



RAMAIAH

College of Arts, Science &
Commerce

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M S Ramaiah College of Arts, Science and Commerce

Re-accredited 'A' by NAAC, Permanently Affiliated to Bengaluru City University,

Approved by Government of Karnataka, Approved by AICTE, New Delhi,

Recognized by UGC under 2f & 12B of UGC act 1956



(National Institutional Ranking Framework, Ministry of Education, Govt of India)

Ranked 62nd in NIRF India Ranking by MHRD, New Delhi

DBT Star College Scheme

Ref.No: MSRCASC/CHEM-BIOCHEM/2021 - 22/25

Date: 20/04/2022

CIRCULAR

Department of Chemistry / Biochemistry

Department of Chemistry / Biochemistry is organizing Value Added Program on "Separation Techniques: Chromatography" from 12th May to 30th May 2022. Interested B.Sc. Students can register for this program on or before 10th May 2022. Find the attached link below to register for the program:

https://docs.google.com/forms/d/e/1FAIpQLSd_C5vRMLxaWluHtMLKtOr2Zrgr1N6x9IUWYsKuvstTBUItrQ/viewform?vc=0&c=0&w=1&flr=0&usp=mail_form_link

Event Coordinators:

Mrs. Usharani S R

Assistant Professor

Dept. of Chemistry/Biochemistry

Mrs. Malini M R

Assistant Professor

Dept. of Chemistry/Biochemistry


HEAD OF THE DEPARTMENT

M S Ramaiah Nagar
MSRIT Post
Bangalore 560 054

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E principal.msrmcasc@gmail.com
W www.msrmcasc.edu.in


PRINCIPAL
Principal,

M.S. Ramaiah College of Arts, Science & Commerce
MSRIT Post, MSR Nagar
Bangalore - 560 054

**RAMAIAH**College of Arts, Science &
Commerce

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Approved by Government of Karnataka, Approved by AICTE, New Delhi,
Recognized by UGC under 2f & 12B of UGC act 1956(National Institutional Ranking Framework, Ministry of Education, Govt of India)
Ranked 62nd in NIRF India Ranking by MHRD, New Delhi
DBT Star College Scheme**DEPARTMENT OF CHEMISTRY/BIOCHEMISTRY****REPORT ON VALUE ADDED PROGRAM****Title:** "Separation Techniques: Chromatography"**Duration:** 30 Hrs**Program Coordinators:** Mrs. Usharani S R and Mrs. Malini M R
Assistant professor, Department of Chemistry/ Biochemistry**Number of Students Benefited:** 60

Department of Chemistry/Biochemistry has started the Value Added Program for B.Sc., students additional to their regular curriculum. Through this certificate program, the department aims at imparting crucial Analysis skills to the students, which is very much important in acquiring knowledge pertaining to Research and jobs. This program is conducted via offline classes. The Program constitutes 30 Credit Hours Syllabus (20 hours' theory+ 10 hours' practical's).

This course imparts the skills on use of various Chromatographic techniques which are essential for students with chemistry as a major subject. During the course students trained for the Chromatographic techniques like:

1. Paper Chromatography
2. Thin Layer chromatography
3. Column liquid chromatography including HPLC
4. Ion exchange chromatography
5. Adsorption Chromatography

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6. Gas Chromatography

The students understood the working principle of the Chromatographic techniques which are mentioned above in theory classes and they also learned to perform these Chromatographic techniques during practical hours by performing the experiments individually. They also came to know about the applications of these chromatographic techniques in the research and industries.

The classes were Conducted in offline mode by Mrs. Malini M R, Mrs. Usharani S R and Dr. K Vijayakumar Reddy from MSRCASC and Dr. Arunakumari M L from The Oxford college of science. This program benefited more for the students who were interested in research and involved in projects.

After the completion of theory and practical classes, the test was conducted to check their understanding level for practical classes. Based on the marks they scored in the internal tests in practical, viva and also by considering their attendance students were assessed to clear the Value Added program.

The Program was commenced from 12/05/2022 and ended-up on 30/05/2022. The B.Sc. students from 4th and 6th semester have been actively enrolled and participated in this Value Added Program and are benefitted. At the end of program, the feedback was taken from all the students who have participated and certificated were issued. the participants were able to use the Chromatographic techniques efficiently.

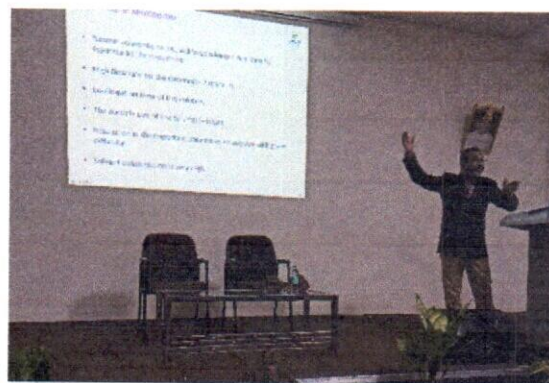
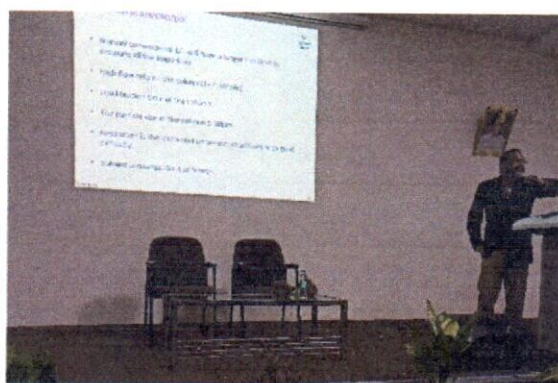


Mrs. Usharani S R Explaining Course module and Paper Chromatography

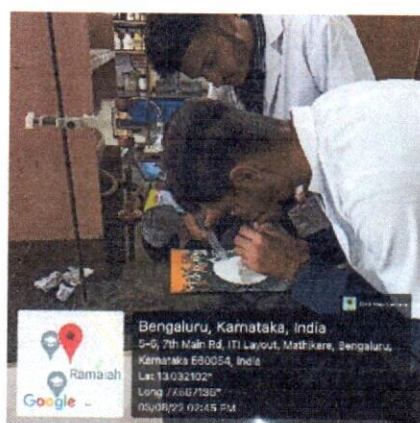
Heela
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Dr. K Vijayakumar Reddy explaining Thin Layer Chromatography



Dr. Narayanan Balaji from JUBILANT BIOSYS Industry explaining Column Chromatography



Students performing Paper Chromatography and Column Chromatography

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W www.msrmcsc.edu.in

Resource Persons

1. **Dr. K Vijayakumar Reddy**
Adjunct Professor
RCASC, Bengaluru-54
 2. **Dr. Arunakumari M L**
Assistant Professor
The Oxford College of Science,
Bengaluru-102
 3. **Mrs. Malini M R**
Assistant Professor
RCASC, Bengaluru-54
 4. **Mrs. Usharani S R**
Assistant Professor
RCASC, Bengaluru-54
- And Resource persons from Industry.**

Address for Correspondence

Mr. Prasanna Kumar S G
Associate Professor,
HOD of Chemistry/Biochemistry
RCASC, Bengaluru
prasanna_chem@msrcasc.edu.in

Mrs. Malini M R
Assistant Professor
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malini_chem@msrcasc.edu.in

Mrs. Usharani S R
Assistant Professor
RCASC, Bengaluru
usharanist.91@gmail.com

Patrons

Dr. M R Jayaram
Hon'ble Chairman, GEF
Chancellor, RUAS

Sri. M R Janakiram
Hon'ble Director, GEF

Sri. M R Kodandaram
Hon'ble Director, GEF

Sri. B S Ramaprasad
Chief Executive, GEF (Engg & GS)

Sri. G Ramachandra
Chief of Finance, GEF (Engg & GS)

Registration Link

https://docs.google.com/forms/d/e/1FAIPQLSdC5VRMlxawIUHtMLKtOr2Zrgr1N6x9IUWYsKuvstBUItQ/viewform?vc=0&c=0&w=1&flr=0&usp=mail_form_link

Target Students

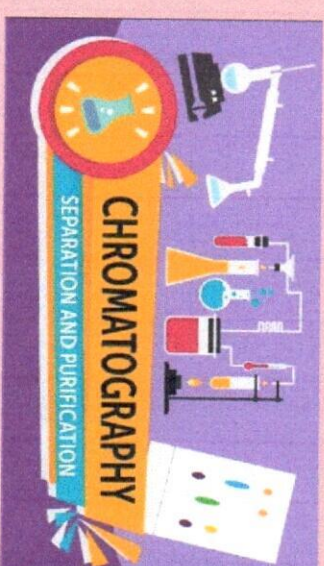
B.Sc. and M.Sc. Students



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ಇವರ ಸರ್ವ ಸ್ವಾಮ್ಯ, ಕೆ.ಎಂ. ಸಿಂಧ್ಯಾ ಮೆಮೋರಿಯಲ್
M S Ramiah College of Arts, Science and Commerce
ಇದು ಅನುಮೋದಿತವಾಗಿದೆ A by NMAC, Purnanagudi, Affiliated to Bangalore City University
Approved by Government of Karnataka, Approved by AICTE, New Delhi.
Approved by National Institutional Assessment Agency, New Delhi.
Bundled 627 - in India India Starting by NITD, New Delhi.
NITD Star College Scheme

Value added Program
On
"Separation Techniques:
Chromatography"



12th May to 30th May – 2022

Venue:
Chemistry
PG Lab/Online Stream

Organized by:

Dept. of Chemistry and Biochemistry
RAMAIAH
College of Arts, Science and
Commerce, Bangalore - 560054

Course Module

Module 1: Principles and Fundamentals of chromatography

Module 2: Principle and uses of Thin Layer chromatography

Module 3: Column liquid chromatography including HPLC

Module 4: Ion exchange chromatography

Module 5: Paper Chromatography

Module 6: Gas Chromatography- Principle, Working, and uses.

Module 7: Principles of Adsorption Chromatography

Module 8: Limitations and Applications of Chromatography

About the Program

Department of Chemistry & Biochemistry takes initiative for myriad of co-academic activities to bring students growth in all the respects.

This program is preferably for selected students interested in pursuing further career in the field of research. Further to inculcate research interest, zeal, enthusiasm and contemporary knowledge in chemistry research, this program fulfills all the needed requirements and also the skills needed by the industry.

All the resource persons of this program are faculty of Department of Chemistry with a sound experience in Chemistry research.

The order of the sessions is made to maintain the flow of the main topic of the add-on course.

Organizing Committee Members

Dr. Nagarathna A
Principal,
RCASC, Bengaluru.

Mr. Prasanna Kumar S G
Associate Professor,
HOD of Chemistry/Biochemistry
RCASC, Bengaluru

Mrs. Malini M R
Assistant Professor
RCASC, Bengaluru

Mrs. Usharani S R
Assistant Professor
RCASC, Bengaluru

About the College

Dr. M S Ramaiah, a visionary and philanthropist established "Gokula Education Foundation (GEF)", in the year 1962, to deliver education and healthcare for the betterment of mankind. Under the tutelage of GEF, M.S Ramaiah college of Arts, Science and Commerce (MSRCASC) was established in 1994. MSRCASC is Re-accredited with "A" Grade by NAAC, permanently affiliated to Bangalore University (BU), and approved by AICTE.

The college offers seven UG courses and four PG courses in Arts, Science, and Commerce, to around 2000 students. The Department of Life Sciences conducts 2 UG and 4PG Programs in Microbiology, Chemistry, Biotechnology and Biochemistry to about 800 students.

The dedicated academic faculties from our college have extensive teaching experience and have pursued doctoral and postdoctoral work in eminent institutes in India and abroad. Ramaiah College not only educates young students to excel academically, but also strives hard to ingrain social responsibilities in them.

Department of Chemistry and Biochemistry

The department of Chemistry and Biochemistry was established in the year 1994 and currently conducts both UG and PG courses in Chemistry and Biochemistry. The syllabus is constantly supported by current day, real life applications carrying utility value. The department has very good infrastructural facilities to carry out teaching and research activities.

Highly qualified faculties are assigned with theory and practical classes and are instructed to emphasize on the 'learning' of the students. The department undertakes research projects of national importance in the field of biological chemistry and has attracted funds from various agencies.

Through the sincere effort of our faculty we have obtained many University ranks, 90-100% results in both UG and PG courses consistently. Our students have been placed in various companies and many are pursuing their higher educations in India and abroad. We encourage students in doing research, present papers at National conferences, publish their findings in Journals of repute and also participate in co-curricular and extra-curricular activities.

Objective

This program is started as an inter-college departmental activity and having scope to organize in future, by inviting other college students and by collaborating with other research organization. Department is thankful to the management for giving an opportunity to organize such programs.

Outcome

This program started as it aims to mould the students with employable skills. These job-oriented courses are designed to equip the students to face the emerging challenges in the job market. Department is thankful to the management for giving an opportunity to organize such programs.

M S Ramaiah College of Arts, Science and Commerce

Department of Chemistry/ Biochemistry

Syllabus for Value Added Program

Title: "Separation technique: Chromatography"

Duration: 30 Hrs

Program Coordinators: Mrs. Usharani S R and Mrs. Malini M R

Theory

20 Hours

Module 1

2 Hours

Principles and Fundamentals of chromatography: History, Classification, definition of terms, principles, basic theory of chromatographic technique and sample handling.

Module 2

2 Hours

Thin Layer chromatography: Introduction, preparation of TLC plate, Basic principles, instrumentation.

Module 3

4 Hours

Column liquid chromatography including HPLC: Band broadening and column efficiency: Definition, plate theory and rate theory of chromatographic technique, their limitation and applications. Principles of HPLC, instrumentation of HPLC, Types of Columns, Types of detectors use in HPLC, and difference between HPLC and UPLC, Application of HPLC.

Module 4

2 Hours

Ion exchange chromatography: Principle theory, instrumentation and applications.

Module 5

2 Hours

Paper Chromatography: Principle theory, instrumentation and applications.

Module 6


4 Hours

Gas Chromatography: Introduction, Basic principle of GC, difference between GLC and GSC, instrumentation of GC, Types of column, Types of detectors use in GC. Application of GC, Working, and uses.

Module 7

2 Hours

Adsorption Chromatography: Principle theory, Types, instrumentation and applications.


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Module 8

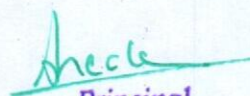
2 Hours

Limitations and Applications of Chromatography: Limitations and applications of different Chromatographic Techniques.

List of Practicals

10 Hours

1. To determine the R_f value of the amino acids present in a given mixture by paper chromatography.
2. To determine the R_f value of the amino acids present in a given mixture by circular paper chromatography.
3. To determine the R_f value of the amino acids present in a given mixture by thin layer chromatography.
4. Separation of a mixture of potassium permanganate and potassium dichromate by column chromatography.
5. Separation of metal ions on an anion exchange resin by chromatographic elution.



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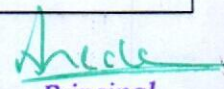
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Department of Chemistry/Biochemistry

Value added Program on "Separation techniques: Chromatography"

Participants List

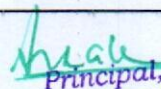
Sl. No	Students Name	Register No.	Course/Sem
1	AASHISH A CHINCHURE	S2014402	B.Sc./IV Sem
2	ABHISIKTA BOSE	S2014403	B.Sc./IV Sem
3	ADITHYA C S	S2014461	B.Sc./IV Sem
4	AKSHAY G SAJJAN	S2014463	B.Sc./IV Sem
5	ASHMITHA S	S2014408	B.Sc./IV Sem
6	BHUVANJALEE BASNETT	S2014412	B.Sc./IV Sem
7	BIPASHA SINGH	S2014477	B.Sc./IV Sem
8	CHARAN KUMAR J	S2014481	B.Sc./IV Sem
9	CETHANA V C	S2014483	B.Sc./IV Sem
10	DEBLINA TARAFDER	S2014415	B.Sc./IV Sem
11	DHANUSH L NADAGOUDA	S2014491	B.Sc./IV Sem
12	DHARSHAN BALAJI	S2014492	B.Sc./IV Sem
13	DWITHI A BHANDARKAR	S2014418	B.Sc./IV Sem
14	FATHIMA AFRIN A A	S2014420	B.Sc./IV Sem
15	GANAVI V C	S2014498	B.Sc./IV Sem
16	HARINI A KHEMKAR	S2014500	B.Sc./IV Sem
17	HARINI Y	S2014501	B.Sc./IV Sem
18	HARSHITHA. G	S2014504	B.Sc./IV Sem
19	HEMA LATHA K	S2014505	B.Sc./IV Sem



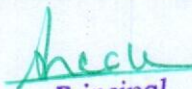
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20	HIMA R	S2014423	B.Sc./IV Sem
21	HIMANI K M	S2014507	B.Sc./IV Sem
22	JOYSRI DEY	S2014512	B.Sc./IV Sem
23	KALICHARAN H C K	S2014513	B.Sc./IV Sem
24	KEERTHANA J R	S2014517	B.Sc./IV Sem
25	KEERTHI KUMAR S M	S2014518	B.Sc./IV Sem
26	KRISHNA KUMAR M	S2014522	B.Sc./IV Sem
27	KSHITI JOSHI	S2014425	B.Sc./IV Sem
28	LASYA PRIYA K	S2014525	B.Sc./IV Sem
29	MANOJ GOWDA N S	S2014534	B.Sc./IV Sem
30	MANOJ P	S2014535	B.Sc./IV Sem
31	MEENAKSHI ANOOP	S2014428	B.Sc./IV Sem
32	MYTHRI P	S2014540	B.Sc./IV Sem
33	NAFIA BANU A	S2014542	B.Sc./IV Sem
34	NAMRATHA Y	S2014544	B.Sc./IV Sem
35	NIKITHA P	S2014548	B.Sc./IV Sem
36	POOJA C	S2014434	B.Sc./IV Sem
37	POOJA RAGHU	S2014556	B.Sc./IV Sem
38	PRAJWAL N S	S2014559	B.Sc./IV Sem
39	PRATHIBA D R	S2014561	B.Sc./IV Sem
40	PREETHAM A RAO	S2014562	B.Sc./IV Sem
41	PRIYADHARSHINI D	S2014439	B.Sc./IV Sem
42	RAKSHITHA S THAPA	S2014570	B.Sc./IV Sem


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43	RAVI KIRAN G	S2014572	B.Sc./IV Sem
44	RIDA KONAINA	S2014573	B.Sc./IV Sem
45	RUZAINA FATHIMA	S2014575	B.Sc./IV Sem
46	SAGNIK MUKHERJEE	S2014576	B.Sc./IV Sem
47	SAHANA R	S2014577	B.Sc./IV Sem
48	SAKSHI N ULLAL	S2014580	B.Sc./IV Sem
49	SAMREEN TAJ	S2014582	B.Sc./IV Sem
50	SAMYUKTHA A	S2014584	B.Sc./IV Sem
51	SHAURYA R RAI	S2014595	B.Sc./IV Sem
52	SHRAVYA B	S2014599	B.Sc./IV Sem
53	SHREEGOWRI A	S2014600	B.Sc./IV Sem
54	SHREEKAR	S2014445	B.Sc./IV Sem
55	SHWETHA P	S2014448	B.Sc./IV Sem
56	SOUJANYA V K	S2014602	B.Sc./IV Sem
57	SOWMYA A	S2014451	B.Sc./IV Sem
58	VISHAKA THAPA	S2014610	B.Sc./IV Sem
59	YASHASWINI G	S2014613	B.Sc./IV Sem
60	YASHWANTH S	S2014616	B.Sc./IV Sem


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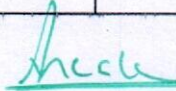
Department of Chemistry/Biochemistry

Value added Program on "Separation techniques: Chromatography"

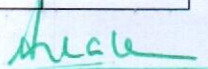
Assessment procedure for value added program

Department of Chemistry/Biochemistry organized Add-on Course Hands on Training of Basic Chemistry Software's from 12/05/2022 to 30/05/2022. For B.Sc. students by Mrs. Usharani S R and Mrs. Malini M R. 60 students participated in this program and the course duration was 30 hours. The students actively participated in the training and also gained the hands-on experience on Chromatographic Techniques. Course Facilitators assessed the students based on the performance during training sessions and participation certificate were given to the students after course completion.

Sl. No	Students Name	Register No.	Attendance (5)	Viva (5)	Practical Skills (20)	Total (30)
1	AASHISH A CHINCHURE	S2014402	5	5	18	28
2	ABHISIKTA BOSE	S2014403	5	4	19	28
3	ADITHYA C S	S2014461	5	5	20	30
4	AKSHAY G SAJJAN	S2014463	5	5	20	30
5	ASHMITHA S	S2014408	5	4	17	26
6	BHUVANJALEE BASNETT	S2014412	5	4	19	28
7	BIPASHA SINGH	S2014477	5	5	20	30
8	CHARAN KUMAR. J	S2014481	5	5	18	28
9	CHETHANA VC	S2014483	5	5	17	27
10	DEBLINA TARAFTER	S2014415	5	4	18	27
11	DHANUSH L NADAGOUDA	S2014491	5	5	18	28
12	DHARSHAN BALAJI	S2014492	5	5	17	27

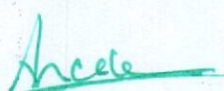

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12	DHARSHAN BALAJI	S2014492	5	5	17	27
13	DWITHI A BHANDARKAR	S2014418	5	5	19	29
14	FATHIMA AFRIN A A	S2014420	5	4	20	29
15	GANAVI VC	S2014498	5	5	18	28
16	HARINI A KHEMKAR	S2014500	5	4	18	27
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34	NAMRATHA Y	S2014544	5	5	20	30
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36	POOJA C	S2014434	5	5	18	28
37	POOJA RAGHU	S2014556	5	4	19	28
38	PRAJWAL N S	S2014559	5	5	19	29
39	PRATHIBA D R	S2014561	5	5	20	30
40	PREETHAM.A.RAO	S2014562	5	5	20	30
41	PRIYADHARSHINI.D	S2014439	5	4	18	27
42	RAKSHITHA S THAPA	S2014570	5	5	20	30
43	RAVI KIRAN G	S2014572	5	5	17	27
44	RIDA KONAINE	S2014573	5	5	17	27
45	RUZAINA FATHIMA	S2014575	5	5	19	29
46	SAGNIK MUKHERJEE	S2014576	5	5	20	30
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52	SHRAVYA B	S2014599	5	5	20	30
53	SHREEGOWRI A	S2014600	5	5	20	30
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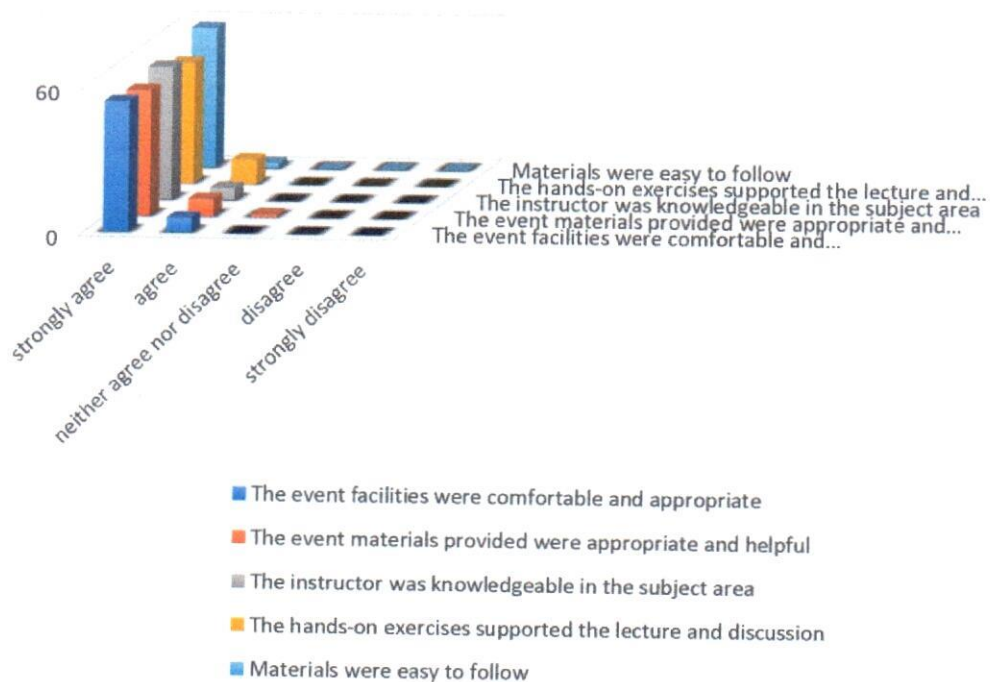
M S Ramaiah College of arts, science and Commerce

Department of Chemistry/Biochemistry

Value added Program on “Separation techniques: Chromatography”

Contents	strongly agree	agree	neither agree nor disagree	disagree	strongly disagree
The event facilities were comfortable and appropriate	54	6	0	0	0
The event materials provided were appropriate and helpful	52	7	1	0	0
The instructor was knowledgeable in the subject area	55	5	0	0	0
The hands-on exercises supported the lecture and discussion	50	10	0	0	0
Materials were easy to follow	58	2	0	0	0

Consolidated feedback from the participants



heela
Principal,

M.S. Ramaiah College of Arts, Science & Commerce
MSRIT Post, MSR Nagar
Bangalore - 560 054

M S Ramaiah College of Arts, Science and Commerce

Department of Chemistry/ Biochemistry

Students Attendance of Value-Added Program

on

"Separation Techniques: Chromatography"

Sl.No.	Students Name	Reg. No	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
1	AASHISH A CHINCHURE	S2014402	12/5	12/5	13/5	13/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5
2	ABHISIKTA BOSE	S2014403	12/5	12/5	13/5	13/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5
3	ADITHYA C S	S2014461	12/5	12/5	13/5	13/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5
4	AKSHAY G SAJIAN	S2014463	12/5	12/5	13/5	13/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5
5	ASHMITHA S	S2014408	12/5	12/5	13/5	13/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5
6	BHUVANJALEE BASNETT	S2014412	12/5	12/5	13/5	13/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5
7	BIPASHA SINGH	S2014477	12/5	12/5	13/5	13/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5
8	CHARAN KUMAR. J	S2014481	12/5	12/5	13/5	13/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5
9	CHEETHANA VC	S2014483	12/5	12/5	13/5	13/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5
10	DEBLINA TARAFDER	S2014415	12/5	12/5	13/5	13/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5
11	DHANUSH L NADAGOUDA	S2014491	12/5	12/5	13/5	13/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5	14/5

Principal

12	DHARSHAN BALAJI	S2014492	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
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16	HARINI A KHEMKAR	S2014500	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
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18	HARSHITHA. G	S2014504	1	2	A	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
19	HEMA LATHA K	S2014505	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
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23	KALICHARAN H C K	S2014513	1	A	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
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25	KEERTHI KUMAR S M	S2014518	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
26	KRISHNA KUMAR M	S2014522	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
27	KSHITI JOSHI	S2014425	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
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29	MANOJ GOWDA N S	S2014534	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
30	MANOJ P	S2014535	1	A	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29

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32	MYTHILP	S2014540	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
33	NAFIA BANU A	S2014542	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
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35	NIKITHA P	S2014548	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
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37	POOJA RAGHU	S2014556	1	A	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
38	PRAJWAL N S	S2014559	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
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40	PREETHAM.A.RAO	S2014562	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
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42	RAKSHITHA S THAPA	S2014570	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
43	RAVI KIRAN G	S2014572	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
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45	RUZAINA FATHIMA	S2014575	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
46	SAGNIK MUKHERJEE	S2014576	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
47	SAHANAR	S2014577	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
48	SAKSHI N ULLAL	S2014580	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
49	SAMREEN TAJ	S2014582	1	2	A	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29

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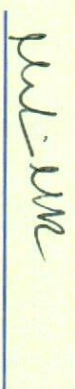
for attending the value added program on **"Separation techniques: Chromatography"**
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Mrs. Usharani S R

Co-ordinator

Department of Chemistry/Biochemistry



Mrs. Malini M R

Co-ordinator

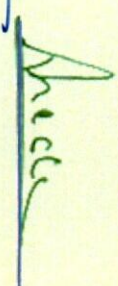
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Mr. Prasanna Kumar S G

Head

Department of Chemistry/Biochemistry



Dr. Nagarathna A

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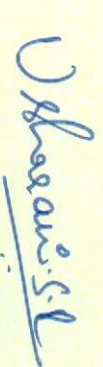
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Mrs. Usharani S R

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Mrs. Malini M R

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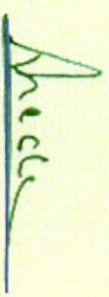
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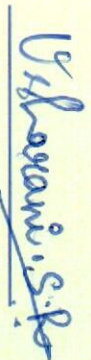
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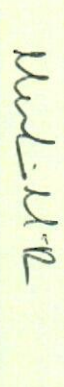
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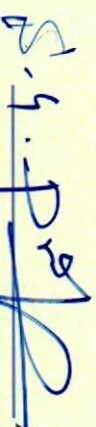
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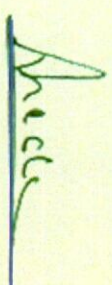
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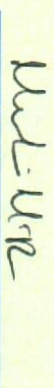
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Mrs. Usharani S R

Co-ordinator

Department of Chemistry/Biochemistry



Mrs. Malini M R

Co-ordinator

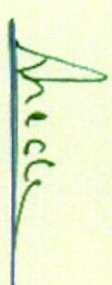
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Mr. Prasanna Kumar S G

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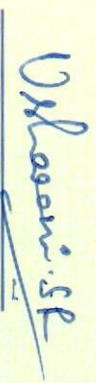
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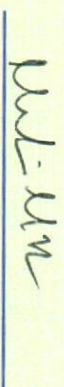
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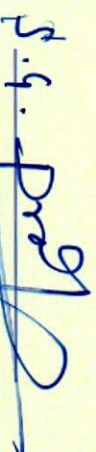
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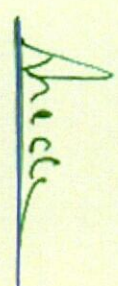
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Mr. Prasanna Kumar S G

Head

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Dr. Nagarathna A

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MANOJ P

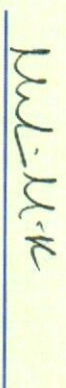
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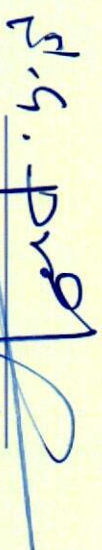
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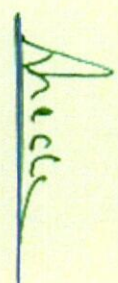
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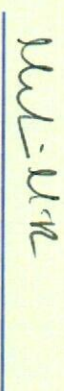
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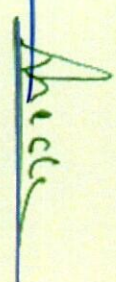
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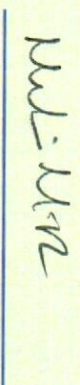
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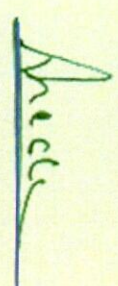
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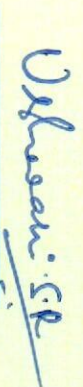
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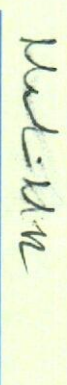
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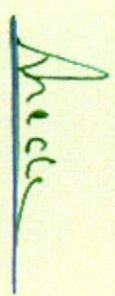
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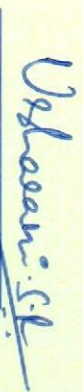
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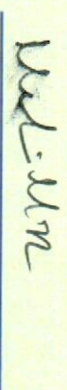
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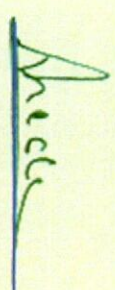
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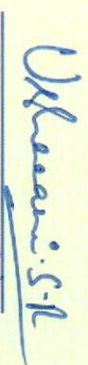
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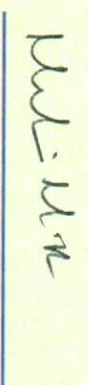
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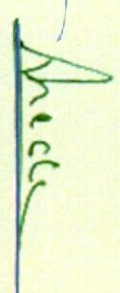
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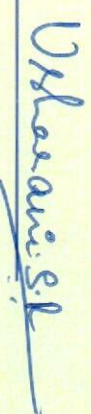
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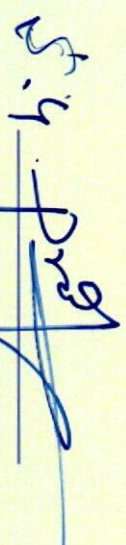
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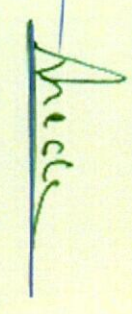
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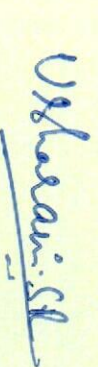
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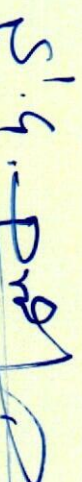
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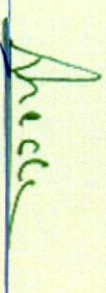
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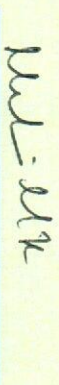
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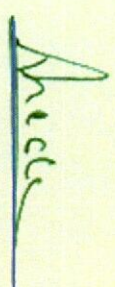
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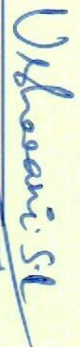
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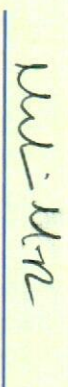
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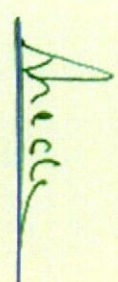
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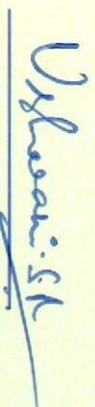
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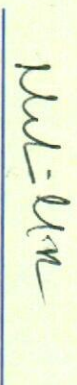
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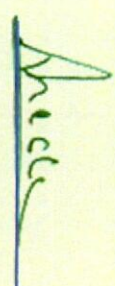
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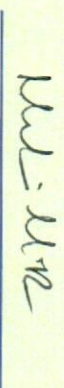
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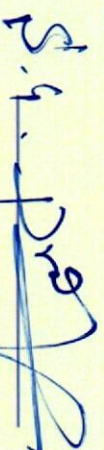
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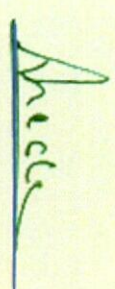
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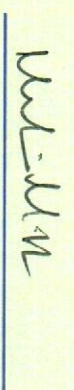
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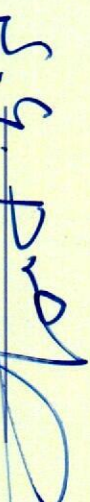
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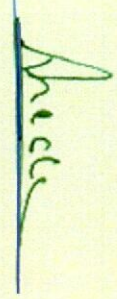
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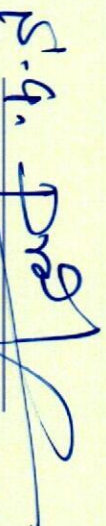
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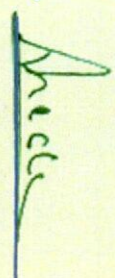
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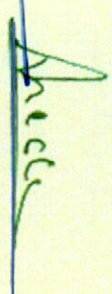
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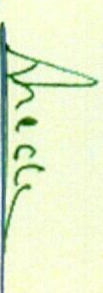
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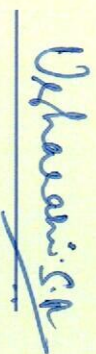
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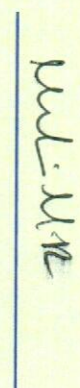
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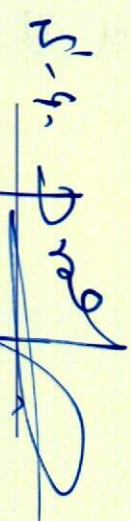
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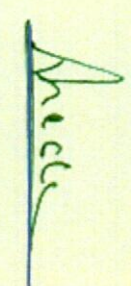
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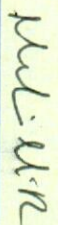
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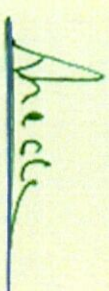
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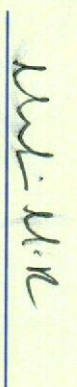
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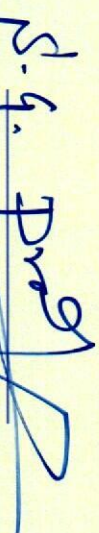
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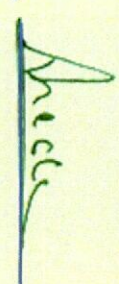
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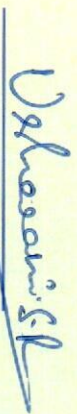
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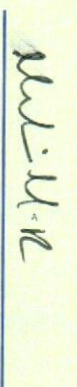
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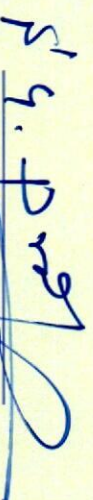
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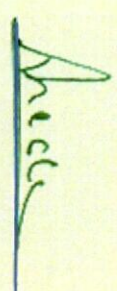
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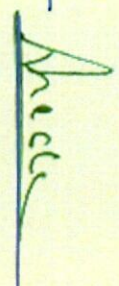
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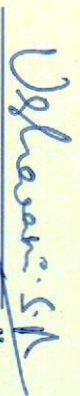
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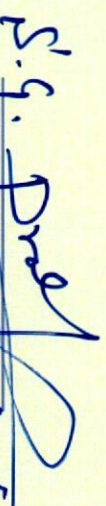
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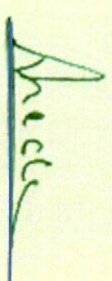
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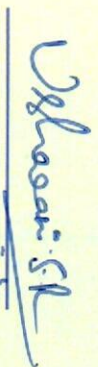
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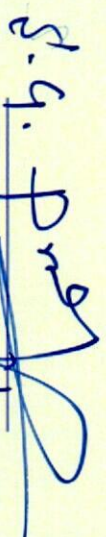
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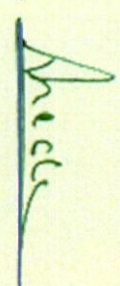
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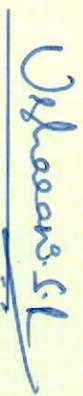
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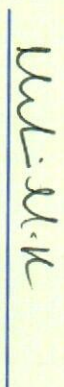
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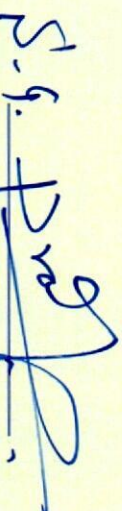
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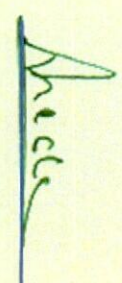
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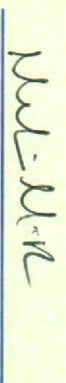
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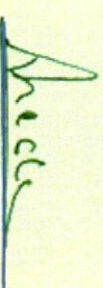
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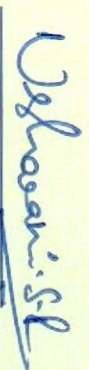
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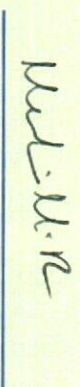
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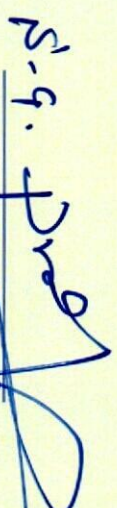
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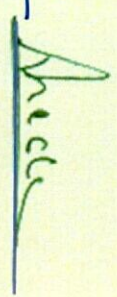
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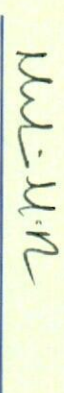
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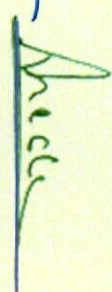
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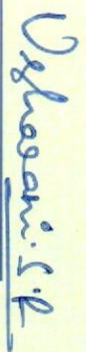
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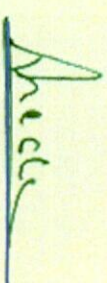
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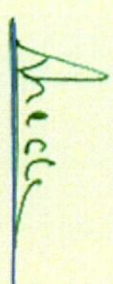
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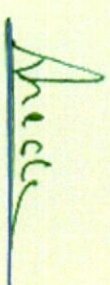
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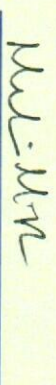
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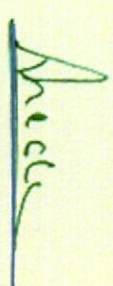
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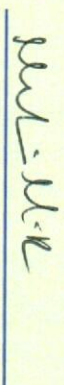
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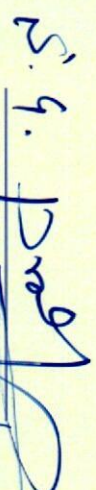
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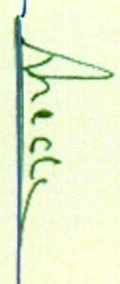
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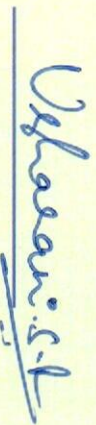
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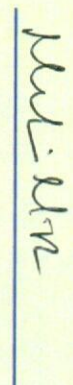
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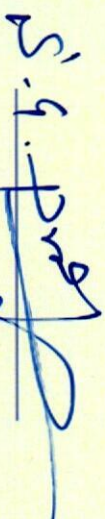
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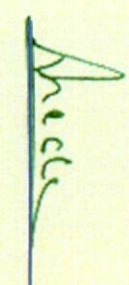
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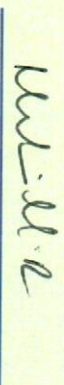
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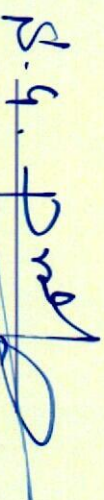
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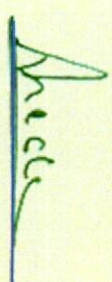
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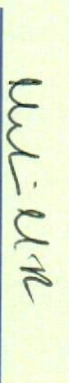
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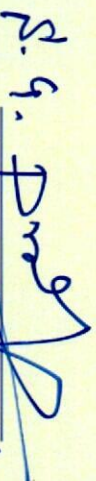
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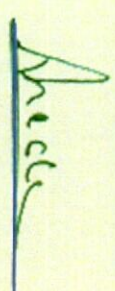
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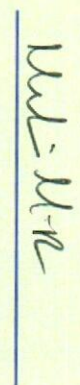
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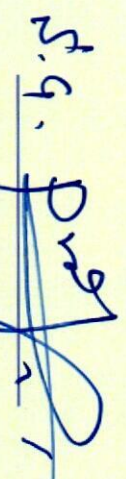
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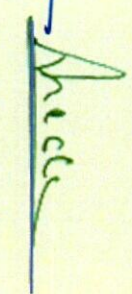
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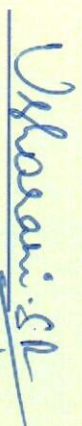
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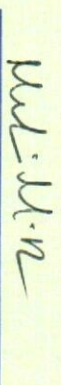
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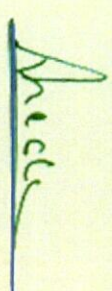
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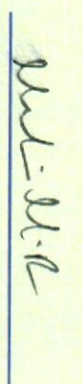
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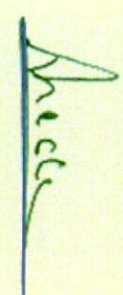
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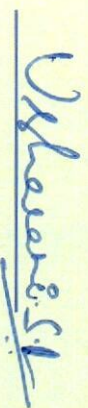
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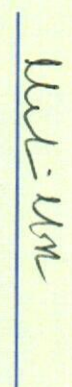
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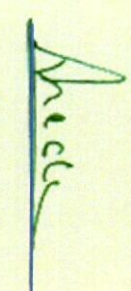
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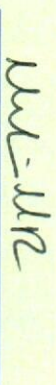
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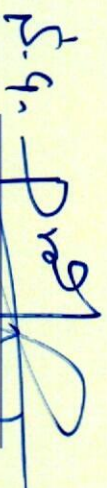
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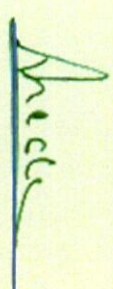
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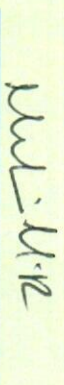
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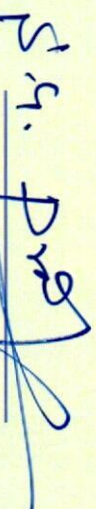
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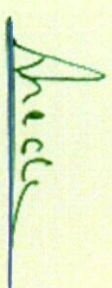
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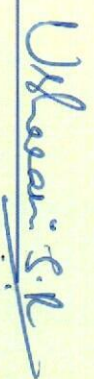
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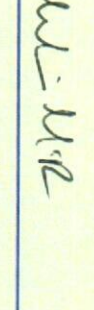
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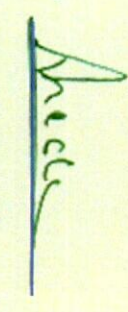
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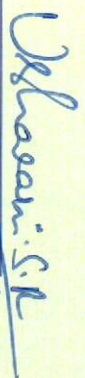
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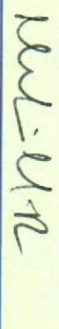
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Co-ordinator

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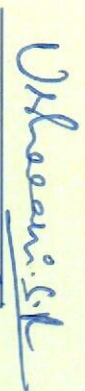
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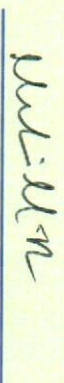
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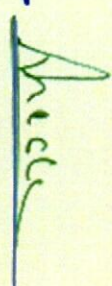
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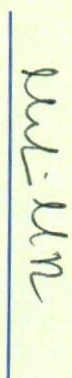
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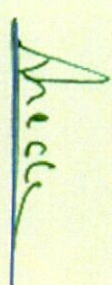
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