

# Welcome to Department of Chemistry

Govt. Dr. Shyama Prasad Mukherjee Science & Commerce  
College, Bhopal (M.P.)





# Department of Chemistry

Govt. Dr. Shyama Prasad Mukherjee Sc.& Comm College, Bhopal (M.P.)



COURSES	YEAR OF STARTING
B.Sc. ( Physics ,Chemistry, Mathematics) B.Sc. (Zoology ,Botany, Chemistry) B.Sc. (Biotechnology, Botany, Chemistry) B.Sc. (Biotechnology, Zoology, Chemistry)	1982
M.Sc. Chemistry	1997
Ph.D Chemistry	2005



# Department of Chemistry

Govt. Dr. Shyama Prasad Mukherjee Sc.& Comm College, Bhopal (M.P.)



## Our Faculty

**Well qualified**

**Enthusiastic & hard working**

**Communicative & creative**

**Supportive**

**Student friendly and dynamic**

**Extends career and general counselling**

**Open for technical, non technical and general discussions**

**Tech-savvy**



# Department of Chemistry

Govt. Dr. Shyama Prasad Mukherjee Sc.& Comm College, Bhopal (M.P.)



S.No.	Name	Designation	Qualification	Teaching Experience	No. Of Ph.D Students Guided (last 4 years)
01	Dr. Sudhanshu Dhar Dwivedi	Professor & Head	M.Sc., Ph.D	37	05
02	Dr. Asha Verma	Professor	M.Sc., Ph.D	35	04
03	Dr. Ila Jain	Professor	M.Sc., Ph.D	30	Registered as Research Guide in 2022
04	Dr. Neetupriya Lachoria	Assistant Professor	M.Sc., Ph.D	16	Registered as Research Guide in 2022
05	Dr. Smita Verma	Assistant Professor	M.Sc., Ph.D	16	NIL





# Department of Chemistry

Govt. Dr. Shyama Prasad Mukherjee Sc.& Comm College, Bhopal (M.P.)



## DR. Sudhanshu Dhar Dwivedi

Professor & Head

Department of Chemistry

Email: [sudhanshu\\_dhar@yahoo.co.in](mailto:sudhanshu_dhar@yahoo.co.in)



**Qualification:** M.Sc.(Organic Chem.), Ph.D. (Environmental Chem)

### **HIGHLIGHTS:**

- ❖ Appointed as Asstt. Prof in Higher Education Deptt. Govt. of M.P.. In Oct.1985
- ❖ Teaching Experience of 37 Years (UG & PG)
- ❖ Served as Joint Director Sports & Youth Welfare, Madhya Pradesh
- ❖ Served as General Manager, M.P. Text Book Corporation on deputation.
- ❖ Served as Additional Secretary, Board of Secondary Education, M.P
- ❖ Served as Regional Director in BHOJ University, Bhopal.
- ❖ Completed one major research project in 2018 funded by MPCST.



# Department of Chemistry

Govt. Dr. Shyama Prasad Mukherjee Sc.& Comm College, Bhopal (M.P.)



- ❖ Completed three Research Projects funded by UGC.
- ❖ 24 Ph.D Degree have been awarded and at present 2 candidates are Registered.
- ❖ Coordinator of UGC and Internal Quality Assurance Cell (IQAC)
- ❖ Convener of Research Cell and Member in Discipline committee.
- ❖ Holding the post of state Treasurer in Madhya Pradesh Prantiya Mahavidyalayene Pradhyapak Sangh.

## **Awards and Recognitions**

- ❖ Awarded with **Indian Iconic Personality Award** by The Glorious Organization for Accelerated to Literacy, New Delhi in 2019.
- ❖ Felicitated as **Empowering Educator** in Teachers Conference , Bhopal Chapter of WIRC of ICSI.
- ❖ Felicitation by Nehru Yuva Kendra, Bhopal on the occasion of 12<sup>th</sup> Tribal Youth Student Exchange Program



# Department of Chemistry

Govt. Dr. Shyama Prasad Mukherjee Sc.& Comm College, Bhopal (M.P.)



## Dr. ASHA VERMA

Professor, Department of Chemistry

Email: [dr.ashaverma@ymail.com](mailto:dr.ashaverma@ymail.com)



- **Qualification:** B.Sc., M.Sc. and Ph. D. (Organo physical Chemistry)
- **Teaching Experience:** 35 years for UG and PG
- **Working As:**
  - Convener-Swami Vivekananda Career Counseling Cell.
  - AISHE-Nodal Officer
  - Training Placement Officer
  - UGC Teacher Research Fellowship Awarde
  - Guruve Namah Awardee of Higher Education Department.
  - Completed 02 Minor Research Project of UGC
  - Guided 08 Research Candidate for Ph.D. Awards And guiding 08 candidate for Research.



# Department of Chemistry

Govt. Dr. Shyama Prasad Mukherjee Sc.& Comm College, Bhopal (M.P.)



- 55 Research Papers Published in Different National and International Journals.
- Participation in 10 workshops
- Invited as subject- Expert in different Institutes for Recruitment
- Invited as Guest Speaker in different National and International Conferences
- Completed Responsibilities of Administration work. MP PSC, UPSC, PEB.
- Organized many short term job oriented training programs.
- Organized many workshops for students for self employment.
- Organized Yoga Training Session for Employees
- Organized many Campus drive for students.



# Department of Chemistry

Govt. Dr. Shyama Prasad Mukherjee Sc.& Comm College, Bhopal (M.P.)



## DR. ILA JAIN

Professor, Department of Chemistry

Email: [ilajain69@gmail.com](mailto:ilajain69@gmail.com)

**Qualification:** M.Sc. (Physical Chemistry), Ph.D.

### **HIGHLIGHTS:**

- ❖ Appointed as Assistant Professor in Deptt. Of Higher Education in 1993 (PSC)
- ❖ Teaching Experience of 29 years (UG & PG)
- ❖ Registered as Research guide in Barkatullah University in February 2022
- ❖ Reviewed 8 books of UG/PG of BHOJ University
- ❖ Writing of 02 Books is under process
- ❖ 07.Publications in National and International Journals.
- ❖ Guided UG and PG students for Project/Internship







# Department of Chemistry

Govt. Dr. Shyama Prasad Mukherjee Sc.& Comm College, Bhopal (M.P.)



- ❖ Attended more than 24.Seminars, Webinars, Conferences.
- ❖ Participated in 09 Seminar ,Faculty Development Programs and Workshops.
- ❖ Organized Webinars, Seminars, Lecture Series , FDP and Conference.
- ❖ Invited as Guest Speaker and Subject Expert in Various Institutes.
- ❖ Convener of College Purchase Committee.
- ❖ Convener of Remedial Class Committee
- ❖ Actively working in Internal Quality Assurance Cell, RUSA.
- ❖ Member of NAAC & SSR Committee, Swami Vivekananda Career Guidance Cell, Semester Cell, Time Table Committee.



# Department of Chemistry

Govt. Dr. Shyama Prasad Mukherjee Sc & Comm College, Bhopal (M.P.)



## DR. NEETUPRIYA LACHORIA

Assistant Professor, Department of Chemistry

e-mail: [neetupriya04@gmail.com](mailto:neetupriya04@gmail.com)



**Qualification:** M.Sc., Ph.D. (Organic and Computational Chemistry)

### HIGHLIGHTS:

- ❖ Appointed as Assistant Professor in Deptt. Of Higher Education in 2005(PSC)
- ❖ Teaching Experience of 18 years UG and 13 years PG
- ❖ Registered as Research guide in Barkatullah University in February 2022
- ❖ 10 Publications in National and International Journals and Conference Proceedings
- ❖ Guided UG and PG students for Project/Internship
- ❖ Reviewed 8 books of UG/PG of BHOJ University



# Department of Chemistry

Govt. Dr. Shyama Prasad Mukherjee Sc.& Comm College, Bhopal (M.P.)



- ❖ Writing of 02 Books of BHOJ University is under process
- ❖ Attended more than 30 Seminars, Webinars, Conferences
- ❖ Participated in more than 15 Faculty Development Programs and Workshops
- ❖ Organized Webinars and Lecture Series
- ❖ Invited as Guest Speaker and Subject Expert in Various Institutes
- ❖ Actively working in Internal Quality Assurance Cell
- ❖ Member of NAAC & SSR Committee, Library Committee, Student Union Committee, Amrit Mahotsava Committee etc.
- ❖ Member of Skill Development Desk under NEP.



# Department of Chemistry

Govt. Dr. Shyama Prasad Mukherjee Sc.& Comm College, Bhopal (M.P.)



## Dr. SMITA VERMA

Assistant Professor

Department of Chemistry

Govt. Dr .S.P.M. Science and commerce College Bhopal

**Qualification :** B.Sc. Biology, M.Sc Chemistry, PhD Heterocyclic Chemistry and PGDCA Diploma .



**Teaching Experience :** 16 Years( UG and PG).

- Guided 15 students for M.Phil.
- UG/PG Internship Guidance for 60 students.
- 20 Research paper published in National and International research journals.
- About 30 articles and paper presented in national and international seminar and conferences.
- Participation workshops and FDPs in 10.
- Invited guest speakers in pollution control board Shahdol(M.P) in four times.
- Perform duties as observer for UPSC, MP PSC, and PEB.
- Actively Participated in various college committees as member in Career guidance cell, AISHE, Post metric scholarship, Remedial classes, Youth Festival ,IT committees.



# Department of Chemistry

Govt. Dr. Shyama Prasad Mukherjee Sc.& Comm College, Bhopal (M.P.)



## Teaching – Learning Methodology

- ❖ Regular classes
- ❖ Counselling for weak students
- ❖ Innovative, Interactive and practical based learning
- ❖ Applications of the subject in daily life
- ❖ Practical and Survey based mini projects/assignments
- ❖ Creative presentation of assignments – Models, Charts,
- ❖ PowerPoint Presentations (Creating Computer Awareness)





# Department of Chemistry

Govt. Dr. Shyama Prasad Mukherjee Sc.& Comm College, Bhopal (M.P.)



## AWARD & RECOGNITION

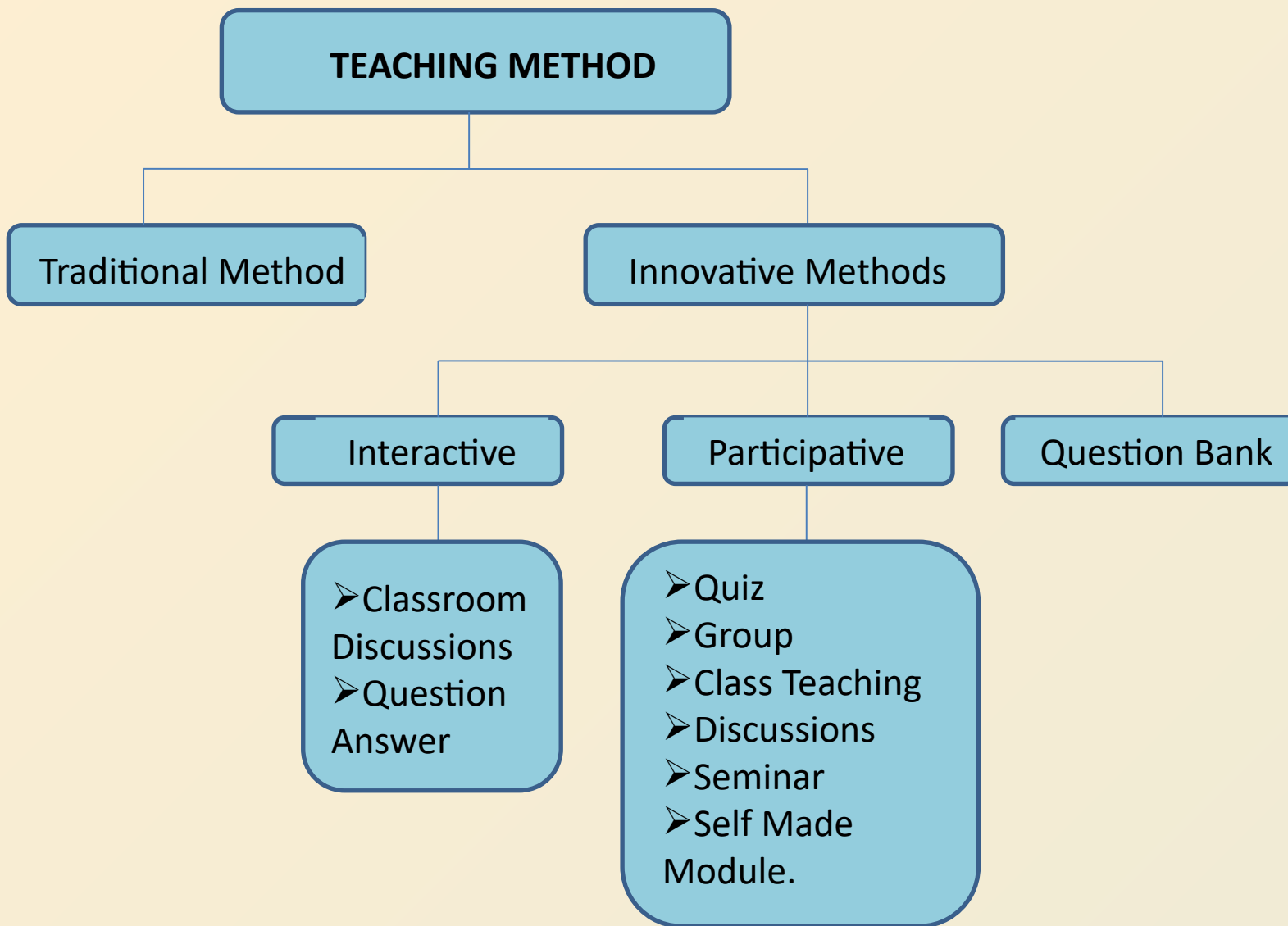
**Dr. Asha Verma** was felicitated with **Sahodri Samman** on the occasion of **9<sup>th</sup> Vishwa Hindi Diwas** held at **Mahatma Gandhi Institute, Mauritius** on **11<sup>th</sup> January 2023**.





# Department of Chemistry

Govt. Dr. Shyama Prasad Mukherjee Sc.& Comm College, Bhopal (M.P.)





# Department of Chemistry

Govt. Dr. Shyama Prasad Mukherjee Sc.& Comm College, Bhopal (M.P.)



READING ROOM/DEPARTMENTAL LIBRARY



# Department of Chemistry

Govt. Dr. Shyama Prasad Mukherjee Sc.& Comm College, Bhopal (M.P.)



Session	Date	Name of Activity	Resource Person/Organization	Topic of Webinar/Lecture/Presentation
<b>2017-18</b>	16/09/2017	Lecture Series	Dr. R.N.Yadav	Organic Synthesis
	17/09/2017		Dr. Bharti Jain	Physical Chemistry
	18/09/2017		Dr. Diwa Mishra	Spectroscopy
<b>2018-19</b>	26/12/2018	Workshop	PG Tech Research Institute, Indore	Microwave Synthesis
<b>2019-20</b>	29/12/2019	Lecture Series on (International Year of Periodic Table)	Dr. Alka Pradhan	Organic Reactions
	30/12/2019		Dr. Bharti Jain	Spectroscopy
	30/12/2019		Dr. Neelam Dubey	Transition Elements
	04/03/2020	Educational Tour	Vardhman Yarns, Mandideep	Learn about process of making yarn



# Department of Chemistry

Govt. Dr. Shyama Prasad Mukherjee Sc.& Comm College, Bhopal (M.P.)



Session	Date	Name of Activity	Resource Person/Organization	Topic of Webinar/Lecture/Presentation
2020-21	10/11/2020	Workshop	Analyticjena	Hands on Training on AAS
	26/03/2021	Webinar	Dr. A.P.Mishra	Analytical Techniques & Applications
	01/06/2021	Quiz	-	Health & Hygiene with Chemistry
2021-22	14/03/2022	Educational Tour	Fruit Processing & Research Institute. Itkhedi, Bhopal	Learnt about Food Processing Techniques





# Department of Chemistry

Govt. Dr. Shyama Prasad Mukherjee Sc.& Comm College, Bhopal (M.P.)



Session	Date	Name of Activity	Resource Person/Organization	Topic of Webinar/Lecture / Presentation
2021-22	15/12/2021	Lecture Series	Dr. Neelam Dubey	Molecular Symmetry
	16/12/2021		Dr. Suman Malik	Spectroscopy
	17/12/2021		Dr. Bharti Jain	Infra Red Spectroscopy
	15/03/2022	Lecture Series	Dr. Alka Pradhan	Electrophilic Substitution Reaction
	16/03/2022		Dr. Alka Pradhan	Aromatic Electrophilic Substitution
	17/03/2022		Dr. Anita Choubey	Organic Name Reactions



# Department of Chemistry

Govt. Dr. Shyama Prasad Mukherjee Sc.& Comm College, Bhopal (M.P.)



## Workshop on microwave Synthesis 26/12/2018

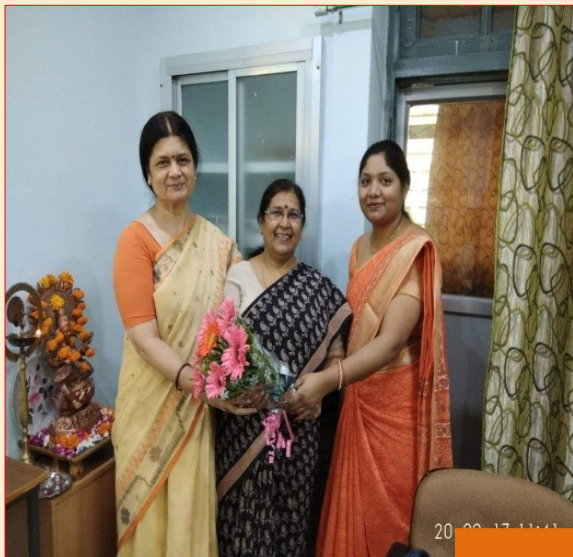






# Department of Chemistry

Govt. Dr. Shyama Prasad Mukherjee Sc.& Comm College, Bhopal (M.P.)



## LECTURE SERIES 2019-20





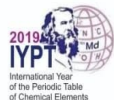


# Department of Chemistry

Govt. Dr. Shyama Prasad Mukherjee Sc.& Comm College, Bhopal (M.P.)



**Govt. Dr. Shyama Prasad Mukherjee Science & Commerce College  
(Old Benazeer), Bhopal (M.P.)**



**INTERNATIONAL YEAR OF PERIODIC TABLE -2019**

**Lecture Series**

**Organized By**  
**Internal Quality Assurance Cell (IQAC)**  
**&**  
**Department of Chemistry**



2019-12-31 12:42

## LECTURE SERIES 2019-20



2019-12-31 12:42



2019-12-31 12:44





# Department of Chemistry

Govt. Dr. Shyama Prasad Mukherjee Sc.& Comm College, Bhopal (M.P.)



## EDUCATIONAL TOUR 2019-20







# Department of Chemistry

Govt. Dr. Shyama Prasad Mukherjee Sc.& Comm College, Bhopal (M.P.)



## EDUCATIONAL TOUR 2021-22







# Department of Chemistry

Govt. Dr. Shyama Prasad Mukherjee Sc.& Comm College, Bhopal (M.P.)



**Webinar 26/03/2021**

**GOVT DR SHYAMA PRASAD MUKHERJEE SCIENCE & COMMERCE,  
COLLEGE, KOLAR ROAD, BHOPAL MP**

Re- accredited By NAAC Grade "B++"

**Webinar  
on  
Analytical Techniques  
&  
Applications**

**Organized by  
Department of Chemistry**  
Under the MPHEQIP

**Date: 26<sup>th</sup> March 2021**

<b>Head of Department</b> <b>Dr. Sudhanshu Dhar Dwivedi</b>	<b>Organizing Committee</b> Dr. Asha Verma Dr. Ila Jain Dr. Neetupriya Lachoria Dr. Smita Verma	<b>Principal</b> <b>Dr. Saroj Shrivastava</b>
--	---	--



# Department of Chemistry

Govt. Dr. Shyama Prasad Mukherjee Sc.& Comm College, Bhopal (M.P.)



Govt. Dr. Shyama Prasad Mukherjee Science & Commerce College, Kolar Road, Bhopal M.P.

Re-accredited by NAAC Grade B\*\*

**DEPARTMENT OF CHEMISTRY**  
(Under the MPHEQIP)

Organizes  
Lecture series on  
**"SPECTROSCOPY"**

Date: 15<sup>th</sup> to 17<sup>th</sup> December 2021  
Venue: Conference Hall  
Time: 12:30 pm

Eminent Speakers  
**Dr. Neelam Dubey**  
**Dr. Suman Malik**  
**Dr. Bharti Jain**

Convener  
Dr. Sudhanshu Dhar Dwivedi  
(Head, Deptt. Of Chemistry)

Organizing Committee  
Dr. Asha Verma  
Dr. Ila Jain  
Dr. Neetupriya Lachoria

Principal  
Dr. Sanjay Telang



**LECTURE SERIES 15,16,17 December 2021**





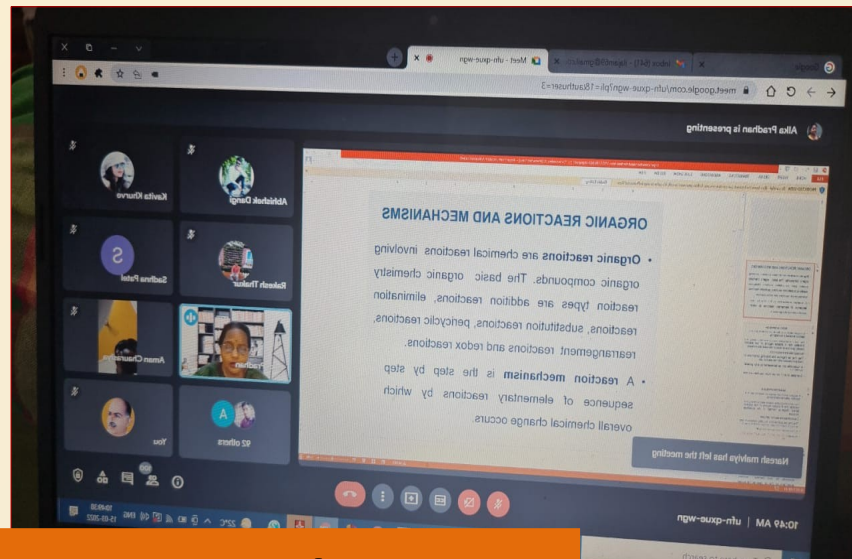


# Department of Chemistry

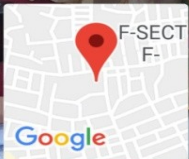
Govt. Dr. Shyama Prasad Mukherjee Sc.& Comm College, Bhopal (M.P.)



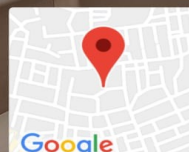
Samsung Quad Camera  
Shot with my Galaxy F62



## LECTURE SERIES 15,16,17 March 2022



Bhopal, Madhya Pradesh, India  
BX/86, Road, F-Sector, Rajharsh Colony, Uma Vihar, Bhopal, Madhya Pradesh 462042, India  
Lat 23.167443°  
Long 77.420089°  
17/03/22 02:15 PM



Bhopal, Madhya Pradesh, India  
107 raj Ved colony, near dr.shyama prasad mukharji college, F-Sector, Rajharsh Colony, Kolar Rd, Bhopal, Madhya Pradesh 462042, India  
Lat 23.167141°  
Long 77.419814°  
16/03/22 12:40 PM



# Department of Chemistry

Govt. Dr. Shyama Prasad Mukherjee Sc.& Comm College, Bhopal (M.P.)



## QUESTION BANK WORKSHOP



# Department of Chemistry

Govt. Dr. Shyama Prasad Mukherjee Sc.& Comm College, Bhopal (M.P.)



## TUTOR-GUARDIAN MEETING





# Department of Chemistry

Govt. Dr. Shyama Prasad Mukherjee Sc.& Comm College, Bhopal (M.P.)



## M.Sc. Chemistry Result Analysis

Session	Appeared	Pass	Pass Percentage
2017-18	11	07	63.63%
2018-19	8	6	75%
2019-20	22	22	100%
2020-21	26	26	100%
2021-22	38	17	44.73%



# Department of Chemistry

Govt. Dr. Shyama Prasad Mukherjee Sc.& Comm College, Bhopal (M.P.)

## Chemistry Laboratory



Samsung Quad Camera  
Shot with my Galaxy F62



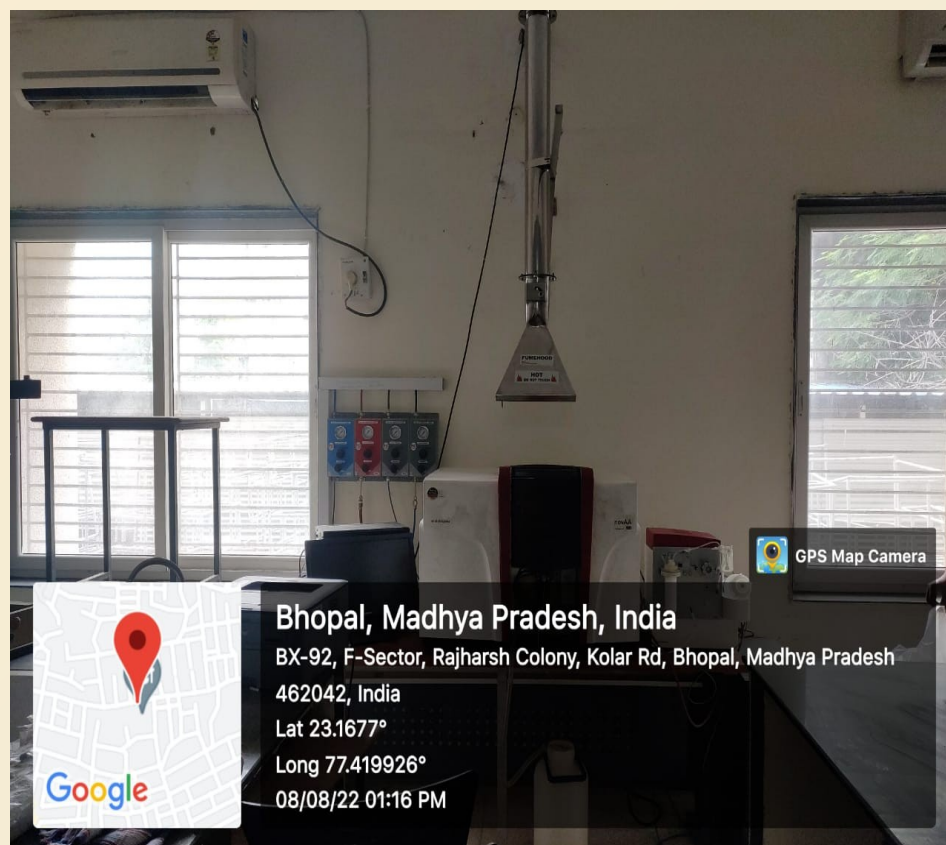
# Department of Chemistry

Govt. Dr. Shyama Prasad Mukherjee Sc.& Comm College, Bhopal (M.P.)

## **Department of Chemistry** **Laboratory Instruments**

**(Atomic Absorption Spectrophotometer)**

AAS (Atomic Absorption Spectrophotometer) has been set up in Chemistry Lab In November 2020. This instrument is very useful in Research and it is used to detect Heavy metals within a sample.



Bhopal, Madhya Pradesh, India

BX-92, F-Sector, Rajharsh Colony, Kolar Rd, Bhopal, Madhya Pradesh

462042, India

Lat 23.1677°

Long 77.419926°

08/08/22 01:16 PM



# Department of Chemistry

Govt. Dr. Shyama Prasad Mukherjee Sc.& Comm College, Bhopal (M.P.)



## Workshop on AAS (Atomic Absorption Spectrophotometer)







# Department of Chemistry

Govt. Dr. Shyama Prasad Mukherjee Sc.& Comm College, Bhopal (M.P.)



## Laboratory Instruments



**Suction Pump**



**Conductivity Meter**



**Digital D.O.Meter**



# Department of Chemistry

Govt. Dr. Shyama Prasad Mukherjee Sc.& Comm College, Bhopal (M.P.)



## Laboratory Instruments



pH Meter



Electronic  
Thermometer



Melting Point  
Apparatus





# Department of Chemistry

Govt. Dr. Shyama Prasad Mukherjee Sc & Comm College, Bhopal (M.P.)

## Laboratory Instruments



**Water Bath  
Thermostatic**



**Digital Balance**



**Photoelectric  
Colorimeter**



# Department of Chemistry

Govt. Dr. Shyama Prasad Mukherjee Sc & Comm College, Bhopal (M.P.)

## Laboratory Instruments



**High Precision Balance**



**Distillation Apparatus**





# Department of Chemistry

Govt. Dr. Shyama Prasad Mukherjee Sc & Comm College, Bhopal (M.P.)

## Laboratory Instruments



**Digital Spectrophotometer**



**Rectangular Hotplate**



# Department of Chemistry

Govt. Dr. Shyama Prasad Mukherjee Sc & Comm College, Bhopal (M.P.)

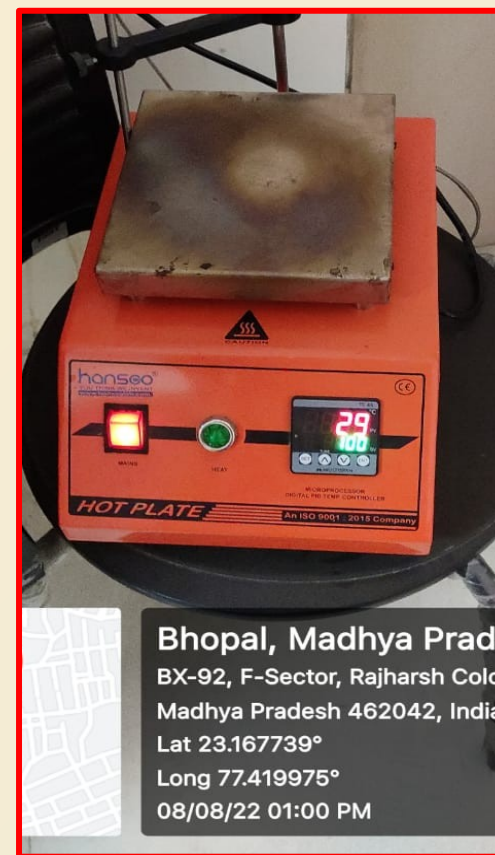
## Laboratory Instruments



Centrifuge Machine



Heating Mantle



Hot Plate





# Department of Chemistry

Govt. Dr. Shyama Prasad Mukherjee Sc & Comm College, Bhopal (M.P.)

## Laboratory Instruments

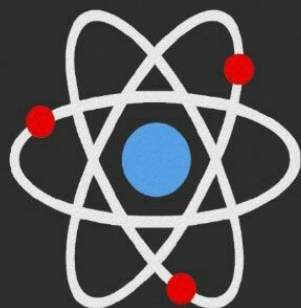


Oven



Soxhlet Extraction Unit

Think like a  
**Proton**



and stay  
**Positive**

