



Department: DEPARTMENT OF BIOCHEMISTRY

Program: One Day Hands on Workshop on High Performance Liquid Chromatography

Date: 27.05.2023

Time: 9:30 am onwards

Organizers: Department of Biochemistry, MMK and SDM Mahila Mahavidyalaya in association with DOS in Biochemistry, Pooja Bhagavat Memorial Mahajana Education Center, Mysuru

Beneficiaries: 30 III BSc BMBt students and 05 II BSc Biochemistry students. Totally 36 students

Venue: R & D Laboratory, Pooja Bhagavat Memorial Mahajana Education Center, Mysuru

Convenor: Dr. Girish Chandran, Course Coordinator, DOS in Biochemistry, Pooja Bhagvat Memorial Mahajana Education Center

Coordinator: Dr. Wethroe Kapfo, Assistant Professor and Head, Department of Biochemistry, MMK and SDM MMV, Mysuru

Resource Persons:

1. Dr. Wethroe Kapfo 2. Dr. Girish Chandran 3. Dr. Chaitanya Pandit

Introduction: High Performance Liquid Chromatography (HPLC) is one of the advanced column chromatography techniques that is used to separate and identify compounds from a mixture, determine the purity of the compound and quantify the concentration of the compound. The skill is a fundamental technique used in research and industry therefore providing a wide scope for the student.

Program Objectives:

1. To provide a platform for the biochemistry students to learn the technique of High Performance Liquid Chromatography as part of skill development program
2. To expose the students the applications and scope of learning the skill.

Program Details:

1. Theory session: The Workshop began with the theory session on the principle of HPLC. Dr. Girish Chandran explained the working principle, applications and scope in detail.
2. Practical session: Followed by the theory session, Dr. Wethroe Kapfo and Dr. Chaitanya Pandit conducted the practical sessions on preparation of the mobile phase and sample preparation. Dr. Girish Chandran demonstrated the working of the HPLC machine and each student was given the opportunity to inject the sample. The students were divided into 4 groups.
3. Conclusion of program: After the practical session, the students were taught how to calculate the concentration of the compound using the peak area pixels. A recap quiz was conducted and prizes were given to students who scored 8/10 and above.


Program Outcomes:

The workshop provided a hands- on exposure of HPLC to the students. The principle and application of the HPLC were effectively communicated. The workshop was a program conducted under the MOU between MMK and SDM MMV and DOS in Lifescience, PBMMEC, Mysuru. 91% of the students were satisfied with the workshop,


PRINCIPAL

**MMK & SDM Mahila Mahavidyalaya
Krishnamurthyapuram, Mysuru-570 004**

Photo Gallery



ಪೂಜಾ ಭಾಗವತ್ ಸ್ಮಾರಕ ಮಹಾಜನ ವಿದ್ಯಾ ಸಂಸ್ಥೆ
Pooja Bhagavat Memorial Mahajana Education Centre
PG wing of SBRR Mahajana First Grade College (Autonomous)
K.R.S. Road, Metagalli, Mysuru-570016



Department of Studies in Biochemistry
School of Life Sciences
and
Department of Biochemistry and IQAC
Mysuru Makkala Koota & Shri Dharmasthala
Manjunatheshwara Mahila Mahavidyalaya
Krishnamurthypuram, Mysuru-570004
Jointly present

One day hands-on workshop on
High Performance Liquid Chromatography (HPLC)

27th May 2023**Venue: R & D Laboratory, PBMMEC, Mysuru**

Coordinator
Dr. Wethroe Kapfo
Asst Prof & HOD
Dept of Biochemistry, MDK SDM

Convener
Dr. Girish Chandran
Coordinator-Biochemistry
School of Life Sciences, PBMMEC

Dr. S. R. Ramesh
Chief Scientist
School of Life Sciences
PBMMEC, Mysuru

Prof. Sainath Malligemadu
Principal
MDK SDM College
Mysuru

Dr. C.K. Renukanya
Director
PBMMEC
Mysuru

Flyer of the event


PRINCIPAL
MMK & SDM Mahila Mahavidyalaya
Krishnamurthypuram, Mysuru-570 004

Events of the workshop



GPS Map Camera



Mysuru, Karnataka, India

9J6H+WJM, Metagalli, Mysuru, Karnataka 570003, India

Lat 12.362962°

Long 76.629076°

27/05/23 10:03 AM GMT +05:30

Theory Session on “Principle, Instrumentation and Applications of HPLC” by Dr. Girish Chandran

PRINCIPAL

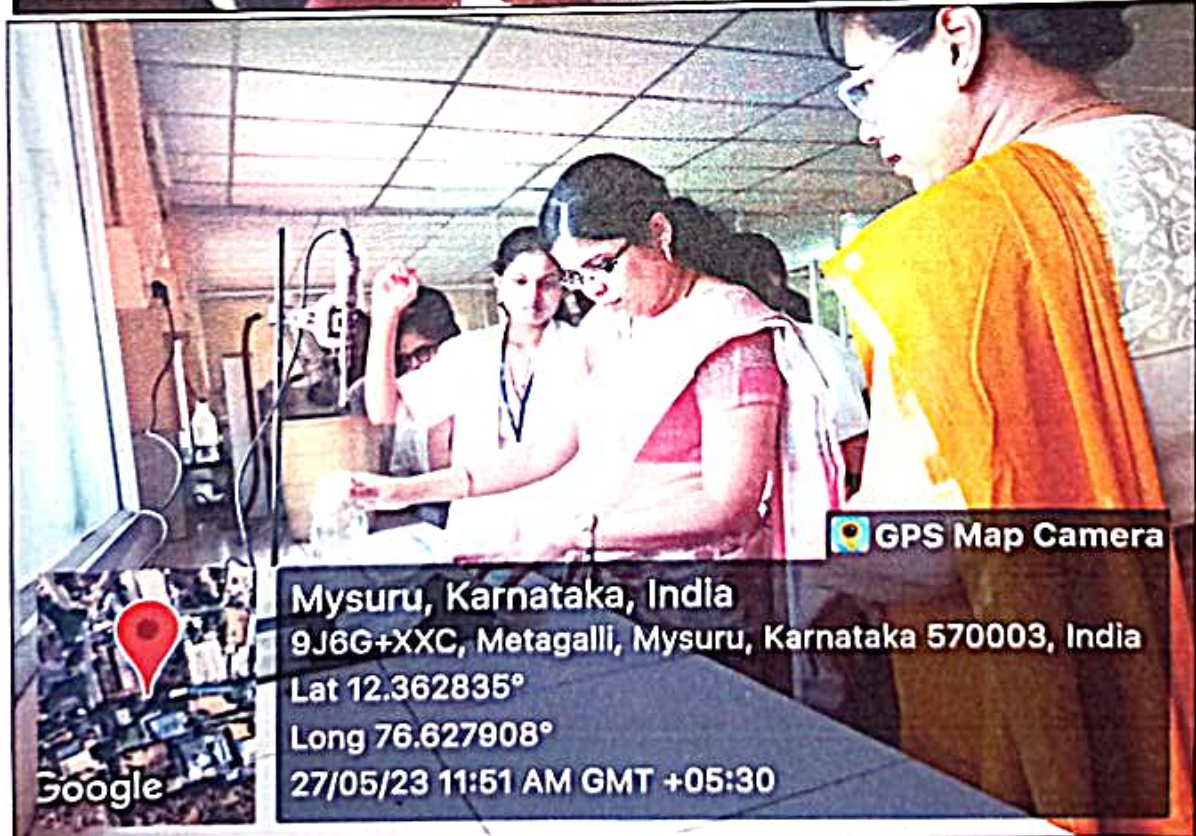
MMK & SDM Mahila Mahavidyalaya
Krishnamurthypuram, Mysore-570 004



GPS Map Camera

Mysuru, Karnataka, India
9J6G+XXC, Metagalli, Mysuru, Karnataka 570003, India
Lat 12.362798°
Long 76.628009°
27/05/23 12:48 PM GMT +05:30

Google



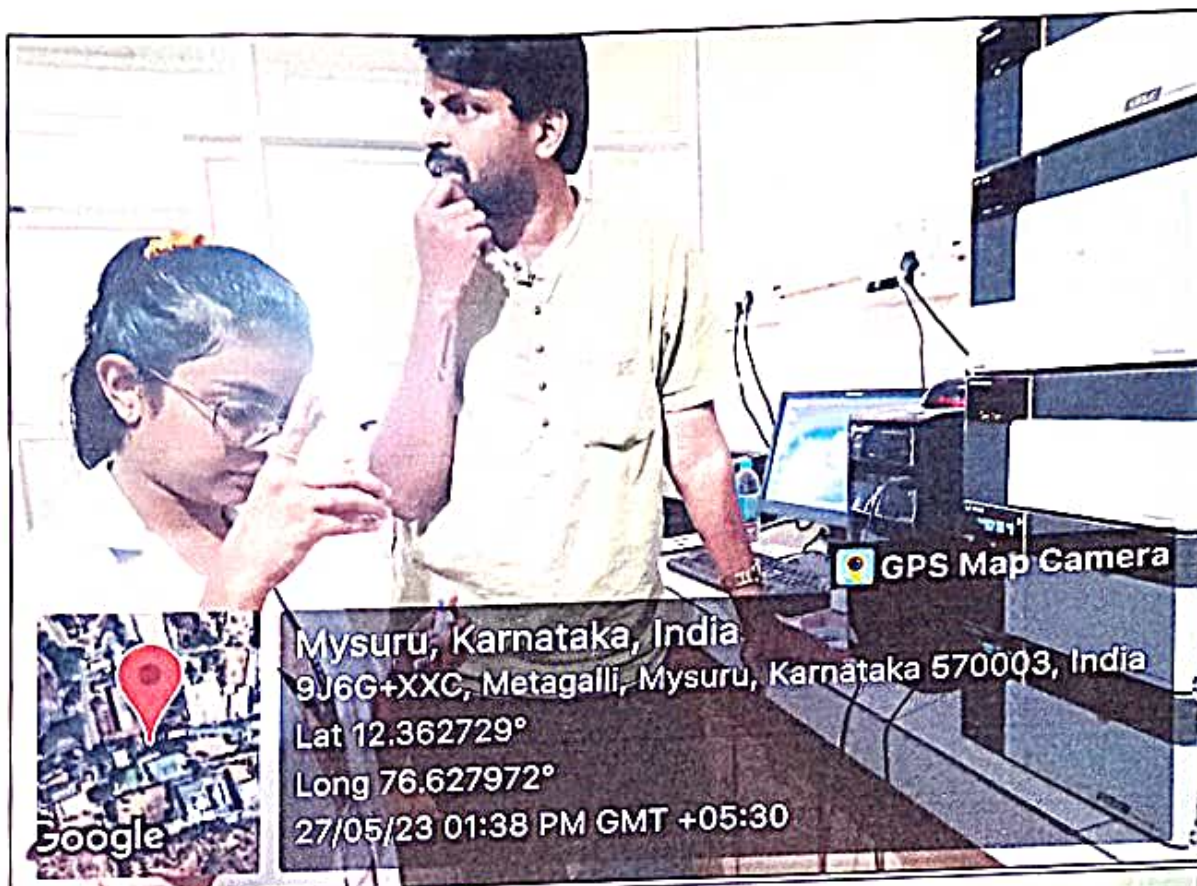
GPS Map Camera

Mysuru, Karnataka, India
9J6G+XXC, Metagalli, Mysuru, Karnataka 570003, India
Lat 12.362835°
Long 76.627908°
27/05/23 11:51 AM GMT +05:30

Google

Preparation of Mobile Phase and Standard by Dr. Wethroe Kapfo and Dr. Chaitanya Pandit


PRINCIPAL
MMK & SDM Mahila Mahavidyalaya
Krishnamurthyapuram, Mysuru-570 004



Mysuru, Karnataka, India
9J6G+XXC, Metagalli, Mysuru, Karnataka 570003, India
Lat 12.362729°
Long 76.627972°
27/05/23 01:38 PM GMT +05:30

GPS Map Camera



Mysuru, Karnataka, India
9J6G+XXC, Metagalli, Mysuru, Karnataka 570003, India
Lat 12.362755°
Long 76.628028°
27/05/23 01:42 PM GMT +05:30

GPS Map Camera

Students injecting sample into the HPLC system

[Handwritten Signature]
PRINCIPAL



Mysuru, Karnataka, India
 9J7H+2C7, Metagalli, Mysuru, Karnataka 570003, India
 Lat 12.362925°
 Long 76.628105°
 27/05/23 11:48 AM GMT +05:30



Mysuru, Karnataka, India
 9J6H+WJM, Metagalli, Mysuru, Karnataka 570003, India
 Lat 12.362996°
 Long 76.62925°
 27/05/23 02:57 PM GMT +05:30

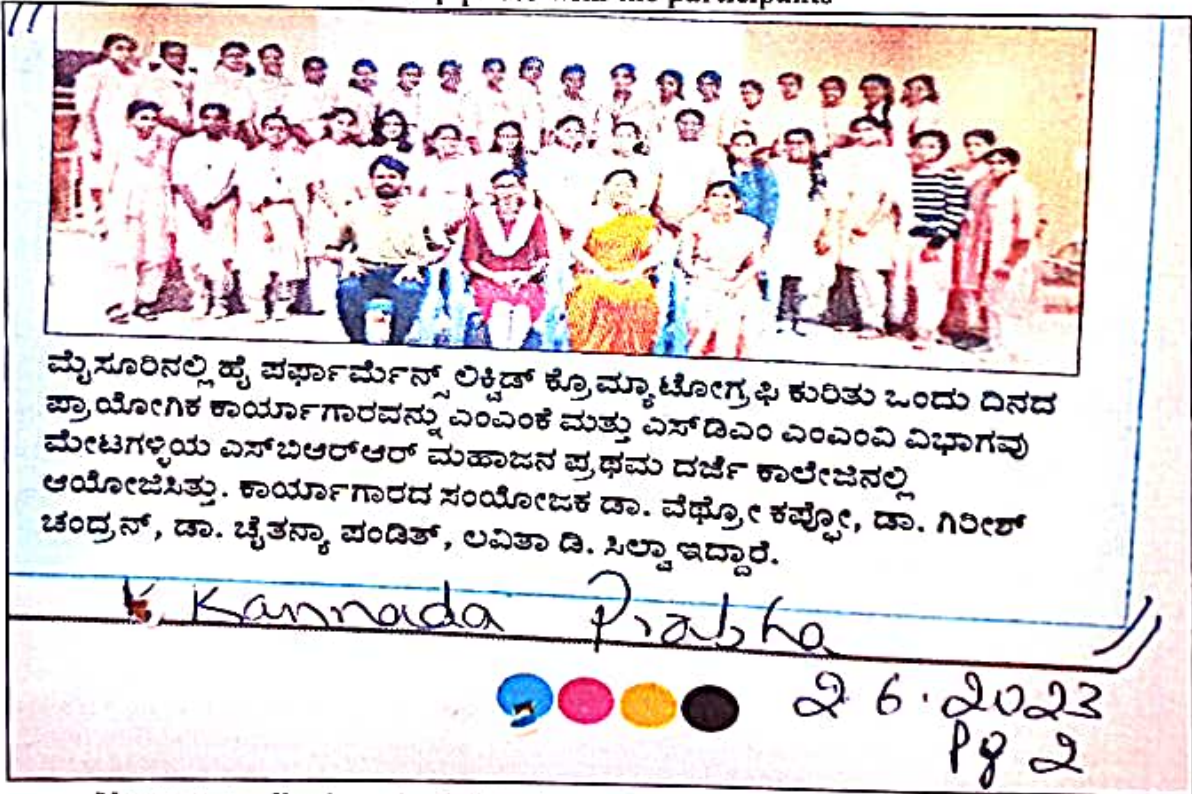
Vote of Thanks and Conclusion remarks by Dr. Wethreo Kapfo

PRINCIPAL

MMK & UDM Mahila Mahavidyalaya
 Kalahandi, Mysuru-570 504



Group photo with the participants



Newspaper clipping of published event in Kannada prabha on 02.06.2023

Report prepared by Dr. Wethroe Kapfo and Dr. Chaitanya Pandit

PRINCIPAL
MNK & SDM Mahila Mahavidyalaya
Krishnamurthypuram, Mysore-570 003



Department of Studies in Biochemistry
School of Life Sciences



ಪೂಜಾಭಾಗವತ್ ಸ್ಮಾರಕ ಮಹಾಜನ ಸ್ವಾತಂತ್ರ್ಯ ಶಿಕ್ಷಣ ಸಂಸ್ಥೆ, ಮೈಸೂರು
Pooja Bhagavat Memorial Mahajana Education Centre
SBRR Mahajana First Grade College (Autonomous) PG Wing
Metagalli, Mysuru-570016

and
Department of Biochemistry and IQAC
Mysuru Makkala Koota &

Shri Dharmasthala Manjunatheshwara Mahila Mahavidyalaya
Krishnamurthypuram, Mysuru-570004

Jointly present

One day hands-on workshop on
High Performance Liquid Chromatography (HPLC)

 **CERTIFICATE** 

This is to certify


Ms. **K.M. NISHKA**

has successfully participated in the "One Day Hands-on Workshop on High Performance Liquid Chromatography (HPLC)" organized at the R&D laboratory, School of Life Sciences, Pooja Bhagavat Memorial Mahajana Education Centre, SBRRMFGC (Autonomous) PG wing, Metagalli, Mysuru on 27th May 2023.


Dr. Wethroe Kapfo
Asst. Prof. and Head
Dept. of Biochemistry
SDM MMK, Mysuru


Dr. Girish Chandran
Workshop Convener
Coordinator - Biochemistry PG
School of Life Sciences, PBMMEC


Prof. Sainath Malligemadu
Principal
MMK SDM MMK
Mysuru


Dr. S.R. Ramesh
Chief Scientist
School of Life Sciences
PBMMEC, Mysuru


Dr. C.K. Renukaryya
Director
PBMMEC
Mysuru

Date: 27th May 2023

Venue: R & D Laboratory, PBMMEC, Mysuru



Department of Studies in Biochemistry
School of Life Sciences



ಪೂಜಾಭಾಗವತ್ ಸ್ಮಾರಕ ಮಹಾಜನ ಸ್ವಾತಂತ್ರ್ಯ ಶಿಕ್ಷಣ ಸಂಸ್ಥೆ. ಮೈಸೂರು
Pooja Bhagavat Memorial Mahajana Education Centre
SBRR Mahajana First Grade College (Autonomous) PG Wing
Metagalli, Mysuru-570016

and

Department of Biochemistry and IQAC
Mysuru Makkala Koota &
Shri Dharmasthala Manjunatheshwara Mahila Mahavidyalaya
Krishnamurthypuram, Mysuru-570004

Jointly present

One day hands-on workshop on
High Performance Liquid Chromatography (HPLC)



CERTIFICATE

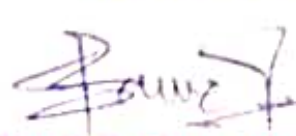
This is to certify that

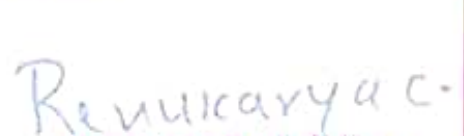
.....**DR. WETHRDE KAPPA**.....

has efficiently organized the "One Day Hands-on Workshop on High Performance Liquid Chromatography (HPLC)" at the R&D laboratory, School of Life Sciences, Pooja Bhagavat Memorial Mahajana Education Centre, SBRRMFGC (Autonomous) PG wing, Metagalli, Mysuru on 27th May 2023.

Role in the workshop: **COORDINATOR: MMKS, EDM MMV &**
RESOURCE PERSON


Prof. Sainath Malligemadu
Principal
MMK SDM MMK
Mysuru


Dr. S.R. Ramesh
Chief Scientist
School of Life Sciences
PBMMEC, Mysuru


Dr. C.K. Renukaryappa
Director
PBMMEC
Mysuru

Date: 27th May 2023

Venue: R & D Laboratory, PBMMEC, Mysuru

MMK AND SDM MAHILA MAHA VIDYALAYA, MYSORE

III B.SC- BMBT-2022-2023

SINO	ROLL No.	Name	DATE
1	20400	ANANYA R BHATTA (S)	Ananyashetty
2	20401	ANANYA S (K)	Ananya S
3	20402	BHOOMIK D R (K)	Bhoomik
4	20403	CHAITHANYA A P (K)	Chaithanya A.P.
5	20404	CHANDANA S (K)	Chandana S
6	20405	CHINMAYE BALAKRISHNA (K)	Chinmaye B.
7	20407	G DEEKSHITHA (H)	G Deekshitha
8	20408	HARSHITHA H (K)	Harshitha H
9	20409	JAGRUTHI JAIN B J(K)	Jagruthi Jain
10	20410	KAVITHA N (K)	Kavitha N.
11	20411	KUMUDINI H D (K)	Kumudini HD.
12	20412	KUSUMA S (K)	K.S.
13	20413	MANTHRIAMOORTHY SHANMUGA PRIYA (H)	Shanmuga Priya
14	20414	NAYANA J(K)	Nayana J
15	20415	NISARGA C (K)	Nisarga C
16	20416	NISHAVARSHINI V (K)	Nisha Varshini
17	20417	PRAMOLIKA M (K)	Pramolika M
18	20418	PRIYANKA PRADHAN KESHAB (H)	Priyanka Keshab
19	20419	R M BHUVANA (H)	Bhuvana
20	20420	RAKSHITHA R (K)	Rakshitha R
21	20421	RISHA BOPANNA C (K)	Risha Bopanna
22	20422	SAHANA G (K)	Sahana G
23	20423	SAHANA N BHAT(SANDHYANBHAT) (S)	Sahana N Bhat
24	20424	SHREESHA N S (K)	Shreesha N S
25	20425	SHRUTHI KUMARI SINGH (K)	Shruthi Kumari
26	20427	SINCHANA S (K)	Sinchana S
27	20428	SNEHA B S (K)	Sneha B S
28	20429	SONA G M (K)	Sona G M
29	20430	SUPRIYA H P (K)	Supriya H.P.
30	20431	VAISSHNAVEE P J (S)	Vaishnavi P J
31	20432	ANUSHA S(K)	Anusha S


PRINCIPAL

MMK & SDM Mahila Mahavidyalaya
Krishnamurthyapuram, Mysore-570 004

MMK AND SDM MAHILA MAHA VIDYALAYA, MYSORE

II B.SC-BTBM 2022-2023

Sl No	Roll No.	Student Name	DATE	SIGNATURE
1	21100	ANANYA. K. R(K)	—	—
2	21102	ANU S P	—	—
3	21103	ARCHANA. K. R(K)	—	—
4	21105	HARSHITHA. U(K)	—	—
5	21106	JAHNAVI. G. BEDRE(K)	—	—
6	21107	K. M. NISHKA(H)	27.05.2023	K.M. Nishka
7	21108	KUSHI. JAIN. D(H)	—	—
8	21109	LOURDKOURNIKOVA A(H)	—	—
9	21110	M G. SANVI. GOWRAMMA(H)	—	—
10	21111	MONISHA. S. GOWDA(K)	—	—
11	21113	NAGASHREE. M(K)	—	—
12	21114	NANDINI. C(K)	27.05.2023	Nandini
13	21115	NIKITHA. K(K)	—	—
14	21116	NISARGA. R(K)RAJASHEKAR	—	—
15	21117	NISARGA. R(K)RAMESHA	—	—
16	21118	NISARGA. R(K)RAVICHANDRA	—	—
17	21119	PRATHIKSHA. H. G(K)	—	—
18	21120	PRIYANKA. U(K)	—	—
19	21121	PRUTHVI. K(K)	—	—
20	21122	RIDHI. NAGARAJ(K)	—	—
21	21123	RUCHITHA. M. R(K)	—	—
22	21124	SAHANA. H. S(K)	—	—
23	21125	SAHANA. P(FK)	27.05.2023	Sahana P
24	21126	SANJANA K N	27.05.2023	Sanjana K N
25	21127	SHILPA. B. P(K)	—	—
26	21128	SIHI SATHISH M S	—	—
27	21129	SNEHA. H. S(K)	—	—
28	21130	SONU. C(K)	27.05.2023	Sonu C
29	21131	SPANDANA. B. S(K)	—	—
30	21132	SUCHITHA. SHREE. H(K)	—	—
31	21133	SUPRITHA. B(K)	—	—
32	21134	SURAKSHA R(K)	—	—
33	21135	TEJASWINI. T. G(K)	—	—
34	21136	USHA. M(K)	—	—
35	21137	YASHASWINI. G. K(K)	—	—