

B. L. D. E Association's
S. B. Arts and K. C. P. Science College,
Vijayapur



Department of PG Studies in Chemistry

**SKILL BASED VALUE ADDED COURSE
FOR
PG STUDENTS OF CHEMISTRY
(For the Academic Year 2022-23)**

**Course Name: "Training on Principles and
Handling of Major Instruments"**

(Course Code: SBKCP/PGCHEM-01)

REPORT

SYLLABUS

Course Name: "Training on Principles and Handling of Major Instruments"

Course Code: SBKCP/PGCHEM-01

Total Duration of Teaching: 30 Hours

Course Contents:

I. OBJECTIVE

II. SCOPE

III. SYLLABUS

IV. DURATION OF THE COURSE

V. EXAMINATION PATTERN

VI. REFERENCES

I. OBJECTIVE:

The main objective is make students employees of the university and affiliated colleges to understand the basic principles and handling of some major instruments found in the chemistry laboratory. Handling of these instruments will help the students to carry out some of the important projects during their M.Sc course. It will also help the students to join industries, once they complete their M.Sc programme.

II. SCOPE:

Students, teachers and employees of the affiliated colleges and university who are interested in this course will be benefitted. The course will be initially, would be offered in the university and affiliated colleges.

III. SYLLABUS:

1. Basic principle and application of Rotary Evaporator. 5 hrs
Principle, Instrument parts and their functions-chiller, vacuum pump, condenser, water bath. Uses of the instrument for synthetic chemists and its advantages over other conventional techniques.
2. Principle and use of UV-VIS Spectrophotometer. 5 hrs
Principle, fundamentals of UV-VIS spectroscopy and instrumentation.
3. Handling of FTIR Instrument. 5 hrs
Introduction, instrumentation, identification of various functional groups- alkanes, Alkenes, aromatics, carboxylic acids, carbonyl compounds (aldehydes, ketones and esters).

4. Principle and use of Flame Photometer. 5 hrs
Theory, principle and applications of flame photometer.
5. Use of BOD and COD incubator. 5 hrs
Theory, uses and applications of the COD and BOD incubator.
6. Chromatography techniques like Thin Layer Chromatography and Column Chromatography. 5 hrs
Introduction, principles, stationary and mobile phase systems R_F value calculation, techniques of development, visualization and applications. Selection of column width, length, stationary phase and mobile phase. Separation of various plant pigments and organic compounds.

PRACTICAL:

20 hrs

1. Separation of plant pigments and organic compounds using thin layer chromatography and column chromatography.
2. Recording of IR spectra of some important organic compounds and assigning their characteristics peaks.
3. Recording of UV-VIS spectra of some fluorescent compounds.
4. Determination of BOD and COD of different water samples.
5. Isolation of caffeine from Tea powder.

IV. DURATION OF THE COURSE:

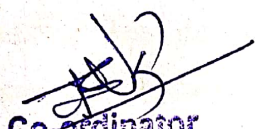
30 days and the course will be conducted on every Sunday.

V. EXAMINATION PATTERN:

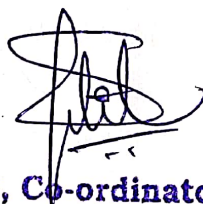
Theory	Practical		Total
Exam Marks	Exam Marks	Viva	
50	40	10	100

VI. REFERENCES:

1. Introduction to chromatography-theory and practice-V.K. Srivastava and K.k. Srivastava, S. Chand Company Ltd., IV Ed (1991).
2. Basic Concepts of analytical chemistry- S.M. Khopkar, New Age International Publishers, II Ed (1998).
3. Analytical Chromatography-G.R. Chatwal, Himalaya Publishing House, VII Ed (1998).
4. Introduction to Spectroscopy. Pavia, Lampman and Kriz, 3rd edition, Thomoson.
5. Spectroscopy, B.P. Straughan and S. Walker, John Wiley & Sons Inc., New York, Vol. 1 & 2, 1976.
6. Vibration Spectroscopy Theory and Applications, D. N. Satyanarayana, New Age International, New Delhi..



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S. B. ARTS AND K. C. P. SCIENCE COLLEGE

Smt. Bangaramma Sajjan Campus, Shri B. M. Patil Road (Solapur Road), Vijayapur-586 103

Accredited with CGPA of 2.99 at 'B+' Grade in 4th Cycle by NAAC
(Affiliated to Rani Channamma University, Belagavi)

Phone: (08352) 262770, Extn. 2223, 2224

Website: www.bldeasbkcp.ac.in E-mail: bldeasbkcp@gmail.com



REF./ ಕ್ರಮಾಂಕ : _____

Date / ದಿನಾಂಕ : 07-Nov-2022

Department of PG Studies in Chemistry
Value Added Course: 2022-2023

NOTICE

The PG Department of Chemistry is conducting value added course on "Training and Handling Major Equipments". All the students are hereby inform to enroll your names in the PG department of chemistry before 15th of November 2022 classes will commence on 20th of November 2022.

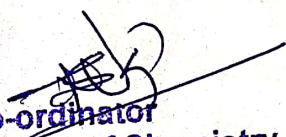

Co-ordinator
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P.G. Dept of Chemistry
Time Table for value added course 2022-23

Time (Theory)	SUNDAY	Remarks
10.00 to 11.00	ABT	
11.00 to 12.00	MHM	
Time (Practical)		
2.00 to 6.00	SDL	Batch-1
	SNU	Batch-2


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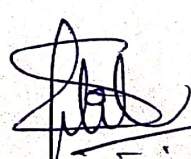
P.G. Dept of Chemistry

List of Students for value added course 2022-23

Sl. No	RCU No.	Name of the Student
01	P15KM21S0001	Apurva L. Mirajkar
02	P15KM21S0002	Divya Sidaraddi
03	P15KM21S0003	Pruthvik Pujari
04	P15KM21S0004	Ashwini Sarawad
05	P15KM21S0005	Daneshwari A Jagadal
06	P15KM21S0006	Soumya Babaleshwar
07	P15KM21S0007	Soumya Kollappanavar
08	P15KM21S0009	Bhagyashree Yadawad
09	P15KM21S0010	Chaitra Aloor
10	P15KM21S0011	Faisheen Jahagirdar
11	P15KM21S0012	Shasankumar R Dixit
12	P15KM21S0013	Suresh Biradar
13	P15KM21S0014	Sourabh Mahadev Kambale
14	P15KM21S0015	Kumbhar Shankar Parashuram
15	P15KM21S0017	Navya Keerthi
16	P15KM21S0024	Pratibha Sadashiv Chougale
17	P15KM21S0025	Rinku Patel
18	P15KM21S0028	Rachana Veeresh Samalad
19	P15KM21S0032	Laxmi Sarvade


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List of Students for value added course 2022-23 (attendance)(Theory)

Name of the Faculty: Dr. Amit Teradale

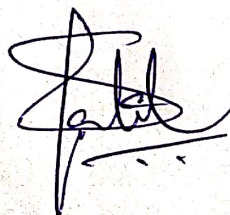
Time: 10.00am to 11.00am

(Extra class)

Sl. No	RCU No.	Name of the Student	20/11/22	04/12/22	11/12/22	25/12/22	08/01/23	15/01/23	22/01/23	29/01/23	05/02/23	12/02/23	19/02/23	26/02/23	26/02/23
01	P15KM21S0001	Apurva Mirajkar	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
02	P15KM21S0002	Divya Sidaraddi	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
03	P15KM21S0003	Pruthvik Pujari	Pruthvik	Pruthvik	Pruthvik	Pruthvik	Pruthvik	Pruthvik	Pruthvik	Pruthvik	Pruthvik	Pruthvik	Pruthvik	Pruthvik	Pruthvik
04	P15KM21S0004	Ashwini Sarawad	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
05	P15KM21S0005	Daneshwari Jagadal	Daneshwari	Daneshwari	Daneshwari	Daneshwari	Daneshwari	Daneshwari	Daneshwari	Daneshwari	Daneshwari	Daneshwari	Daneshwari	Daneshwari	Daneshwari
06	P15KM21S0006	Sounya Babaleshwar	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
07	P15KM21S0007	Sounya Kollappanavar	snk	snk	AB	snk	snk	snk	snk	snk	snk	snk	snk	snk	snk
08	P15KM21S0009	Bhagyashree Yadawad	AB	AB	Bgy	Bgy	Bgy	Bgy	Bgy	Bgy	Bgy	Bgy	Bgy	Bgy	Bgy
09	P15KM21S0010	Chaitra Aloor	chaitra	chaitra	AB	chaitra	chaitra	chaitra	chaitra	chaitra	chaitra	chaitra	chaitra	chaitra	chaitra
10	P15KM21S0011	Faisheen Jahagirdar	Faisheen	Faisheen	Faisheen	Faisheen	AB	Faisheen	Faisheen	Faisheen	Faisheen	Faisheen	Faisheen	Faisheen	Faisheen
11	P15KM21S0012	Shasankumar R Dixit	Shasankumar	Shasankumar	Shasankumar	Shasankumar	Shasankumar	Shasankumar	Shasankumar	Shasankumar	Shasankumar	Shasankumar	Shasankumar	Shasankumar	Shasankumar
12	P15KM21S0013	Suresh Biradar	sb	AB	sb	sb	sb	sb	AB	sb	sb	sb	sb	sb	sb
13	P15KM21S0014	Sourabh Kambale	SK	SK	SK	SK	SK	SK	SK	SK	SK	SK	SK	SK	SK
14	P15KM21S0015	KumbharShankar	SK	SK	AB	SK	SK	SK	SK	SK	SK	SK	SK	SK	SK
15	P15KM21S0017	Navya Keerthi	Navya	Navya	Navya	Navya	Navya	Navya	Navya	Navya	Navya	Navya	Navya	Navya	Navya
16	P15KM21S0024	Pratibha Sadashiv Chougale	Pratibha	Pratibha	Pratibha	Pratibha	Pratibha	Pratibha	Pratibha	Pratibha	Pratibha	Pratibha	Pratibha	Pratibha	Pratibha
17	P15KM21S0025	Rinku Patel	Rinku	Rinku	AB	Rinku	Rinku	Rinku	Rinku	Rinku	Rinku	Rinku	Rinku	Rinku	Rinku
18	P15KM21S0028	Rachana amalad	Rus	Rus	Rus	Rus	Rus	AB	AB	Rus	Rus	Rus	Rus	Rus	Rus
19	P15KM21S0032	Laxmi Sarvade	LS	LS	LS	AB	LS	LS	LS	LS	LS	LS	LS	LS	LS


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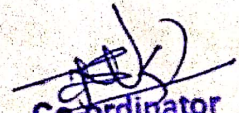
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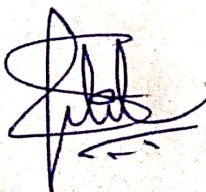
List of Students for value added course 2022-23 (attendance)(Theory)


Name of the Faculty: Dr. Manjunatha H.M.

Time: 11.00am to 12.00pm

Sl. No	RCU No.	Name of the Student	20/11/22	04/12/22	11/12/22	25/12/22	08/01/23	15/01/23	22/01/23	29/01/23	05/02/23	12/02/23	19/02/23	26/02/23
01	P15KM21S0001	Apurva Mirajkar	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
02	P15KM21S0002	Divya Sidaraddi	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
03	P15KM21S0003	Pruthvik Pujari	Pruthi	Pruthi	Pruthi	Pruthi	Pruthi	Pruthi	Pruthi	Pruthi	Pruthi	Pruthi	Pruthi	Pruthi
04	P15KM21S0004	Ashwini Sarawad	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
05	P15KM21S0005	Daneshwari Jagadal	Daneshwar	Daneshwar	Daneshwar	Daneshwar	Daneshwar	Daneshwar	Daneshwar	Daneshwar	Daneshwar	Daneshwar	Daneshwar	Daneshwar
06	P15KM21S0006	Soumya Babaleshwar	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
07	P15KM21S0007	Soumya Kollappanavar	Sub	Sub	Sub	Sub	Sub	Sub	Sub	Sub	Sub	Sub	Sub	Sub
08	P15KM21S0009	Bhagyashree Yadawad	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
09	P15KM21S0010	Chaitra Aloor	Chaitra	Chaitra	Chaitra	Chaitra	Chaitra	Chaitra	Chaitra	Chaitra	Chaitra	Chaitra	Chaitra	Chaitra
10	P15KM21S0011	Faisheen Jahagirdar	Faisheen	Faisheen	Faisheen	Faisheen	Faisheen	Faisheen	Faisheen	Faisheen	Faisheen	Faisheen	Faisheen	Faisheen
11	P15KM21S0012	Shasankumar R Dixit	Shasank	Shasank	Shasank	Shasank	Shasank	Shasank	Shasank	Shasank	Shasank	Shasank	Shasank	Shasank
12	P15KM21S0013	Suresh Biradar	Sub	Sub	Sub	Sub	Sub	Sub	Sub	Sub	Sub	Sub	Sub	Sub
13	P15KM21S0014	Sourabh Kambale	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
14	P15KM21S0015	KumbharShankar	Sub	Sub	Sub	Sub	Sub	Sub	Sub	Sub	Sub	Sub	Sub	Sub
15	P15KM21S0017	Navya Keerthi	Navya	Navya	Navya	Navya	Navya	Navya	Navya	Navya	Navya	Navya	Navya	Navya
16	P15KM21S0024	Pratibha Sadashiv Chougale	Pratibha	Pratibha	Pratibha	Pratibha	Pratibha	Pratibha	Pratibha	Pratibha	Pratibha	Pratibha	Pratibha	Pratibha
17	P15KM21S0025	Rinku Patel	Rinku	Rinku	Rinku	Rinku	Rinku	Rinku	Rinku	Rinku	Rinku	Rinku	Rinku	Rinku
18	P15KM21S0028	Rachana amalad	Rachana	Rachana	Rachana	Rachana	Rachana	Rachana	Rachana	Rachana	Rachana	Rachana	Rachana	Rachana
19	P15KM21S0032	Laxmi Sarvade	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB


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List of Students for value added course 2022-23 (attendance)(Practical)

Batch-01 Time: 2.00pm to 6.00pm


Name of the Faculty: Dr. S.D. Lamani

Sl. No	RCU No.	Name of the Student	11/12/22	25/12/22	05/01/23	15/01/23	22/01/23	29/01/23	05/02/23
01	P15KM21S0001	Apurva Mirajkar	AB	AB	AB	AB	AB	AB	AB
02	P15KM21S0002	Divya Sidaraddi	AB	AB	AB	AB	AB	AB	AB
03	P15KM21S0003	Pruthvik Pujari	Pruthvik	Pruthvik	Pruthvik	Pruthvik	Pruthvik	Pruthvik	Pruthvik
04	P15KM21S0004	Ashwini Sarawad	AB	AB	AB	AB	AB	AB	AB
05	P15KM21S0005	Daneshwari Jagadal	Daneshwari	Daneshwari	Daneshwari	Daneshwari	Daneshwari	Daneshwari	Daneshwari
06	P15KM21S0006	Soumya Babaleshwar	B	B	B	B	B	B	B
07	P15KM21S0007	Soumya Kollappanavar	AB	AB	AB	AB	AB	AB	AB
08	P15KM21S0009	Bhagyashree Yadawad	Bgy	Bgy	Bgy	Bgy	Bgy	Bgy	Bgy
09	P15KM21S0010	Chaitra Aloor	AB	AB	AB	AB	AB	AB	AB
10	P15KM21S0011	Faisheen Jahagirdar	AB	AB	AB	AB	AB	AB	AB

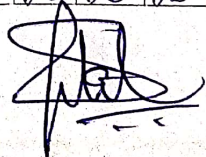
Batch-02 Time: 2.00pm to 6.00pm

Name of the Faculty: Dr. S.N. Unki

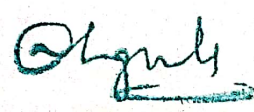
1	P15KM21S0012	Shasankumar R Dixit	AB	AB	AB	AB	AB	AB	AB
2	P15KM21S0013	Suresh Biradar	sub	sub	sub	sub	sub	sub	sub
3	P15KM21S0014	Sourabh Kambale	AB	AB	AB	AB	AB	AB	AB
4	P15KM21S0015	KumbharShankar	AB	AB	AB	AB	AB	AB	AB
5	P15KM21S0017	Navya Keerthi	Navya	Navya	Navya	Navya	Navya	Navya	Navya
6	P15KM21S0024	Pratibha Sadashiv Chougale	Pratibha	Pratibha	Pratibha	Pratibha	Pratibha	Pratibha	Pratibha
7	P15KM21S0025	Rinku Patel	AB	AB	AB	AB	AB	AB	AB
8	P15KM21S0028	Rachana amalad	Rus	Rus	Rus	Rus	Rus	Rus	Rus
9	P15KM21S0032	Laxmi Sarvade	AB	AB	AB	AB	AB	AB	AB


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P.G. Dept of Chemistry
Notice for value added course 2022-23


Date: 01/03/23

NOTICE

The PG Department of Chemistry is conducting exam (Theory and Practical) for value added course "Training on Principles and Handling of Major Instruments" On 05th March 2023, Time 9.00am to 11.00am (Theory Exam) and on 12th March 2023 (Practical Exam) Time 2.00pm to 6.00pm. All the students are hereby informed to attend the exam.


Coordinator
01/03/23
P.G. Department of Chemistry
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Theory Test for value added course 2022-23

Date: 05-03-2023

Time: 9.00 to 11.00

Duration: 2 hrs


I. Answer any FIVE of the following questions. 10×5=50 Marks

1. Briefly explain the principle of FTIR.
2. Write a short note on vacuum pump, condenser and water bath.
3. Briefly explain the principle of column chromatography.
4. Discuss the principle of rotary evaporator.
5. Discuss the principle and uses of UV-VIS spectrophotometry.
6. Briefly discuss on mobile phase and stationary phase.
7. Explain the dynamics of chromatography.



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Practical Test for value added course 2022-23

Date: 12-03-2023

Time: 2.00 to 6.00

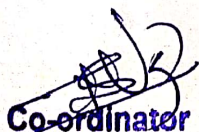
Duration: 4 hrs

1. Record the IR and UV-Vis spectra for the given compound.

40 Marks

Viva: 10 Marks

Total=50 Marks



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Theory Test for value added course 2022-23 (attendance)

Date: 05-03-2023

Time: 9.00 to 11.00

Duration: 2 hrs

Sl. No	RCU No.	Name of the Student	Signature
01	P15KM21S0001	Apurva L Mirajkar	
02	P15KM21S0002	Divya Sidaraddi	
03	P15KM21S0003	Pruthvik Pujari	
04	P15KM21S0004	Ashwini Sarawad	
05	P15KM21S0005	Daneshwari A Jagadal	
06	P15KM21S0006	Soumya Babaleshwar	
07	P15KM21S0007	Soumya Kollappanavar	
08	P15KM21S0009	Bhagyashree Yadawad	
09	P15KM21S0010	Chaitra Aloor	
10	P15KM21S0011	Faisheen Jahagirdar	
11	P15KM21S0012	Shasankumar R Dixit	
12	P15KM21S0013	Suresh Biradar	
13	P15KM21S0014	Sourabh Mahadev Kambale	
14	P15KM21S0015	Kumbhar Shankar Parashuram	
15	P15KM21S0017	Navya Keerthi	
16	P15KM21S0024	Pratibha Sadashiv Chougale	
17	P15KM21S0025	Rinku Patel	
18	P15KM21S0028	Rachana Veeresh Samalad	
19	P15KM21S0032	Laxmi Sarvade	

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S.B. Arts and K.C.P. Science College Vijayapur
P.G. Dept of Chemistry

Practical Test for Value Added Course 2022-23 (attendance)

Date: 12-03-2023

Time: 9.00 to 11.00

Duration: 2 hrs

Sl. No	RCU No.	Name of the Student	Signature
01	P15KM21S0001	Apurva L Mirajkar	
02	P15KM21S0002	Divya Sidaraddi	
03	P15KM21S0003	Pruthvik Pujari	
04	P15KM21S0004	Ashwini Sarawad	
05	P15KM21S0005	Daneshwari A Jagadal	
06	P15KM21S0006	Soumya Babaleshwar	
07	P15KM21S0007	Soumya Kollappanavar	
08	P15KM21S0009	Bhagyashree Yadawad	
09	P15KM21S0010	Chaitra Aloor	
10	P15KM21S0011	Faisheen Jahagirdar	
11	P15KM21S0012	Shasankumar R Dixit	
12	P15KM21S0013	Suresh Biradar	
13	P15KM21S0014	Sourabh Mahadev Kambale	
14	P15KM21S0015	Kumbhar Shankar Parashuram	
15	P15KM21S0017	Navya Keerthi	
16	P15KM21S0024	Pratibha Sadashiv Chougale	
17	P15KM21S0025	Rinku Patel	
18	P15KM21S0028	Rachana Veeresh Samalad	
19	P15KM21S0032	Laxmi Sarvade	

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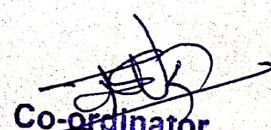
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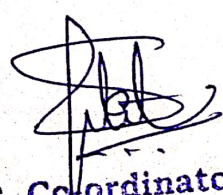
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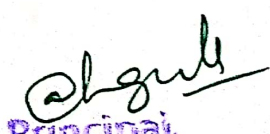
Marks list for value added course 2022-23

Maximum Marks: 100

Sl. No	RCU No.	Name of the Student	Marks		
			Theory(50)	Practical(50)	Total
01	P15KM21S0001	Apurva L Mirajkar	45	43	88
02	P15KM21S0002	Divya Sidaraddi	42	45	87
03	P15KM21S0003	Pruthvik Pujari	40	39	86
04	P15KM21S0004	Ashwini Sarawad	38	47	85
05	P15KM21S0005	Daneshwari A Jagadal	43	41	84
06	P15KM21S0006	Soumya Babaleshwar	40	40	80
07	P15KM21S0007	Soumya Kollappanavar	41	44	85
08	P15KM21S0009	Bhagyashree Yadawad	42	41	83
09	P15KM21S0010	Chaitra Aloor	39	39	78
10	P15KM21S0011	Faisheen Jahagirdar	39	42	81
11	P15KM21S0012	Shasankumar R Dixit	40	45	85
12	P15KM21S0013	Suresh Biradar	41	41	82
13	P15KM21S0014	Sourabh Mahadev Kambale	40	41	81
14	P15KM21S0015	Kumbhar Shankar Parashuram	40	40	80
15	P15KM21S0017	Navya Keerthi	42	41	83
16	P15KM21S0024	Pratibha Sadashiv Chougale	40	39	79
17	P15KM21S0025	Rinku Patel	39	42	81
18	P15KM21S0028	Rachana Veeresh Samalad	40	43	83
19	P15KM21S0032	Laxmi Sarvade	41	45	86


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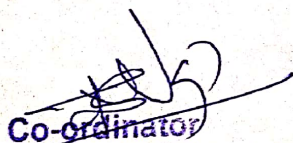
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P.G. Dept of Chemistry
Value added course 2022-23

COURSE OUTCOME

Skill based value added course on "Training on Principles and Handling of Major Instruments" for PG Students of Chemistry for the Academic Year 2022-23.

In this course students were able to handle major instruments like Rotary Evaporator, UV-Vis Spectrometer, FTIR, Flame Photometer and they were also able to test the water by BOD and COD method.

These instruments helped to the students to carry out some of the important projects during their M.Sc course. It also helped the students to join in various industries.



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Department of PG Chemistry

VALUE ADDED COURSE

CERTIFICATE

This is to Certify that, Mr/Ms Apurva L. Mirajkar

has successfully completed Certificate Course in "Training on Principles and Handling of Major Instruments" conducted by Department of Chemistry, BLDEA's S. B. Arts and K. C. P Science College, Vijayapur during the year 2022 - 2023

Date: 30/03/2023

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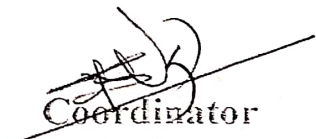
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CERTIFICATE

This is to Certify that, Mr/Ms Divya Sidaraddi

has successfully completed Certificate Course in "Training on Principles and Handling of Major Instruments" conducted by Department of Chemistry, BLDEA's S. B. Arts and K. C. P Science College, Vijayapur during the year 2022-2023


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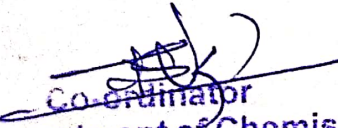
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This is to Certify that, Mr/Ms Routhvik Pejari

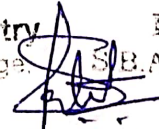
has successfully completed Certificate Course in "Training on Principles and Handling of Major Instruments" conducted by Department of Chemistry, BLDEA's S. B. Arts and K. C. P Science College, Vijayapur during the year 2022 - 2023


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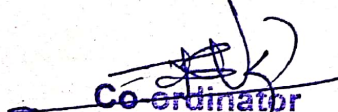
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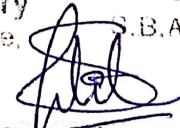
This is to Certify that, Mr/Ms Ashwini Sarawad

has successfully completed Certificate Course in "Training on Principles and Handling of Major Instruments" conducted by Department of Chemistry, BLDEA's S. B. Arts and K. C. P Science College, Vijayapur during the year 2022 - 2023

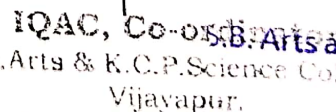
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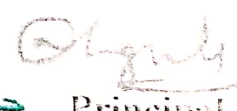

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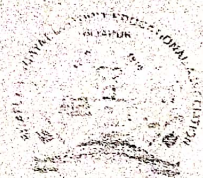

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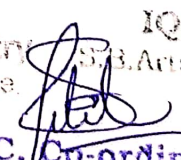
This is to Certify that, Mr/Ms Daneshwari. A. Jagadad
has successfully completed Certificate Course in "Training on Principles and Handling of Major Instruments" conducted by Department of Chemistry, BLDEA's S. B. Arts and K. C. P Science College, Vijayapur during the year 2022-2023

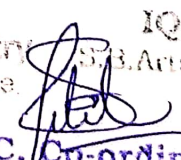
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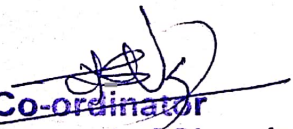
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