



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

ಎಮ್ ಎಸ್ ರಾಮಯ್ಯ ಕಲಾ, ವಿಜ್ಞಾನ ಮತ್ತು ವಾಣಿಜ್ಯ ಕಾಲೇಜು

**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) India)

Ranked 55<sup>th</sup> in NIRF India Ranking by MHRD, New Delhi

DBT Star College Scheme

Ref. No: MSRCASC/Chem/Bio -Chem/2022-23/

Date: 10/07/2023


**CIRCULAR**

*Department of Chemistry / Biochemistry*

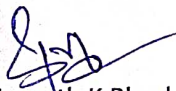
**Value added Programme**

We are pleased to inform you that M S Ramaiah College of Arts, Science and Commerce, MSRIT Post, MSR Nagara, Mattikere, Bangalore is Organizing **Value added Program on "Instrumental methods of chemical analysis- GC&HPLC- QC – Chemist or Analyst role of Industry perspective"** at sir. M Visveswaraya Auditorium of college and Hands on experience in Enviro Test House Electronic city, Bengaluru, Karnataka on 11<sup>th</sup> 12<sup>th</sup> and 14<sup>th</sup> August 2023.

All the M Sc – Chem/Bio - chemistry students are requested to attend the same.

Event Co – Ordinator: 

Dr. Hareesh Kumar P

  
Dr. Vasanth K Bhaskara

Assistant Professor & HOD

Department of Chemistry/Biochemistry

  
Vice – Principal

Dr. Pushpa H

  
Principal

Dr. Vatsala G



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(National Institutional Ranking Framework, Ministry of Education, Govt of India)  
Ranked 55<sup>th</sup> in NIRF India Ranking by MHRD, New Delhi  
DBT Star College Scheme

Dated: 22<sup>nd</sup> August 2023

## REPORT ON Value added Program on

**“Instrumental methods of chemical analysis–GC&HPLC- QC – Chemist or analyst role of Industry perspective”,**

Number students: 21

### About Value added program:

Department of chemistry/Biochemistry conducted three days value added program on 11<sup>th</sup> 12<sup>th</sup> and 14<sup>th</sup> August 2023 to our M Sc – Chemistry and M Sc – Biochemistry students and venue for first two days theory classes are at Sir, M Visveswaraya auditorium and Class room 404 and practical are conducted in Enviro Test House, Electronic city Bengaluru in collaboration with Mahawin and the resource person – Dr. Mallesha H who is a founder director and Scientist Bengaluru, Karnataka.

Inauguration of the value -added program was held on 11<sup>th</sup> August 2023 and precedential address by Our Respected Dr. Vatsala G Principal and madam spoke about importance and motivated students for involvement of in gaining more credits to their pocket.



Dr. Pushpa H Vice – Principal spoke about the importance of value -added program comprising professional & technical skills to make industry ready talent



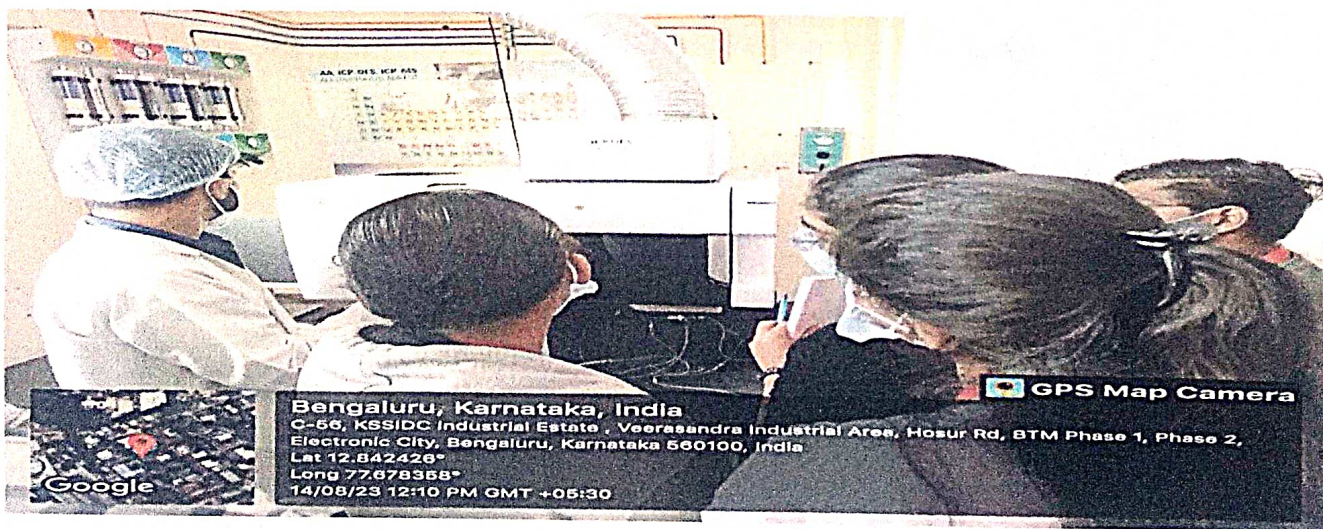
And the resource person gave a very informative session on the working, Principle, sampling, Interpretation and application of Gass chromatography and High-performance liquid chromatography in various industries of different sectors like pharma, Food, oil & paints, Petroleum, perfumery etc





In continuation of value added program On 14<sup>th</sup> August 2023, as to take Hands on experience on practical classes, we visited Enviro Test House, Electronic city, Bengaluru – 560100 and there students gain knowledge about the exposure to Chemical & microbiological analysis and instruments role and analyst role and the technical people of industry shows us the testing of different kinds of water done in industrial laboratory and microbiology laboratory and chemistry laboratory.

In Instrumentation Laboratory two Technical persons of Industry explained about the parts, Instrumentation, demonstration, sample preparation, peak interpretation, software of Gass Chromatography and High performance Liquid chromatography and role in analysis compounds of various sector like Pharma, Fabric, Perfume, oil & Petroleum etc industries and it was very helpful for future role of our students.



At the end of the practical, we all took a group photo with technician of the industry.



### Conclusion:

This type of value-added program with practical classes in industry is a unique skill enhancement program and it was useful for those who get into industry profession, Research profession and who want to be entrepreneur and it is a very excellent kind of enlightening lecture from a resource person and an exposure of industry and industry-ready talent making and our students gained various analytical testing knowledge including R & D Research in Chemistry and Biochemistry.

Overall, it is an excellent informative program with practical exposure in industry.

Event Co-Ordinator: Dr. Hareesh Kumar P

Head- Dr. Vasanth K Bhaskara

Vice-Principal: Dr. Pushpa H

Principal



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

### **Advisory Committee**

**Dr. Vatsala G**, Principal, MSRCASC  
**Dr. Pushpa H**, Vice – Principal

### **Organizing Committee**

**Dr. Prasanna Kumar S G**, Assoc. Prof.  
**Mrs. Malini M R**, Assist. Prof.  
**Dr. Surendra S A**, Asst. Prof.  
**Mrs. Ramya Kumari B.S**, Asst. Prof.  
**Dr. Ashly P.C**, Asst. Prof.  
**Dr. Shashidhar Bharadwaj S**, Asst. Prof.  
**Dr. Bharath K Devendra**, Asst. Prof.  
**Mrs. Smrithi S P**, Asst. Prof.  
**Mrs. Tanisha Ratore**, Asst. Prof.  
**Dr. Nandhini S**, Asst. Prof.  
**Dr. Pamchami H R**, Asst. Prof.  
**Dr. Suveditha**, Asst. Prof.  
**Dr. Ravishanker P N**, Asst. Prof.



### **Patrons**

**Dr. M R Jayaram**  
Hon'ble Chairman, GEF

**Sri. M R Janakiram**

Hon'ble Director, GEF

**Sri. M R Kodandaram**

Hon'ble Director, GEF

**Sri. B S Ramaprasad**

Chief Executive, GEF (Eng. & GS)

**Sri. G Ramachandra**

Chief of Finance, GEF (Eng. & GS)

### **REGISTRATION FEE**

II & IV semester of M.Sc. Chemistry & Biochemistry-  
students (MSRCASC only): ₹1650



Department of Chemistry & Biochemistry  
**M.S. Ramaiah College of Arts, Science  
& Commerce**

**in collaboration with  
Mahawin**

### **Organizing**

**Value added Programme on**

**“Instrumental methods of  
chemical analysis–GC&HPLC-  
QC – Chemist of Industry  
perspective”**

(An IQAC Initiative)

**Date: 11<sup>th</sup> 12<sup>th</sup> & 14<sup>th</sup> August 2023: Venue:  
Mother Theresa Auditorium and Green  
Labs, Electronic City.**

### About the Mahawin

Organization works on performance enhancement on professionally and personally, install value based work culture, enhance happiness, health, success and many more.

### M.S. Ramaiah College of Arts, Science and Commerce (MSRCASC)

M S Ramaiah College of Arts, Science, and Commerce was founded in 1994 by our founder, the late Dr M. S. Ramaiah, and offers both undergraduate and Post Graduate degrees in Arts, Science, Commerce, and Management from Bangalore University. The college is authorised by AICTE in New Delhi and recognised by the Karnataka government. The college is also recognised by UGC under Sections 2(f) and 12(B) of the UGC Act of 1956 and has been re-accredited with an "A" grade by NAAC. Our college is a one-of-a-kind educational institution that has been a pioneer in providing academic excellence. Constantly, we strive to employ innovative teaching methods that will assist and develop our students into future professionals. Our college is a DBT-Star college and The college offers seven UG courses and six PG courses in Arts, Science, and Commerce, to around 3000 students.

### 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.

### About the Program

Department of Chemistry/Biochemistry is organizing Four-day Value added program me on "Instrumental methods of chemical analysis – GC & HPLC of Industrial QC – Instrumentation perspective" for II & IV Semester of M Sc – Chemistry and M Sc – Biochemistry students who are keen in equipping themselves for Research and Industry ready Jobs under knowledge enrichment program me in collaboration with Mahawin and Resource Person is **Dr. Mallesha H Ph. D., PDF ( Japan), MDTD (trg)** who is a Founder Director and Scientist Bengaluru

### Objective

The interdisciplinary team-based Value added Program me on Instrumental methods of chemical analysis – GC & HPLC (QC – Instrumentation Industry perspective one specifically organized for II & IV Semester of M Sc – Chemistry and M Sc – Biochemistry students to improve knowledge for scientific development and maximize opportunities in research and industry-based placements. The workshop included theory concepts, data analysis, and getting complete knowledge of the following instrumental methods of chemical analysis: GC & HPLC studies and more their theory, demonstration and explanation with greater examples.

### Outcome

Applied level understanding on fundamentals and analytical applications of key instruments in Industry of Quality control division such as a Gass Chromatography and HighPerformance Liquid Chromatography (HPLC) and job opportunities in Industries like Pharma, Food, Agri, Petrochemical etc

### Conveners

**Dr. Vasanth kumar Bhaskara**

HOD - Dept. of Chemistry & Biochemistry,

Event Co-Ordinator:

**Dr. Hareesh Kumar P,**

Dept. of Chemistry & Biochemistry, MSRCASC

# ENVIRO TEST HOUSE

(Analytical Testing Laboratory and R & D)

Certified By : ISO 9001 : 2015, ISO 45001 : 2018 & ISO 14001 : 2015

# C-56, KSSIDC Industrial Estate, Veerasandra Industrial Area,  
Electronic City Phase-2, Hosur Road, Bangalore-560 100.

Ph.: 080-2960 0330 Mob.: 98456 65241 E-mail : enquiry2022.eth@gmail.com



Certificate No: ETH/TR/2023-07

Date: 14/08/2023

## CERTIFICATE OF TRAINING:

This is to Certify that; the Students of RAMAIAH COLLEGE have attended the Training on Analytical Instruments (HPLC and GC-MS).

Training topics include-

Hands on experience in, Sample Preparation, Calibration, Method Selection, Sample Analysis for Assay/Purity, Sample Analysis for Identification, Analysis interpretation and Documentation.

The Participants:

SL.NO	NAME	DEPARTMENT
1	Jamuna M.K	M.Sc., Chemistry
2	Rakshitha Bai K	M.Sc., Chemistry
3	Sanjana R	M.Sc., Chemistry
4	Spandana G.R	M.Sc., Chemistry
5	Hriivanai J	M.Sc., Chemistry
6	Yathish Gowda K.S	M.Sc., Chemistry
7	Naveen Kumar R	M.Sc., Chemistry
8	Akhila S	M.Sc., Chemistry
9	Akshay Kumar V	M.Sc., Chemistry
10	Sneha	M.Sc., Chemistry
11	Sinchana K.P	M.Sc., Chemistry
12	Sundar Pavan	M.Sc., Chemistry
13	Anand B	M.Sc., Chemistry
14	Mahesh B.V	M.Sc., Chemistry
15	Dharshan K	M.Sc., Chemistry
16	Dhamini C.N	M.Sc., Bio Chemistry
17	Sulthan Pasha	M.Sc., Bio Chemistry



# ENVIRO TEST HOUSE

(Analytical Testing Laboratory and R & D)

Certified By : ISO 9001 : 2015, ISO 45001 : 2018 & ISO 14001 : 2015

# C-56, KSSIDC Industrial Estate, Veerasandra Industrial Area,  
Electronic City Phase-2, Hosur Road, Bangalore-560 100.

Ph.: 080-2960 0330 Mob.: 98456 65241 E-mail : enquiry2022.eth@gmail.com



18	Amrutha Rangashree	M.Sc., Bio Chemistry
19	Yashaswini K.S	M.Sc., Bio Chemistry
20	Sree Lakshmi E.V	M.Sc., Bio Chemistry
21	Monisha P	M.Sc., Bio Chemistry

Participants has been successfully completed One day training at ENVIRO TEST HOUSE Bangalore lab.

During this period, They have exhibited great interest and enthusiasm.

Wishing them the Best of Luck in future Endeavours.

Approved By

Dr. Sharath Kumar M. N  
Technical Manager  
**Dr. Sharath Kumar M.N**  
M.Sc., Ph.D.,  
Technical Manager  
Enviro Test House  
Bangalore-560100

Authorized By

Deepa G  
Quality Manager  
**QUALITY MANAGER**  
Enviro Test House  
Bangalore-560 100




**M. S. RAMAIAH COLLEGE OF ARTS SCIENCE AND  
COMMERCE  
DEPARTMENT OF CHEMISTRY AND BIOCHEMISTRY**

**Topic: Instrumental methods of chemical analysis-GC&HPLC- QC – Chemist or analyst role of Industry perspective"**

Total no. of students participated: 21

Sl. No.	Register Number	Name of the student	Attendance																	
			9/15	10/15	11/15	12/15	13/15	14/15	15/15	16/15	17/15									
1	P18EV21S0022	JAMUNA MK	P	P	P	P	P	P	P	P										
2	P18EV21S0029	RAKSHITHA BAI K	P	P	P	P	P	P	P	P										
3	P18EV21S0030	SANJANA R	P	P	P	P	P	P	P	P										
4	P18EV21S0051	SPANDANA G R	P	P	P	P	P	P	P	P										
5	P18EV21S0068	HRIIVANAI J	P	P	P	P	P	P	P	P										
6	P18EV22S032001	YATHISH GOWDA K S	P	P	P	P	P	P	P	P										
7	P18EV22S032003	NAVEEN KUMAR R	P	P	P	P	P	P	P	P										
8	P18EV22S032005	AKHILA S	P	P	P	P	P	P	P	P										
9	P18EV22S032006	AKSHAY KUMAR V	P	P	P	P	P	P	P	P										
10	P18EV22S032009	SNEHA	P	P	P	P	P	P	P	P										
11	P18EV22S032012	SINCHANA K P	P	P	P	P	P	P	P	P										
12	P18EV22S032013	SUNDAR PAVAN	P	P	P	P	P	P	P	P										
13	P18EV22S032019	ANAND B	P	P	P	P	P	P	P	P										
14	P18EV22S032020	MAHESH B V	P	P	P	P	P	P	P	P										
15	P18EV22S020002	DHAMINI C N	P	P	P	P	P	P	P	P										
16	P18EV22S020004	SULTHAN PASHA	P	P	P	P	P	P	P	P										
17	P18EV22S020010	AMRUTHA RANGASHREE	P	P	P	P	P	P	P	P										
18	P18EV22S020011	YASHASWINI K S	P	P	P	P	P	P	P	P										
19	P18EV22S020014	SREE LAKSHMI E V	P	P	P	P	P	P	P	P										
20	P18EV22S020016	MONISHA P	P	P	P	P	P	P	P	P										
21		Dharshan K	P	P	P	P	P	P	P	P										

  
Programme coordinator

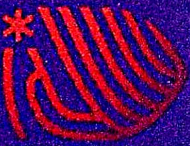
  
Head of the Department

Principal

**M. S. RAMAAIH COLLEGE OF ARTS SCIENCE AND COMMERCE**  
**DEPARTMENT OF CHEMISTRY AND BIOCHEMISTRY**

**Topic: Instrumental methods of chemical analysis–GC&HPLC- QC – Chemist of Industry perspective"**  
**ASSESSMENT MARKS (Theory & Practicals)**

Sl. No.	Register Number	Name of the student	Lab test (5 M)	Assignment (5 M)	Attendance (5 M)	Test (35 M)	Total (50 M)	
1	P18EV21S0 022	JAMUNA MK	05	05	05	31	46	92
2	P18EV21S0 029	RAKSHITHA BAI K	05	05	05	34	49	98
3	P18EV21S0 030	SANJANA R	05	05	05	34	49	98
4	P18EV21S0 051	SPANDANA G R	05	05	05	34	49	98
5	P18EV21S0 068	HRIIVANAI J	04	04	04	12	33	
6	P18EV22S 032001	YATHISH GOWDA K S	04	04	04	24	36	72
7	P18EV22S 032003	NAVEEN KUMAR R	05	05	04	33	47	94
8	P18EV22S 032005	AKHILA S	05	05	04	34	48	96
9	P18EV22S 032006	AKSHAY KUMAR V	04	04	04	24	36	72
10	P18EV22S 032009	SNEHA	05	05	05	33	48	96
11	P18EV22S 032012	SINCHANA K P	05	05	05	34	49	98
12	P18EV22S 032013	SUNDAR PAVAN	05	05	05	28	43	86
13	P18EV22S 032019	ANAND B	05	05	04	25	39	78
14	P18EV22S 032020	MAHESH B V	05	05	04	34	48	96
15	P18EV22S 020002	DHAMINI C N	05	05	05	33	48	96
16	P18EV22S 020004	SULTHAN PASHA	05	05	05	34	49	98
17	P18EV22S 020010	AMRUTHA RANGASHREE	05	05	05	30	45	90
18	P18EV22S 020011	YASHASWINI K S	05	05	05	34	49	98
19	P18EV22S	SREE LAKSHMI	05	05	05	34	49	98



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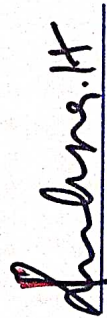


# *Certificate of VAP Course Completion*

With consolidated score of 96 %

**Akhila S**

of **M.S. Ramaiah College of Arts, Science and Commerce** for successfully completed Value added Program on "*Instrumental methods of chemical analysis-GC & HPLC – QC – Chemist or Analyst – Industry Perspective*" which was conducted by Department of Chemistry/Biochemistry, M. S. Ramaiah College of Arts, Science and Commerce, Bengaluru in collaboration with Mahawin Bengaluru-560054, Karnataka on 11<sup>th</sup> 12<sup>th</sup> & 14<sup>th</sup> August, 2023.

  
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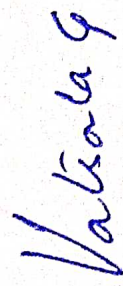
**Dr. Pushpa H**  
Vice - Principal  
MSRCASC

  
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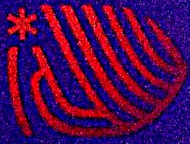
**Dr. Vasanth K Bhaskara**  
Head,  
Department of Chemistry/Biochemistry

  
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**Dr. Mallesha H**  
Founder & Scientist,  
Mahawin

  
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**Dr. Vatasala G**  
Principal,  
MSRCASC



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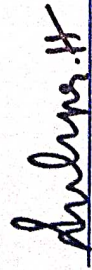


# Certificate of *VAF* Course Completion

With consolidated score of 72 %

**Yathish Gowda K S**

of **M.S. Ramaiah College of Arts, Science and Commerce** for successfully completed Value added Program on "*Instrumental methods of chemical analysis-GC & HPLC – QC – Chemist or Analyst – Industry Perspective*" which was conducted by Department of Chemistry/Biochemistry, M. S. Ramaiah College of Arts, Science and Commerce, Bengaluru in collaboration with Mahawin Bengaluru-560054, Karnataka on 11<sup>th</sup> 12<sup>th</sup> & 14<sup>th</sup> August, 2023.

  
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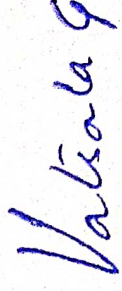
**Dr. Pushpa H**  
Vice - Principal  
MSRCASC

  
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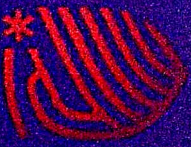
**Dr. Vasanth K Bhaskara**  
Head,  
Department of Chemistry/Biochemistry

  
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**Dr. Mallesha H**  
Founder & Scientist,  
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**Dr. Vatasala G**  
Principal,  
MSRCASC



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# *Certificate of VADP Course Completion*

With consolidated score of 98 %

**Yashaswini KS**

of **M.S. Ramaiah College of Arts, Science and Commerce** for successfully completed Value added Program on "*Instrumental methods of chemical analysis-GC & HPLC – QC – Chemist or Analyst – Industry Perspective*" which was conducted by Department of Chemistry/Biochemistry, M. S. Ramaiah College of Arts, Science and Commerce, Bengaluru in collaboration with Mahawin Bengaluru-560054, Karnataka on 11<sup>th</sup> 12<sup>th</sup> & 14<sup>th</sup> August, 2023.



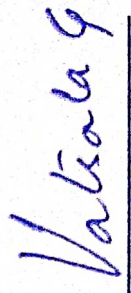
**Dr. Pushpa H**  
Vice - Principal  
MSRCASC



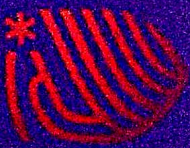
**Dr. Vasanth K Bhaskara**  
Head,  
Department of Chemistry/Biochemistry



**Dr. Mallesha H**  
Founder & Scientist,  
Mahawin



**Dr. Vatasala G**  
Principal,  
MSRCASC



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# Certificate of *VAPP* Course Completion

With consolidated score of 98 %

**Sulthan Pasha**

of **M.S. Ramaiah College of Arts, Science and Commerce** for successfully completed Value added Program on "*Instrumental methods of chemical analysis-GC & HPLC – QC – Chemist or Analyst – Industry Perspective*" which was conducted by Department of Chemistry/Biochemistry, M. S. Ramaiah College of Arts, Science and Commerce, Bengaluru in collaboration with Mahawin Bengaluru-560054, Karnataka on 11<sup>th</sup> 12<sup>th</sup> & 14<sup>th</sup> August, 2023.

*Pushpa H*

Dr. Pushpa H  
Vice - Principal  
MSRCASC

*Vasanth K Bhaskara*

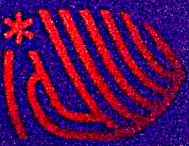
Dr. Vasanth K Bhaskara  
Head,  
Department of Chemistry/Biochemistry

*Mallesha H*

Dr. Mallesha H  
Founder & Scientist,  
Mahawin

*Vatasala G*

Dr. Vatasala G  
Principal,  
MSRCASC



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# *Certificate of VADP Course Completion*

With consolidated score of 98 %

**Spandana GR**

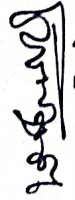
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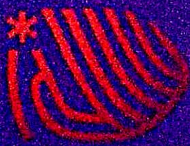


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# *Certificate of VADP Course Completion*

With consolidated score of 98 %

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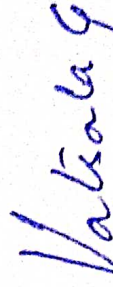
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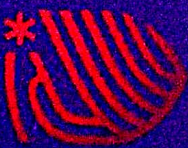
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# Certificate of *VAF* Course Completion

With consolidated score of 98 %

**Rakshitha Bai K**

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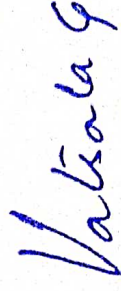
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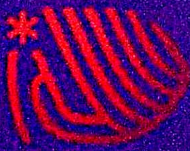
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Department of Chemistry/Biochemistry

  
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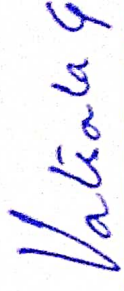
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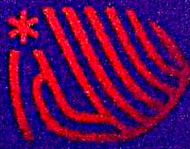
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With consolidated score of 92 %

**Jamuna MK**

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*Pushpa H*

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*Vasanth K Bhaskara*

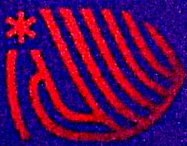
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*Vatasala G*

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With consolidated score of 78 %

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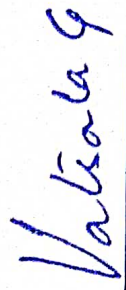
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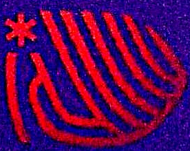
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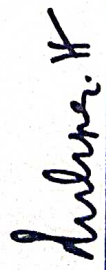
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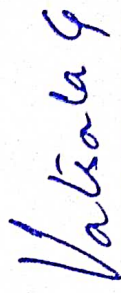
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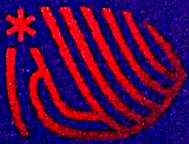
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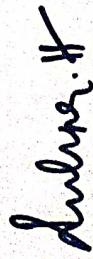


# *Certificate of VAD Course Completion*

With consolidated score of 72 %

**Akshay Kumar V**

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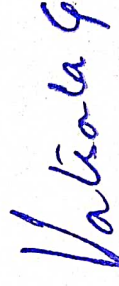
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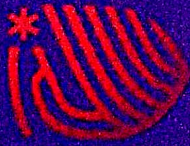
**Dr. Vasanth K Bhaskara**  
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Department of Chemistry/Biochemistry



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# *Certificate of VAD Course Completion*

With consolidated score of 86 %

**Sundar Pavan**

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*Dulpa.H*

Dr. Pushpa H  
Vice - Principal  
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*[Signature]*

Dr. Vasanth K Bhaskara  
Head,  
Department of Chemistry/Biochemistry

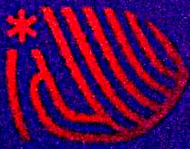
*[Signature]*

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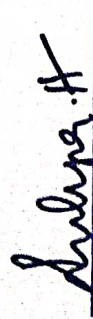


# Certificate of *VHP* Course Completion

With consolidated score of 98 %

**Sree Lakshmi EV**

of **M.S. Ramaiah College of Arts, Science and Commerce** for successfully completed Value added Program on "*Instrumental methods of chemical analysis-GC & HPLC – QC – Chemist or Analyst – Industry Perspective*" which was conducted by Department of Chemistry/Biochemistry, M. S. Ramaiah College of Arts, Science and Commerce, Bengaluru in collaboration with Mahawin Bengaluru-560054, Karnataka on 11<sup>th</sup> 12<sup>th</sup> & 14<sup>th</sup> August, 2023.

  
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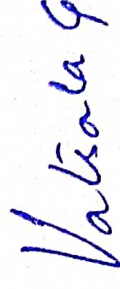
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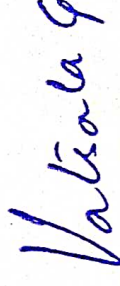
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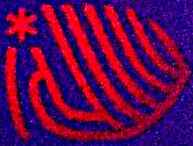
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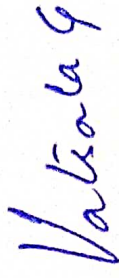
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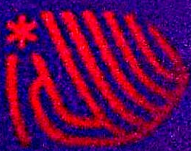
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With consolidated score of 98 %

**Sanjana R**

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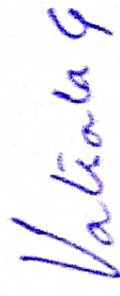
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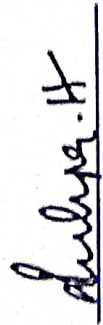


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**Naveen Kumar R**

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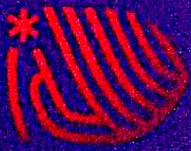
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**Mahesh BV**

of **M.S. Ramaiah College of Arts, Science and Commerce** for successfully completed Value added Program on "*Instrumental methods of chemical analysis-GC & HPLC – QC – Chemist or Analyst – Industry Perspective*" which was conducted by Department of Chemistry/Biochemistry, M. S. Ramaiah College of Arts, Science and Commerce, Bengaluru in collaboration with Mahawin Bengaluru-560054, Karnataka on 11<sup>th</sup> 12<sup>th</sup> & 14<sup>th</sup> August, 2023.



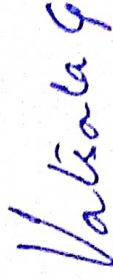
**Dr. Pushpa H**  
Vice - Principal  
MSRCASC



**Dr. Vasanth K Bhaskara**  
Head,  
Department of Chemistry/Biochemistry



**Dr. Mallesha H**  
Founder & Scientist,  
Mahawin



**Dr. Vatasala G**  
Principal,  
MSRCASC



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

**M S Ramaiah College of Arts, Science & Commerce**  
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Approved by Government of Karnataka, Approved by AICTE, New Delhi,  
Recognised under 2(f) and 12 B of UGC act, 1956.  
Ranked 62<sup>nd</sup> in NIRF India ranking by Ministry of Education, Government of India.



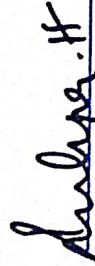
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# Certificate of *VAF* Course Completion

With consolidated score of 65 %

**Hriivanaij**

of **M.S. Ramaiah College of Arts, Science and Commerce** for successfully completed Value added Program on "*Instrumental methods of chemical analysis-GC & HPLC – QC – Chemist or Analyst – Industry Perspective*" which was conducted by Department of Chemistry/Biochemistry, M. S. Ramaiah College of Arts, Science and Commerce, Bengaluru in collaboration with Mahawin Bengaluru-560054, Karnataka on 11<sup>th</sup> 12<sup>th</sup> & 14<sup>th</sup> August, 2023.

  
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**Dr. Pushpa H**  
Vice - Principal  
MSRCASC

  
\_\_\_\_\_

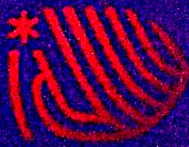
**Dr. Vasanth K Bhaskara**  
Head,  
Department of Chemistry/Biochemistry

  
\_\_\_\_\_

**Dr. Mallesha H**  
Founder & Scientist,  
Mahawin

  
\_\_\_\_\_

**Dr. Vatasala G**  
Principal,  
MSRCASC



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Recognised under 2(f) and 12 B of UGC act 1956.  
Ranked 62<sup>nd</sup> in NIRF India ranking by Ministry of Education, Government of India.



# Certificate of *VAF* Course Completion

With consolidated score of 96 %

**Dhamini CN**

of **M.S. Ramaiah College of Arts, Science and Commerce** for successfully completed Value added Program on "*Instrumental methods of chemical analysis-GC & HPLC – QC – Chemist or Analyst – Industry Perspective*" which was conducted by Department of Chemistry/Biochemistry. M. S. Ramaiah College of Arts, Science and Commerce, Bengaluru in collaboration with Mahawin Bengaluru-560054, Karnataka on 11<sup>th</sup> 12<sup>th</sup> & 14<sup>th</sup> August, 2023.

  
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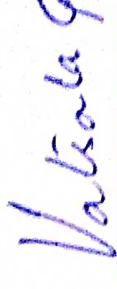
Dr. Pushpa H  
Vice - Principal  
MSRCASC

  
\_\_\_\_\_

Dr. Vasanth K Bhaskara  
Head,  
Department of Chemistry/Biochemistry

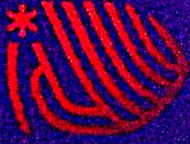
  
\_\_\_\_\_

Dr. Mallesha H  
Founder & Scientist,  
Mahawin

  
\_\_\_\_\_

Dr. Vatasala G  
Principal,  
MSRCASC





**Ramaiah  
College of Arts, Science  
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(Re-accredited "A" by NAAC, affiliated to Bengaluru City University,  
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Recognised under 2(f) and 12 B of UGC act 1956.  
Ranked 62<sup>nd</sup> in NIRF India ranking by Ministry of Education, Government of India.



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# *Certificate of VAP Course Completion*

With consolidated score of 90 %

**Amrutha Rangashree**

of **M.S. Ramaiah College of Arts, Science and Commerce** for successfully completed Value added Program on "*Instrumental methods of chemical analysis-GC & HPLC – QC – Chemist or Analyst – Industry Perspective*" which was conducted by Department of Chemistry/Biochemistry, M. S. Ramaiah College of Arts, Science and Commerce, Bengaluru in collaboration with Mahawin Bengaluru-560054, Karnataka on 11<sup>th</sup> 12<sup>th</sup> & 14<sup>th</sup> August, 2023.



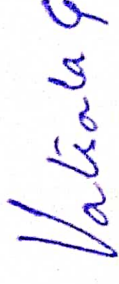
**Dr. Pushpa H**  
Vice - Principal  
MSRCASC



**Dr. Vasanth K Bhaskara**  
Head,  
Department of Chemistry/Biochemistry



**Dr. Mallesha H**  
Founder & Scientist,  
Mahawin



**Dr. Vatasala G**  
Principal,  
MSRCASC

M. S. RAMAIAH COLLEGE OF ARTS SCIENCE AND COMMERCE  
DEPARTMENT OF CHEMISTRY AND BIOCHEMISTRY

Topic: Instrumental methods of chemical analysis-GC&HPLC- QC – Chemist of Industry perspective"

FEEDBACK FORM

Name of the student: Arivani. J

Course: MSc. Organic Chemistry

Semester: IV Semester

Date: 23/08/23

Feedback: It was a refreshers course to learn in details about GC and HPLC theoretically and also practically. The industrial visit was worth it. But in addition, if hands on training was included, it would have been amazing. Overall experience was good.

Signature of the student: Arivani. J

M. S. RAMAIAH COLLEGE OF ARTS SCIENCE AND COMMERCE  
DEPARTMENT OF CHEMISTRY AND BIOCHEMISTRY

Topic: Instrumental methods of chemical analysis-GC&HPLC- QC – Chemist of Industry perspective"

FEEDBACK FORM

Name of the student: Monisha.p

Course: Biochemistry (MSc)

Semester: 2<sup>nd</sup> Sem

Date: 18/8/23.

Feedback:

It was a nice experience in this Company. I learnt so many things from this visit. The difference b/w Reality & theory was the main thing i learnt. Thank You for this Sir.

Signature of the student: Monisha.p

M. S. RAMAIAH COLLEGE OF ARTS SCIENCE AND COMMERCE  
DEPARTMENT OF CHEMISTRY AND BIOCHEMISTRY

Topic: Instrumental methods of chemical analysis-GC&HPLC- QC – Chemist of Industry perspective"

FEEDBACK FORM


Name of the student: Sneha

Course: M.Sc - Organic Chemistry

Semester: II

Date: 16/8/23

Feedback: Industrial visit was good and helpful.  
But the quality of theory classes can be improved  
and made a little more advanced.

  
Signature of the student:

M. S. RAMAIAH COLLEGE OF ARTS SCIENCE AND COMMERCE  
DEPARTMENT OF CHEMISTRY AND BIOCHEMISTRY

Topic: Instrumental methods of chemical analysis-GC&HPLC- QC - Chemist of Industry perspective"

FEEDBACK FORM

Name of the student: DHARSHAN. K.

Course: MSc Organic chemistry

Semester: 3<sup>rd</sup> Semester

Date: 16/08/2023.

Feedback: With respect to job and interview part theory classes was good and Remaining for GC and HPLC it was not Satisfactory in theory class.  
\* Industrial vi sit was satisfactory and worthy.

Signature of the student: *Dharshan K.*

M. S. RAMAIAH COLLEGE OF ARTS SCIENCE AND COMMERCE  
DEPARTMENT OF CHEMISTRY AND BIOCHEMISTRY

'Topic: Instrumental methods of chemical analysis-GC&HPLC- QC - Chemist of Industry perspective'

FEEDBACK FORM

Name of the student: Akhila . S.

Course: M.Sc, Organic Chemistry.

Semester: II Sem

Date: 16/8/23

Feedback: The industrial visit gave me an insight of the practical knowledge particularly Industrial knowledge about HPLC, GC, UV-vis spectroscopy, waste water treatment; analysis of various water samples which were not covered in the theory. The only negative feedback it that the water analysis (TDS, pH, metry & other methods) told in the labs could have been included for theory also.

Signature of the student:

Akhila S.

M. S. RAMAIAH COLLEGE OF ARTS SCIENCE AND COMMERCE  
DEPARTMENT OF CHEMISTRY AND BIOCHEMISTRY

Topic: Instrumental methods of chemical analysis—GC&HPLC- QC – Chemist of Industry perspective"

FEEDBACK FORM

Name of the student: Anand.B

Course: M.Sc (Organic chemistry)

Semester: II sem

Date: 16-08-2023

Feedback: It is good for visiting industry will understand the how they will work. It is helpful to understanding.

Anand.B  
Signature of the student:

M. S. RAMAIAH COLLEGE OF ARTS SCIENCE AND COMMERCE  
DEPARTMENT OF CHEMISTRY AND BIOCHEMISTRY

Topic: Instrumental methods of chemical analysis-GC&HPLC- QC - Chemist of Industry perspective"

FEEDBACK FORM

Name of the student: Srinjana K.P

Course: MSc organic chemistry

Semester: 2nd

Date: 16/8/23

Feedback: Overall session was good, but we required still more time for industry visit & could have been more better if other instrumentation methods were taught.

Signature of the student:

K. P. Srinjana



M. S. RAMAIAH COLLEGE OF ARTS SCIENCE AND COMMERCE  
DEPARTMENT OF CHEMISTRY AND BIOCHEMISTRY

Topic: Instrumental methods of chemical analysis-GC&HPLC- QC - Chemist of  
Industry perspective"

FEEDBACK FORM

Name of the student: MAHESH B V

Course: MSc TDC

Semester: II<sup>nd</sup> semester

Date: 16/08/23

Feedback: I'm ~~experi~~

I learnt how the HPLC and GC has been oper-  
ated. and It's a good opportunity to learn. I  
felt very happy for providing this VAP course  
Mahesh. B V to me.

Signature of the student:

M. S. RAMAAIH COLLEGE OF ARTS SCIENCE AND COMMERCE  
DEPARTMENT OF CHEMISTRY AND BIOCHEMISTRY

Topic: Instrumental methods of chemical analysis—GC&HPLC- QC – Chemist of Industry perspective"

FEEDBACK FORM

Name of the student: Akshay Kumar.V.

Course: MSc Organic Chemistry

Semester: II<sup>nd</sup> Semester

Date: 16/8/2023

Feedback: Program was good, but one request is for next time please do increase the practical (Industrial visit days) than theory.

Signature of the student: Akshay Kumar.V.

M. S. RAMAIAH COLLEGE OF ARTS SCIENCE AND COMMERCE  
DEPARTMENT OF CHEMISTRY AND BIOCHEMISTRY

Topic: Instrumental methods of chemical analysis-GC&HPLC- QC - Chemist of Industry perspective"

FEEDBACK FORM

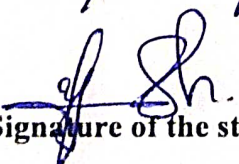
Name of the student: YATHISH Gowda K.S

Course: organic chemistry

Semester: ~~sem~~ 2sem

Date: 16/8/23

Feedback: It helps a lot to learn about the HPLC and GC. How it will work and lot of use full to me.

  
Signature of the student:

M. S. RAMAIAH COLLEGE OF ARTS SCIENCE AND COMMERCE  
DEPARTMENT OF CHEMISTRY AND BIOCHEMISTRY

Topic: Instrumental methods of chemical analysis-GC&HPLC- QC - Chemist of Industry perspective"

FEEDBACK FORM

Name of the student: Sundar Pravan

Course: MSc organic chemistry

Semester: II sem

Date: 16/8/23

Feedback: The overall experience was good, the industry visit was the most interesting part and would like to go for more industry visits

Signature of the student: Pravan S

M. S. RAMAIAH COLLEGE OF ARTS SCIENCE AND COMMERCE  
DEPARTMENT OF CHEMISTRY AND BIOCHEMISTRY

Topic: Instrumental methods of chemical analysis-GC&HPLC- QC – Chemist of Industry perspective"

FEEDBACK FORM

Name of the student: Naveen

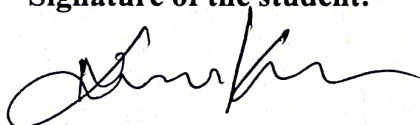
Course: MSc (Organic Chemistry)

Semester: II Semester

Date: 16/8/23

Feedback: Got Instrumental knowledge. & How to Handle Instrument & How to maintain Instrument & working of an Instrument.

Signature of the student:



M. S. RAMAAIH COLLEGE OF ARTS SCIENCE AND COMMERCE  
DEPARTMENT OF CHEMISTRY AND BIOCHEMISTRY

Topic: Instrumental methods of chemical analysis-GC&HPLC- QC – Chemist of  
Industry perspective"

FEEDBACK FORM

Name of the student: SULTHAN PASHA

Course: MSc

Semester: II

Date: 16:08:2023

Feedback: The VAP was educational and helpful in understanding the challenges in interview and working in laboratories. The industrial visit is highly valuable in understanding the instrumentation and work culture.

Signature of the student:

M. S. RAMAIAH COLLEGE OF ARTS SCIENCE AND COMMERCE  
DEPARTMENT OF CHEMISTRY AND BIOCHEMISTRY

Topic: Instrumental methods of chemical analysis-GC&HPLC- QC – Chemist of Industry perspective"

FEEDBACK FORM

Name of the student: Yashaswini K.S

Course: Biochemistry

Semester: M.Sc II

Date: 16/8/23

Feedback: It was good but we need some kind of time to learn, the industrial visit should be more days.

Signature of the student:



M. S. RAMAIAH COLLEGE OF ARTS SCIENCE AND COMMERCE  
DEPARTMENT OF CHEMISTRY AND BIOCHEMISTRY

Topic: Instrumental methods of chemical analysis—GC&HPLC- QC – Chemist of Industry perspective"

FEEDBACK FORM

Name of the student: Sreelakshmi. EV

Course: Msc biochemistry

Semester: 2nd semester.

Date: 16/8/2023

Feedback:

The theory part and Industry visiting both are very informational. It help to know more about HPLC and GC in quality control the explanation, hom and useful. Industry in very clear

Signature of the student:





M. S. RAMAIAH COLLEGE OF ARTS SCIENCE AND COMMERCE  
DEPARTMENT OF CHEMISTRY AND BIOCHEMISTRY

Topic: Instrumental methods of chemical analysis-GC&HPLC- QC – Chemist of Industry perspective"

FEEDBACK FORM

Name of the student: Januma M. K

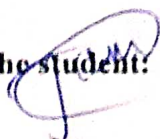
Course: MSC

Semester: IV

Date: 16/8/23

Feedback: It was a nice experience in VAP classes and i got to learn more here. Thank you

Signature of the student:



M. S. RAMAATH COLLEGE OF ARTS SCIENCE AND COMMERCE  
DEPARTMENT OF CHEMISTRY AND BIOCHEMISTRY

'Topic: Instrumental methods of chemical analysis-GC&HPLC- QC - Chemist of Industry perspective'

FEEDBACK FORM

Name of the student: Dhamini. G.N

Course: Msc. biochemistry

Semester: II semester

Date: 16/09/2023

Feedback: The career development and mindskill provided by the resource person was helpful to apply in my life.

-The industrial exposure was really helpful in making the connection between academic and industrial application

-The minute details was well explained at the

Signature of the student:

Dhamini

Enviro test house.

M. S. RAMAIAH COLLEGE OF ARTS SCIENCE AND COMMERCE  
DEPARTMENT OF CHEMISTRY AND BIOCHEMISTRY

Topic: Instrumental methods of chemical analysis-GC&HPLC- QC – Chemist of Industry perspective"

FEEDBACK FORM

Name of the student: Amrutha Rangashree

Course: MSc Biochemistry

Semester: II semester

Date: 16/Aug/23

Feedback: Satisfied with [enviro test house visit]  
2 days theory class was not that great.

Rangashree

Signature of the student:

M. S. RAMAIAH COLLEGE OF ARTS SCIENCE AND COMMERCE,  
DEPARTMENT OF CHEMISTRY AND BIOCHEMISTRY

Topic: Instrumental methods of chemical analysis—GC&HPLC- QC – Chemist of  
Industry perspective"

FEEDBACK FORM

Name of the student: SPANDANA.C.R .

Course: MSc.

Semester: IV SEMESTER.

Date: 16/8/23

Feedback: There was more of theoretical knowledge,  
handson training would be more beneficial.

Signature of the student: Spandana.C.R..

M. S. RAMAIAH COLLEGE OF ARTS SCIENCE AND COMMERCE  
DEPARTMENT OF CHEMISTRY AND BIOCHEMISTRY

Topic: Instrumental methods of chemical analysis-GC&HPLC- QC – Chemist of Industry perspective"

FEEDBACK FORM

Name of the student: SANJANA R

Course: MSc OC


Semester: IV

Date: 16/08/2023

Feedback:

It was ~~an~~ amazing & informative value added program.

Signature of the student:



M. S. RAMAIAH COLLEGE OF ARTS SCIENCE AND COMMERCE  
DEPARTMENT OF CHEMISTRY AND BIOCHEMISTRY

Topic: Instrumental methods of chemical analysis-GC&HPLC- QC - Chemist of Industry perspective"

FEEDBACK FORM

Name of the student: RAKSHITHA BAI - K .

Course: MSc OC

Semester: IV .

Date: 16/08/2023 .

Feedback:

It was good & informative program which will be helpful in future.

Signature of the student:

Rakshitha Bai K



**M. S. RAMAIAH COLLEGE OF ARTS SCIENCE AND  
COMMERCE**

**DEPARTMENT OF CHEMISTRY AND BIOCHEMISTRY**

**Topic: Instrumental methods of Chemical analysis – QC – chemist of Industrial Perspective**

Sl. No.	Register Number	Name of the student	Course	E-mail id	Phone number
1	P18EV21S0022	JAMUNA MK	MSc. OC	jamunajam872@gmail.com	9538111720
2	P18EV21S0029	RAKSHITHA BAI K	MSc. OC	rakshithabai.k10@gmail.com	8970535332
3	P18EV21S0030	SANJANA R	MSc. OC	sanjanaramesh1512@gmail.com	7619667026
4	P18EV21S0051	SPANDANA G R	MSc. OC	Spandanag10@gmail.com	7618727185
5	P18EV21S0068	HRIIVANAI J	MSc. OC	Hriivadu@gmail.com	7085788043
6	P18EV22S032001	YATHISH GOWDA K S	MSc. OC	yathishgowdak@gmail.com	7483546600
7	P18EV22S032003	NAVEEN KUMAR R	Msc [oc]	naveenkumadr372@gmail.com	8296280116
8	P18EV22S032005	AKHILA S	M.Sc OC	akhila13801@gmail.com	8660596048
9	P18EV22S032006	AKSHAY KUMAR V	MSc OC	iamakshaykumar.2000@gmail.com	9611906681
10	P18EV22S032009	SNEHA	M.Sc OC	barmasneha01@gmail.com	9901316239
11	P18EV22S032012	SINCHANA K P	M.Sc OC	Sinchanaaryaven01@gmail.com	9901780854
12	P18EV22S032013	SUNDAR PAVAN	M.Sc [OC]	pavansundar901@gmail.com	9901015524
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14	P18EV22S032020	MAHESH B V	MSc [OC]	maheshmahesh85655@gmail.com	9880863049
15	P18EV22S020002	DHAMINI C N	MSc (Biochem)	dhamininarayan@gmail.com	7483230427
16	P18EV22S020004	SULTHAN PASHA	MSc (Biochem)	Sulthanh1100@gmail.com	8310194869
17	P18EV22S020010	AMRUTHA RANGASHREE	MSc (Biochem)	rangashree@gmail.com	9108976049
18	P18EV22S020011	YASHASWINI K S	Msc [Biochem]	yashaswinikes8187@gmail.com	8867208245
19	P18EV22S020014	SREE LAKSHMI E V	MSc (Biochem)	Sreelakshminair621@gmail.com	9074950848
20	P18EV22S020016	MONISHA P	MSc (Biochem)	Monishap257@gmail.com	8792055275
21	P18EV22S032018	DHARSHAN K.	MSc [OC]	dharsandharshank2066@gmail.com	8088770152



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



## Department of Chemistry & Biochemistry

**INAUGURATION OF A VALUE-ADDED PROGRAM ON**  
Instrumental Methods of chemical analysis  
- QC - Chemist or Analyst role In Industry Perspective  
[ An IQAC Initiative ]



**FRIDAY**

11th August 2023



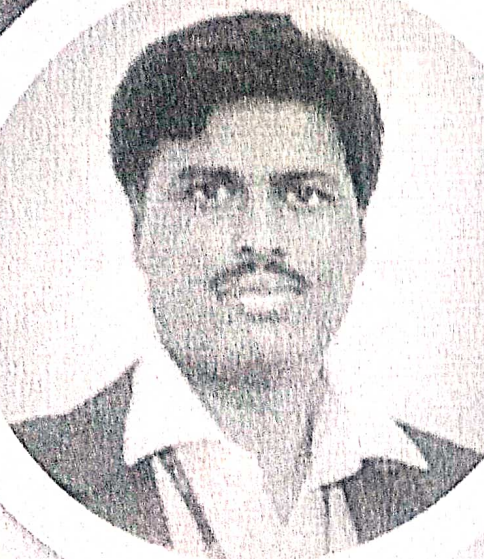
**TIME**

10:00 AM



**VENUE**

Sir. M.  
Visveshwaraiah  
Auditorium



**RESOURCE PERSON**

**Dr. Mallesha H**

M Sc., M Phil., Ph. D., PDF (Japan), MDTD (trg)  
Founder Director and Scientist: Mahawin,  
Bengaluru, Karnataka

**Dr. Vatsala G**  
Principal

**Dr. Pushpa H**  
Vice - Principal

**Dr. Vasanth K Bhaskara**  
HOD of Chemistry/Biochemistry

**Event Co-Ordinator:**  
**Dr. Hareesh Kumar P**



## Department of Chemistry and Biochemistry

### Inauguration Function

### Value added Programme schedule

Programme Sequence	In-charge
Anchor	Mrs. Tanisha Rathore: Assistant Professor Department of Chemistry & Biochemistry
Ramaiah Anthem	
Invocation song	Sanjana R: M Sc – Chemistry IV Semester
Welcome address	Dr. Vasanth K Bhaskara: HOD – Chemistry & Biochemistry
About the VAP	Dr. Pushpa H: Vice - Principal
Presidential note	Dr. Vatsala G: Principal
Introducing Speaker	Dr. Suveditha: Assistant Professor: Department of Chemistry & Biochemistry
Resource Person	Dr. Mallesha H M Sc., M Phil., Ph. D, PDF (Japan), MDTd(training) Director & Scientist- Mahawin Topic: Importance of Quality control in various industries
Question and answer	
Vote of thanks	Amrutha Rangashree: M Sc – Biochemistry: II Semester
National anthem	
Student feedback	
Venue: Sir M V Auditorium & Green Labs, Electronic City, Bengaluru Date: 11 <sup>th</sup> 12 <sup>th</sup> and 14 <sup>th</sup> August 2023	Time: 9:30 – 4:30



# Dr. H. Mallesha

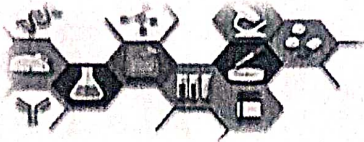
M.Sc., M.Phil., Ph.D., PDF (Japan), MDTD (Trig.)  
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Lead Certified Trainer  
Mahawin Education & Research (R)

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### Contact Details

+91-98454 10691 | info@mahawin.in | www.mahawin.in | malleshappy@gmail.com



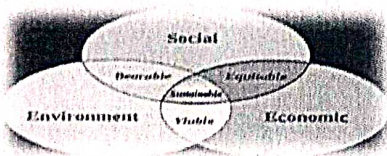
Drug Discovery  
Anti-Cancer



Herbal Extracts and Finished Products  
Health, Personal & Home Care



Diagnostics  
Adulterant and Disease Diagnosis



Environment and Food  
Analytical – Research – Product



Pharmaceutical Products  
NCEs, Intermediates and APIs



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- Project Guide for Graduate student (36+ Dissertations)
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- Mind Transformation Program (>5000 public + others)

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