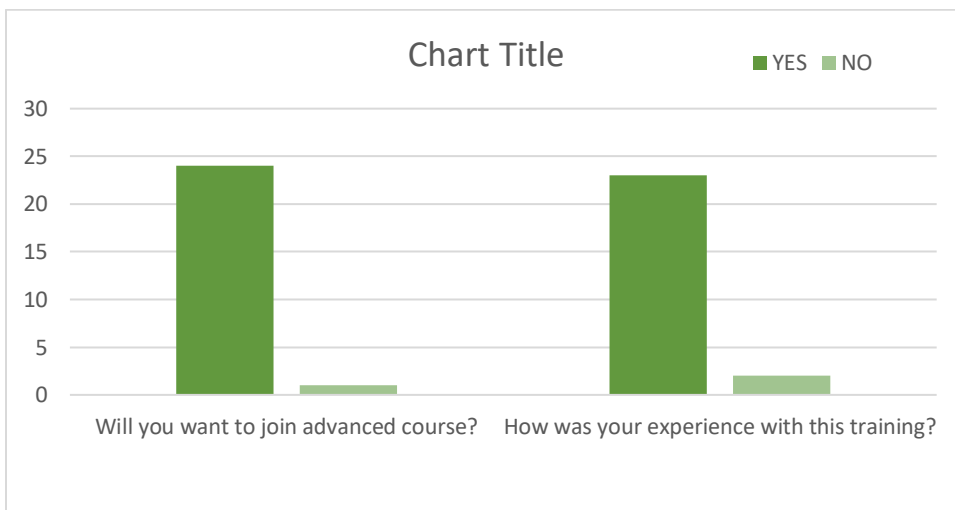
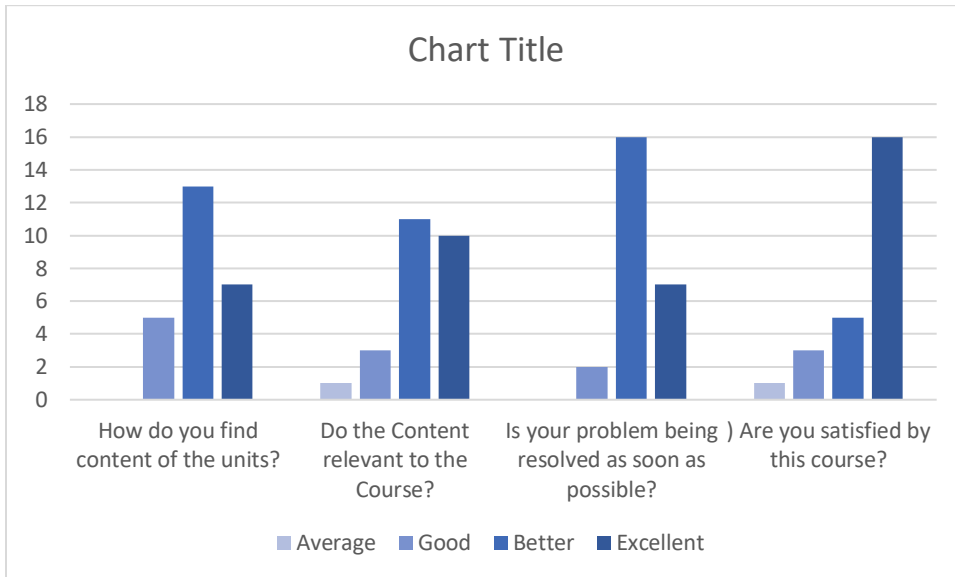
1. Numbered of students enrolled for the certificate course-**25**
2. Number of students successfully completed the certificate course-25
3. Number of students successfully submitted feedback -25

Questions:

- 1) How do you find content of the units?
- 2) Do the Content relevant to the Course?
- 3) Is your problem being resolved as soon as possible?
- 4) Are you satisfied by this course?
- 5) Will you want to join advanced course?
- 6) How was your experience with this training?

Feedback Analysis

Graphical Representation



Skory
Course Coordinator

Prashant
IQAC Coordinator
Internal Quality Assurance Cell
(IQAC)
S. S. E. S. A. Science College
Congress Nagar, Nagpur.

Prashant
Principal
Principal
S. S. E. S. Amravati's
Science College, Nagpur.