G.B.P.M GOVT. COLLEGE RAMPUR BSR.
DEPARTMENT OF CHEMISTRY

The department of chemistry offers the Bachelors of Science (B.Sc.) and Masters of Science (M.Sc.) courses.The Masters programme was introduced in 2017.The Bachelor of Science and Masters of Sciencedegree provides rigorous education in the fundamental areas of chemical and biochemical knowledge and experimentation.The department has well equipped laboratories.

The Department has a highly motivated team of faculty members and laboratory staff. The faculty members update themselves through research and by participating in refresher courses, Seminars, etc.

Department Moto: Feel the chemistry

Vision & Mission of the Department of Chemistry

The Vision of the department is to generate and disseminate knowledge to foster a scientific temper. To build foundation for excellence, by igniting and nurturing enthusiasm, interests and passion, in the study of chemistry.

Inspire and educate future leaders about how chemistry underlies living systems and physical processes.

- To awaken the young minds and discover their talents both in theory and in practical chemistry, through dedication to teaching, commitment to students and innovative instructional methods.
- To support the developmental activities of the College and make the Department vibrant.
- To organize critical contributions in areas of emphasis such as faculty, modern labs and demonstrate a high level of competence in the study of Chemistry.
- To produce graduates by widening their knowledge horizons in range and depth.
- To achieve excellence in teaching.
- To empower through knowledge and information.
- To cultivate resolute moral and ethical values.
- To preserve and promote cultural heritage and humanistic values.

PROGRAMMES/COURSES OFFERED

1. B.Sc. Chemistry
2. M.Sc. Chemistry

Seats & Eligibility

Programme/ Course	Duration	Seats	Eligibility	Admission Procedure
B.Sc.	3 Years	------	10+2 with Biology,Chemistry,Physics& English or Physics, Chemistry, Maths & English with at least 45% marks	Merit
M.Sc.	2 Years	20	B.Sc. with Chemistry, Botany, Zoology or Chemistry, Physics, Maths	Merit

Present Faculty

		
Dr. Shiwali Thakur	Mr. Gopi Negi	Mr. Anil Singh Negi
Assistant Professor	Assistant Professor	Assistant Professor

Faculty Profile

S. No.	Faculty Name	Academic Qualification	Designation	Teaching Experience	Contact No.	Email id
1.	Dr. Shiwali Thakur	M.Sc., M.Phil, Ph.D	Assistant Professor	12 Years	9418300757	Shiwalithakur1983@gmail.com
2.	Mr. Gopi Negi	M.Sc	Assistant Professor	12 Years	7018905931	professor.gcnegi@gmail.com
3.	Mr. Anil Singh Negi	M.Sc., M.Phil	Assistant Professor	7 Years	7018222848	Anil.negi272@gmail.com
4.	Mr. Anil Chauhan	M. Phil	Assistant Professor		9817977898	
5.	Mr. PanmaNegi	M.Phil	Assistant Professor		8219039860	

Laboratory Staff

		
Dr. M.L. Gautam	Smt. Suraj Mani	Mr. Rajesh Kumar
Senior Lecturer Assistant	Junior Lecturer Assistant	Laboratory Attendant

Courses Offered in the Department

1. B.Sc.

Year	Discipline Specific Courses (DSC)	Skill Enhancement Courses (SEC)	Discipline Specific Electives (DSE)
B.Sc. I Year	1.Atomic Structure, Bonding, General Organic Chemistry & Aliphatic Hydrocarbons (CHEM101) 2. States Of Matter, Chemical Kinetics & Functional Organic Chemistry (CHEM102)		
B.Sc. II Year	1, Solutions, Phase Equilibrium, Conductance, Electrochemistry &Organic Chemistry (CHEM201) 2. Chemistry Of Main Group Elements, Chemical Energetics and Equilibria (CHEM202)	1. Basic Analytical Chemistry (CHEM203) 2. Fuel Chemistry & Chemistry of Cosmetics & Perfumes(CHEM204)	
B.Sc. III Year		1.Chemical Technology & Society and Business Skills for Chemistry (CHEM 307) 2.Pesticide Chemistry & Pharmaceutical Chemistry (CHEM308)	1. Polynuclear Hydrocarbons, Dyes, Heterocyclic Compounds And Spectroscopy (UV, IR ,NMR) (CHEM 301) 2. Polymer Chemistry (CHEM 305)

2.M.Sc.

A Detailed Scheme and Course Contents of the Syllabi for M.Sc. Chemistry SpreadOver Four Semesters (I-IV)

SEMESTER-I			
Course No.	**Title**	**Max. Marks Theory**	**Internal Assessment**
Course-I	Inorganic Chemistry	80	20
Course-II	Organic Chemistry	80	20
Course-III	Physical Chemistry	80	20
Course-IV	Mathematics for Chemists and Applications of computer in Chemistry	80	20
SEMESTER-II			
Course-V	Inorganic Chemistry	80	20
Course-VI	Organic Chemistry	80	20
Course-VII	Physical Chemistry	80	20
Course-VIII	Chemistry of Life and Enviromental Chemistry	80	20
Course-IX (Practical I and II Semesters Common to all)	Inorganic Chemistry-A Organic Chemistry-B Physical Chemistry-C	50 50 50	
SEMESTER-III			
Course-X	Inorganic Chemistry	80	20
Course-XI	Organic Chemistry	80	20
Course-XII	Physical Chemistry	80	20
Course-XIII (Special Paper-I)	Any one of the following: Inorganic Chemistry-A Organic Chemistry-B Physical Chemistry-C	80	20
Course-XIV (Practical Common to all)	Inorganic Chemistry-A Organic Chemistry-B Physical Chemistry-C	50 50 50	
SEMESTER-IV			
(A - Inorganic Chemistry specialization)			
Course-XV A (Special Paper-II)	Advanced Organometallics	80	20
Course-XVI A (Special Paper-III)	Modern Techniques of Chemical Analysis	80	20
Course-XVII A (Special Paper-IV)	Inorganic Spectroscopy	80	20
Course-XVIII A (Special Paper-V)	Bio-Inorganic Chemistry	80	20
SEMESTER-IV			
(B - Organic Chemistry specialization)			
Course-XV B (Special Paper-II)	Synthetic Strategy	80	20
Course-XVI B (Special Paper-III)	Natural products	80	20
Course-XVII B (Special Paper-IV)	Medicinal Chemistry	80	20
Course-XVIII B (Special Paper-V)	Polymer Chemistry	80	20
Practicals			

Course-XIX A	Inorganic Chemistry Practicals	75	
Course-XIX B	Organic Chemistry Practicals	75	
Course-XX	(SEMINARS For all specializations)	25	