Department Of Science

1. Introduction:

- The College offers a Bachelor of Science(B.Sc) degree in a variety of specializations, including: Botany, Chemistry, Mathematics, Physics, Zoology.
- The B.Sc. degree is a three-year undergraduate program that is designed to provide students with a broad-based understanding of the fundamentals of science. The program also includes specialized courses in the student's chosen major.
- The first year of the B.Sc. program is common to all students, regardless of their specialization. During this year, students take courses in English, Mathematics, Statistics, and General Science.
- In the second year, students begin to take specialized courses in their chosen major. In the third year, students continue to take specialized courses in their major, and they also complete a research project.
- They should focus on their studies and extra-curricular activities that demonstrate their interest in science.

Career opportunities for B.Sc. graduates

- B.Sc. graduates can pursue careers in a variety of fields, including research, education, industry, and government.
- Some of the specific job roles that B.Sc. graduates can apply for include: Scientist, Researcher, Teacher, Professor, Laboratory technician, Quality control analyst, Environmental scientist, Software developer, Data analyst, Technical writer, Science journalist, Patent attorney, Medical representative
- If you are interested in pursuing a career in science, then a B.Sc. degree is a great option. The program is highly rigorous and well-respected, and it will give you the skills and knowledge that you need to succeed in your chosen field.

2. Formation:

Sr. No.	Name	Designation	Post
1.	Mr. Mitesh M. Gosrani	Principal	Principal
2.	Mr. Praveen A. Singh	Lecturer	HOD
3.	Ms. Priyanka Bharti	Lecturer	Member
4.	Mr. Ashutosh Chandra	Lecturer	Member
5.	Anjali Pandey	TYBSc	Student Representative: Member
6.	Saif Khan	SYBSc	Student Representative: Member
7.	Sudhanshu Kushwaha	SYBSc	Student Representative: Member
8.	Aashmi Gada	FYBSc	Student Representative: Member
9.	Hetul Rajpurohit	FYBSc	Student Representative: Member
10.	Gauri Pawar	SYBSc	Student Representative: Member

3**. Year of Establishment**:2021

4. **Total No. of courses :_**38

SEM I	SEM II
(ZOOLOGY) 1.Wonders of Animal World, Biodiversity and its Conservation 2.Instrumentation and Animal Biotechnology (BOTANY) 3.Plant Diversity 1(Algae, Fungi, Bryophyta) 4.Form and Function 1(Cell Biology, Ecology, Genetics) (CHEMISTRY) 5.Chemistry Paper I (Physical, Inorganic, Organic Chemistry) 6.Chemistry Paper II (Physical, Inorganic, Organic Chemistry) 7. Foundation Course	(ZOOLOGY) 1.Ecology and Wildlife Management 2.Nutrition, Public Health And Hygiene (BOTANY) 3.Plant Diversity 1(Pteridophytes, Gymnosperms, Angiosperms) 4.Form And Function 1(Anatomy, Physiology, Medicinal Botany) (CHEMISTRY) 5.Chemistry Paper I (Physical, Inorganic, Organic Chemistry) 6.Chemistry Paper II (Physical, Inorganic, Organic Chemistry) 7. Foundation Course

SEM III	SEM IV
(ZOOLOGY) 1.Fundamentals of Genetics, Chromosomes and Heredity, Nucleic acids 2.Study of Nutrition and Excretion , Respiration and circulation, Control and coordination, Locomotion and Reproduction 3. Ethology, Parasitology, Economic Zoology (BOTANY) 4.Plant Diversity II (Thallophyta- Algae, Bryophyta, Angiosperms) 5.Form And Function II (Instrumentation and Techniques, Cell Biology, Cytogenetics) 6.Current Trends In Plant Sciences I (Pharmacognosy & Phytochemistry, Forestry & Economic Botany, Molecular Biology (CHEMISTRY) 4.Chemistry Paper-I (Physical, Inorganic, Organic Chemistry) 5.Chemistry Paper-II (Physical, Inorganic, Organic Chemistry) 6.Chemistry Paper-II (Basic of Analytical Chemistry) 7. Foundation Course	(ZOOLOGY) 1.Origin and evolution of Life, Population genetics and evolution, Scientific Attitude methodology , writing and ethics 2.Cell Biology, Endo membrane System and Biomolecules 3.Comparative Embryology, Aspects of Human Reproduction, Pollution and its effect on organisms (BOTANY) 1.Plant Diversity II (Thallophyta: Fungi, Plant Pathology and Lichens, Pteridophyta and Paleobotany, Gymnosperms) 2.Form And Function II (Anatomy, Physiology and Plant Biochemistry, Ecology and Environmental Botany) 3.Current Trends In Plant Sciences I (Horticulture, Biotechnology, Biostatistics & Bioinformatics) (CHEMISTRY) 4.Chemistry Paper-I (Physical, Inorganic, Organic Chemistry) 5.Chemistry Paper-II (Physical, Inorganic, Organic Chemistry) 6.Chemistry Paper-II (Basic of Analytical Chemistry) 7. Foundation Course

SEM V	SEM VI
(Zoology) 1.Taxonomy - Invertebrates and Type Study 2.Haematology and Immunology 3.Histology, Toxicology, Pathology and Biostatistics 4.Anatomy and Developmental Biology 5.Fishery Biology(Oceanography, Aquaculture Practices, Marketing and Finance)	(Zoology) 1.Taxonomy - Chordates and Type Study 2.Physiology and Tissue Culture 3.Genetics and Bioinformatics 4.Environmental Biology and Zoopharmacognosy 5.Fishery Biology(Marine resources, Post-harvest and Farm Engineering)

5. Syllabus : Soft copy to be attached separately (Uni. Syllabus pdf/uni. Website link can be given)

1.FYBSc(Chemistry)
https://mu.ac.in/wp-content/uploads/2022/10/Revised-syllabus-of-F.Y.B.Sc.Chemistry-Sem.I-II-CBCS-Vide-Item-No.-6.5R-1.pdf

2.FYBSc(Zoology)
https://archive.mu.ac.in/syllabus/4.70%20%20Zoology%20fybsc.pdf

3.FYBSc(Botany)
https://archive.mu.ac.in/syllabus/4.23%20Botany%20.pdf

4. SYBSc(Chemistry)
https://old.mu.ac.in/wp-content/uploads/2014/03/4.13-SYBSc-Chemistry1.pdf

5. SYBSc(Botany)
https://archive.mu.ac.in/syllabus/4.33%20Botany%20sybsc.pdf

6. SYBSc(Zoology)
https://old.mu.ac.in/wp-content/uploads/2016/06/4.31-Final-Copy-S.-Y.-B.-Sc.-Zoology-Syllabus.pdf

7. TYBSc (Zoology)
https://old.mu.ac.in/wp-content/uploads/2016/06/4.32-TYBScSem-V-VI-Syllabus-Final-9th-April-2018-26-April-2018-1-4.pdf

6. Programme outcome:

NAME OF THE PROGRAM: B.Sc. ZOOLOGY

PO1	Understand the nature and basic concepts of cell biology, genetics, taxonomy, physiology, ecology and applied Zoology
PO2	Analyze the relationships among animals with their ecosystems
PO3	Perform procedures as per laboratory standards in the areas of Taxonomy, Physiology, Ecology, Cell biology, Genetics, Applied Zoology, Clinical science, tools and techniques of Zoology, Toxicology, Sericulture, Biochemistry, Fish biology, Animal biotechnology, Immunology and research methodology
PO4	Understand the applications of Zoology in Agriculture, Medicine and daily life
PO5	Gains knowledge about research methodologies, effective communication and skills of problem solving methods

6. Course outcome (Pdf to be attached with sign & Stamp of Principal) (Sem wise)
7. Activity Reports: (pdf with Sign & Stamp)
8. Any Other