

ShriShivajiEducationSociety,Amravati9s

SCIENCECOLLEGE



CongressNagar,Nagpur-12(M.S.),India

AccreditedwithCGPAof3.51at8A+9gradebyNAAC,Bangalore

A < College with Potential for Excellence = identified by UGCNew Delhi.

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SSES Amravati's Science College, Congress Nagar, Nagpur-12

DEPARTMENT OF CHEMISTRY

Session 2022-23

Free Certificate Course for College Students

Course Title:Certificate Course in

"Chemistry For Entrepreneurship And Production".

Duration-30 Hours (10 Weeks)

Course Start from 6 Jan 2023 to11 March2023

Course Coordinator: Dr. R.A.Deshmukh

Report

Add on Course conducted by Chemistry Department during 2022-23 on Chemistry For Entrepreneurship And Production

Summary Report

One of the major hindrances in the growth of any country is unemployment. It is not only one of the major obstacles in the country's economic growth but also has several other negative repercussions on the individual as well as the society as a whole. In order to resolve the problem of unemployment and to improve the skills of the students, various departments of Science college Nagpur, put forward the notion of Add—on course programme. Chemistry department conducted job oriented Add-on course on Production of house hold chemicals like soaps, detergents, liquid soap, hand wash green cosmetics etc. The add -on course was started from 6th January 2023 to 11th March 2023 (10week) .Total 82 students from different department have participated in this course.

On the first session, training started with an introduction to health and safety in a chemical processing area, followed by the presentation of handling of hazardous chemicals, as well as product quality and later

2

on, different practical were conducted on manufacturing of cleaning detergent, sanitizers, cosmetics etc and showed how to formulate your own formulation for your product and when to increase or decrease the active matter in the product.

The student were explained how to become a successful entrepreneur. The capacity and willingness of the individual is the secret behind the victory.

Small video clips were also shown to students on motivational speaker and a career councilor; they explained the major concepts about entrepreneurship and taught the students how to become a successful entrepreneur.

At the end of the course, theory exam with MCQ based question of 80 marks was conducted on 23rd March 2023. Also Practical exam of students for 20 marks was conducted on 25th March 2023. After successfully completion of certificate course, students were awarded with Certificates.

R. A. Destruth.
Course Coordinator
S.S.E.S.A.'s Science College
Magnus

To, The Principal SSES Amt's Science College, Congress Nagar, Nagaur-12

Subject: Permission to conduct the add on courses in the department (2022-2023)

Respected Sir.

This is to request you that, we wish to conduct the add on courses in chemistry department these are the certificate courses of thirty hours! time duration:

The details of the courses is submitted here with:

Hence please permit to run the same and oblige me.

Thanking you

2016/22

Yours sincerely

(Profredebschapelead Department of Chemistry, Shri Shivaji Science College Congress Nagar, Nagpur.

Permitted policie



SSES Amravati's Science College, Congress Nagar, Nagpur-12 DEPARTMENT OF Chemistry

Date: 15-12-2022

Notice

All the students of B.Sc. are hereby informed that Department of Chemistry is conducting a Certificate course titled "Chemistry For Entrepreneurship And Production". This course aims to enhance your practical skills and knowledge by providing training and skill development in the production of house hold cleansing agents and inculcate the leadership qualities and business abilities required by Chemical Industry and for entrepreneurship. Register on or before 1st January 2023. Looking forward to your active participation.

Course Details:

- Course Name: Chemistry For Entrepreneurship And Production
- Duration: 06th January 2023 to 11th March 2023
- Schedule: 10 week
- · Eligibility:Open for all B.Sc students of SSESA Science College, Congress Nagar, Nagpur
- Contact Information: For further details please contact

Dr. R.A.Deshmukh

Course Coordinator

Phone:8830636054

Dr. R.A. Deshmuk

Course Coordinator

Department of Chemistry .
SSES Amt's Science

College Congress Nagar Nagpur **Head of Department**

Professor & Head Denarth ont of Chemistry, Shid Chivap Science College Congress Nagar, Nagpur.

Certificate Course In Chemistry For Entrepreneurship And Production



Course Objectives:

- To train the students to start their own small/large scale business.
- · To inculcate the idea of 'Earn while learn'.
- To promote "Make in India" concept.
- To formulate innovative chemical products that we use every day in our life.
- · To practice lab to land



Department of Chemistry
SSES Amt's Science College, Congress
Nagar, Nagpur

Free Certificate Course for College Students

Duration – 30 Hours(10 Weeks)
Process of Registration- Early
Birds will be admitted

This course aims at providing training and skill development in the production of house hold chemicals like detergents, Disinfectant, hand wash ,hand sanitizer, Cosmetics etc. for hygienic purpose Cleanliness is essential to civilized society for good health and comfort. A clean body, clean bath, clean home and clean environment are the norms today. Improved cleanliness encourages good health. These materials can be prepared in small scale and then the same can be scaled up to any quantity. With little knowledge of the market rate of all the ingredients used, one can produce these for their own use but also can start a small scale business. Anybody can venture these materials with very small investment but can be an entrepreneur. Entrepreneurship is normally driven by individuals with a strong desire to succeed by developing their concept vision into a profit making business. The intention of this certificate course is to formulate the chemicals and inculcate the leadership qualities and business abilities required by Chemical Industry and for entrepreneurship.

Last Date of Registration: 1 January 2023
For Registration Contact: Prof.Reshal Deshmukh (Co-ordinator)

SSES Amravati's Science College, Congress Nagar, Nagpur-12 DEPARTMENT OF CHEMISTRY COURSE MODULE AND SYLLABUS

Course Title: Certificate Course in Chemistry for Entrepreneurship

And Production

Course Coordinator: Prof. Reshal Deshmukh

Course description:

The course provide training and skill development in the production of house hold chemicals like soaps, detergents, liquid soap, hand wash cosmetics etc. for hygienic purpose. Cleanliness is essential to civilized society for good health and comfort. These materials can be prepared in small scale and then the same can be scaled up to any quantity. With little knowledge of the market rate of all the ingredients used, one can produce these for their own use but also can start a small scale business.

Key aspects

- 1. Product Development: Entrepreneurs often rely on chemistry to develop new products or improve existing ones. This involve Cleaning agents like detergents, bio-enzymes as disinfectants, sanitizers and green cosmetics like shampoo, face pack, face mask etc.
- 2. Process Optimization: Chemists working in entrepreneurship and production focus on optimizing chemical processes to maximize efficiency, reduce costs, and minimize environmental impact. This includes improving reaction yields, developing cleaner synthetic routes, and implementing sustainable practices.
- 3. Scale-Up: Transitioning from laboratory-scale synthesis to industrial-scale production requires careful scaling-up of chemical processes. Chemists in this field must consider factors such as reaction kinetics, heat and mass transfer, and equipment design to ensure successful scale-up.

- 4. Safety and Regulatory Compliance: Safety is paramount in chemical production, and entrepreneurs must adhere to strict regulatory guidelines to ensure the safety of workers and the environment. Chemists play a crucial role in assessing risks, implementing safety protocols, and complying with regulations.
- 5. Analytical Techniques: Analytical chemistry plays a vital role in entrepreneurship and production by providing tools to monitor reaction progress, analyze product purity, and identify impurities. Techniques such as spectroscopy, chromatography, and mass spectrometry are commonly used for quality control and process optimization.

Course Objectives:

Understanding Chemical Principles

To train the students to start their own small/large scale business.

To inculcate the idea of 'Earn while learn'.

To promote "Make in India" concept.

To formulate innovative chemical products that we use every day in our life.

To practice lab to land

To articulate entrepreneurial ventures with finesse, employing creative strategies to cultivate innovation and cultivate novel business models.

Green Chemistry and Sustainability

Instructional Strategies: Theory class, Practical, Video clips, Models etc.

Evaluation Strategies: Oral discussions and Final MCQ examination.

- Course outline:
- Brief about Cleaning agents Soaps and detergents(cationic and anionic)
- Introduction, types (acids, alcohols, aldehydes, alkalis, halogens, phenols
- Brief about Hand Sanitizer and its uses
- Learn about types of Sanitizers and about its Raw Materials
- · Oils, fats and waxes Introduction and their use in cosmetics
- Principles of Green Chemistry, bio-enzymes as disinfectants, green cosmetics make up, shampoo, face pack and face mask.
- · Develop sustainable entrepreneurship and investments in green economy
- To interact with practicing entrepreneurs is an integral part of this course. It is planned to invite at least two entrepreneurs from different fields to interact with the students during the course. Attendance in these sessions will be mandatory

Professor

Department of Chemistry
SSES Amt's Science
College Congress Nagar

Course Outcomes (COs):

Chemistry for Entrepreneurship and Production

Program me Outcomes:

Upon Completion of this course, the student will be able:

CO1: To understand importance of chemistry in daily life.

CO2: To develop better understanding and reasoning of facts.

CO3: To skill up various laboratory techniques used in pharmaceutical and chemical industries

CO4: hands on experience for manufacturing industries

Duration of course: Ten weeks (30 Hours)

The Structure of Syllabus and system of evaluation -

Course	Theory Papers and Practical	Total Marks	
		Theory	Practical
Certificate Course in Chemistry For Entrepreneurship And Production	Theory paper- Chemistry For Entrepreneurship And Production Theory examination will be of MCQ pattern having 40 questions, 2 marks each.	80	20
	* Practical examination will be based on performance evaluation in the laboratory	100	

Principal

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Department of Chemistry SSES Amt's Science

College Congress Nagar

Nagpur

S. S. E. S. A. Science College Congress Nagar, Nagpur.

(IQAC)

Certificate Course

in

Chemistry for Entrepreneurship and Production

SYLLABUS

Certificate course (10 weeks)

Unit 1

(6 hrs)

Cleaning agents

Soaps and detergents: Types (cationic and anionic), physical and chemical characteristics, advantages and disadvantages. Classification of detergents, cleaning action of detergents, detergents manufacturing process: stages involved, ingredients, chemical process-spray drying process, Agglomeration, Dry mixing, pH of detergent powder, test for pH, advantages and disadvantages of detergent. Examples of Commercially available cleaning agents (shampoo, hand wash, face-wash)

Unit 2

(6hrs)

Disinfectants

Introduction, types, physical and chemical properties, classification (acids, alcohols, aldehydes, alkalis, halogens, phenols) Sanitizers Sanitizers-Introduction, types, raw material used in making professional hand sanitizer with properties, WHO recommendations for hand sanitizers.

Unit 3

(6 hrs)

Cosmetics

Oils, fats, and waxes - Introduction, physical and chemical properties, their use in cosmetics, Preservatives-Introduction, properties, types and their significance.

Unit 4

(6 hrs)

Transition to Greener approach

Importance and Principles of Green Chemistry, bio-enzymes as disinfectants, green cosmetics make up, shampoo, face pack, face mask, lipsticks. Emerging Trends in Entrepreneurship Development.

Practical:

(6 hrs)

- 1. Preparation of Soaps.
- 2. Preparation of liquid detergent using animal fat.
- 3. Preparation of Hand-Sanitizers.
- 4. Preparation of herbal Shampoo, face mask etc.
- 5. Preparation of cleaning agents using bio-enzymes.

Distribution of marks: -

UNIT I- 20 marks (Theory)

UNIT II- 20 marks(Theory)

UNIT III- 20 marks (Theory)

UNIT III- 20 marks (Theory)+20 (Practicals)

Week-wise teaching plan:

Week	Hrs.	Syllabus
Week 1	1	Introduction to Cleaning Agents and Disinfectants
	2	Basic principles of formulation and production of Detergents
Week 2	1	Chemistry of Disinfectants and sanitizers
	2	Classification (acids, alcohols, aldehydes, alkalis, halogens, phenols) Sanitizers
Week 3	1	Formulation and Production of Sanitizers
	2	Green Chemistry Principles in Cosmetic Production
Week 4	1	Eco-friendly packaging and manufacturing processes
	1	Study of most effective cosmetic active ingredients and their medical effects on skin and hair.
Week 5	1	Formulation considerations: pH balance, viscosity, fragrance
	2	Formulation of Green Cosmetics: Face Mask
Week 6	2	Determination of physico-chemical characteristics of oil and fats 1. Moisture content 2. Acid value 3. Iodine value 4. Saponification reaction and Saponification value from detergents
	1	Green synthesis of cleaning agents, by using bioenzymes
Week 7	2	Importance of quality control in cosmetic production
	1	Recognize various types of cosmetic preparations and

1.

		formulations and the ingredients and active ingredients used in them
Week 8	2	Preparation of Green cosmetics make up, shampoo, face pack, face mask
	1	.The entrepreneurial perspective: Entrepreneurship in Cosmetic Production
Week 9	2	Entrepreneurship in detergents and disinfectant Production
	1	Guest speaker: successful entrepreneurs in the green cosmetics sector
Week 10	1	Preparation for theory paper
	2	Doubt solving class

SSES AMT'S SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR-12

Certificate Course in

Chemistry For Entrepreneurship And Production

Time Table

Day	Theory
Friday	RAD (C7) Theory 4.00 PM - 5.00 PM
Saturday	RAD (C7) Theory, 4.00 PM - 5.00 PM
	RAD(Chemistry Laboratory)
	Practical, 5.00 PM - 6.00 PM

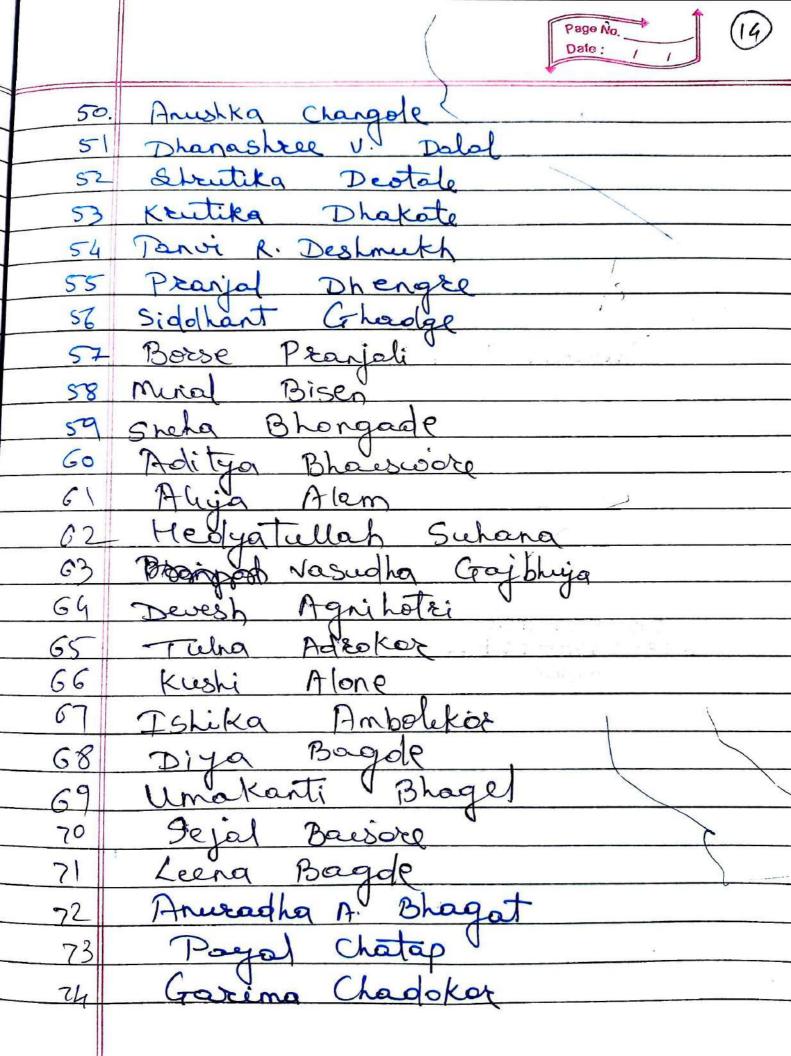
Professor

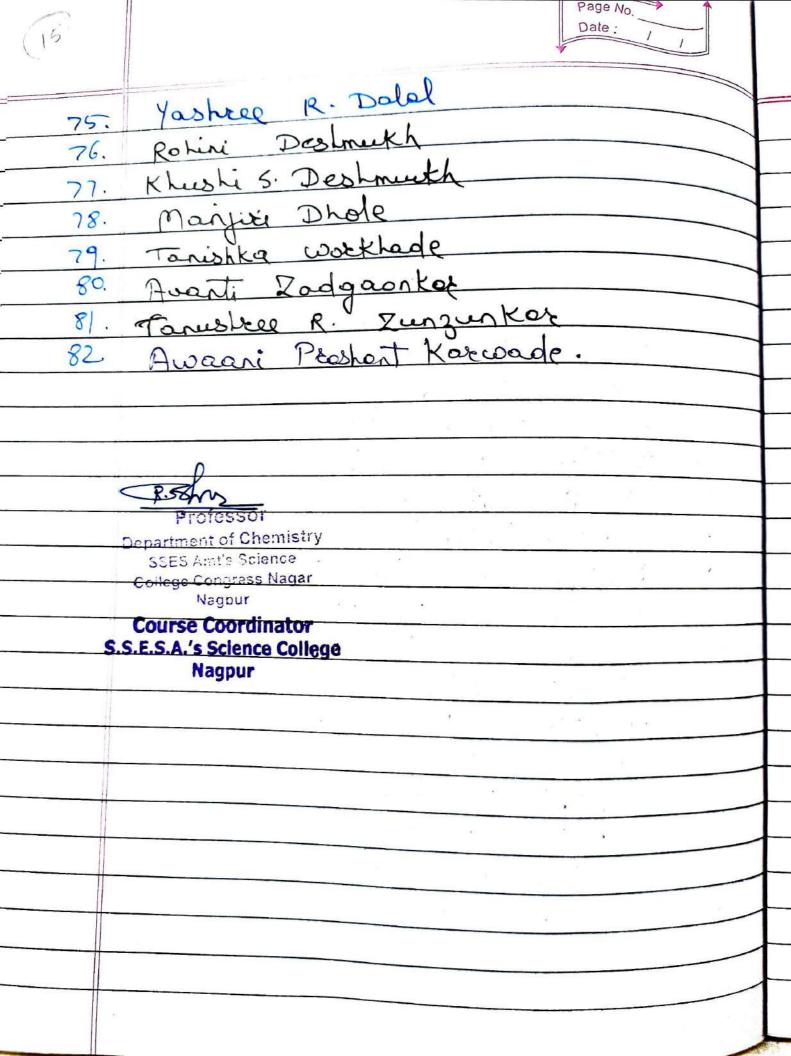
Department of Chemistry SSES Amt's Science College Congress Nagar Nagpur

List of students encolled for "Chemstry for Entre preneurship and Presiduction STUDENTS 1) Pranoli V. Agorkat 2) Athabe R. Ambekop 3. Straddha B. Bagde 4. Ritika V. Balodiya 5. Krund Bhagat 6. Ruchi meena 7. Dokshi mohod 8. Southak Norwade of. Janvi Kene 10 Nikita R. mestram 11 Straddha Barte Sonali S. Potle Anjuman makel Renukor S. Ayyagari 15. Pranau Lakhe 16. Vinku Moundeker 17. Vacun molwani NikhiTa Rmesham 19. Streyash m. Lakde Karan Kumbhare 20 Munesh R. Chaudhory Pradrya Dof Googi Tunjal Amisha Bilker

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Science College, Congress Nagar, Nagpur. Name of Teacher :- Dr. R. A. Deshmu

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Department of Chemistry College Congress Nagar SSES Amt's Science professor Magpus

Science College, Congress Nagar, Nagpur.

r Entrepreneurship And Production Name of Teacher :- Dr R.A. Deshmuck

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Department of Chemistry SSES Amt's Science Professor

Name of Teacher :- Dr. R. A. Deshmekh hin And Production

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Science College, Congress Nagar, Nagpur.
Certificate course in Chamber From Chamber 1 Name of Teacher :- Dr. R.A. Deskmuck

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Department of Chemistry College Congress Nagar SSES AMI'S Science

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Department of Chemist, College Constraint SSES Ami's Science

Name of Teacher :- R.A Deshmutch

2022-23

Science College, Congress Nagar, Nagpur.

Name of Teacher: R. A. Deshmuth

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Department of Chemistry

Science College, Congress Nagar, Nagpur. Name of Teacher :-

R.A. Destruct

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SSES Amravati's Science College, Congress Nagar, Nagpur-12

DEPARTMENT OF CHEMISTRY

Certificate course in

Chemistry For Entrepreneurship And Production

Date:16/03/2023

NOTICE

All the admitted students of B.Sc Chemistry are hereby informed that ,for the Certificate course in "Chemistry for Entrepreneurship and Production" theory and Practical examination will be Scheduled as follows

Sr.	Exam name	Date	Time	Venue
no 1	Certificate course in Chemistry For Entrepreneurship And Production (Theory Objective type)	23/03/2023 (Thursday)	12 noon to1.00pm	Room NoC8
2	Certificate course in Chemistry For Entrepreneurship And Production (Practical)	25/03/2023 (Saturday)	12 noon to1.00pm	Chemistry Lab

Note: All the students are required to be present at the examination venue at least 30 minutes before the scheduled time. Please ensure you bring your college ID card with you.

Dr. Reshal A.Deshmukh

Coordinator

"Chemistry for Entrepreneurship and Production"

Dept of Chemistry
Professor
Department of Chemistry
SSES Amt's Science
College Congress Nagar
Nagpur

Shri Shivaji Education Society Amravati's Science College, Congress Nagar, Nagpur-12

DEPARTMENT OF CHEMISTRY

Certificate course Examination 2022-2023

Chemistry For Entrepreneurship And Production

Centre: Shivaji Science College ,Nagpur

Date23/3/2023

Time: 12.00 to 1.00pm

THEORY EXAM ATTANDANCE

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

17	217	Ku	KENE JANVI SUBHASH	Jami	RS
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Course Coordinator S.S.E.S.A.'s Science College Nagpur

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

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73	273	Ku	CHATAP PAYAL RAMRAO	Payal.	B
74	274	Ku	CHADOKAR GARIMA WAMANRAO	Garima	Q
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78	278	Ku	DHOLE MANJIRI ANIL	Dho.	(A)
79	279	Ku	WARKHEDE TANISHKA RAMLALII	Tanks.	02
30	280	Ku	ZADGAONKAR AVANTI ANIRUDHA	A .	Q.
31	281	Ku	ZUNZUNKAR TANUSHREE RAMBHAU	Lungker	
2	282	Ku	KARWADE AWAANI PRASHANT	0	(T)
1	201	Ku	ZUNZUNKAR TANUSHREE RAMBHAU	D-7.	(A)
2	202	Ku	KARWADE AWAANI PRASHANT	Vorwoole AP.	5

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

Shri Shivaji Education Society Amravati's Science College, Congress Nagar, Nagpur-12

DEPARTMENT OF CHEMISTRY

Certificate course Examination 2022-2023

Chemistry For Entrepreneurship And Production

Centre: Shivaji Science College ,Nagpur

Date25/3/2023

Time: 12.00 to 1.00pm

PRACTICAL EXAM ATTANDANCE

Sr.no	Roll no		Name	SIGN	
1	201	Ku	AGARKAR PRANJAL VIJAY	Agra	B
2	202		AMBEKAR ATHARV RAMBHAU	A Pharro	(H)
3	203	Ku	BAGDE SHRADDHA BABAN	Spagde	Q -
4	204	Ku	BALODIYA RITIKA VISHNU	Kitch	P
5	205		BHAGAT KRUNAL GAJANAN	Krunal B.	R
6	206	Ku	BHAGAT SANJIVANI SAGAR	S. S. Blat	Q,
7	207	Ku	BILKAR AMISHA SITARAM	Anisha	(F3)
8	208	Ku	CHANDANKHEDE RACHANA VINESH	Rehandentined	(e)
9	209		CHAUDHARY MUNESH RAVINDRASINGH	nunesh	B
10	210	Ku	DAF PRADNYA CHANDRAKANT	ABSENT	R
11	211	Ku	DHABEKAR SWATI FATTU	S. Fohobeker.	(K)
12	212	Ku	JAUNJAL GARGI DILIP	Gargi	(E)
13	213	Ku	KANOJE KHUSHI SANJAY	KKinge	@
14	214	Ku	KARKI SRUSHTI SUBHASH	Show.	R
15	215	Ku	KAWALE GAYATRI VINOD	Jayettri	Q.
16	216	Ku	KAYARKAR JANHVI DHIRENDRA	Fauture.	(A)

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

17	217			MMA	(2)
	099950	Ku	KENE JANVI SUBHASH	Jan	& _
18	218		KUMBHRE KARAN MADHAVRAO	taras.	4
19	219		LAKDE SHREYASH MAHADEO	8M.	K)
20	220	-	LAKHE PRANAV BHUPESH	Dase.	Re
21	221	Ku	MEENA RUCHI MAHENDRA	hus .	B
22	222	Ku	MESHRAM NIKHITA RAVIKANT	PL.	(R)
23	223	Ku	MOHOD SAKSHI SADASHIVRAO	Salt.	R
24	224		MOTWANI VARUN DOLAT	Varg.	(K)
25	225	Ku	MOUNDEKAR VINKU MANIK	Din	W-
26	226		NARWADE SARTHAK ARUNRAO	Saule.	R
27	227	Ku	PATLE SONALI SURESH	Qanali	(18)
28	228	Ku	MAHEK ANJUM SHAKIR	ABSENT	(RS)
29	229	Ku	AYYAGARI RENUKA SUDHAKAR	18	(80)
30	230	Ku	BANTE SHRADDHA GUDDU	Ohre .	RO
31	231	Ku	BHAISARE CHETANA DINESH	hes.	œ.
32	232	Ku	BHIMTE SHRIYA SURENDRA	Shriya B.	PI_
33	233	Ku	BIRE JAHNAVI MILIND	Sec.	(g)
34	234	Ku	BEHAR KHUSHI RAJU	bhusi	RS
35	235	Ku	CHOUDHARY VAISHNAVI CHANDRAKANT	ABSENT	ES_
36	236		DHAPODKAR GEETANSH SURESH	a.	B
37	237	Ku	GANVIR ANUSHKA ANIL	Aw.	(W
38	238	Ku	GOSWAMI DIVYA VIKAS	MA	18
39	239	Ku	GOSWAMI LAXMI KISHOR	Xmi	N
40	240	Ku	GUPTA SHREYA RAVINDRA	They.	8

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

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41	241	1		1.000	2
	241	Ku	KALE MRUNALI CHANDRAJEET	Mekall	2
42	242	Ku	KOLHE HARSHINI ARVIND	HA gonhe	12
43	243	Ku	LONDE HARSHADA RAJESH	H. R. Lonal	- (2)
44	244	Ku	MUDE DIVYA SUDHAKAR	Diviger	B
45	245	Ku	MOHOD SAMRUDDHI SATISH	Smoheel,	R
46	246	Ku	PARIHAR SHREYA SUSHISINGH	Farihar	(FS)
47	247		BEHATE SAHIL GAJANAN	Spekale	18
48	248	Ku	BHAKNE POONAM NIRANJAN	Tooner	_ R8
49	249	Ku	BHUTE JANVI SACHIN	James.	B
50	250	Ku	CHANGOLE ANUSHKA DEVIDAS	Anustr.	B
51	251	Ku	DALAL DHANASHREE VIKAS	D.V. Dalal	38
52	252	Ku	DEOTALE SHRUTIKA DILIP	Sheut	B
53	253	Ku	DHAKATE KRUTIKA MAHESH	rutike	Q.
54	254	Ku	DESHMUKH TANVI RAJESH	Thai	RS
55	255		DHENGRE PRANJAL NARESH	Pravious	RS
56	256		GHADGE SIDDHANT RAMUJI	Soft.	H
57	257	Ku	GAJBHIYE VASUDHA VIJAY	Variate	B
58	258	Ku		2/1	R
59	259		HEDYATULLAH SUHANA	Sin	
		Ku	ADROKAR TULNA DILIP	E.	18
60	260		AGNIHOTRI DEVESH MAHESH	2 AL	R
61	261	Ku	ALONE KHUSHI PRABHUDAS	Khushi-I	- 19
62	262	Ku	ALAM ALIYA	Wound	· R
63	263	Ku	AMBOLIKAR ISHIKA MANISH	Thiber At	(NS)
64	264	Ku		leema	
		Ku	BAGADE LEENA BABULAL		13

- Sonz

Course Coordinator

65	265	T			
66		Ku	BAGADE DIYA DEEPAK	Diyas.	089
	266	Ku	BAGHEL UMAKANTI JAGMOHAN	Q unt.	(BS)
67	267	Ku	BHAISARE SEJAL SUSHIL	Phoisore	W
68	268		BHAISWARE ADITYA RAJESH	Aditya	PS
69	269	Ku	BHONGADE SNEHA MANISH	Sheha.	(19)
70	270	Ku	BISEN MINAL SHANKAR	Misson	43
71	271	Ku	BORSE PRANALI ANIL	Provali.	(N)
72	272	Ku	BHAGAT ANURADHA ARUN	Anus Bh	(28)
73	273	Ku	CHATAP PAYAL RAMRAO	Payal.	B
74	274	Ku	CHADOKAR GARIMA WAMANRAO	Garima	B
75	275	Ku	DALAL YASHREE RAJENDRA	Jan	RS
76	276	Ku	DESHMUKH ROHINI VINOD	Dephuls.	W.
77	277	Ku	DESHMUKH KHUSHI SHIVSHANKAR	Lhushi	#_
78	278	Ku	DHOLE MANJIRI ANIL	Dhes.	B
79	279	Ku	WARKHEDE TANISHKA RAMLALII	Tanka.	R
80	280	Ku	ZADGAONKAR AVANTI ANIRUDHA	M.	B -
81	281	Ku	ZUNZUNKAR TANUSHREE RAMBHAU	Turout!	- B
82	282	Ku	KARWADE AWAANI PRASHANT	W.	18
81	201	Ku	ZUNZUNKAR TANUSHREE RAMBHAU	Panystece	RS
82	202	Ku	KARWADE AWAANI PRASHANT	L'arwade A. F	W.

Course Coordinator

5.S.E.S.A.'s Science College

Name

SSES Amravati's Science College, Congress Nagar, Nagpur-12

DEPARTMENT OF CHEMISTRY

Certificate course in

Chemistry For Entrepreneurship And Production

Theory Examination

Date: 23/03/2023

Date: 20/0	J. L. J. J. L. J. L. J. L. J. L. J. J. L. J. L. J. J. L. J. J. J. L. J.
Max Marks: 80	Time: 12:00 am to 1:00 pm
Roll No :	
Name of Student:	
Note: 1. All questions are compulsory and carry ed. 2. Tick only one correct option	qual marks
1. Which of the following microorganisms are effectivel	y killed by sanitizers?
a) Viruses	
b) Bacteria	
c) Fungi	
d) All of the above	
	ř.
Which type of disinfectant is typically used for cleanin ors?	g non-porous surfaces such as countertops and
Quaternary Ammonium Compounds (Quats)	
Alcohol-based disinfectants	
Chlorine-based disinfectants	

d) Phenolic disinfectants

3	3. Which of the following is a recommended concentration of alcohol in alcohol-based hand sani effective disinfection?	tizers for
	a) 30-40%	
	b) 50-60%	
	c) 70-80%	
	d) 90-100%	
4.	Which of the following factors can affect the effectiveness of a disinfectant?	
а	a) Concentration of the disinfectant	
b	e) Contact time	
c)) pH of the solution	
d)) All of the above	
a)b)c) I	Which type of disinfectant is commonly used for disinfecting medical instruments and equipm Aldehydes Quaternary Ammonium Compounds (Quats) Phenolic disinfectants Halogens	ent?
a) Inb) Dic) Inl	hat is the primary mode of action of disinfectants against microorganisms? Thibition of cell wall synthesis This is the primary mode of action of disinfectants against microorganisms? Thibition of cell wall synthesis Thibition of protein synthesis	
	of fidelete acid synthesis	

7. Which of the following is a disadvantage of using chlorine-based disinfectants?
a) Residual antimicrobial activity
b) Corrosive to metals
c) Compatible with all surfaces
d) Stable in the presence of organic matter
8. Which type of disinfectant is effective against bacterial spores?
a) Alcohols
b) Quaternary Ammonium Compounds (Quats)
c) Phenolic disinfectants
d) Halogens
9. What is the recommended contact time for most disinfectants to effectively kill microorganisms?
a) 5-10 seconds
b) 1-2 minutes
c) 5-10 minutes
d) 30 minutes
10. What is the primary function of surfactants in detergents?
a) Enhancing fragrance
b) Reducing surface tension
c) Providing color
d) Increasing viscosity
11. Which of the following is a common type of surfactant used in detergents?
a) Sodium chloride
b) Sodium hydroxide

d) Sodium bicarbonate
12. What type of charge do most surfactants have in aqueous solutions?
a) Positive
b) Negative
c) Neutral
d) Variable
13. Which type of detergent is known for its ability to clean effectively in both hard and soft water?
a) Anionic detergents
b) Cationic detergents
c) Non-ionic detergents
d) Amphoteric detergents
14. What component of detergents is responsible for breaking down and removing stains?
a) Builders
b) Surfactants
c) Bleaching agents
d) Enzymes
15. Which of the following is NOT a primary function of detergents?
a) Emulsification
b) Disinfection
c) Soil suspension
d) Wetting

16. What is the role of builders in detergents?
a) Enhancing fragrance
b) Reducing surface tension
c) Sequestering metal ions in hard water
d) Increasing viscosity
17. Which environmental concern is associated with the use of phosphates in detergents?
a) Air pollution
b) Water pollution
c) Soil erosion
d) Deforestation
18. Which of the following is a characteristic of anionic surfactants commonly used in detergents?
a) Positively charged head
b) Hydrophobic tail
c) Negatively charged head
d) Non-polar structure
19. What is the primary mode of action of surfactants in detergents?
a) Inhibition of cell wall synthesis
b) Disruption of cell membrane integrity
c) Inhibition of protein synthesis
d) Inhibition of nucleic acid synthesis
20. What is the primary advantage of using bioenzymes as disinfectants?

a) They are inexpensive to produce

b) They are highly toxic to humans

Professor

Department of Chemistry

SSES Amt's Science

College Congress Nagar

Answer Kev

- 1. Answer: d) All of the above
- 2. Answer: c) Chlorine-based disinfectants
- 3. Answer: c) Chlorine-based disinfectants
- 4. Answer: d) All of the above
- 5. Answer: a) Aldehyde
- 6. Answer: b) Disruption of cell membrane integrity
- 7. Answer: b) Corrosive to metals
- 8. Answer: d) Halogens
- 9. Answer: b) 1-2 minutes
- 10. Answer: b) Reducing surface tension
- 11. Answer: c) Sodium lauryl sulfate
- 12. Answer: d) Variable
- 13. Answer: c) Non-ionic detergents
- 14. Answer: d) Enzymes
- 15. Answer: b) Disinfection
- 16. Answer: c) Sequestering metal ions in hard water
- 17. Answer: b) Water pollution
- 18. Answer: c) Negatively charged head
- 19. Answer: b) Disruption of cell membrane integrity
- 20. Answer: c) They are effective against a wide range of microorganisms
- 21. Answer: b) Fermentation using microbial cultures
- 22. Answer: c) They break down organic matter and disrupt microbial cell walls
- 23. Answer: a) Protease
- 24. Answer: a) Proteins
- 25. Answer: c) Neutral pH and aerobic conditions
- 26. Answer: b) Bioenzymes have a lower environmental impact
- 27. Answer: d) Bioenzymes are less harmful to surfaces and materials
- 28. Answer: d) All of the above
- 29. Answer: a) By reducing the need for harsh chemicals
- 30. Answer: b) Minimizing environmental impact
- 31. Answer: c) Avoidance of animal testing
- 32. Answer: c) Environmental sustainability
- 33. Answer: d) All of the above
- 34. Answer: b) Extending shelf life
- 35. Answer: c) Synthetic dyes
- 36. Answer: c) Moisturizing and softening the skin
- 37. Answer: d) All of the above
- 38. Answer: c) USDA Organic
- 39. Answer: c) By meeting demand for natural and organic products
- 40. Answer: c) Ethanol or isopropyl alcohol

Professor

Department of Chemistry SSES Amt's Science College Congress Nagar Nagpur

SSES Amravati's Science College, Congress Nagar, Nagpur-12

DEPARTMENT OF CHEMISTRY

Certificate course in

Chemistry For Entrepreneurship And Production

Practical Examination

Date: 25/03/2023

Max Marks: 20	Time: 12:00noon to1:00pm
Roll No:	
Name of Student:	
Perform any one 10 mks	
Practical 1: Preparation of Detergent using various ingredients.	w?

Practical 2: Mixing of all the composition of raw materials and prepare Sanitizer.

Practical 3: To prepare floor cleaner by using various raw material.

Practical 4: To prepare herbal Shampoo

Viva-voce -----10mks

Department of Chordstry
SSES Amt's Science
Head Congress Nagar

Sses Amt's Science College, Congress Nagar, Nagpur. CERTIFICATE COURSE IN

CHEMISTRY FOR ENTREPRENEURSHIP AND PRODUCTION
THEORY EXAMINATION BASED ON M.C.Q. TYPE QUESTIONS, 23 MARCH 2023
OMR SHEET

230 Roll No

Signature Of Coordinator.

TICK VON WRITE ANSWER

(TIME-1 HOUR)

QUESTION N	0.	OPT	TIONS	
QUE.1	a	b	c	d
QUE.2	a	b	c L	d
-QUE.3	a	b	c L	d
QUE.4	a	b	c	d L
QUE.5	a	b	c	d
QUE.6	a	b	c	d
QUE.7	a	b	c	d
QUE.8	a	b	c	d-
X QUE.9	a	b	c	d
QUE.10	a	b —	c	d
QUE.11	a	b	C	d
QUE.12	a	b	c	d 🖵
UE.13	a	. b .	c	d
QUE.14	a	b	c	d
QUE.15	a	b .	C.	d
QUE.16	a	b	C	d
QUE.17	a	J	c'	d
QUE.18	a	b	C	d
QUE.19	a	b	c	d
QUE.20	a ·	b	S.	d
QUE.21	a	b	c	d
QUE.22	a	b	ve	d
QUE.23	La C	b	c	d
CQUE.24	3	b	c .	d
QUE.25	a .	b	C	d
QUE.25	a	U	c	d
QUE.27	a	b	c	a
QUE.28	a	b	c	W
Y QUE.29	a	b	c	d
OUE.30	a	b	c	d
QUE.31	a	b	6	d
QUE.32	a	b	c	vd
QUE.33	a	b	c	d
UQUE.34	a	b	c	d
QUE.35	a	b	c	d
QUE.36	X	b	c	d
QUE.37	а	b	c	d
QUE.38	a	b	W	d
QUE.39	a	b	· C	d
QUE.40	3	b	С	d
QUE.41	a	b	c	d
				u



Sses Amt's Science College, Congress Nagar, Nagpur. CERTIFICATE COURSE IN

CHEMISTRY FOR ENTREPRENEURSHIP AND PRODUCTION

THEORY EXAMINATION BASED ON M.C.Q. TYPE QUESTIONS, 22 MARCH 2023 OMR SHEET

Roll No. 224

Signature Of Coordinator.

TICK √ON WRITE ANSWER

(TIME- I HOUR)

QUESTION NO.	OPTIONS					
Y QUE.1	a	b -	c	d		
QUE.2	a	b	c —	d		
× QUE.3	a	b	c	d		
C QUE.4	a	b	c	d		
QUE.5	a	b	c	d		
> QUE.6	a	b	c	d		
QUE.7	a	b	c	d		
× QUE.8	a	b	c	d		
x QUE.9	a	b	c	d L		
OUE.10	a	b —	c	d		
QUE.11	a	b	c	d		
QUE.12	a	b	c	d -		
QUE.13	a	b	c	d		
QUE.14	a	b	c	d		
QUE.15	a	b .	c	d		
QUE.16	a	b	c	d		
QUE.17	a	b	c	d		
P QUE.18	a	b	c	d		
QUE.19	a '	b	c	d		
A QUE.20	a	b ~	c	d		
UQUE.21	a	b	Ċ	d		
CQUE.22	а	b	c	d		
- QUE.23	a	b	c	d		
Y QUE.24	a	b	c	d —		
QUE.25	a	b	c	d		
QUE.28	a	b	c	d		
QUE.27	a	b	c	d		
') QUE.28	a	b —	c	d		
QUE.29	a —	b	c	d		
QUE.30	a	b	c	d		
QUE.31	a	b	c L	d		
QUE.32	a	b	c	d		
QUE.33	a	b	Č	d L		
QUE.34	a	b _	c	d		
QUE.35	a	b	c —	d		
QUE.36	a 🗸	b	c	d		
QUE.37	a	b	c	d V		
№ QUE.38	a	b ~	c	d		
QUE.39	a	b	c	d		
₩UE.40	a	b	c -	d		
QUE.41	a	b	С	d		



SSES Amravati's Science College, Congress Nagar, Nagpur-12 DEPARTMENT OF CHEMISTRY

Certificate Course in

Chemistry for Entrepreneurship and Production (30Hrs)

Result Sheet

2022-2023

Sr. No.	Roll		Name of Student	Theory	Practical	Total	Grade
	No.			80	20	100	
1	201	Ku	AGARKAR PRANJAL VIJAY	45	15	60	В
2	202		AMBEKAR ATHARV RAMBHAU	54	16	70	B+
3	203	Ku	BAGDE SHRADDHA BABAN	48	16	64	B+
4	204	Ku	BALODIYA RITIKA VISHNU	78	18	96	0
5	205		BHAGAT KRUNAL GAJANAN	56	17	73	А
6	206	Ku	BHAGAT SANJIVANI SAGAR	68	19	87	A+
7	207	Ku	BILKAR AMISHA SITARAM	58	20	78	Α
8	208	Ku	CHANDANKHEDE RACHANA VINESH	44	18	62	B+
9	209		CHAUDHARY MUNESH RAVINDRASINGH	58	20	78	Α
10	210	Ku	DAF PRADNYA CHANDRAKANT	AA	AA	AA	AA
11	211	Ku	DHABEKAR SWATI FATTU	50	16	66	B+
12	212	Ku	JAUNJAL GARGI DILIP	78	15	93	0
13	213	Ku	KANOJE KHUSHI SANJAY	66	16	82	A+
14	214	Ku	KARKI SRUSHTI SUBHASH	54	19	73	Α
15	215	Ku	KAWALE GAYATRI VINOD	48	15	63	B+
16	216	Ku	KAYARKAR JANHVI DHIRENDRA	52	16	68	B+
	217		KENE JANVI SUBHASH	46	18	64	B+
	218	Ku	KUMBHRE KARAN MADHAVRAO	65	17	82	A+
19	219	Ku	LAKDE SHREYASH MAHADEO	58	20	78	A

20	220		LAKHE PRANAV BHUPESH	40	19	59	В
21	221	Ku	MEENA RUCHI MAHENDRA	46	19	65	B+
22	222	Ku	MESHRAM NIKHITA RAVIKANT	58	15	73	Α
23	223	Ku	MOHOD SAKSHI SADASHIVRAO	78	17	95	0
24	224		MOTWANI VARUN DOLAT	40	16	56	В
25	225	Ku	MOUNDEKAR VINKU MANIK	48	18	66	B+
26	226	Ku	NARWADE SARTHAK ARUNRAO	40	19	59	В
27	227	Ku	PATLE SONALI SURESH	56	20	76	А
28	228	Ku	MAHEK ANJUM SHAKIR	AA	AA	AA	AA
29	229	Ku	AYYAGARI RENUKA SUDHAKAR	54	16	70	B+
30	230	Ku	BANTE SHRADDHA GUDDU	62	15	77	Α
31	231	Ku	BHAISARE CHETANA DINESH	40	18	58	В
32	232		BHIMTE SHRIYA SURENDRA	48	20	68	B+
33	233	Ku	BIRE JAHNAVI MILIND	78	17	95	0
34	234	Ku	BEHAR KHUSHI RAJU	72	19	91	0
35	235		CHOUDHARY VAISHNAVI CHANDRAKANT	AA	AA	AA	AA
36	236	Ku	DHAPODKAR GEETANSH SURESH	44	18	62	B+
37	237	Ku	GANVIR ANUSHKA ANIL	52	15	67	B+
38	238	Ku	GOSWAMI DIVYA VIKAS	64	19	83	A+
39	239	Ku	GOSWAMI LAXMI KISHOR	70	17	87	A+
40	240	Ku	GUPTA SHREYA RAVINDRA	46	15	61	B+
41	241	Ku	KALE MRUNALI CHANDRAJEET	54	16	70	B+
42	242	Ku	KOLHE HARSHINI ARVIND	48	20	68	B+
43	243	Ku	LONDE HARSHADA RAJESH	74	15	89	A+
44	244	Ku	MUDE DIVYA SUDHAKAR	48	18	66	B+
45	245	Ku	MOHOD SAMRUDDHI SATISH	44	17	61	B+
46	246	Ku	PARIHAR SHREYA SUSHISINGH	68	16	84	A+

	Т -	_					
47	247		BEHATE SAHIL GAJANAN	60	19	79	Α
48	248	Ku	BHAKNE POONAM NIRANJAN	52	17	69	B+
49	249	Ku	BHUTE JANVI SACHIN	70	20	90	A+
50	250	Ku	CHANGOLE ANUSHKA DEVIDAS	42	15	57	В
51	251	Ku	DALAL DHANASHREE VIKAS	54	18	72	Α
52	252	Ku	DEOTALE SHRUTIKA DILIP	50	15	65	B+
53	253	Ku	DHAKATE KRUTIKA MAHESH	76	17	93	0
54	254	Ku	DESHMUKH TANVI RAJESH	78	19	97	0
55	255		DHENGRE PRANJAL NARESH	52	16	68	B+
56	256		GHADGE SIDDHANT RAMUJI	66	20	86	A+
57	257	Ku	GAJBHIYE VASUDHA VIJAY	46	15	61	B+
58	258	Ku	HEDYATULLAH SUHANA	42	16	58	В
59	259	Ku		58	15	73	Α
60	260		ADROKAR TULNA DILIP	76	17	93	0
61	261	Ku	AGNIHOTRI DEVESH MAHESH	40	16	56	В
62	262	Ku	ALONE KHUSHI PRABHUDAS	52	19	71	A
63	263		ALAM ALIYA	46	18	64	B+
64	264	Ku	AMBOLIKAR ISHIKA MANISH				0.500
# E	100000000	Ku	BAGADE LEENA BABULAL	72	16	88	A+
65	265	Ku	BAGADE DIYA DEEPAK	66	20	86	A+
66	266	Ku	BAGHEL UMAKANTI JAGMOHAN	58	17	75	A
67	267	Ku	BHAISARE SEJAL SUSHIL	54	18	72	A
68	268		BHAISWARE ADITYA RAJESH	72	16	88	A+
69	269	Ku	BHONGADE SNEHA MANISH	68	15	83	A+
70	270	Ku		58	20	78	A
71	271	Ku	BISEN MINAL SHANKAR	78	18	96	0
72	272	Ku	BORSE PRANALI ANIL	68	17	55	В
73	273		BHAGAT ANURADHA ARUN	50			
	8	Ku	CHATAP PAYAL RAMRAO	000000	19	69	B+
74	274	Ku	CHADOKAR GARIMA WAMANRAO	42	15	57	В

75	275	Ku	DALAL YASHREE RAJENDRA	70	16	86	A+
76	276	Ku	DESHMUKH ROHINI VINOD	58	17	75	А
77	277	Ku	DESHMUKH KHUSHI SHIVSHANKAR	46	15	61	B+
78	278	Ku	DHOLE MANJIRI ANIL	40	18	58	В
79	279	Ku	WARKHEDE TANISHKA RAMLALJI	58	17	75	Α
80	280	Ku	ZADGAONKAR AVANTI ANIRUDHA	60	16	76	А
81	281	Ku	ZUNZUNKAR TANUSHREE RAMBHAU	72	18	90	A+
82	282	Ku	KARWADE AWAANI PRASHANT	48	19	67	B+

Department of Chemistry
SSES Amt's Science
College Congress Nagar
Nagour



Shri Shivaji Education Society Amravati's

SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR

Accredited with CGPA of 3.51 at 'A+' Grade A College with Potential for Excellence



CERTIFICATE

W./Ku. Projet V. Agerket is awarded with certificate on successful completion of the course entitled, Certificate course in "Chemistry for Entrepreneurship and Production"

Session 2022-23 under Add-on course conducted for 30 hours from 06/01/2023 to 11/03/2023 by Department of Chemistry, SSESA's, Science College, congress Nagar, Nagpur 440012.

He/She has passed the Examination with 😘 Grade.

- tsalst

Dr. R. A. Deshmukh

Coordinator, Department of Chemistry

Prof. M. P. D

Prof. M. P. Dhore
Principal, Science College, Nago

S.S.E.S. Amravati's Science College, Nagpur DEPARTMENT OF Chemistry

Report

on

ADD-ON COURSE in

"Chemistry For Entrepreneurship And Production".

Academic Year: 2022-23

<mark>6 Jan 2023 to11 March2023</mark>

Chemistry For Entrepreneurship And Production

Report

One of the major hindrances in the growth of any country is unemployment. It is not only one of the major obstacles in the country's economic growth but also has several other negative repercussions on the individual as well as the society as a whole. In order to resolve the problem of unemployment and to improve the skills of the students, various departments of Science College Nagpur, put forward the notion of Add—on course programme. Chemistry department conducted job oriented Add-on course on Production of house hold chemicals like soaps, detergents, liquid soap, hand wash green cosmetics etc. The add -on course was started from 6th January 2023 to 11th March 2023 (10week) .Total 82 students from different department have participated in this course.

On the first session, training started with an introduction to health and safety in a chemical processing area, followed by the presentation of handling of hazardous chemicals, as well as product quality and later on, different practical were conducted on manufacturing of cleaning detergent, sanitizers, cosmetics etc and showed how to formulate your own formulation for your product and when to increase or decrease the active matter in the product.

The student were explained how to become a successful entrepreneur. The capacity and willingness of the individual is the secret behind the victory.

Small video clips were also shown to students on motivational speaker and a career councilor; they explained the major concepts about entrepreneurship and taught the students how to become a successful entrepreneur.

At the end of the course, theory exam with MCQ based question of 80 marks was conducted on 23rd March 2023. Also Practical exam of students for 20 marks was conducted on 25th March 2023. After successfully completion of certificate course, students were awarded with Certificates.

Action Taken Report

Total 80 students were benefitted by this course in **Chemistry for Entrepreneurship and Production** and it was very helpful to expand their Entrepreneurship knowledge and skills. It also encouraged their innovation by bringing new ideas, products and services to the market.

SSES Amti's Science College Congress Nagar Nagpur

Certificate course in Chemistry For Entrepreneurship And Production

Department of Chemistry

2022-23 (Batch-1)

6 Jan 2023 to11 March2023

Feedback Analysis

- 1. Numbered of students enrolled for the certificate course-82
- 2. Number of students successfully completed the certificate course-78
- **3.** Number of students successfully submitted feedback -77

SN	Question	Students Number wise Responses				
1	Rating	Yes	No	May Be		
	1.Did the course improve the students skills	75	02			
2	Rating	Yes	No	May Be		
	2. Did the training meet your expectations?	76	01			
3	Rating	Yes	No	May Be		
	3. Was theoverall quality of this certificate course beneficial to you	74	03	01		
4	Rating	Yes	No	May Be		
	4Were you satisfied with the learning content and material?	74	01	02		
5.	Rating	Yes	No	May Be		
	5. Is this a need of hour	70	02	05		

Graphical Representation



Internal Quality Assurance Cell (IQAC)

S. S. E. S. A. Science College Congress Nagar, Nagpur.

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