### Report on Certificate Course: Integrating Excel into Chemical Analysis

Course Coordinator: Dr. Sarang S. Dhote

#### Course Overview

The "Integrating Excel into Chemical Analysis" course is a comprehensive 30-hour program designed for chemistry professionals, students, and researchers. The course aims to enhance participants' skills in data analysis, visualization, and management using Microsoft Excel.

#### Course Duration and Completion

The course was conducted from January 6, 2023, to March 11, 2023, totaling 30 hours. The final examination was held on March 16, 2023. Dr. Sarang Dhote coordinated the course, which took place in the Chemistry Department. Out of 92 admitted students, 88 successfully completed the course,

Dr. Sarang S. Dhote

Course Coordinator

Course Coordinator S.S.E.S.A.'s Science College Nagpur To, The Principal SSES Amt's Science College, Congress Nagar, Nagpur-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

20/6/22

Yours sincerely

(Profr Red & Khape)ead Department of Chemistry, Shri Shivaji Science College Congress Nagar, Nagpur.

Permitted



### Shri Shivaji Education Society Amravati's

### Science College, Nagpur

#### Department of Chemistry

#### Notice for Admission to Free Certificate Course

We are pleased to announce the opening of admissions for a free certificate course offered by Shivaji Science College, Nagpur. This is a unique opportunity for students to enhance their skills and knowledge at no cost.

#### Course Details:

- Course Title: Certificate Course - Integrating Excel into Chemical Analysis (IECA)

- Course Duration: 30Hrs

- Course Start Date: 06/01/2023

- Application Deadline: 01/01/2023

#### Important Notes:

- There are limited seats available. Admission will be on a first-come, first-served basis.
- Attendance and participation in all sessions are mandatory.
- Certificates will be awarded upon successful completion of the course.

For further details, please get in touch with the course coordinator Dr. Sarang Dhote [919822463373]

Don't miss this chance to gain valuable skills and knowledge for future endeavors,

Date - 10/12/2022

Course Coordinator Dr. Sarang S. Dhote Chemistry Department Shivaji Science College

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





Shri Shivaji Education Society Amravati's

## Science College, Nagpur

**Department of Chemistry** 

**Certificate Course - Integrating Excel into Chemical Analysis** 



Course Coordinator – Dr. Sarang S. Dhote



#### **Certificate Course - Integrating Excel into Chemical Analysis**

#### Course Coordinator - Dr. Sarang S. Dhote

#### **Course Overview**

Welcome to the "Integrating Excel into Chemical Analysis" course! This **30-hour course** is designed for chemistry professionals, students, and researchers who aim to enhance their skills in data analysis, visualization, and management using Microsoft Excel.

#### **Course Objective**

- 1. To provide a comprehensive understanding of Excel's functionalities relevant to chemical data analysis.
- 2. To enhance skills in organizing, analyzing, and interpreting chemical data using Excel.
- 3. To enable participants to visualize chemical data effectively through charts and graphs.
- 4. To facilitate the application of Excel tools in solving complex chemical problems.

#### **Syllabus Overview**

#### **Unit 1: Introduction to Excel for Chemists (7 Hours)**

- 1. Excel Interface and Basic Functionalities
- 2. Data Entry and Management
- 3. Data Cleaning Techniques
- 4. Basic Data Analysis

#### **Unit 2: Advanced Excel Functions for Chemical Analysis (8 Hours)**

- 1. Conditional Formatting
- 2. Advanced Formulas and Functions
- 3. Data Sorting and Filtering
- 4. Data Validation and Error Checking

#### **Unit 3: Data Visualization Techniques (8 Hours)**

- 1. Creating Charts and Graphs
- 2. Customizing Charts
- 3. PivotTables and PivotCharts
- 4. Advanced Charting Techniques

#### **Unit 4: Applications of Excel in Chemical Analysis (7 Hours)**

- 1. Chemical Data Analysis Case Studies
- 2. Regression Analysis and Curve Fitting
- 3. Simulating Chemical Processes
- 4. Report Generation and Presentation

#### **Practical Demonstration Sessions**

- 1. Data Entry and Organization
- 2. Applying Advanced Formulas
- 3. Creating Dynamic Charts and Graphs
- 4. Performing Regression Analysis

#### **Course Outcomes**

- 1. By the end of this course, participants will:
- 2. Gain proficiency in using Excel for chemical data management.
- 3. Perform advanced data analysis and statistical calculations relevant to chemistry.
- 4. Create and interpret various data visualizations for chemical data.
- 5. Solve chemical analysis problems using Excel tools and techniques.

## The Structure of the Syllabus for the Certificate course along with the distribution of marks is also displayed in the following Table

Course	Theory Papers and Practical	Marks		_	Total Marks
		Theory	Internal Assessment*	Practical	
Certificate Course in INTEGRATING	Theory paper-Integrating Excel into Chemical	50	00	00	50
EXCEL INTO CHEMICAL ANALYSIS	Analysis			00	
		Grand	total		50

\*Internal assessment -

Blazed on students' attendance and performance thorng theory, practical & assignments'case study

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

Internal Quality Assurance Cell (IQAC) 3. S. E. S. A. Science College Congress Nagar, Nagpur

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

## Teaching Plan for Certificate Course: Integrating Excel into Chemical Analysis

Day	Actual Date	Lecture Topic	Unit
1	06/01/2023	Excel Interface and Basic Functionalities	Unit 1
3	09 01 2023	Data Entry and Management	Unit 1
3	08/01/2023	Data Cleaning Techniques	Unit 1
1	13/01/2023	Basic Data Analysis	Unit 1
5	13/01/2023	Conditional Formatting	Unit 2
7	15/01/2023	Advanced Formulas and Functions	Unit 2
	20/01/2023	Advanced Formulas and Functions (Continued)	Unit 2
9	21/01/2023	Data Sorting and Filtering	Unit 2
	22/01/1023	Data Sorting and Filtering (Continued)	Unit 2
10	27/01/2023	Data Validation and Error Checking	Unit 2
11=	28 (01/2023	Creating Charts and Graphs	Unit 3
12	29/01/2023	Creating Charts and Graphs (Continued)	Unit 3
13	03/02/23	Customizing Charts	Unit 3
14	04 0212023	PivotTables and PivotCharts	Unit 3
15	05/02/2023	PivotTables and PivotCharts (Continued)	Unit 3
16	10/02/2023	Advanced Charting Techniques	Unit 3
17	11/02/10/3	Chemical Data Analysis Case Studies	Unit 4
18	12/02/2023	Regression Analysis and Curve Fitting	Unit 4
19	17/02/2023	Simulating Chemical Processes	Unit 4
20	18 02/1023	Report Generation and Presentation	Unit 4
21	19/02/1023	Data Entry and Organization	Practical Demonstration Session 1
22	24/02/2023	Applying Advanced Formulas	Practical Demonstration Session 2
23	25/02/2013	Creating Dynamic Charts and Graphs	Practical Demonstration Session 3
24	26 /02/2023	Performing Regression Analysis	Practical Demonstration Session 4
25 26	02/03/2023	Review and Q&A Session	Review Session
26	03 03 2023	Hands-on Practice and Assignment Discussion	Practical Application
27	04 03/ 2023	Hands-on Practice and Assignment Discussion (Continued)	Practical Application
28	09/05/2023	Final Revision and Exam Preparation	Review Session
29	10/03/2023	Mock Exam and Feedback	Review Session
29 30	11103/2023	Course Wrap-up and Final Instructions	Wrap-up Session



10000

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

					Time table F	irst term 20	22-2023 (V	Time table First term 2022-2023 (WEF- 01/01/2023)	023)				
Cla	Class /Timo		7	-	+		9	8-	-	6	⊢	10	10 11
25	anni fee	7.30	8:18	9.06-9.54	10.00	10.48	11.36	12,44	1,32	239-3.08	L	3.12	
	Sem II		CHE-(PF)		CHE-DE (RDU/JKG)			CHE-C6 (CHB)				1000	CKE
Mon	Sem IV			CHE-C10	CHE PSU-	CHE PSU+RAD(T)+SSD+VK(M)	D+VK(M)	CHE-CS (RAD / PK)					
	Sem VI				CHE-CG (PND)	CHE-CO	CHECS	CHEJ	CHE JKG/ RDU/FKM/PD	WPD			
	Sem II		CHE-(PF)		CHE-CS (RDU/JKG)						L	М	сне (снаиро)
Tue	Sem IV			CHE-C10	CHE PSU-	CHE PSU+RAD(T)+8SD+VK(M)	D+VK(M)	CHE-CE (RAD)					
	Sem VI				CHE-CB (PND)	CHE-CB	CHE-CO	CHE	CHE JKG/ RDU/RKM/PD	Odn			
	Sem II		CHE-C10 (JKG/SSD)	CHE-C10 (CHB/PD)					CHE RUKIPE		L		
Wed	Sem IV		CHE SSD		CHE-C10		9						
	Sem VI		CHE-C10		CHE	CHE SSD/PD+PCF(W)	(W)		CHEQB				
	Sem II		CHE. C10	CHE-C10 (CHB/PD)					CHE RUKIPE			_	
Thurs	Sem IVI		CHE RDU		CHE-C10								Course
The same of the sa	Sem VI		CHE-C10		CHE	CHE SSDAPD+PCF(W)	(W)		CHE-CO.			_	(IECA)
	PGI					Physical Practical	Practical	Ī	Physical	RM	Inorganic		
	Sem II			CHE-C10 (CHB)	CHE - C10			5	CHE SSD/PD+VK	,			Certificate
Ξ	Sem IVI	CHE-C10											Course
	Sem VI			CHE-C10	CHE	CHE VICIRADICHB	8	CHE - C10			190		
	Sem II			CHE-C10 (CHB)		CHE - C10		3	CHE SSOIPD+VK	,			Certificate
Sat	Sem IVI	CHE-C10 NVCRDU)		CHE-C10									(IECA)
	Sem VI				3	CHEVKIRADICHB	8	CHE - C10				-	

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

#### **List of Admitted Students**

	Shri Shivaji Education Society Amravati's
	Science College, Nagpur
	Department of Chemistry
Certifica	te Course - Integrating Excel Into Chemical Analys
	Sign for Students for Confirmation of admission
	11

Roll. No.	Name of Students	Sign
2022001	ADROKAR TULNA DILIP	Tulomega
2022002	AGNIHOTRI DEVESH MAHESH	Deve
2022003	ALAM ALIYA	ALMA
2022004	ALONE KHUSHI PRABHUDAS	nlono
2022005	AMBOLIKAR ISHIKA MANISH	Lightel
2022006	ARVIWALA HUZEFA KHUZEMA	solinell
2022007	BAGADE DIYA DEEPAK	Bagerda
2022008	BAGADE LEENA BABULAL	Puneule
2022009	BAGHEL SONAM SANTOSHKUMAR	Sognam
2022010	BAGHEL UMAKANTI JAGMOHAN	Bolland
2022011	BAIG TASMIYA HAMID	Tamin.
2022012	BARSAGADE KALASH SUDHAKAR	Rupusonad
2022013	BAWANKULE LAXMI DEVIDAS	lakni
2022014	BHAGAT ANURADHA ARUN	1 Blugar
2022015	BHAISARE SEJAL SUSHIL	Leithil
2022016	BHAISWARE ADITYA RAJESH	Adarya
2022017	BHASMOTE AARADHANA RAJENDRA	Bhimole
2022018	BHONGADE SNEHA MANISH	Mahoveon
2022019	BISEN MINAL SHANKAR	Mucon
2022020	BORSE PRANALI ANIL	(PK)
2022021	CHADOKAR GARIMA WAMANRAO	@ Chodolos
2022022	CHANNE TANISHKA PRAVEEN	Over
2022023	CHATAP PAYAL RAMRAO	Penjal
2022024	DALAL YASHREE RAJENDRA	Tables

		111
2022025	DATIR PRANIALI ANKHALESH	Patie
2022026	DEOTALE SHRUTIKA DILIP	Sherting
2022027	DESHMUKH JANHAVI VIRENDRA	Jankari
2022028	DESHMUKH KHUSHI SHIVSHANKAR	desnouse
2022029	DESHMUKH ROHINI VINOD	B. destimus
2022030	DESHMUKH TANVI RAJESH	Juni
2022031	DHAKATE KRUTIKA MAHESH	Kalti Ka
2022032	DHENGRE PRANJAL NARESH	p. dengajo
2022033	DHOK SOKSHAM NISHANT	Sousham
2022034	DHOLE MANJIRI ANIL	manie
2022035	DHURVE PRANJALI KAMALDEV	P. dyserve
2022036	FULKUWAR PRIYA SANTOSH	Superwe
2022037	FULZELE SUHANI SAHADEO	819
2022038	GAJBHIYE SWEJAL PRASHANT	S.P. GO bhile
2022039	GAJBHIYE VASUDHA VIJAY	V. Gustine
2022040	GAUTAM LADALI PRAKASH	coveam
2022041	GHADGE SIDDHANT RAMUJI	5 R Chadre
2022042	GHAYWAT YASHASHREE SANJAY	tool locus
2022043	GHORE VANUSHKA VINOD	Ghose.
2022044	GONNADE MADHURIMA SHAILESH	all
2022045	GUPTA MOHINI MAHENDRAKUMAR	metrina
2022046	HAWARE JAYESH ATUN	Tayesh
2022047	HEDYATULLAH SUHANA	Summa
2022048	INWATE KASHISH RAJU	KRImute
2022049	IRGURALA VIDYA CHANDRAIAH	Vidya
2022050	JAISWAL KASHISH MANOJ	Kshert
2022051	JAISWAL SALONI SATISH	salien
Contract Con	THE RESERVE THE PROPERTY OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO I	

2022053	JUNGHARE SANCHIT SHESHRAO	730
2022054	KADU UNNATI UMESH	Unnahi
2022055	KALAMBE SHREYA GUNWANT	80
2022056	KALE AVANI PREMDAS	kater.
2022057	KAMDAR SURBHI	ramoere
2022058	KANOJIYA PIYUSH RAJESH	Pittoch
2022059	KASEKAR EKTA SANJAY	Esta
2022060	KHADSE CHETANA MORESHWAR	pandom.
2022061	KHARBIKAR DEVESH RAJU	hams
2022062	LOKHANDE KASHISH SUHAS	20khonde
2022063	LOKHANDE YASH OMPRAKASH	V Lordand
2022064	LUTE SUHANI RAMESHWAR	S.Lite
2022065	MENDWADE AISHWARYA PRAKASH	Do
2022066	MOHANE SRUSHTI MANOJ	Sashti-
2022067	NAMDEO ARYAN UMASHANKAR	ABUR.
2022068	NAYAK MAHEK GHANSHYAM	Natares
2022069	PAIGAMI MANISH RAJENDRA	merri 181-
2022070	PAIGANI MEETALI RAJENDRA	Me
2022071	PAL VAISHNAVI VINOD	Ome -
2022072	PATIL ANSHUL RAVINDRA	Anshal
2022073	PATIL GRISHMA JAYPAL	Cousto
2022074	PRASAD SONAM RAMNATH	Somann
2022075	RALBANDIWAR UMARANI SANJAY	Vermoren
2022076	SAHU APURVA TAPAN	APURU.
2022077	SAPATE PORNIMA PRABHU	P. SaPate
2022078	SHAIKH ZOYA MOHAMMAD	Zaja
2022079	SHRIVASTAV ANUJKUMAR	Ray
2022080	SINGH MUSKAN KUNDAN KUMAR	\$1900.

022081	SONTAKKE RAJVEE SAROJ	100
2022082	THAKUR SHRUSHTI DEEPAKSINGH	Thuker
2022083	TRIVENI ANJALI DEVISHANKAR	Biveni
2022084	UPARKAR JUEE VILAS	Juece
2022085	VARMA RIYA JITENDRA	2. Vontall
2022086	VYAS HIMANSHU MUKESH	(No
2022087	WAHANE NIKITA VINOD	Nikites-
2022088	WAHANE PREMANSHU ANIL	werher
2022089	WAHANE TEJASVI PRAVIN	Jeiger
2022090	WALDE DURGA RAJU	milite
2022091	WANKHEDE JUHI MANOJ	J. winker
2022092	WASNIK RUTIKA VINAYAK	Philips.

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

## Attendance

	Shi Certificate Co	1	Scien Jepar	ducation of the control of the contr	of Ch g Exc	Nagp nemist	ur try		Analy	sis		Jān	-2623	
Theory /	Practical Chemonstation/ Final Exam	T	T	T	Ŧ	7	T	7	7	T	+	+	Ť	
itali Nu.	Name of Students	cellulas	etlult3	oaleriza	Steeles	Gloda	refortra	20/01/13	21/10/13	21/10/25	anles/23	28/11/23	zaloili3	
2022001	ADROKAN TURNA DIQUE	P	0	1	1	P	0	P	P	0	0	8	A	
2022002	AGNIHOTRI DEVESH MAHESH	12	P	P	18	0	10	P	P	4	10	P	0	
3002003	ALAM ALIVA	0	A	0	D	1	0	1	A	1	ħ	6	P	
2022004	ALDRE KHUSHI PRABHUDAS	10	P	P	13	17	P	A	A	P	1	P	P	
2072005	AMBOLIKAT ISHIKA MANISH	100	0	10	P	1	A	0	0	1	1	A	8	
2022006	ARVIWALA HUZEFA KHUZEMA	10	1	P	P	P	1.5	0	2	V	0	P	0	
2022007	BAGADE DIVA DEEFAK	17	0	P	D	18	P	B	2	V	p	P	100	
2022008	BAGADE LEENA BABULAL	10	A	P	0	18	P	100	2	7	P	100	7	
2022009	BAGHEL SONAM SANTOSHKUMAR	1	8	P	15	10	A	P	P	1	P	6	5 20	
2022010	BAGHEL UMAKANTI JAGMOHAN	A	P.	P	P	P	100	P	P	1	12	P	9	
2022011	BAGE TASMIVA HAMID	0	P	6	P	18	10	P	P	V		P		
2022013	BARSAGADE KALASH SUDHAXAR	1	1	RP.	P	P	A	100	B	100	1	P	(0)	
2022011	BAWANKULE LAXMI DEVIDAS	2	17	P	P	1	12	A	P	B A	P	220	P	
2022034	BHAGAT ANURADHA ARUN	1.0	0	1	P	8	100	18	8	M) G	P	1 6.0	P. Comment	
2022015	BHAISARE SEIAL SUSHR.	1	12	₽.	P	1	1	8	8	6	P.	1	0	
2072016	EHARDWARE ACHTYO BAJESH	10	A	18	P	1	P	P	P	12	P	0		
2022017	RHASMOTE AARADHANA RAJENDRA	A	P	P	P	8	N	A	P	P	P	0	ρ	
3032038	BHONGADE SNEHA MANISH	P	P	P	P	I fl		8	7	1	9	-	1	
2022019	BISEN MINAL SHANKAR	8	18	B	18	18	P	1.0	1	1	3	0	0	
2022020	BORSE PRANALI ANIL	1	18	1	1	1	P	P	8	Y	6	Mr.	P	
2022021	CHADDIAR GARIMA WAMARRAD	P	0	P	18	V	P		P	Y	P	P	0	

	Certificate C	4	Scien Depar	ce Co tment gratin	on Social lege, of Charge general	Nagpi emist el ints	ur ry		Analy	sis			
theory/	Practical Demonstation/Final Exam	T	e.L.	77	at-	T	4	T	IT	4	T	T	T
Rull No.	Name of Students	6/0//83	7/4/122	8/10/8	41/23	146/23	17 Jules	20/10/25	21/10/12	問时日	82/10/22	1 Mouth	< tho/bz
2022022	CHANNE TANISHKA PRAVEEN	1	P	P	0	9	Ser.	e	0		1	0	0
2022025	CHATAP PAYAL RAMBAO	0	A	0	10	7	A	0	0	P	P	0	0
202202#	DALAL YASHREE RAJENDRA	10	0	P	P	-	3	7	0	10	0	P	9
2022025	DATIR PROBLEM ANGUALTSH	0	10	P	P	P	14	0	0	6	A	0	0
2022026	DECITALE SHRUTIKA DILIP	1	10	W	0	-	-	5	18	10	P	0	D
2022027	DESHMIJKH JANHAVI VIRENDRA	10	P	P	0	b	2	P	P	FI	1	0	0
2022028	DESHMILEH KHUSHI SHIVSHANKAR	7	P	1	P	P	P	2	0	2	7	0	0
2012029	DESHRURH ROHINI VINOD	A	0	10	P	7	A	0	A	0	0	P	5
2022030	DESHMURH TANVI RAJESH	9	1	10	P	8	P	0	12	0	-	-	8
2022031	DMAKKTE KRUTIKA MAHESH	0	12	P	70	0	V	0	0	870	K	P	6
2022032	DHENGRE PRANÇAL NARESH	0	P	P	P	2	7	7	0	0	-1	0	20
2022033	DHOK SOKSHAM NISHANT	10	A	P	P		1	0	0	- 2	0	B	6
2022034	DHOLE MANURU AND	Δ	P	12	P	2	P	2	A	0	- 0	A	1
2022035	DHURVE PRANIALI KAMALDEV	V	P	A	0	4	8	0	0	- 5	1	0	7
2022036	FULEUWAR PRIYA SANTOSH	0.	a	4	D.	0	P	A	0	10	-	b	b
2072997	FULZELE SUNANI SAHADED	10	0	P	0	1	3	0	n	7	X	0	0
2022038	GAJBHIYE SWELAT PRASHANT	P	1	P	D	-	12	7	0	1	0	10	0
7022039	GAJBHIYE VASLIDHA VISAY	0	A	n	P	1	Pe	11	12	1	0	0	9
0022040	GAUTAM LADALI PRAKASH	A	P	6	P	0	1	B	17	-	0	b	P
0022041	GHADGE SIDDHANT RAMUII	Y	A	P	N	0	12	P	p	-	0	P	b l
022042	GHAYWAT YASHASHREE SANIAY	0	6	P	0	P	10	12	D	7	\$	1	0
022043	GHORE VANUSHKA VINCO	31	A	- 0	100	100	Tring's	Page -	1.0	7	1	10	

# Shri Shivaji Education Society Amravati's Science College, Nagpur Department of Chemistry Certificate Course – Integrating Excel Into Chemical Analysis Attendance

		1	_	-	The state of the s	-	_	_	_		_			-
Theory /	Practical Demonstation/ Final Exam	T	T	4	7	下	7	T	T	+	-17	T	7	
Rull No.	Nome of Students	6/11/23	2/0/13	8/10/18	stul33	falints)	Eluits	n/o/or	21/11/23	22/10/27	(4/10/12	6/10/82	52 101/33	
2022044	GONNADE MADHURIMA SHAILESH	8	0	10	10	P	9	100	32	1	A	a	2	=
2022045	<b>GUPTA MOHINI MAHENDRAKUMAR</b>	A	0	0	0	10	0	1	0	1	1	0	0	-
2022046	HAWARE JAYESH ATUN.	P	0	A	10	0	0	7	1	1	12	1	0	_
2022047	HEDYATULLAH SUHANA	P	A	9	1	10	10	P	10	A	A	7	0	=
2022648	INWATE KASHISH RAJU	9	0	P	10	10	A	A	P	Y	P	P	0	
2022049	IRGURALA VIDYA CHANDRAIAH	10	0	10	L.F.	P	10	P	P	P	P	9	0	
2022050	JAISWAL KASHISH MANOI	10	10	138	17	F	1	11	P	123	P	1	12	
2022051	JAISWAL SALDNI SATISH	1	A	18	P	fi.	127	2	P	1	0	9	1	
2022052	JOGANI ISHA SURAJ	0	V	18	18	F	0	100	8		100	10	12	
2022053	JUNGHARE SANCHIT SHESHRAD	0	0	18	FP3	1	100	P	20	1	4	1		
2022054	KADU UNNATI UMESH	0	2	P	350	200	A	B	15	P	96	BANK.	7	
2022055	KALAMBE SHREYA GUNWANT	2	180	8	1380	100 100	P	P	P	1	10	P	8	
2022056	KALE AVANI PREMIDAS	12	I A	12	3 2	39	P	#	42	P.	17	P	120	
2022057	KAMDAR SURBHI	10	1	100	P	100	A	No.	900	B	F	10/4	P	
2022058	KANORYA PIYUSH RAJESH	O.	n	A	100	100	11	0	82	1	P		P	
2022059	KASEKAR EKTA SANIAY	0	10	18	18	P	6	P	0.9	100	B	V	2	
2022060	KHADSE CHETANA MORESHWAR	0	8	BAL	100	P	2	8	6	1	-	2	P	
2022061	KHARBIKAR DEVESH RAJU	18	3	TO ALL	P	A	18	P	6	P	1	Y	D.	
2022062	LORHANDE BASHISH SUHAS	0	1	128	1	P	No.	P	15	6	1	17	0	
2022053	LOKHANDE YASH OMPRAKASH	10	15	3.6	117	0	P		15	8	K	P	t/	
2022064	LUTE SUHANI RAMESHWAR		1	P	P	1	1	P	P.	V	1	1	V	
2022065	MENDWADE ACHWARYA PRAKASH	10	100	P	P	P	6	PI	P	Pr		1	g	

Course Coordinator
S.S.E.S.A. Science College
Maggar

Shri Shivaji Education Society Amravati's Science College, Nagpur Department of Chemistry Certificate Course – Integrating Excel into Chemical Analysis Attendance

1		_	_	Atten	dance									
Theory	Practical Demonstation/ Final Exam	T	T	T	て	T	7	4	T	1	7	T	T	
Red No.	Name of Students	clester.	2/10/25	8/10/18	3/01/13	\$7,00/ to	C/10/29	20/10/02	21/10/18	10/11)	27/10/13	(1)11/01	24/10/19	
2022066	MOHANE SRUSHTI MANOJ	10	10	100	0	0	7	P	1	0	100	-	100	
2022067	NAMDED ARYAN UMASHANKAR	10	1/4	10	0	P	P	P	0	0	10	12	0	_
2022068	NATAK MARIK GHANSHYAM	10	10	1	10	-	A	8	0	4	A	5	0	-
2022069	PAHEAMI MANISH RAJENDRA	1	10	10	0	41	0	10	1	0	10	5	(40)	
2022070	PAIGANI MEETALI RAJENDRA	10	100	10	8		A	1	0	0	P	0	0	
2022071	PAL VAISHNAVI VINOD	10	12	A	0	0	1	4	0		5	-	5	_
2022072	PATIL ANSHUL RAVINDRA	1	0	A	A	1	N	A	6	0	0	0	2	
2022073	PATIL GRISHMA LAYPAL	A	10	1	P	P	7	0	0	0	-	-	6	
2022074	PRASAD SONAM RAMNATH		1	P	0	P	P	P	0	0	A	0	0	
2022075	RALBANDOWAR UMARANI SANUAY	1	0	P	9	-	1	0	0	0	12	0	0	
2022076	SAHU APURVA TAPAN	10	1	1	P	H	0	1	0	0	0	0	0	
2022077	SAPATE PORNIMA PRABILI	111 (20)	10	A	P	P	Λ	0	6	P	P	-		_
2022078	SHARH ZOYA MOHAMMAD	P	10	P	P	P	1	P	P	^	0	0	10	
2022079	SHRIVASTAV ANUIKUMAR	2	0	45	P	A	4	P	P	1923	P	P	0	_
2022080	SINGH MUSKAN KUNDAN KUMAR	14	1	P	Ø.	37.0	0	P	D	0	9	1	0	=
2022981	SONTAKKE KAIYEE SAKOJ	1	10	100	B	P	9	7	0	0	P	0	0	
20230K2	THAKUR SHRUSHTI DEEPAKSINGH	0	1	1	P	0	4	4	7	-	0	0	U	
2022083	TRIVERI ANUALI DEVISHANKAR	2	A	0	P	45	P	1	0	0	A	0	0	
2022084	UPARKOR JULE VILAS	13	100	A	Pa	R	P	0	P	0	0	0	0	
2022085	VARMA RIYA STENDRA	17	30	4	P	R	4	1	1	1	A	0	3	
2022086	VYAS HIMANSHIJ MURESH	1 2	0	12	P	1	1	P	P	- Fi	-	0	7	-
2022087	WAHANE NIKITA VINOD	P	17	0	P	0	P	P	0	P	0	1	P	- 0

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

## Shri Shivaji Education Society Amravati's Science College, Nagpur Department of Chemistry Certificate Course – Integrating Excel Into Chemical Analysis Attendance

		-	-	SATTOR	CHETTUS		_	-	-					
Theory / P	ractical Demonstration/ Final Exam	7	H	+	T	+	4	T	T	T	T	T	T.	
Roll No.	Name of Students	6/10/25	21/11/2	8/01/13	(spols)	scholos	15/10/23	\$1/10/02	82/10/12	\$1007=2	840/12	10/0/82	57/10/162	
2022088	WAHANE PREMANSHU ANIL	10	A	1	1	15	4	0	A	P	A	A	1	
2022089	WARANE TEJASVI PRAVIN	8	8	10	10		10	10	P	1	1	1	100	
2072990	WALDE DURGA RAJU	1	1	4	A	B	1	0		16	18	10	1	
2022091	WANKHEDE JUHI MANDI	N P		P			18	P	1	1	1	1	P	
2022062	WASHIK BUTIKA VINAYAK	100	I A	0	P	10	P	P	P	18	9		P	

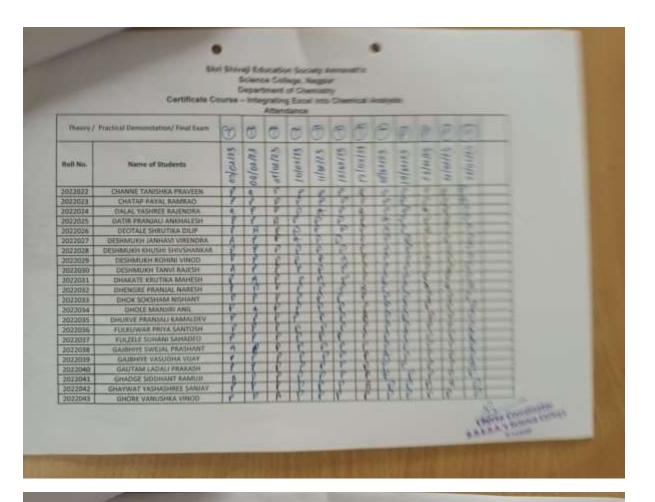
Course Coordinator e.S.E.S.A.'s Science Coll Nagour

Shri Shivaji Education Society Amravati's Science College, Nagpur Department of Chemistry Certificate Course – Integrating Excel Into Chemical Analysis Attendance

Feb-2023

		-	-	Atten	dance	2	_	_	_	-	10	,		_
Theory /	Practical Demonstation/ Final Exam	0	0	0	1	0	0	6	1	0	0	0	0	
Roll No.	Name of Students	Strates o	Elles/ho	office 123	1002423	11 102/13	12/25/23	Emolti	18loz/23	19/11/13	es/ontes	3 Tle 2113	24/63/23	
2022001	ADROKAR TULNA DILIP	1	0	1	0	0	0	10	0	1	1	A	8	
2022002	AGNIHOTRI DEVESH MAHESH	1	0	1	8	1	P	1	0	8	1	1	1	-
2022003	ALAM ALIYA	8	A	n	9	1	P	100	P	8	7	6	0	
2022004	ALONE KHUSHI PRABHUDAS	18	V	V	1	1	9	10	1	-	0		8	
2022005	AMBOLIKAR ISHIKA MANISH	P	9	0	0	1	A	P	R	M	1	10	Α.	
2022006	ARVIWALA HUZEFA KHUZEMA	1	V	1	1	4	2	1	8	8	P	1	No.	
2022007	BAGADE DIYA DEEPAK	P	4	P	A-	P	P	18	8	8	P	Y	Acres	
2022008	BAGADE LEENA BABULAL	P	8	0	P	P	100	1	1	1	A	6	0	=
1022009	BAGHEL SONAM SANTOSHKUMAR	8	1	1	P	P	P	A	8	8	4	160	100	
2022010	BAGHEL UMAKANTI JAGMOHAN		8	100	P	8	100	1	8	P	Y	PL.	2	
2022011	BAIG TASMIYA HAMID	-	2	A:	A	100	R	1	0	1	P	8		
3022012	HARSAGADE KALASH SUDHAKAR	8	4	0	100	A	P	41	A	P	P	1		
2022013	BAWANKULE LAXMI DEVIDAS	1	1	8	A	P	P	1	A		A	1	8	
2022014	BHAGAT ANURADHA ARUN	(±)	V	18	A	P	P	1	P	P	Y	NY SE	P	
2022015	BHAISARE SEIAL SUSHIL	1	A	1	P	8	P	100	A	P	8	0	A	
2022016	BHAISWARE ADITYA RAJESH	X	8	1	P	160	は信	100	A	0	A	P	1	
2022017	BHASMOTE AARADHANA RAJENDRA	8	1	4	P	P	P	15	8	P	1	1	8	
2022018	BHONGADE SNEHA MANISH	A	A	1	A	P	16	Ble	1		A	R		
2022019	BISEN MINAL SHANKAR	1	1	1	P	8	1	100	1	1	7	P	1	
2022020	BORSE PRANALI ANIL	P	1	1	P	10		1	1	1	0	P		-
2022021	CHADDKAR GARIMA WAMANKAO	- 12	1	4	P	0.	130	10 68	18	18	1	T	P	

Course Coordinator



Shri Shivaji Education Society Amravati's
Science College, Nagpur
Department of Chemistry
Certificate Course – Integrating Excel into Chemical Analysis

Theory /	Practical Demonstration/ Final Exam	(1)	(1)	0	(F)	币	(A)	(A)	(A)	100	100	0	1	
Roll No.	Name of Students	03/02/13	04/03/23	offorth)	(10/0×/23 (	1/02/23 (	(2/20/2)	1/04/23	( ) Oz./23	1 Jours	24/Delis	31/04/13	26/24/23	
2022044	GONNADE MADHURIMA SHAILESH	0	P	i	0	0	0	0	0	0	200	7	0	
2022045	GUPTA MOHINI MAHENDRAKUMAR	0	A	0	8	6	10	6		P	4	6	10	
2022046	HAWARE JAYESH ATUN	0	0	0	0	6	0	-	4	6	F-	6	-	-
2022047	HEDYATULLAH SUHANA	1	P	0	0	0	6	0	6	P	-	0	2	-
2022048	INWATE KASHISH RAJU	1	0	0	3	6	-	6	0	*	0	0	5	_
2022049	INGURALA VIDYA CHANDRAIAH	V	1	9	A	0	0	0	8	A	1/2	0	4	-
0022050	JARSWAL KASHISH MANOI	0	0	0	4	-p	b	0	6	2	1	6	2	-
2022051	JAISWAL SALONI SATISH	1	0	P	-	0	P	0	5	-	P	0	0	-
2022052	JOGANI ISHA SURAJ	1	P	D	8	0	14	17	R.	2	0	8	5	-
2022051	JUNGHARE SANCHIT SHESHRAD	1	P	P	0	0	4	0	10	P	1	0		_
2022054	KADU UNNATI UMESH	10	P	P	0	0	-	0	2	7	0	0	4	-
2022055	KALAMIJE SHREYA GUNWANT	1	1	9		A	0	0	0	-	#	6	7	-
2022056	KALE AVANI PREMDAS	P	0	P	4	V I	D	D	-	4	4/	P		-
2022057	KAMDAR SURBHI	W 4500	1/20	8	7	6	0	0	P	7	0	0	4	
2022058	KANGBYA PIYUSH RAJESH	9	0	10 P. 10	-	n	0	0	P	10	0	6	2	-
2022059	KASEKAR ERTA SANJAY	0	8	P	A	0	1	D	b	-	0	6	D	
2022060	KHADSE CHETANA MORESHWAR	P	1	P	0	1	1	1	P	1	0	0	M	
2022061	KHARRIKAR DEVESH RAJU	9	1	P	0	2	1	0	9	1	0	0	8	
2022062	LOKHANDE KASHISH SUHAS	100	1	TOTAL	7	0	11	D	P	47	0	0	6	
2022061	LOKHANDE YASH OMPRAKASH	100	1	P	0	0	P	0	0	2	D	0	A	
2022064	LUTE SUHANI RAMESHWAR	7	P	P	6	0	1	0	6	0	0	0	#	
2022065	MENDWADE AISHWARYA PRAKASH	P	9	p	0	0	70	6	b	A	6	0	6	

Coarse Coordinator
S.S.E.S.A.'s Science College
Nagour

# Shri Shivaji Education Society Amravati's Science College, Nagpur Department of Chemistry Certificate Course – Integrating Excel Into Chemical Analysis

				Atten	dance			1/1	-		_	_		_
Theory /	Practical Demonstation/ Final Exam	0	0	1	1	1	1	1	0	0	0	(1)	0	
Roll No.	Name of Students	Ethoko	14/04/23	or/ours	10/02/29	11/02/18	12/00/12>	Mostes	W 04/23	19/00/23	2400123	2110078	26/cutes	
2022066	MOHANE SRUSHTI MANOJ	1	0	11	P	A	0	10	P	1	18	P	1	
2022067	NAMDED ARYAN UMASHANKAR	0	P	19	4	1	0	P	A	8	18	18	8	
2022068	NAYAK MAHEK GHANSHYAM	0	P		10	1	10	18	V	8	Pi	1	R.O.	
2022069	PAIGAMI MANISH RAJENDRA	1	P	1	1	n	V	GAU	18	n	1	18		
2022070	PAIGANI MEETALI RAJENDRA		P	1	0	1	10	1	P	R	1	10	A	
2022071	PAL VAISHNAVI VINOD	1	P.	10	A	P	1	1	10	P	1	A	P	
2022072	PATIL ANSHUL RAVINDRA		1	1	0	0	0	12	1	1	18	E	2	
2022073	PATIL GRISHMA JAYPAL	f f	P	P	18	1	1	17	1	P	10	Y	P	
2022074	PRASAD SONAM RAMNATH	1		0	P	n	1	18	P	1	P	P	18	
2022075	RALBANDIWAR UMARANI SANIAY	15		1		R	1	1	18	1	13	1	8	
2022076	SAHU APURVA TAPAN	186	N.	A	IA	1	100	n	18	8	IV	1	B	
2022077	SAPATE PORNIMA PRABHU	P		1	16	n	A	Y	P	1	8	16		
2022078	SHAIKH ZOYA MOHAMMAD	1	8	N.	136	1	P	1	P	180	N	1	3"	
2022079	SHRIVASTAV ANUJKUMAR	1	1	18	3	18	10	1	10	P	18	Y	1	
2022080	SINGH MUSKAN KUNDAN KUMAR	10	6		18	1	10	1	18	11	F	1	P	
2022081	SONTAKKE RAIVEE SAROI	16	1	A	13	8	18	1	1	1	1	1	4	
2022082	THAKUR SHRUSHTI DEEPAKSINGH	19	A	100	10	1	1	1	P	18	1	1	1	
2022083	TRIVENI ANJALI DEVISHANKAR	1	4	1	1	n	18	Y	10	18	16	1	R	_
2022084	UPARKAR JUEE VILAS	IR		10	1		18	1	1	-	1	1	P	
2022085	VARMA RIYA JITENDRA	P		18	18	1	1	1		10	1	V	8	
2022086	VYAS HIMANSHU MUKESH		P	1	1	M	1	1	M	P	16	16	-	
2022067	WAHANE NIKITA VINOD	P	DA	I A	P	IP	18	P	P			100	P	

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

Shri Shivaji Education Society Amravati's
Science College, Nagpur
Department of Chemistry
Certificate Course – Integrating Excel into Chemical Analysis

			-	Atter	dance			The same	-					
Theory / P	ractical Demonstation/ Final Exam	(7)	0	1	0	(7)	(T)	(7)	0	(1)	0	(P)	@	
Roll No.	Name of Students	05/02/29	octours	ortoures	10/01/19	11/orth	12/00/25	11/04/25	13 02/25	10/00/23	2402.23	Samope	25/02UP	
2022088	WAHANE PREMANSHU ANIL	P	1	11/2	x	1	p	1 K	A	6	1	P	0	
2022089	WAHANE TEJASVI PRAVIN	10	1	1		P	1	V	1		1	1	1	
2022090	WALDE DURGA RAJU	A	6	10	18	1	P	A	1	1	1	V		
2022093	WANKHEDE JUHI MANOJ	1	1	A	19	18	11	18	1	1	10	P	200	
2022092	WASHIE BUTHEA VINAVAK	0	1	1.5	1	1 Y	P	1.5	Y	10	100,550	100	110	

Course Coordinator

Shri Shivaji Education Society Amravati's Science College, Nagpur Department of Chemistry Certificate Course - Integrating Excel Into Chemical Analysis Attendance

March-2013

		-	-	Atten	dance	_	-			111	_
Theory	Fractical Demonstration/ Final Exam	1	0	0	0	0	0	1			
Hall No.	Name of Students	043123	83/63/68	52/60/90	23/13/13	(e/e3/23	11 103/13	16/03/23			
2022001	ADROKAR TULNA DILIP	P	P	A.	P	P	p	1	_		
2022002	AGNIHOTRI DEVESH MAHESH	1	10	'p	0	33	A	-	_		
2022003	ALAM ALIYA	0	P	D	B	0	9		_	_	_
2022004	ALONE KHUSHI PRABHUDAS	4	0	P	0	D	p	P	_		
202300%	AMBOLIKAE ISHIKA MANSH	1	6	P	P	A	P		_	$\rightarrow$	
2022006	ARVIWALA HUZEFA KHUZEMA	1	D	P	A	p	p		-	_	
2072007	BAGADE DIVA DEEPAR	0	B	D	P	15	9	7	+		
2022008	BAGADE LEENA BABULAL	4	Ø.	0	P	12	12	- 0	-		
2022009	BAGHEL SONAM SANTOSHIKUMAR	12	0	P	p	P	P	-	-	-	_
2022010	BACHEL SIMAKANTI JAGMOHAN	4	0	p	D	D	P	/80	+ - 1	_	_
2022011	BAIG TASHIYA NAMID	P	12	D	A	P	p	100			
2022012	BARSAGADE KALASH SUDHAKAR	0	12	A	0	D	0	-	+		_
2022011	BAWANKULE LAXMI DEVIDAS	2	n	0	P	P	P	-	-	_	_
2022014	BISAGAT AMURADHA ARDN	D	a	12	P	P	0		+	_	_
2022015	BRAZSARE SEIAL SUSHIL		B	0	10	B	8		-		
2022016	BHAISWARE ADITYA RAJESH	P	B	p	B	P	A		1		
2022027	SHASAGITE AARADHANA RAJENDRA	A	P	P	P	P	p	6			
2022018	BHORGADE SNEHA MAARSH	B	70	D	Þ	A	9	10			
2022019	BISEN MINIAL SHANKAR	B	D	A	75		D				
2022020	BORSE PRANALLANG.	D.	D	0	15	D	43	1			
2022021	CHADOKAR GARIMA WASSANRAO	B	100	-	6	P	P	-	-		

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

Shri Shivaji Education Society Amravati's Science College, Nagpur Department of Chemistry Certificate Course – Integrating Excel Into Chemical Analysis

Attendance

Theory /	Practical Demonstation/Final Exam	0	0	Ð	0	0	0	Ð				
Roll No.	Name of Students	62/3/23	03/3/13	8718/100	01/3/23	loles/123	utostzs	10/3/23				
2022022	CHANNE TANISHKA PRAVEEN	P	P	P	P	P	P	Y				
2022023	CHATAP PAYAL RAMRAO	9	P	P	P.	P	P					
2022024	DALAL YASHREE RAJENDRA	0	P	P	A	6	0	99				_
2022025	DATIR PRANJALI ANKHALESH	1	P	A	P	A	P	10				
2022026	DECITALE SHRUTIKA DILIF	13	b.	P	P	P	A	-				
2022027	DESHMUKH JANHAVI VIRENDRA	A	A	P	P	P	7	8				
2022028	DESHMUKH KHUSHI SHIVSHANKAR	P	P	9	A	P	P	181				
2022029	DESHMUKH ROHINI VINDO	P	P	A	P	P	P					
2022030	DESHMUKH TANVI RAJESH	P	P	P	P	A	P	-			_	
2022031	DHAKATE KRUTIKA MAHESH	A	A	9	P	P	8				_	
2022032	DHENGRE PRANIAL NARESH	P	A	P	P	13	0	- 8	_			
2022033	DHOK SOKSHAM NISHANT	P	1	9	A		P					
2022034	DHOLE MANUFL ANIL	P	9	A	9	9	P	-				
2022035	DHURVE PRANJALI KAMALDEV	P	P	P	P	P	18	P				
2022036	FULKUWAR PRIYA SANTOSH	P	P	P	P	1	0	- 1				
2022037	FULTELE SUHANI SAHADED	I B	A	0	P	1	P.	1	-			
2022038	GAJBHIYE SWEJAL PRASHANT	P	10	A	P	1						
2022039	GAJBHIYE VASUDHA VUAY	9	p	P	A	10	0	45				
2022040	GAUTAM LADALI PRAKASH	9	P	P	A	A	0		-			
2022041	GHADGE SIDDHANT RAMUII	P	A	P	10	P	18	(A)		$\vdash$		
2022042	GHAYWAT YASHASHREE SANDAY	B	P	A	1.0	P	10					
2022043	GHORE VANUSHKA VINOD	P	P	P	B	P	9	- 1		-	_	-



#### Shri Shivaji Education Society Amravati's Science College, Nagpur Department of Chemistry Certificate Course – Integrating Excel Into Chemical Analysis Attendance

Theory /	Practical Demonstation/ Final Exam	0	0	0	0	1	1	<b>(E)</b>		
Roll No.	Name of Students	8218120	51/F9/50	62/8/30	09/3/13	14/13/13	116913	16/08/73		
2022044	GONNADE MADHLIRIMA SHAILESH	p	P	P	P	P	P	10		
2022045	GUPTA MOHINI MAHENDRAKUMAR	0	P	P	p	D	P	-		
2022046	HAWARE JAYESH ATUN	0	P	p	P	0	0	Y		
2022047	HEDYATULLAH SUHANA	0	A	0	0	D	D			
2022048	INWATE KASHSH RAJU	P	P	0	0	B	0			
2022049	INGURALA VIDYA CHANDRAIAH	2	P	A	P	9	p)	- 8		
2022050	JAISWAL KASHISH MANOJ	P	P	P	P	0	D	7		
2022051	JAISWAL SALONI SATISH	P	P	P	0	p	0			
2022052	JOBANI ISHA SURAI	A	A	P	P	P	9			
2022053	JUNGHARE SANCHIT SHESHRAG	p	P	p	6	P	D.	P		
2022054	KADU UNNATI UMESH	P	p	p	P	A	0			
2072055	KALAMBE SHREYA GUNWANT	P	P	A	9	P	P	7		
2022056	KALE AVANI PREMIDAS	P	A	P	1 7	P	0	- 1		
2022057	KAMDAR SURBH	P	9	P	0	P	A	12		
2022058	KANOJIYA PIYUSH RAJESH	A	P	A	9	A	p	(A)		
2022059	KASEKAR EKTA SANJAY	P	A	1	1 6	P	P	- 6	The second	
2022960	KOSADSE CHETANA MORESHWAR	P	P	P	P	P	P	-		
2022061	KHARBIKAN DEVESH NAJU	P	p	P	P	B	P	- 2		
2022062	LOKHANDE KASHISH SLIHAS	A	P	9	P	D.	1			
2022063	LOKHANDE YASH OMPRAKASH	P	P	8	p	P	9	100		100
2022064	LUTE SUHANI RAMESHWAR	P	9	0	P	P	6			
2022065	MENDWADE ASSHWARYA PRAKASH	- P	P	P	P	P	P	P		

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

Shri Shivaji Education Society Amravati's
Science College, Nagpur
Department of Chemistry
Certificate Course – Integrating Excel Into Chemical Analysis
Attendance

		_		1,310-0111	-	_					
Theory / Pr	ractical Demonstation/ Final Exam	0	00	0	0	1	0	<b>(E)</b>			
Roll No.	Name of Students	20/20/21	63/69/13	82/80/00	collosia	10/03/23	ulaste3	1013/13			
2022066	MOHANE SRUSHTI MANOJ	P	P	P	1	P	2	P			-
2022067	NAMDED ARYAN UMASHANKAR	P	In Pil	P	P	1 2	8	8			-
2022068	NAYAK MAHEK GHANSHYAM	P	P	P	9	1	2	- 1			-
2022069	PAUGAME MANISH RAJENDRA	P	P	P	B	1	A	R	-		-
2022070	PAIGANI MEETALI RAJENDRA	P	B	P	P	18	P	- 1	-	_	
2022071	PAL VAISHNAVI VINOD	9	P	P	P	I P	IP		-		
2022072	PATIL ANSHUL RAVINDRA	P	P	P	P	10	I A	V.			
2022073	PATIL GRISHMA JAYPAL	1.0	9	P	P	18	P				-
2022074	PRASAD SONAM RAMNATH	6	8	10	B	10	P	- 0	-		
2022075	RALBANDIWAR UMARANI SANIAY	9	P	B	P	1.9	9	- 6			
2022076	SAHU APURYA TAPAN	P	P	P	P	10	9			_	
2022077	SAPATE PORNIMA PRAIIHU	10	P	P	16	1P	P	16	-		
2022078	SHAIRH ZOYA MOHAMMAD	P	18	P	P	P	P	- 0			
2022079	SHRIVASTAV ANLIKUMAR	P	P	P	P	P	9	- 6			
2022080	SINGH MUSIKAN KUNDAN KUMAR	10	18	P	P	H	0	0			
2022081	SONTAKKE RAJVEE SARDJ	A	10		A	P	10	0			
2022082	THAKUR SHRUSHTI DEEPAKSINGH	18	P	-	P	12	100	- 5			
2022083	TRIVENI ANIALI DEVISHANKAR	9	A	9	10	P	P	0			
2022084	UPARKAR JUEE VILAS	18	0	P	P	P		-			
2022085	VARMA RIYA JITENDRA	P	P	P	P	H	P	- 6			
2022086	VYAS HIMANSHU MUKESH	16	1	B	18	10	6	- 6			
2022087	WAHANE NIKITA VINOD	1 5	I A	P	13	1			_	100	

Course Coordinator
S.S.E.S.A. S Science College
Naspor

# Shri Shivaji Education Society Amravati's Science College, Nagpur Department of Chemistry Certificate Course – Integrating Excel into Chemical Analysis Attendance

		-	_	Atten	danc	1	-		 
Theory / P	ractical Demonstation/ Final Exam	0	1	0	0	0	<b>(7)</b>	9	
Roll No.	Name of Students	61/3/13	03/3/23	6413123	09/3/23	1013133	113123	1615123	
2022088	WAHANE PREMANSHU ANIL	P	9	P	P	P	8		
2022089	WARRANE TELASVI PRAVIN	0	A	P	P	0	P	The second	
2022090	WALDE DURGA RAJU	P	P	6	p	10	P	- 1	
2022091	WANKHEDE JUHI MANOJ	0	P	A	B	0	P	R	
2022092	WASNIK RUTIKA VINAYAK	P	P	P	0	0	9	P	

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



#### Shri Shivaji Education Society Amravati's

#### Science College, Nagpur

#### Department of Chemistry

#### Notice

#### To All Students of the Certificate Course: Integrating Excel into Chemical Analysis

This is to inform you that the theory examination for the "Integrating Excel into Chemical Analysis" course will be conducted as per the following details:

Date: March 16, 2023

· Time: 3:00 PM

. Venue: Room C10

All students are required to be present at the specified venue 15 minutes before the exam time. Please ensure you bring all necessary materials and your student ID card.

For any further queries, please contact the course coordinator, Dr. Sarang S. Dhote.

Thank you.

Course Coordinator Dr. Sarang S. Dhote Chemistry Department Shivaji Science College

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

## **Sample Question Paper**

#### Shri Shivaji Education Society Amravati's

## Science College, Nagpur

## CERTIFICATE COURSE - INTEGRATING EXCEL INTO CHEMICAL ANALYSIS THEORY EXAM

THEORY EXAM									
Max. Marks - 50	Marks Obtained -								
Roll No.	Sign of Invigilator								
Note – Each Question Carry 2 Marks	s. All Questions Are Compulsory								
1. Which Excel feature allows you workspace?	to customize the layout and appearance of your								
A. Data Validation									
B. Conditional Formatting									
C. Excel Interface Customization									
D. PivotTable									
2. What is the primary purpose of u	sing formulas in Excel?								
A. To create charts									
B. To perform calculations									
C. To filter data									
D. To sort data									
3. Which function is used to calculate	te the average of a range of cells in Excel?								
A. SUM									
B. AVERAGE									
C. MEDIAN									
D. MODE									

- A. Using the Filter tool
- B. Using the Data Validation tool
- C. Using the Remove Duplicates feature

4. How can you remove duplicate entries from a dataset in Excel?

D. Using Conditional Formatting
5. Which of the following is NOT a descriptive statistic?
A. Mean
B. Median
C. Standard Deviation
D. PivotTable
6. Which Excel feature highlights important data points and trends?
A. PivotTable
B. Conditional Formatting
C. Data Validation
D. Solver
7. Which function checks if all conditions in a statement are TRUE?
A. IF
B. AND
C. OR
D. NOT
8. What is the purpose of the CORREL function in Excel?

- A. To calculate the sum of a range
- B. To find the correlation between two datasets
- C. To filter data
- D. To validate data

#### 9. What does data validation in Excel help to achieve?

- A. Sorting data
- B. Ensuring data integrity
- C. Creating charts
- D. Removing duplicates

#### 10. Which tool is used to summarize data in Excel?

- A. Chart Wizard
- B. Solver
- C. PivotTable

D. Data Validation
11. Which chart type is most suitable for showing trends over time?
A. Pie Chart
B. Line Chart
C. Bar Chart
D. Scatter Plot
12. What is the purpose of adding error bars to a chart in Excel?
A. To highlight data points
B. To display data variations
C. To create a legend
D. To filter data
13. What is a PivotChart used for?
A. Summarizing data in tabular form
B. Creating dynamic visualizations
C. Highlighting data trends
D. Validating data entries
14. Which of the following is a type of trend line that can be added to an Excel chart?
A. Linear
B. Exponential
C. Polynomial
D. All of the above
15. Which feature allows you to dynamically adjust the data range in a chart?
A. Slicers
B. Data Validation
C. PivotTable
D. Chart Filters
16. Which statistical method is used for analysing the relationship between two variables?

A. Sorting

B. Filtering

C. Regression Analysis

D. Conditional Formatting
17. What type of analysis involves fitting a model to data points to make predictions

- A. Descriptive Statistics
- B. Regression Analysis
- C. Data Validation
- D. Charting

#### 18. Which Excel tool can be used to simulate chemical reaction processes?

- A. Solver
- B. PivotTable
- C. Conditional Formatting
- D. Data Validation

#### 19. What is the benefit of using Excel for generating chemical analysis reports?

- A. It can store large datasets
- B. It provides statistical analysis tools
- C. It offers visualization options
- D. All of the above

#### 20. Which feature in Excel can help model chemical kinetics?

- A. Solver
- B. PivotTable
- C. Chart Wizard
- D. Data Validation

#### 21. What is the first step in preparing a dataset for analysis in Excel?

- A. Creating charts
- B. Data cleaning
- C. Running regression analysis
- D. Applying conditional formatting

## 22. Which Excel function can be used to calculate the correlation between two chemical variables?

- A. CORREL
- B. SUM
- C. AVERAGE

#### 23. Which of the following is used to create dynamic and interactive data summaries?

- A. Scatter Plot
- B. PivotTable
- C. Line Chart
- D. Histogram

Answer: B

#### 24. How can Excel help in chemical data visualization?

- A. By creating various types of charts and graphs
- B. By performing data validation
- C. By sorting and filtering data
- D. By using conditional formatting

#### 25. Which Excel feature allows you to simulate and analyze complex chemical reactions?

- A. PivotTable
- B. Conditional Formatting
- C. Solver
- D. Chart Wizard

## **Answer Key**

- 1. Answer: C
- 2. Answer: B
- 3. Answer: B
- 4. Answer: C
- 5. Answer: D
- 6. Answer: B
- 7. Answer: B
- 8. Answer: B
- 9. Answer: B
- 10. Answer: C
- 11. Answer: B
- 12. Answer: B
- 13. Answer: B
- 14. Answer: D
- 15 A D
- 15. Answer: D
- 16. Answer: C
- 17. Answer: B
- 18. Answer: A
- 19. Answer: D
- 20. Answer: A
- 21. Answer: B
- 22. Answer: A
- 23. Answer: B
- 24. Answer: A
- 25. Answer: C

## **Attendance for Examination**

	Shri Shivaji Education Society Am Science College, Nagpur	ravati's	ribe
Certificate	Department of Chemistry Course – Integrating Excel into Che Exam Attandence 16/03/202	mical Analysis	
Roll. No.	Name of Students	Sign	Sign of Invigilator
2022001	ADROKAR TULNA DILIP		Trulam A &
2022002	AGNIHOTRI DEVESH MAHESH	Acas	500
2022003	ALAM ALIYA	ALAM	88
2022004	ALONE KHUSHI PRABHUDAS	Hone	8
2022005	AMBOLIKAR ISHIKA MANISH	Ishika	\$8hryen 6
2022006	ARVIWALA HUZEFA KHUZEMA	ast iwal	1 8
2022007	BAGADE DIYA DEEPAK	Boelade	Beston
2022008	BAGADE LEENA BABULAL	Barnella	8
2022009	BAGHEL SONAM SANTOSHKUMAR	Sonam	8
2022010	BAGHEL UMAKANTI JAGMOHAN	ABSENT	2
2022011	BAIG TASMIYA HAMID	Tarmiele.	8
2022012	BARSAGADE KALASH SUDHAKAR	Bussabeclo	1 ,
2022013	BAWANKULE LAXMI DEVIDAS	James 7	lekny
2022014	BHAGAT ANURADHA ARUN	Bhazal	0
2022015	BHAISARE SEJAL SUSHIL	Motivi_	8
2022016	BHAISWARE ADITYA RAJESH	Agrido	2
2022017	BHASMOTE AARADHANA RAJENDRA	Bhangte	-0
2022018	BHONGADE SNEHA MANISH	Menter	0
2022019	BISEN MINAL SHANKAR	nisen	1
2022020	BORSE PRANALI ANIL	Parenett	(M)
	CHADOKAR GARIMA WAMANRAO	G. Charby	W 2
2022021	CHANNE TANISHKA PRAVEEN	Chee.	3
2022022	CHATAP PAYAL RAMRAD	Dalle 1	payal

2022024	DALAL YASHREE RAJENDRA	ABSERT	8
2022025	DATIR PRANJALI ANKHALESH	PDable	5
2022026	DEOTALE SHRUTIKA DILIP	Sheusina	8
2022027	DESHMUKH JANHAVI VIRENDRA	Tambel	3/
2022028	DESHMUKH KHUSHI SHIVSHANKAR	elesnand	4 80
2022029	DESHMUKH ROHINI VINOD	R. doshrum	100
2022030	DESHMUKH TANVI RAJESH	James	8
2022031	DHAKATE KRUTIKA MAHESH	VAIH KA	D.
2022032	DHENGRE PRANJAL NARESH	P. donacte	. 8
2022033	DHOK SOKSHAM NISHANT	SOKSHIM	52
2022034	DHOLE MANJIRI ANIL	Manifel	8
2022035	DHURVE PRANJALI KAMALDEV	O. clubert	. 8
2022036	FULKUWAR PRIYA SANTOSH	Sycallin	eve
2022037	FULZELE SUHANI SAHADEO	(SK)	0
2022038	GAJBHIYE SWEJAL PRASHANT	S. P. Glaibhire	8
2022039	GAJBHIYE VASUDHA VIJAY	Gaib.	8
2022040	GAUTAM LADALI PRAKASH	buthern	0
2022041	GHADGE SIDDHANT RAMUJI	ABSENT	85
2022042	GHAYWAT YASHASHREE SANJAY	6 Herry	8
2022043	GHORE VANUSHKA VINOD	Othoce-	8
2022044	GONNADE MADHURIMA SHAILESH	GOT	8
2022045	GUPTA MOHINI MAHENDRAKUMAR	mohani	8
2022046	HAWARE JAYESH ATUN	Tayesh	8
2022047	HEDYATULLAH SUHANA	Suhama	8
2022048	INWATE KASHISH RAJU	K. RITHULL	8
2022049	IRGURALA VIDYA CHANDRAIAH	Volue	8
2022050	JAISWAL KASHISH MANOJ	hat.	Kohushs
2022051	JAISWAL SALONI SATISH	allow	8

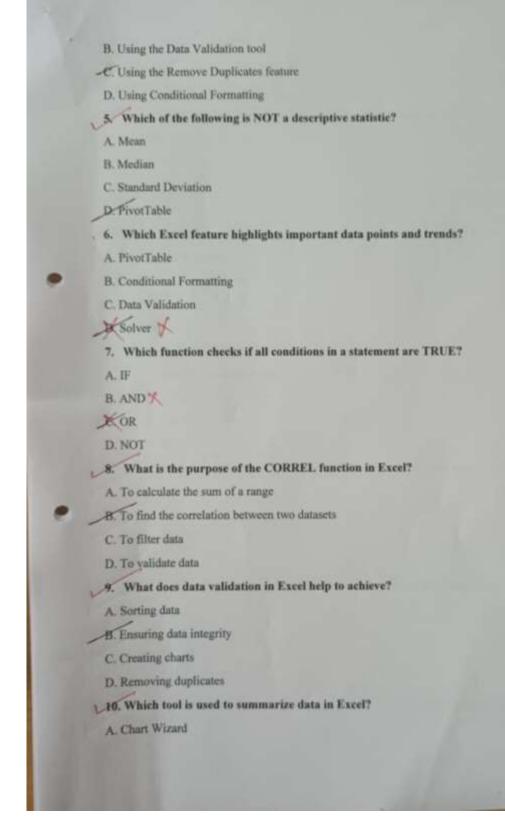
2022052	JOGANI ISHA SURAJ	Jarhen	800
2022053	JUNGHARE SANCHIT SHESHRAO	Trans.	8
2022054	KADU UNNATI UMESH	Unnadi_	50
2022055	KALAMBE SHREYA GUNWANT	80	Gor
2022056	KALE AVANI PREMDAS	Kale	9
2022057	KAMDAR SURBHI	Kamdel	50
2022058	KANOJIYA PIYUSH RAJESH	ABSENT	80
2022059	KASEKAR EKTA SANJAY	Rotu	8
2022060	KHADSE CHETANA MORESHWAR	Randiala	87
2022061	KHARBIKAR DEVESH RAJU	Lanna	Ser
2022062	LOKHANDE KASHISH SUHAS	Lokhonse.	B
2022063	LOKHANDE YASH OMPRAKASH	Tähman	8
2022064	LUTE SUHANI RAMESHWAR	SILLE	88
2022065	MENDWADE AISHWARYA PRAKASH	Lowns	8
2022066	MOHANE SRUSHTI MANOJ	Seletai	8
2022067	NAMDEO ARYAN UMASHANKAR	*more	8
2022068	NAYAK MAHEK GHANSHYAM	Northe	8
2022069	PAIGAMI MANISH RAJENDRA	Conso	8
2022070	PAIGANI MEETALI RAJENDRA	Die	88
2022071	PAL VAISHNAVI VINOD	mon	8
2022072	PATIL ANSHUL RAVINDRA	bounts	8
2022073	PATIL GRISHMA JAYPAL	German	8
2022074	PRASAD SONAM RAMNATH	Smam	8
2022075	RALBANDIWAR UMARANI SANJAY	trazem	8
2022076	SAHU APURVA TAPAN	A	8
2022077	SAPATE PORNIMA PRABHU	P. Sapate	8
2022078	SHAIKH ZOYA MOHAMMAD	20400	8
2022079	SHRIVASTAV ANUJKUMAR	STORE	8

2022080	SINGH MUSKAN KUNDAN KUMAR	Msing 8
2022081	SONTAKKE RAJVEE SAROJ	R. Sonfaklie &
2022082	THAKUR SHRUSHTI DEEPAKSINGH	Phuber 80
2022083	TRIVENI ANJALI DEVISHANKAR	Thireeni &
2022084	UPARKAR JUEE VILAS	Toes &
2022085	VARMA RIYA JITENDRA	D. Vyramy &
2022086	VYAS HIMANSHU MUKESH	De &
2022087	WAHANE NIKITA VINOD	Nikitu &
2022088	WAHANE PREMANSHU ANIL	wenno &
2022089	WAHANE TEJASVI PRAVIN	Tojasvi 2
2022090	WALDE DURGA RAJU	relde 8
2022091	WANKHEDE JUHI MANOJ	J. Waneshine
2022092	WASNIK RUTIKA VINAYAK	Rusika 8

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

#### **One Solved Question Paper**

## RASHTRASANT TUKADOJI MAHARAJ, NAGPUR UNIVERSITY, NAGPUR IN COLLABORATION WITH SSES SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR-12 CERTIFICATE COURSE - INTEGRATING EXCEL INTO CHEMICAL ANALYSIS THEORY EXAM Max. Marks - 50 Marks Obtained -Roll No. 2022019 Sign of Invigilator Note - Each Question Carry 2 Marks. All Questions Are Compulsory 1. Which Excel feature allows you to customize the layout and appearance of your workspace? A. Data Validation De Conditional Formatting C. Excel Interface Customization D. PivotTable 2. What is the primary purpose of using formulas in Excel? A. To create charts B. To perform calculations C. To filter data D. To sort data 3. Which function is used to calculate the average of a range of cells in Excel? A. SUM B. AVERAGE C. MEDIAN D. MODE 4. How can you remove duplicate entries from a dataset in Excel? A. Using the Filter tool



113	B. Solver
	O PivotTable
	D. Data Validation
	11. Which chart type is most suitable for showing trends over time?
	A. Pie Chart
	B. Line Chart
	C. Bar Chart
	D. Scatter Plot
	12. What is the purpose of adding error bars to a chart in Excel?
	A. To highlight data points
	B. To display data variations
	C. To create a legend
	D. To filter data
	13. What is a PivotChart used for?
	Summarizing data in tabular form X
	B. Creating dynamic visualizations
	C. Highlighting data trends
	D. Validating data entries
	14. Which of the following is a type of trendline that can be added to an Excel chart?
	A. Linear
	B. Exponential
	C. Polynomial
	D. All of the above
19/1	15. Which feature allows you to dynamically adjust the data range in a chart?
	A Slicers
	B. Data Validation
	C. PivotTable
100	6 Chart Filters X
	16. Which statistical method is used for analyzing the relationship between two variables?
200	A. Sorting
To les	

B. Filtering
C. Regression Analysis
D. Conditional Formatting
17. What type of analysis involves fitting a model to data points to make predictions?
A. Descriptive Statistics
B. Regression Analysis
C. Data Validation
D. Charting
18. Which Excel tool can be used to simulate chemical reaction processes?
A. Solver
B. PiyotTable
Conditional Formatting
D. Data Validation
19. What is the benefit of using Excel for generating chemical analysis reports?
A. It can store large datasets
B. It provides statistical analysis tools
C. It offers visualization options
D. All of the above
20. Which feature in Excel can help model chemical kinetics?
A. Solver
PivotTable X
C. Chart Wizard
D. Data Validation
21. What is the first step in preparing a dataset for analysis in Excel?
A. Creating charts
B. Data cleaning
C. Running regression analysis
D. Applying conditional formatting
22. Which Excel function can be used to calculate the correlation between two chemical variables?
A. CORREL

- B. SUM
- C. AVERAGE
- D. IF
- 23. Which of the following is used to create dynamic and interactive data summaries?
  - A. Scatter Plot
- B. PivotTable
- C. Line Chart
- D. Histogram
- Answer: B
- 24 How can Excel help in chemical data visualization?
- A. By creating various types of charts and graphs
- B. By performing data validation
- By sorting and filtering data
  - D. By using conditional formatting
- 25. Which Excel feature allows you to simulate and analyze complex chemical reactions?
  - A. PivotTable
  - B. Conditional Formatting
- C. Solver
- D. Chart Wizard

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

#### Mark list of Exam With Grade.

#### Shri Shivaji Education Society Amravati's Science College, Nagpur Department of Chemistry

## Certificate Course – Integrating Excel into Chemical Analysis Theory Exam Marklist

Roll No.	Name of Students	Theory Marks (Out of 50)	Percentage	Grade
2022001	ADROKAR TULNA DILIP	36	72	A
2022002	AGNIHOTRI DEVESH MAHESH	40	80	A
2022003	ALAM ALIYA	40	80	A
2022004	ALONE KHUSHI PRABHUDAS	40	80	A
2022005	AMBOLIKAR ISHIKA MANISH	40	80	A
2022006	ARVIWALA HUZEFA KHUZEMA	34	68	B+
2022007	BAGADE DIYA DEEPAK	32	64	B+
2022008	BAGADE LEENA BABULAL	32	64	B+
2022009	BAGHEL SONAM SANTOSHKUMAR	34	68	B+
2022010	BAGHEL UMAKANTI JAGMOHAN		Absent	
2022011	BAIG TASMIYA HAMID	38	76	A
2022012	BARSAGADE KALASH SUDHAKAR	46	92	A+
2022013	BAWANKULE LAXMI DEVIDAS	32	64	B+
2022014	BHAGAT ANURADHA ARUN	32	64	B+
2022015	BHAISARE SEIAL SUSHIL	42	84	A+
2022016	BHAISWARE ADITYA RAJESH	46	92	A+
2022017	BHASMOTE AARADHANA RAJENDRA	42	84	A+
2022018	BHONGADE SNEHA MANISH	46	92	A+
2022019	BISEN MINAL SHANKAR	34	68	B+
2022020	BORSE PRANALI ANIL	48	96	A+
2022021	CHADOKAR GARIMA WAMANRAO	34	68	B+
2022022	CHANNE TANISHKA PRAVEEN	48	96	A+
2022023	CHATAP PAYAL RAMRAO	34	68	8+
2022024	DALAL YASHREE RAJENDRA	Absent		
2022025	DATIR PRANJALI ANKHALESH	30	60	8
2022026	DEOTALE SHRUTIKA DILIP	38	76	A
2022027	DESHMUKH JANHAVI VIRENDRA	34	68	B+
2022028	DESHMUKH KHUSHI SHIVSHANKAR	34	68	8+
2022029	DESHMUKH ROHINI VINOD	36	72	A
2022030	DESHMUKH TANVI RAJESH	40	80	A
2022031	DHAKATE KRUTIKA MAHESH	34	68	B+
2022032	DHENGRE PRANJAL NARESH	34	68	B+
2022033	DHOK SOKSHAM NISHANT	46	92	A+
2022034	DHOLE MANJIRI ANIL	32	64	B+
2022035	DHURVE PRANJALI KAMALDEV	46	92	A+
2022036	FULKUWAR PRIYA SANTOSH	34	68	B+
2022037	FULZELE SUHANI SAHADEO	30	60	В
2022038	GAJBHIYE SWEJAL PRASHANT	40	80	A
2022039	GAJBHIYE VASUDHA VIJAY	34	68	B+
2022040	GAUTAM LADALI PRAKASH	38	76	A

0

A course Coordinator
S.S.E.S.A.'s Science College
Nappur

1022041	GHADGE SIDDHANT RAMUJI			
2022042	GHAYWAT YASHASHREE SANIAY	38	Absent	_
2022043	GHORE VANUSHKA VINOD		76	A
2022044	GONNADE MADHURIMA SHAILESH	32	64	B+
2022045	GUPTA MOHINI MAHENDRAKUMAR	32	54	B+
2022046	HAWARE JAYESH ATUN	40	80	A
2022047	HEDYATULLAH SUHANA	44	88	A+
2022048	INWATE KASHISH RAJU	38	76	A
2022049	IRGURALA VIDYA CHANDRAIAH	46	92	Ar
2022050	JAISWAL KASHISH MANOJ	38	76	A
2022051	JAISWAL SALONI SATISH	40	80	A
2022052	JOGANI ISHA SURAJ	32	64	B+
2022053	JUNGHARE SANCHIT SHESHRAO	36	72	A
2022054	KADU UNNATI UMESH	48	96	A+
2022055	KALAMBE SHREYA GUNWANT	36	72	A
2022056	KALE AVANI PREMDAS	46	92	A+
2022057		42	84	A+
2022058	KAMDAR SURBHI	40	80	A
2022059	KANOJIYA PIYUSH RAJESH		Absent	
2022060	KASEKAR EKTA SANJAY	48	96	A+
2022061	KHADSE CHETANA MORESHWAR	48	96	Α+
2022062	KHARBIKAR DEVESH RAJU	38	76	A
2022063	LOKHANDE KASHISH SUHAS	32	64	B+
2022063	LOKHANDE YASH OMPRAKASH	46	92	A+
	LUTE SUHANI RAMESHWAR	46	92	A+
2022065	MENDWADE AISHWARYA PRAKASH	34	68	B+
2022066	MOHANE SRUSHTI MANOJ	32	64	B+
2022067	NAMDEO ARYAN UMASHANKAR	32	64	B+
2022068	NAYAK MAHEK GHANSHYAM	40	80	A
2022069	PAIGAMI MANISH RAJENDRA	34	68	8+
2022070	PAIGANI MEETALI RAJENDRA	40	80	A
2022071	PAL VAISHNAVI VINOD	48	96	A+
2022072	PATIL ANSHUL RAVINDRA	34	68	B+
2022073	PATIL GRISHMA JAYPAL	38	76	A
2022074	PRASAD SONAM RAMNATH	40	80	A
2022075	RALBANDIWAR UMARANI SANJAY	40	80	A
2022076	SAHU APURVA TAPAN	30	60	В
2022077	SAPATE PORNIMA PRABHU	48	96	A+
2022078	SHAIKH ZOYA MOHAMMAD	36	72	A
2022079	SHRIVASTAV ANUJKUMAR	46	92	A+
2022080	SINGH MUSKAN KUNDAN KUMAR	44	88	A+:
2022081	SONTAKKE RAJVEE SAROJ	34	68	8+
2022082	THAKUR SHRUSHTI DEEPAKSINGH	44	88	A+
2022083	TRIVENI ANJALI DEVISHANKAR	36	72	A
2022084	UPARKAR JUEE VILAS	36	72	A
2022085	VARMA RIYA JITENDRA	38	76	A
2022086	VYAS HIMANSHU MUKESH	32	64	8+
2022087	WAHANE NIKITA VINOD	44	88	At
2022088	WAHANE PREMANSHU ANIL	48	96	A+
2022089	WAHANE TEJASVI PRAVIN	30	60	В
2022090	WALDE DURGA RAJU	36	72	A COL

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

2022091	WANKHEDE JUHI MANOJ	46	92	A+
2022092	WASNIK RUTIKA VINAYAK	38	76	A

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



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

NY Nu Chetona Moushwas Khate is awarded with certificate on successful completion of the course entified, Certificate course in "Integrating Excel Inte Chemical Analysis".

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 'A' Grade.

Dr. S. S. Dhote Coordinator, Department of Chemistry

MELIEL

Prof. M. P. Dhore

