



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

PROGRAMMES/COURSES OFFERED

1. B.Sc. Botany
2. M.Sc. Botany

Seats & Eligibility

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

Faculty Profile

S. No.	Faculty Name	Academic Qualification	Designation	Teaching Experience	Contact No.	Email id
1.	Dr. Anita Kumari	M.Sc., M.Phil, Ph.D	Assistant Professor	14 Years	7018515516	ak7912053@gmail.com
2.	Ms. Nirmla Negi	M.Sc., M.Phil.	Assistant Professor	07 Years	7018314285	nirmla30negi@gmail.com

Laboratory Staff

		
Dr. M.L. Gautam Senior Lecturer Assistant	Smt. Suraj Mani Junior Lecturer Assistant	Mr. Rajesh Kumar 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
Spread Over 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 Environmental 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 (Special Paper-II)	A Advanced Organometallics	80	20
Course-XVI (Special Paper-III)	A Modern Techniques of Chemical Analysis	80	20
Course-XVII (Special Paper-IV)	A Inorganic Spectroscopy	80	20
Course-XVIII (Special Paper-V)	A Bio-Inorganic Chemistry	80	20
SEMESTER-IV			
(B - Organic Chemistry specialization)			
Course-XV (Special Paper-II)	B Synthetic Strategy	80	20
Course-XVI (Special Paper-III)	B Natural products	80	20
Course-XVII (Special Paper-IV)	B Medicinal Chemistry	80	20
Course-XVIII (Special Paper-V)	B 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	