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







Congress Nagar, Nagpur - 440012 Accredited with a CGPA of 3.51 with 'A+' grade by NAAC Bengaluru, A College with Potential for Excellence, Member of APGN Recognized Center for Higher Learning A Mentor College Under the UGC Paramarsh Scheme

Chemistry Department

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: 30 Hrs
- .
- Course Start Date: 18/08/2022 .
- Application Deadline: 15/08/2022

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 - 01/08/2022

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

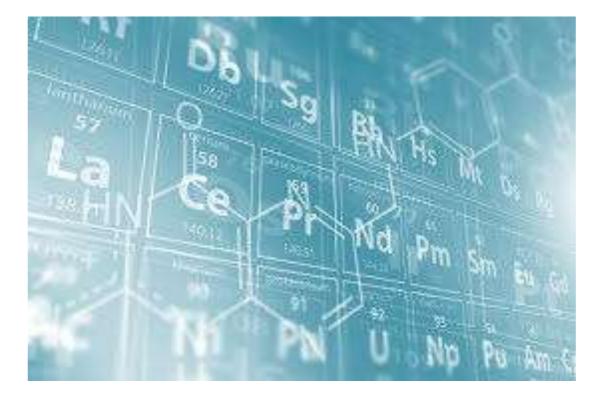


Shri Shivaji Education Society Amravati's

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	Excet into Chemical Analysis				
CHEMICAL ANALYSIS				00	-
		Grand	l 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.

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

	Teaching Plan for Certificate Course	Unit
Actual Date		Unit 1
18/08/2022	Excel Interface and Basic Functionalities	Unit 1
19/08/2022	Data Entry and Management	Unit 1
2010812022	Data Cleaning Techniques	Unit 1
25 08 2022	Basic Data Analysis	Unit 2
26/08/2021	Conditional Formatting	Unit 2
27 08 2022	Advanced Formulas and Functions	Unit 2
01 09/2022	Advanced Formulas and Functions (Continued)	Unit 2
02/08/2022	Data Sorting and Filtering	Unit 2
03/04/2021	Data Sorting and Filtering (Continued)	
08/09/2022	Data Validation and Error Checking	Unit 2
09/09/2022	Creating Charts and Graphs	Unit 3
10 09 2022	Creating Charts and Graphs (Continued)	Unit 3
15/00/2022	Customizing Charts	Unit 3
16/09/2022	PivotTables and PivotCharts	Unit 3
7 04 2022	PivotTables and PivotCharts (Continued)	Unit 3
22/00/2022	Advanced Charting Techniques	Unit 3
23 09/2022	Chemical Data Analysis Case Studies	Unit 4
25/09/2022	Regression Analysis and Curve Fitting	Unit 4
23 13912022	Simulating Chemical Processes	Unit 4
30/09/2022	Report Generation and Presentation	Unit 4
01/01 2022	Data Entry and Organization	Practica
02/01/2022	Applying Advanced Formulas	Practica
AE 10112022	Creating Dynamic Charts and Graphs	Practica
07 11/ 2022	Performing Regression Analysis	Practica
18/401 2022	Review and Q&A Session	Review
13/10/2022	Hands-on Practice and Assignment Discussion	Practica
14/10/2022	Hands-on Practice and Assignment Discussion (Continued)	Practica
15/10/2022	Final Revision and Exam Preparation	Review
18/10/2022	Mock Exam and Feedback	Review
19/10/2022	Course Wrap-up and Final Instructions	Wrap-u

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

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Course Courdinator S.S.E.S.A.'s Science College Napour

List of Admitted Students

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	Roll. No.	Name of Students	Sign	
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	2022003	ATILKAR PRANAY DNANESWHAR	PRun	
	2022004	BAGDE YASHIKA PRAMOD	Ybalte.	
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	2022006	BARDE VISHA PRAKASH	Win.	
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	2022018	CHIKHALKAR HARSHADA WASUDEV	chefore	
	202201	DALVI CHETNA KAILAS	Rivie.	
	202202	DHOBE RIYA BATISH	presentation	
	202202	OHORE PARISA PRAMOD	Mechan	
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2022025	GUJWAR KHUSHBU PURANSINGH	Brigwar
2022026	HAKIM SHAFIN RAFIYODDIN	Shelim
2022027	HIWARKAR RAUNAK KRISHNA	Rylazitor
2022028	INGOLE NIKITA BANDU	N.Ingole
2022029	ISHWARKAR KANIKA YOGRAJ	Bennesks
2022030	JAITWAR KAJAL RATANLAL	K. Jaltury
2022031	JAMBHULKAR KALSHIKA SUDESH	Jacon
2022032	JIWANE GRECY CHANDU	Titlen
2022033	JOSHI ARYAN SHRIPAD	Joshis
2022034	KADAMDHAD MAYUR YOGESHWAR	Kalandhal
2022035	KALAMKAR SHRAVANI MADHUKAR	Katonton
2022036	KALE GAURI ATUL	"Gn Karle
2022037	KAMBE ARPIT AVINASH	Akembe
2022038	KAMBLE KOMAL SANJAY	K. Kemple
2022039	KELAPURE SAI PRIYA RAMCHANDRA	Kelapure
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2022042	KULTHE SNEHA PAWAN	Snehas
2022043	KUTHE HEMAKSHI MAHESHKUMAR	Hemokshi
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2022059	PAUL TANUSHREE KUMARESH	(King)
2022060	PAWADE PRADNYA PURUSHOTTAM	Right
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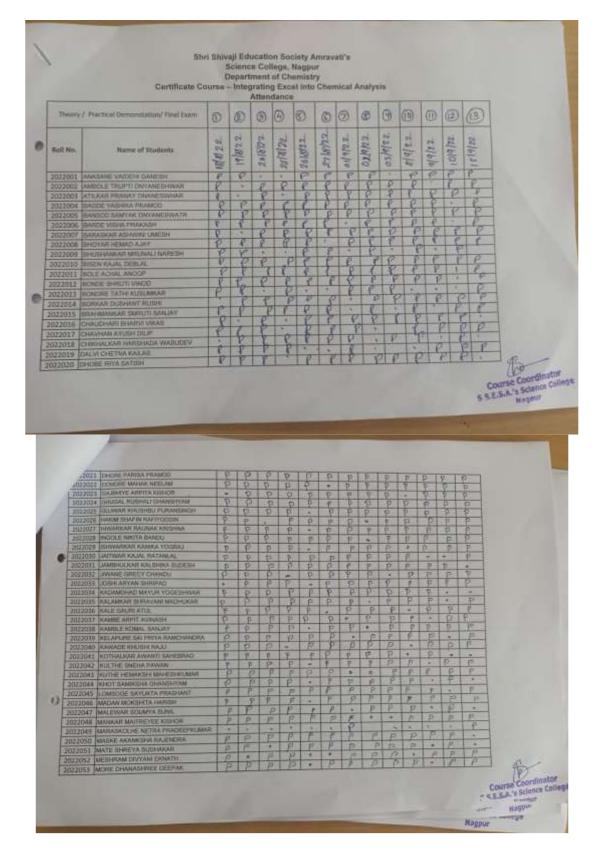
Course Coordinator

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2022082	GAWANDE NIDHI NARENDRA	Nidhi Nounde
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2022084	KUMBHARE VIVEK BALKRUSHNA	Vivel Kanbhere
2022085	LONARKAR NANHAVI PRAMOD	Monatka

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

Attendance



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	2022003	ATILKAR PHANAY DNANESWHAR	P	P	1	T.	P	0	5.	P	D		1 m	P	p.
	2022004	BAGDE YASHIKA PRAMOD	9	C	0	P	P	+	P	P	10	P	0	10	TP-
	2022005	BANSOD SAMVAK DNYANESWATR	100	p	P	P	13	10	P	1.	0	6	6	p	10
	2022006	BARDE VISHA PRAKASH	P	.9	E	P	0	P	p	p		-	P	p	P
	2022007	BARASKAR ASHWINI UMESH	9	0	P	P	-	p.	1	D	10	p	1		P
	2022008	BHOYAR HEMAD AJAY	P	p	9	P	P	p			0	TP	D.	0	P
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	2022012	BONDE SHRUTI VINOD	P	p	C.P.C	0por	P	p	P	p	P	p			P
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E	2022017	CHAVHAN AYUSH DILIP	P	1	P	P	P	P	9	P	P	P	P	P	P
T	2022018	CHIKHALKAR HARSHADA WASUDEV	P	P.	p	P	0	9	P	P		p	p	P	P
E	2022019	DALVI CHETNA KAILAS	1.000	P	P	P	P	2	P.	P	P	P	P	P	18
T	2022020	DHOBE RIYA SATISH	12	P	P	P	P	R		P	P	P	P	P	P

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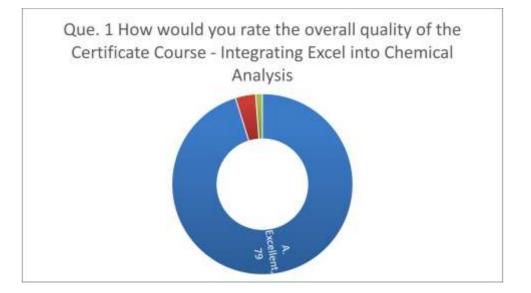
Action Taken and Feedback On Certificate Course - Integrating Excel into Chemical Analysis

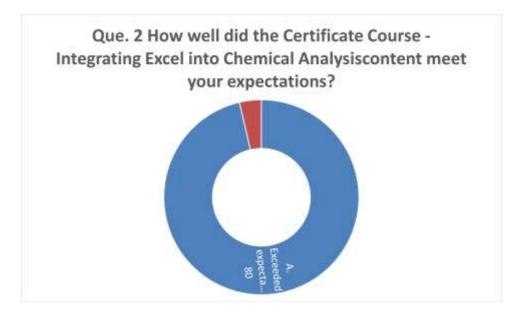
The course was conducted from 18/08/2022 to 19/10/2022, with lectures held every Thursday, Friday, and Saturday. The final examination was held on 22/10/2022, in Room C10 at 3:00 PM. Dr. Sarang Dhote coordinated the course, which took place in the Chemistry Department. Out of 85 admitted students, 83 successfully completed the course.

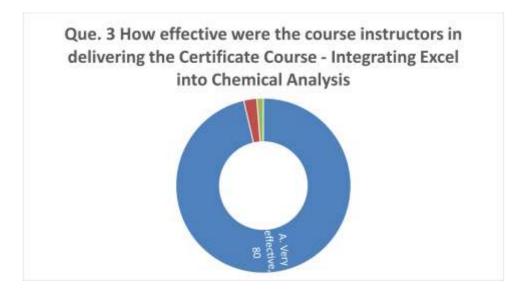
Action Taken

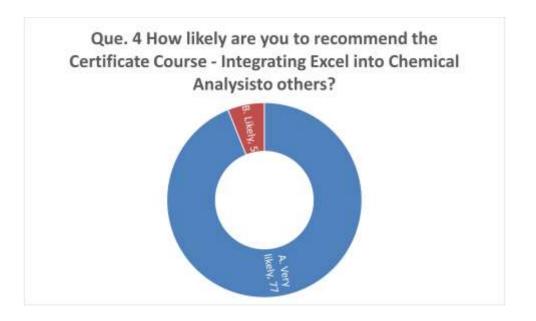
The "Integrating Excel into Chemical Analysis" course provided participants with essential Excel skills tailored for chemical data analysis. The high completion rate reflects the course's effectiveness in equipping students with valuable analytical tools applicable in their professional and academic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

Feedback













Shri Shivaji Education Society Amaravti's Science College



Congress Nagar, Nagpur - 440012 Accredited with a CGPA of 3.51 with 'A+' grade by NAAC Bengaluru, A College with Potential for Excellence, Member of APQN Recognized Center for Higher Learning A Mentor College Under the UGC Paramarsh Scheme

Chemistry Department

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: 22/10/2022
- 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.

Ant

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

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 -

	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

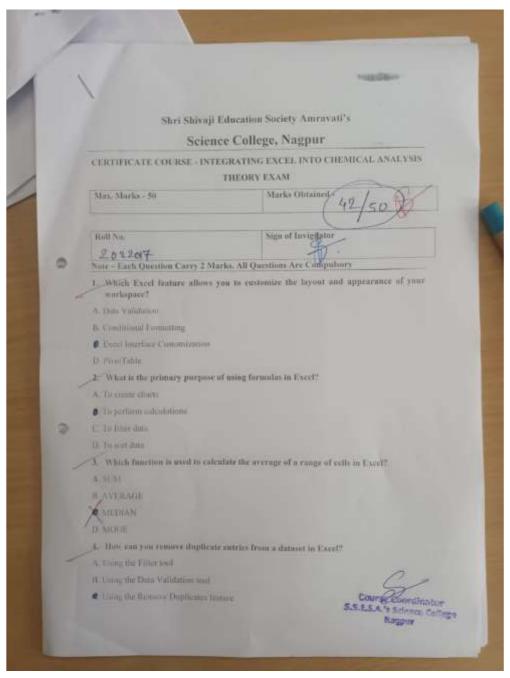
25. Which Excel feature allows you to simulate and analyze complex chemical reactions?

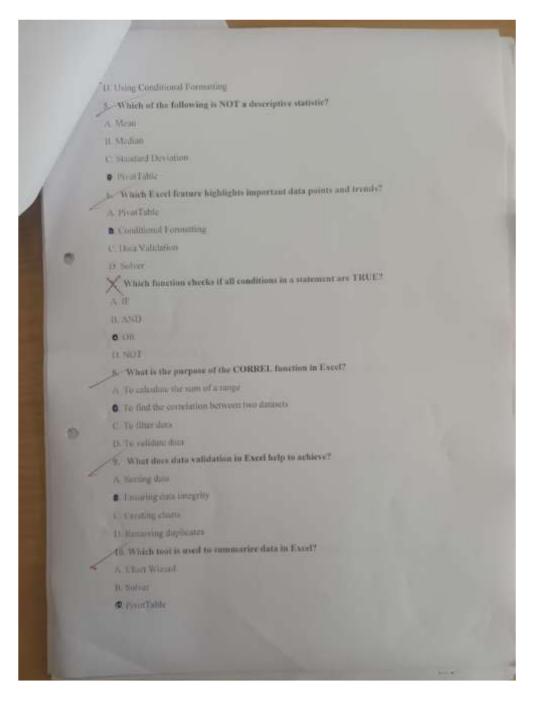
- A. PivotTable
- B. Conditional Formatting
- C. Solver
- D. Chart Wizard

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

One Solved Question Paper





	A Data Validation	
	It Which chart type is most suitable for showing trends over time?	
	A Pie Chart	
	0 Lour Chart	
	C Bir Chart	
	D. Scatter Plot	
	12. What is the purpose of adding error bars to a chart in Excel?	
5	A. To highlight data points	
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	C. To create a legend	
	D. To filter data	
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	B. Coming dynamic visualizations	
	Highlighting data trends	
	D. Validating data entries	
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	B. Filtering	
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	o conditional Formatting
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	Reguession Analysis
	C. Data Validation
	D Charting
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	C. Conditional Formatting
0	D Data Validation
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	C. It offers visualization options
	D. All of the above
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	Solor
	B. ProveTable
~	C. Chart Wirned
	B. Data Validation
	21. What is the first step in preparing a dataset for analysis in Excel?
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	C. Removing regression analysis
	D. Applying conditional formatting
	22/Which Easel function can be used to calculate the correlation between two chemical variables?
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	C AVELAGE

23, which of the following is used to create dynamic and interactive data summaries?

- Scattler Plot
- B. Passa Lable
- C Line Char

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- D Histohan
- Anywer B

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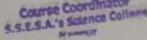
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24: Time can Excel help in chemical data visualization?

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

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

- A ProoTable
- It. Completional Ferritationg
- 2 Solver
- Clart Wizard.



Mark list of Exam With Grade.

	Science College Department of C			
Cert	tificate Course - Integrating Ex	Contraction of the second second	mical Analy	sis
_	Theory Exam M			
		Thursday		
Roll No.	Name of Students	Theory Marks (Out of 50)	Percentage	Grade
2022001	ANASANE VAIDEHI GANESH	42	84	A+
2022002	AMBOLE TRUPTI DNYANESHWAR	46	92	A+
2022003	and the second se	34	-68	B+
2022004	BAGDE YASHIKA PRAMOD	48	96	A+
2022005	A second sector of constraints and an experimental sector of the sector	40	80	A
2022006	and the second se	34	68	B+
2022007	BARASKAR ASHWINI UMESH	48	96	A+
2022008	BHOYAR HEMAD AJAY	34	68	B+
2022009	the second se	48	96	A+
	BISEN KAJAL DEBLAL	34	68	B+
2022011	BOLE ACHAL ANOOP	32	64	B+
2022012	BONDE SHRUTI VINOD	32	64	B+
2022013	BONDRE TATHI KUSUMKAR	34	68	B+
2022014	BORKAR DUSHANT RUSHI	32	64	8+
	BRAHMANKAR SMRUTI SANJAY	42	84	A+
	CHAUDHARI BHARVI VIKAS	40	92	A+
	CHAVHAN AYUSH DILIP	42	84	A+
	CHIKHALKAR HARSHADA WASUDEV	46	92	A+
of the local division of the local divisiono	DALVI CHETNA KAILAS	34	68	B+
Contraction of the local	DHOBE RIYA SATISH	48	96	A+
2022021	DHORE PARISA PRAMOD	34	68	B+
2022022	DONGRE MAHAK NEELAM	48	96	A+
And the owner of the owner of the	GAJEHIYE ARPITA KISHOR	34	68	8+
the state of the s	GHUGAL RUSHALI GHANSHYAM	34	68	8+
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Contraction of the local division of	HAKIM SHAFIN RAFIYODDIN	54	68	8+
	HIWARKAR RAUNAK KRISHNA	24	68	B+
	INGOLE NIKITA BANDU	46	92	A+.
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and the second se	JIWANE GRECY CHANDU	30	60	Б
	JOSHI ARYAN SHRIPAD	46	92	A+
	KADAMDHAD MAYUR YOGESHWAR	32	64	B+
022035	KALAMKAR SHRAVANI MADHUKAR	46	92	A+
and the second se	KALE GAURI ATUL	38	76	A
the second s	KAMBE ARPIT AVINASH	40	80	A
022038	KAMBLE KOMAL SANJAY	32	54	8+
022039	KELAPURE SAI PRIYA RAMCHANDRA	36	72	A
022040	KAWADE KHUSHI RAJU	48	96	A+
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022042	CONTRACTA PAWAN	38	76	A
2022043	MAHESHKUMAR	3.0	64	8+
2022044	KHOT SAMIKSHA GHANSHYAM	32	64	B+
2022045	LOMSOGE SAYUKTA PRASHANT	40	80	A
2022046	MADAN MOKSHITA HARISH	44	88	A+
2022047	MALEWAR SOUMYA SUNIL	38	76	A
2022048	MANKAR MAITREYEE KISHOR	46	92	A+
022049	MARASKOLHE NETRA PRADEEPKUMAR		Absent	1
022050	MASKE AKANKSHA RAJENDRA	48	96	A+
022051		38	76	A
022052	MESHRAM DIVYANI EKNATH	32	64	B+
022053		46	92	A+
2022054	NAIKWADE AASAWARI PRABHANJAN	46	92	A+
2022055		34	68	8+
2022056	and the second se	42	84	A+
2022057	PANDEY VISHAKHA SURENDRA	40	80	A
2022058	and the second	41	80	A
2022059		48	96	A+
2022060	PAWADE PRADNYA PURUSHOTTAM	48	96	A+
2022061	POUNIKAR SAKSHI ROSHAN	38	76	A
2022062	RAKSHAK YUGANT LAXMAN	32	64	8+
2022063	RAMTEKE ISHITA CHANDRASHEKHAR	45	92	A+
2022064	RAUT NEHA BABURAO	45	92	A+
2022065	RAUT SANIKA DILIP	34	68	8+
2022066	RAUT SALONI GIRISH		Absent	
2022067	ROHANKAR RIYA MUKESH	32	64	8+
2022068	ANDRASKAR AARTI LAXMAN	40	80	A
2022069	BAGHEL AARTI OMSHAKAR	34	68	8+
2022070	BOMBARDE SHREYAL VIJAY	36	72	A
022071	BHONGDE KUNALI SATISH	46	92	A+
022072	CHOUDHARI NANDINI DINKAR	44	88	A+
022073	DHARMIK DEVASHREE BHAURAO	34	6.8	8+
022074	DHOKE SANJANA ANKUSH	44	88	A+
022075	DHUDSE ADITYA RITESH	36	72	A
022076	RAUT MOHINI MANOHAR	36	72	A
022077	SAWARKAR SWAYAM KISHOR	38	76	A
022078	UIKEY KRITIKA YOGESH	44	88	A+
022079	WAHALE PRESHIT RAJESH	48	96	A+
022080	WANKHEDE SNEHAL SANJAY	30	60	8
022081	WANKAR NANDINI LAXMAN	36	72	A
022082	GAWANDE NIDHI NARENDRA	46	92	A+
022083	KAMBLE BAYALI CHANDRAPAL	38	76	A
022084	KUMBHARE VIVEK BALKRUSHNA	26:	72	A
022085	LONARKAR NANHAVI PRAMOD	38	76	A

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

