Date: 31/01/2023

145

The Principal.

Tuliaram Chaturchand College of Arts, Science and Commerce, Baramati,

Subject: Permission to arrange Six days "Hands on training programme on instrumentation techniques for M. Se II students" under ED cell of RUSA grants.

Respected Sir.

We are willing to organize Six days "Hands on training programme for M. Sc II students on instrumentation technique" under ED cell of RUSA grants. Under this workshop we wish to organize lecture and demonstration on the different techniques in our Common Facility Centre as well as department of Chemistry. The details of training programme are as follows.

Sr.	Name of Leave	Time -						
No	Name of Instrument	11.00 to 12.15 p.m	12.45 to 2.00 p.m					
i	Handling of chemicals							
2	High Pressure Liquid Chromatography (HPLC)							
3	FT-IR Spectroscopy (FT-IR)	Presentation	Demonstration					
4	Atomic Absorption spectroscopy (AAS)							
5	UV- Spectroscopy							
6	Potentiometer, pl1 meter, Conductometry Colorimetry		2 X +					

Expenditure details: 1000 x 12 = 12000/Activity Inchange = 2000/-

Kindly permit us for the same.

Thanking You

Co-ordinator

ED cell

RUSA Co-ordinator

, Head

Department of Botany

Chairman

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Please

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Anekant Education Society's

Tuljaram Chaturchand College of Arts. Commerce and Science. Bararras 14 Journales

Post Graduate Research Centre, Department of Bosary

In Collaboration with Central Facility Centre and Department of Chemistry Centre 2 (Section 27)

\*6 Days Hands on Training Programme on Advanced Instrumentation Techniques\*

Under ED CELL

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	7 02 2023 , f	N S	Potentionness: No Conductionness: No Conductionness
-2022-22	Thursday (16/02/2023)	IR spectroscopy (RSB)	IR spectroscopy (KVR)
A CODE MUC 1801 - 2000-04	Wednesday (15/02/2023)	UV spectroscopy (GSB)	UV spectroscopy (NCD)
700)Y	Tuesday (14/02/2023)	HPLC (SPN)	HPLC (GDP)
	Monday (13/02/2023)	Preparation and standardization of solutions (RSB)	Safety working methods in laboratory (SRK/ YNI)
Time		202	1.00 to 2.00 p.m. Venue: CFC/Dept. of

This Course is compulsory and attendance is mandatory to all the students.

Registration is mandatory prior to training programme (Link will be given).

Co-ordinator

Department of Source

Tuljaram Chaturchand College of Arts, Science and Commerce College, Baramati Anekant Education Society's

(Autonomous)

In Collaboration with Centre Facility Centre and department of Chemistry organizing Post Graduate Research Centre, Department of Botany

"Hands on Training Programme on Advanced Instrumentation Techniques"

Under ED Cell

M. Sc.-II, Botany, Semester- IV (Academic Year 2022-2023).

# Student Attendance

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Department of Botany

separam Charurahand College of Arrs, Science and Commerce College, Baramati (Antonomous)

Poor Ceraduate Research Centre, Department of Botany In Collaboration with Course Facility Centre and department of Chemistry organizing Hands on Fraining Programme on Advanced Instrumentation Techniques

Under ED Cell M Sc. R. Royany, Semester W. Academic Year 2022 2023) Glimpses of Training Programme

Monday (13 02 2023) Session 1: Saffey working methods in laboratory



Session 11: Preparation and stadardization of solutions





## Tuesday(14/02/2023)

# Session I: High-Performance Liquid Chromatography(HPLC)



Session II: High-Performance Liquid Chromatography(HPLC)



# Session I: Spectroscopy Latitude: 18.160451 Longitude: 74.579593 Elevation: 557/3323 m Accuracy: 29.7 m Time: 02-16-2023 1135 Note: Hands on Training Properties to Advanced language incentiques (modal press that).

Session II: Spectroscopy





Friday(17/02/2023)
Session II: Potentiometry, pH meter, Conductometry, Colorimetry



Friday(17/02/2023) Session III: Microtomy



### Report

# Hands on Training Programme on Advanced Instrumentation Techniques"

### UNDER ED Cell

### Organized by

P.G. Research Centre, Department of Botany, T. C. College, Baramati (Autonomous) (13th and 18th Feb. 2023, Time 11.30 a.m. to 2, 00 p.m.)

To make aware M. Sc II Botany students for interdisciplinary research work using different instrumentation techniques P.G. Research Centre, Department of Botany, T. C. College. Baramati in Collaboration with Central Facility Centre and Department of Chemistry organized "Hands on Training Programme on Advanced Instrumentation Techniques" under ED cell of RUSA. Total 12 sessions of for six days were arranged. Each day is followed by lecture on principle and working of instrument from 11.30 a.m to 12, 30 p.m and demonstration session on same instrument from 1.00 p.m to 2.00 p.m.

The details of each day session is given as follows,

Day and	Time	Session Speaker	Technique
Date			4.4
	11.30 a.m to 12. 30 p.m.	Dr. R. S. Bhondave	Preparation and
Monday	#*- j.	- 1	standardization of
13/02/2023	Tilday.		solutions
	1.00 to 2.00 p.m.	Dr. S. R. Kale	Safety working methods
	hazaris mendi.	The second second	in laboratory
Tuesday	11.30 a.m to 12. 30 p.m.	Mrs. S.P.Nale	HPLC
14/02/2023	1.00 to 2.00 p.m.	Mrs. G.D.Pirale	
	11.30 a.m to 12. 30 p.m.	Prof. G. S. Bhunje	UV spectroscopy
Wednesday	1.00 to 2.00 p.m.	Dr. N. C. Dige	- spreadedly
15/02/2023			
Thursday	11.30 a.m to 12. 30 p.m.	Miss. K. M.	IR spectroscopy
Thursday 16/02/2023		Rupnawar	

Hated FORM

	1.00 to 2.00 p.m.	Dr. R. S. Bhondve	The last State of the
Friday 17/02/2023	11.30 n.m to 12, 30 p.m.	Prof. S. R. Kale	Potentiometry, pl l. Conductometry
	1.00 to 2.00 p.m.	Dr. Y. N. Indulkar	Colorimetry
Caturday	11.30 n.m to 12. 30 p.m.	Prof. Dr. B. S. Mali	Flame Photometry
Saturday 18/02/2023	1.00 to 2.00 p.m.	Dr. M. P. Patil	Microtomy, Centrifugation

Total 32 students from M. Sc II Botany were benefitted by this workshop. Students were keenly involved and attentive in all theory and demonstration sessions of six days.

We are very much thankful to Prin. Dr. Chandrashekalar V. Murumkar for permission to conduct this training programme. We are also grateful to Dr. V. C. Kakade, Chairman. I: D. cell for suggestions and guidance. Thanks are extended to Prof. Dr. Ramchnadra Sapkal, Vice principal and RUSA Co-ordinator for his support for utilization of grants.

Co-ordinator

Department of Botany