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

2016/22

Yours sincerely 00

(Prof. Relie Knope)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 (Even Semester)



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	Theory paper- Integrating	50	00	00	50
INTEGRATING EXCEL INTO CHEMICAL ANALYSIS	Excel into Chemical Analysis			00	
		Grand	total		50

· Internal assessment -

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Based on students' attendance and performance during theory, practical & anignments'case study

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

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

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

Teaching Plan	for Certificate	Course:	Integrating	Excel into	Chemical"
Analysis			100		

Day	Actual Date	Lecture Topic	Unit
	0610112023	Excel Interface and Basic Functionalities	Unit 1
2	07 01 2023	Data Entry and Management	Unit I
3	03/01/2023	Data Cleaning Techniques	Unit 1
4	13/01/2023	Basic Data Analysis	Unit I
5	14 011 2023	Conditional Formatting	Unit 2
6	15/01/2023	Advanced Formulas and Functions	Unit 2
7	20/01/2023	Advanced Formulas and Functions (Continued)	Unit 2
5	21/0/1023	Data Sorting and Filtering	Unit 2
9	22/01/1023	Data Sorting and Filtering (Continued)	Unit 2
0	27/01/2023	Data Validation and Error Checking	Unit 2
1	28/01/1013	Creating Charts and Graphs	Unit 3
12	29/01/2023	Creating Charts and Graphs (Continued)	Unit 3
13	03/01/23	Customizing Charts	Unit 3
14	04/02/2023	PivotTables and PivotCharts	Unit 3
15	05/0212023	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	12 021 1023	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 7021 2023	Data Entry and Organization	Practical Demonstration Sension 1
22	24/02/2023	Applying Advanced Formulas	Practical Demonstration Session 2
23	25/02/2023	Creating Dynamic Charts and Graphs	Practical Demonstration Session 3
24	26 /02/2023	Performing Regression Analysis	Practical Demonstration Session 4
25	02/03/2023	Review and Q&A Session	Review Session
26	03/03/2023	Hands-on Practice and Assignment Discussion	Practical
27	04/03/2023	Hands-on Practice and Assignment Discussion (Continued)	Practical Application
28	69 051 1023	Final Revision and Exam Preparation	Review Seation
29	10/03/2023	Mock Exam and Feedback	Review Session
30	11103/2023	Course Wrap-up and Final Instructions	Wran-up Sension
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Course Coordinator S.S.E.S.A.'s Science College Nagpur

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List of Admitted Students

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2022037	FULZELE SUHANI SAHADEO	<u>6K)</u>
2022038	GAJBHIYE SWEJAL PRASHANT	S.P.G. johiu
2022039	GAJBHIYE VASUDHA VUAY	V. bush
2022040	GAUTAM LADALI PRAKASH	erfam
2022041	GHADGE SIDDHANT RAMUJI	S.R. Chade
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2022044	GONNADE MADHURIMA SHAILESH	all
2022045	GUPTA MOHINI MAHENDRAKUMAR	motive
2022046	HAWARE JAYESH ATUN	Jayesh
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Course Coordinator S.S.E.S.A.'s Science College Nagpur

Attendance

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2022001	ADROKAN TULWA DILVP	T	P	T	P	9	P	F	8	1	1	A	E	
2022002	AGNOHOTRI DEVESIT MARESH	11	1	1	1	7	P	17	10	1	T	11	12	
2022003	ALANE ALIYA	10	R	6	1	12	10	17	10	1	17	17	0	
2022004	ALONE KIRUSHI PRABNUDAS	18	10	1.00	7	17	1	100	12	17	17	17	18	
2022005	AMBOLICAR CHIERA MARISH	0	10	0	T	17	A	11	F	1	r	10	A	
20220066	ABUIWALA HEITEFA KHUZEBAA	Y	5	1	1	Pr.	8	11	R	1	p	17	1	
2002003	BASADE DAVA DEFEAK	12	1	P	a	P	0	12	p	0	1 Y	Y	4	
2222008	BAGADE LEENA BABULAL	Ø	3	17	P	P	10	10	n	4	8	10	C	
2022008	BATHEL SONAME SANTCISHOUMAR	12	1	12	0	8	P	6	10	V	4	1	PP	1
2022030	BAGHEL UMAKENTI JAGAICHAN	17	T	TP	P	P	10	17	P	R	8	N	18	
2022031	BAIG TASBUTA HANNE	1	2	10	A	R	P	10	P	1	8	8	10	1
2072012	BRASAGADE KALASH SUDINAKAR	8	1	10	P	R	P	4	A	P	P	1	1	
2072013	BEWANKIER LARM DEVIDAS	11	11	1	A	P	P	11	A	1	A:	3	1	
2033014	BHADAT ANURADHA ARUN	1 45	1	11	14	1	P	18	P	P	Y	1	10	
2012015	BRUNISARE SEAA SLISPEL	1	A	18	P	P	P	18	A	P	8	P.	A	
2022016	BINALSWART ACITYA RAJESH	8	11	15	P	P	18	18	A	P	6	1	1	
2012017	BHADANTE AARADHANA RAIENORA	8	f	4	P	P	6	1	P	19	r	1	8	
3033618	BREINGAINE SINCHSA FAAMEERS	A.	1	1	P	1 P	1K	1	1	-la	1.4	1	1	
2012019	BISEN LONGLI SHANKAR	P.	1	11	E	P	C		1	1	T_	1 K	16	-
2022020	BORSE PRAMALE ANIL	1	1	1	P.	4	P	I	6	15	124	P	1	-
2022021	CHADOKAR GARIBAN WANANIKAD	19	18	Y	1 P	100	R	1.	E	R	1	T	11	

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Roll No.	Name of Students	Suroko	61/10/00	arlunns	rolovits.	114113	2114111	ryforth	61111/20	0110103	1110.05	1110/11	9 4 (n 1 1 1 1 1
2022022	CHANNE TANISHKA PRAVEEN	1	6	8	1	10	1	18	100	15	1.42		
2022023	CHATAF FAYAL BAMBAD	11	1	8	E	18	1.1	1.8	1.00	18		100	
2022024	CIALAL TASHREE RAJENORA	4	1	F	0	1	18	14	1.2	3	1.	100	20 million - 10 mi
2022025	DATIR PRANIALI ANKRALESH	18	Y	10	15	18	12	1.0	1.0	10	14	1.5	and the second s
2022026	DEOTALE SHRUTTILA DILIP.	1	R	8	1P	£.	P	18	1.6	10	1.8.		
3022027	DESHMURH JANHAVI VIRENDRA	A	12	1.5	*	18	10	1.5.	1.8	1.2	12	×.	and a second sec
2022028	DESHMUKH KHUSHI SHIVSHANKAR	1	1	P	P	E.	1.12	16	12	1.8	15	-	
2022029	DESHMUKH ROHINI VINOD	1.1	1 C	1 E	18	1	13	1.0	1.5	1.5	12.	12	and the second s
2022090	DESHMUKH TANVI NAJESH	A	1	10	r	E.	1.0	1.0	16	15	12	- 6	e X and a second
3022031	DHARATE KRUTIKA MANEEH	R.	1	LE	E	N.	LY.	1.	12	15	15.	-25-	2 C
2022032	DHENGRE PRANAL NARESH	11	J.P.	11	6	the.	15	1.5	4.50	15.	12		
2022033	DHOK SOKSHAM NISHANT	P	R	11	15	15.	15.	15	15	15	45	-8	Start
2022034	DHOLE MANAGER AND	P	4	18	F	15	130	4.5	+6	-8-	45.	+5	the second se
2022035	DHURVE PRANSALI KAMACINV	Y	1 f	15	15	2	15	1.5	1.5	1	++	+ -	
2022036	FULKUWAR PRIVA SANTUSH	1.E	14	14	1 Se	11	200	15	14	13	1	+	12.
2022037	FULZELE SUMANI SAMADED	18	1 Sec	15	15	$+X_{i}$	15-	++	+5	-15-	4.5	+3	
2022038	GAIBHITE SWELAL PRASHANT	2	1.6	1.5	11	134	15	++	18	15	-	1 -	15-1-1
2022039	GAJEHIYE VASUCINA VUAY	15	15	1.6	1-6	1		4.5	445	-14-		+5	12-1
2022040	GAUTAM LADALI PRAKASH	10	1	1h	the	1	tip	1	14	- Property	15	10-10-	10.1
2022041	SHADGE SIDDHUNET RAMUN	B	12	16	the	15	14	15	-	et de	100	14	1 21 1
2022042	GHAYWAT YASHASHREE SANIAY	11	1	11	14	11	1d	1 p	and a	1-1-	+4	-tw	1 10
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2022944	GONNADE MADHURINA SHAILESH	A	P	P	Ø	D	P	P	P	0	T	-	8
2022045	GUPTA MOHINI MANHERIORASUMAR	P	A	V	1	5	p	6		10	i i	6	-
2022046	SLAWARE DATESH ATUN	P	P	2	V	5	p	7		8	7	8	5
2032047	NEEWATULLAN SURANA	1	P	2	5	3	5	5	5	6	1	6	2
202204E	INVERTE KASHISH RAJU	A	2	A	5	0	1	5	6	8	8	P	10
2022048	IRGURALA VIDYA CHANDRAIAH	8	1	0	A	0	1	0	8	A	0	0	
2022950	TAZEWAL KASHERY MANOL	0	0	1	-	1	P	0	5	2	5	6	1
3032951	JARSWAL SAUCINE SATISH	17	1	1	1	0	1	0	5	1	1	P	2
2013083	JOGANI ISHA SURAL	1	P	10	2	5	A	D	A	2	P	6	
3033058	JUNGHARE SANCHET SHESHRAD	11	P	P	3	2	*	6	P	P	1	5	
2011054	KADO UNNATI UMESH	1	P	P	8	0	1	6	2	1	D.	Ø	
2002055	KALAMBE SHREYA GUNWANT	10	1	1		A	1	1	3	2	A	6	2
2022056	RALE AVIANI PRENIDAS	P	P	P	1	1	PI	0	A	1	4	P	2
2022957	KAMDAR MARKED	1	7	8	1	2	p	P	P	7	p	0	-
2022558	KAROIIVA PINUSH RAJESH	8	P	1	1	1	D.	P	D	2	8	10	2
2023559	RASERAR ERTA SANIAY	1000	P	F	A	3	P	P	P	2	81	0	2
2012068	RHADSE CHETANA MORESHWAR	P	1	P	V	2	1	1	P	1	0	P	1
2022061	ULAR HERVEST RAIL	4	1	P	1	8	1	P	2	#	pt	6	8
2013567	LEMHANDE KAMISH DUHAS	P	1	P	P	17	11	1	'b	2	0	0	10
2033063	LORNANDE VASH ORIFRAGASH	9	1	P	3	2	8	9	p	1	p 1	D	8
2022064	LUTE SUMANI RAMESHWAR	17	P	P	9	P	P.	b	1	10	p	p	P
3022965	MENDWADE ACHWARTA PRAEASH	P	10	p	10	2	15	D	P	A	D	0	p

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Action Taken and Feedback On Certificate Course - Integrating Excel into Chemical Analysis

The course was conducted from January 6, 2023, to March 11, 2023, with lectures held every Thursday, Friday, and Saturday. The final examination was held on March 16, 2023, in Room C10 at 3:00 PM. Dr. Sarang Dhote coordinated the course, which took place in the Chemistry Department. Out of 92 admitted students, 88 successfully completed the course.

Action Taken

The "Integrating Excel into Chemical Analysis" course provided participants with essential Excel skills tailored for chemical data analysis. The high completion rate reflects the course's effectiveness in equipping students with valuable analytical tools applicable in their professional and academic endeavors.

Feedback













Sample Question Paper

Shri Shivaji Education Society Amravati's

Science College, Nagpur

CERTIFICATE COURSE - INTEGRATING EXCEL INTO CHEMICAL ANALYSIS

THEORY EXAM

Max. Marks - 50	Marks Obtained -

Roll No.	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
- B. 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
- B. Using the Data Validation tool
- C. Using the Remove Duplicates feature

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

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
- 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. 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

Cortificate	Shri Shivaji Education Society Am Science College, Nagpur Department of Chemistry	ravati's	
Roll. No.	Exam Attandence 16/03/202 Name of Students	Sign	Sign of Invigilator
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2022009	BAGHEL SONAM SANTOSHKUMAR	Sonam	T
2022010	BAGHEL UMAKANTI JAGMOHAN	ABSENT	2º
2022011	BAIG TASMIYA HAMID	Tasmille	- P
2022012	BARSAGADE KALASH SUDHAKAR	Buzsadecle	17.
2022013	BAWANKULE LAXMI DEVIDAS	James 7	· laking
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LULEVEN	THE OWNER CARINA WAMANRAO	Gr. Charbe	up or

2022024	DALAL YASHREE RAJENDRA	ABSENT	S
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022033	DHOK SOKSHAM NISHANT	SOKSTER	S.
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022038	GAJBHIYE SWEJAL PRASHANT	S.P. Gaibhiye	. D
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2022046	HAWARE JAYESH ATUN	Jayesh	ð.
2022047	HEDYATULLAH SUHANA	Suhama	D.
2022048	INWATE KASHISH RAJU	K.RITOLLOU	D
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2022050	JAISWAL KASHISH MANOJ	Vor.	Kohisto
2022051	JAISWAL SALONI SATISH	Saland	S

2022052	JOGANI ISHA SURAJ	Tather	S
2022053	JUNGHARE SANCHIT SHESHRAO	Tenan	8
2022054	KADU UNNATI UMESH	Unnati	5
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2022056	KALE AVANI PREMDAS	Kale	
2022057	KAMDAR SURBHI	Kampel	5
2022058	KANOJIYA PIYUSH RAJESH	ABSENT	B
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2022060	KHADSE CHETANA MORESHWAR	Randalas	S
2022061	KHARBIKAR DEVESH RAJU	Lans	ST
2022062	LOKHANDE KASHISH SUHAS	Lokhanse.	8
2022063	LOKHANDE YASH OMPRAKASH	Takmon	8
2022064	LUTE SUHANI RAMESHWAR	Sille	S
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022066	MOHANE SRUSHTI MANOJ	Seletti	8
2022067	NAMDEO ARYAN UMASHANKAR	terret	S.
2022058	NAYAK MAHEK GHANSHYAM	Nortelle.	S
2022069	PAIGAMI MANISH RAJENDRA	Gay	8
2022070	PAIGANI MEETALI RAJENDRA	me	S
2022071	PAL VAISHNAVI VINOD	man	B
2022072	PATIL ANSHUL RAVINDRA	burt	D
2022073	PATIL GRISHMA JAYPAL	Germany	D
2022074	PRASAD SONAM RAMNATH	Sonam	D
2022075	RALBANDIWAR UMARANI SANJAY	Umarem	D
2022076	SAHU APURVA TAPAN	AP	8
2022077	SAPATE PORNIMA PRABHU	PSapate	8
022078	SHAIKH ZOYA MOHAMMAD	ZOYAS	8
022079	SHRIVASTAV ANUJKUMAR	Grade	5

2022080	SINGH MUSKAN KUNDAN KUMAR	Mising 8
2022081	SONTAKKE RAJVEE SAROJ	R'Sompartie &
2022082	THAKUR SHRUSHTI DEEPAKSINGH	Phendren 8
2022083	TRIVENI ANJALI DEVISHANKAR	Thisen's
2022084	UPARKAR JUEE VILAS	Toes &
2022085	VARMA RIYA JITENDRA	P. Varamy SS-
2022086	VYAS HIMANSHU MUKESH	De B
2022087	WAHANE NIKITA VINOD	Nikitu S.
2022088	WAHANE PREMANSHU ANIL	wayno &
2022089	WAHANE TEJASVI PRAVIN	Tojasti 2
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2022091	WANKHEDE JUHI MANOJ	J. Wanerking
2022092	WASNIK RUTIKA VINAYAK	Rulika 3

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

One Solved Question Paper

	RASHTRASANT TUKADO IN (SSES SCIENCE COL	JI MAHARAJ, NAGPUR UNIVERSITY, NAGPUR COLLABORATION WITH LLEGE, CONGRESS NAGAR, NAGPUR-12
	CERTIFICATE COURSE - INT	FEGRATING EXCEL INTO CHEMICAL ANALYSE THEORY EXAM
	Max. Marks - 50	Marks Obtained - 34
	Roll No. 2022019	Sign of Invigilator
	Note - Each Question Carry 2 Ma	arks. All Questions Are Campulsory
	A. Data Validation	
	C. Excel Interface Customization D. PivotTable 2. What is the primary purpose of A. To create charts	of using formulas in Excel?
2	C. Excel Interface Customization D. PivotTable 2. What is the primary purpose of A. To create charts B. To perform calculations	of using formulas in Excel?
2 1	C. Excel Interface Customization D. PivotTable 2. What is the primary purpose of A. To create charts B. To perform calculations C. To filter data	of using formulas in Excel?
2 1	C. Excel Interface Customization D. PivotTable 2. What is the primary purpose of A. To create charts D. To perform calculations C. To filter data D. To sort data	of using formulas in Excel?
2 1	C. Excel Interface Customization D. PivotTable 2. What is the primary purpose of A. To create charts B. To perform calculations C. To filter data D. To sort data 3. Which function is used to only	of using formulas in Excel?
2 1	C. Excel Interface Customization D. PivotTable 2. What is the primary purpose of A. To create charts P. To perform calculations C. To filter data D. To sort data 3. Which function is used to calcul A. SUM	of using formulas in Excel? thate the average of a range of cells in Excel?
1 1	C. Excel Interface Customization D. PivotTable 2. What is the primary purpose of A. To create charts B. To perform calculations C. To filter data D. To sort data 3. Which function is used to calcu A. SUM B. AVERAGE	of using formulas in Excel? date the average of a range of cells in Excel?
1 1 1	C. Excel Interface Customization D. PivotTable 2. What is the primary purpose of A. To create charts B. To perform calculations C. To filter data D. To sort data 3. Which function is used to calcul A. SUM B. AVERAGE C. MEDIAN	of using formulas in Excel? date the average of a range of cells in Excel?
	C. Excel Interface Customization D. PivotTable 2. What is the primary purpose of A. To create charts P. To perform calculations C. To filter data D. To sort data 3. Which function is used to calcul A. SUM P. AVERAGE C. MEDIAN D. MODE	of using formulas in Excel? date the average of a range of cells in Excel?

B. Using the Data Validation tool

-C. Using the Remove Duplicates feature

- 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

Solver V

- 7. Which function checks if all conditions in a statement are TRUE?
- A.IF
- B. AND X
- KOR
 - 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
- 1 10. Which tool is used to summarize data in Excel?
 - A. Chart Wizard

B. Solver

C. PivotTable

D. Data Validation

1. 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

B. 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 K

16. Which statistical method is used for analyzing 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

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

K. 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.

	Department of Ch	emistry			
Cert	ificate Course - Integrating Exc	el into Cher	mical Analy	sis	
	Theory Exam Ma	arklist			
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	
2022005	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	0	
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	8HAISARE 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	At	
2022019	BISEN MINAL SHANKAR	34	68	B+	
2022020	BORSE PRANALI ANIL	48	96	At	
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	8+	
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	8+	
2022032	DHENGRE PRANJAL NARESH	34	68	8*	
2022033	DHOK SOKSHAM NISHANT	46	92	A+	
2022034	DHOLE MANJIRI ANIL	32	64	8+	
2022035	DHURVE PRANJALI KAMALDEV	46	92	A+	
2022036	FULKUWAR PRIVA SANTOSH	34	68	B+	
2022037	FULZELE SUHANI SAHADEO	30	60	B	1
2022038	GAJBHIYE SWEJAL PRASHANT	40	80	A	62
2022039	GAJBHIYE VASUDHA VUAY	34	68	B+	1 mart

1012041	GHADGE SIDDHANT BANKUN			
2022042	GHAYWAT YASHASHARE CANNON		Absent	
2022043	GHORE VANUSHKA VINCO	38	76	A
2022044	GONNADE MADHUBIAAA EMAN CEL	32	64	8+
2022045	GUPTA MOHINI MAHENDRAM	32	64	8+
2022046	HAWARE INVESTIGATION	40	80	A
2022047	HEDVATINIAN STRATUN	- 44	88	At
2022048	INWATE KASHISH BANK	38	76	A
2022049	IRGURALA VIDVA CHANDOALAN	46	92	A+
2022050	IAISWAL KACKIEL ANDRAIAH	38	76	A
2022051	IAISMAL CALONI CARGO	40	80	A
2022052	IOCANI SALONI SATISH	32	64	B+
2022053	IUMESIADE PANE	36	72	A
2022054	TONOMARE SANCHIT SHESHRAO	48	96	A+
2022054	KADU UNNATI UMESH	36	72	A
2023056	MUNITE SHREYA GUNWANT	46	92	A+
2022056	KALL AVANI PREMIDAS	42	84	A+
2022055	KAMDAR SURBHI	40	80	A
3033050	KANOJIYA PIYUSH RAJESH		Absent	
1022059	KASEKAR EKTA SANJAY	48	96	A+
2022060	KHADSE CHETANA MORESHWAR	48	96	A+
2022051	KHARBIKAR DEVESH RAJU	38	76	A
2022062	LOKHANDE KASHISH SUHAS	32	64	B+
2022065	LOKHANDE YASH OMPRAKASH	46	92	A+
2022064	LUTE SUHANI RAMESHWAR	46	92	A+
2022005	MENDWADE AISHWARYA PRAKASH	34	68	8+
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	B+
2022070	PAIGANI MEETALI RAIENDRA	40	80	A
2022071	PAL VAISHNAVI VINOD	48	95	A+
1022072	PATIL ANSHUL RAVINDRA	34	68	B+
022073	PATIL GRISHMA JAYPAL	38	76	A
2022074	PRASAD SONAM RAMNATH	40	80	A
022075	RALBANDIWAR UMARANI SANJAY	40	80	A
022076	SAHU APURYA TAPAN	30	60	B
022077	SAPATE PORNIMA PRABHU	48	96	A+.
022078	SHAIKH ZOYA MOHAMMAD	36	\overline{n}	A
022079	SHRIVASTAV ANUJKUMAR	46	92	At
022080	SINGH MUSKAN KUNDAN KUMAR	44	88	A+
022081	SONTAKKE RAJVEE SAROJ	34	68	8+
022082	THAKUR SHRUSHTI DEEPAKSINGH	-44	88	A+
022083	TRIVENI ANJALI DEVISHANKAR	36	72	A
022084	UPARKAR JUEE VILAS	36	72	A
022085	VARMA RIVA JITENDRA	38	76	A
022086	VYAS HIMANSHU MUKESH	32	64	B+
022087	WAHANE NIKITA VINOD	44	88	At
022088	WAHANE PREMANSHU ANIL	48	96	- A+
022089	WAHANE TELASVI PRAVIN	30	60	В
022090	WALDE DURGA RAJU	36	72	An

2022091	WANKHEDE JUHI MANOJ	46	92	A+
2022092	WASNIK RUTIKA VINAYAK	38	76	A
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	CERTIFI	CATE
W/.Ku. <u>Chefona</u> entitled, Certificate o Session 2022-23 un Chemistry, SSESA's, He/She has pa	Mosthwal Khade is awarded w course in "Integrating Excel into Chemical nder Add-on course conducted for 30 f Science College, congress Nagar, Nagpur assed the Examination with 'A [®] Grade.	th certificate on successful completion of the course Analysis". nours from 06/01/2023 to 11/03/2023 by Department of 440012.
_6	1/	Prof. M. P. Dhore