

Bachelor of Science (B.Sc. Chemistry)

Degree Duration: 3 Years (6 Semesters)

Intake Capacity :120

Chemistry is one of the most fundamental studies related to science. The student graduating with the Degree B.Sc in Chemistry will acquire core competency in all branches (Physical, Inorganic, Organic and Analytical) of Chemistry. Students will be able to understand the basic principles of equipment, instruments used in the chemistry laboratory. The course curriculum also includes components that can be helpful to graduate students to develop critical thinking ability by way of solving problems/numerical using basic chemistry knowledge and concepts. They will appreciate the central role of chemistry in our society and use this as a basis for ethical behaviour in issues facing chemists including an understanding of safe handling of chemicals, environmental issues and key issues facing our society in terms of energy, health and medicine. The course curriculum is designed to inculcate a habit of learning continuously through use of advanced ICT technique and other available techniques/books/journals for personal academic growth as well as for increasing employability opportunity.

Eligibility:

A candidate for being eligible for admission to the three years BSc integrated course leading to the degree of Bachelor of Science (B.Sc. Chemistry) must have passed 12th Science from recognized Board in Science stream.

F.Y.B.Sc

Subjects:

FY Old Syllabus (Mentioned in Table) and FY New Syllabus link is:

<https://mu.ac.in/syllabus-of-nep-2020/syllabus-of-nep-2020-ug-programme>

Semester I		Semester II	
USCH101	Chemistry Paper I	USCH202	Chemistry Paper I
USCH102	Chemistry Paper II	USCH203	Chemistry Paper II
USCHP1	Chemistry Practical	USCHP2	Chemistry Practical

S.Y.B.Sc

Subjects:

Semester III		Semester IV	
USCH301	Paper I(General Chemistry)	USCH401	Paper I(General Chemistry)
USCH302	Paper II(General Chemistry)	USCH402	Paper I(General Chemistry)
USCH303	Paper III (Basic Of Analytical chemistry)	USCH403	Paper III (Basic Of Analytical chemistry)
	Practical		Practical
USCHP1	Chemistry Practical I	USCHP4	Chemistry Practical I
USCHP2	Chemistry Practical II	USCHP5	Chemistry Practical II
USCHP3	Chemistry Practical III	USCHP6	Chemistry Practical III

T.Y.B.Sc**Subjects:**

Semester V		Semester VI	
Core subjects		Core subjects	
USCH501	Physical Chemistry	USCH601	Physical Chemistry
USCH502	Inorganic Chemistry	USCH602	Inorganic Chemistry
USCH503	Organic Chemistry	USCH603	Organic Chemistry
USCH504	Analytical chemistry	USCH604	Analytical chemistry
Applied component		Applied component	
USACDD501	Drugs and Dyes	USACDD502	Drugs and Dyes
USACDD5P1	Practical - Drugs and Dyes	USACDD6P1	Practical - Drugs and Dyes
Practical		Practical	
USCHP05	Practical Physical Chemistry and Inorganic Chemistry	USCHP07	Practical Physical Chemistry and Inorganic Chemistry
USCHP06	Practical - Organic Chemistry and Analytical Chemistry	USCHP08	Practical Organic Chemistry and Analytical Chemistry

Career Options After BSc Chemistry

Almost all industries use chemicals in everything directly or indirectly, like in pharmaceuticals, electronic products, construction, textiles and even in food products. This creates an excellent career opportunity for chemical science graduates as they have vast and in-depth knowledge about the different types of chemicals, their compositions, and their properties after pursuing BSc Chemistry Course. The research laboratories, industries (mainly chemical & pharmaceutical), and colleges & universities are the three major sectors where they recruit chemical graduates.

A sea of career options, starting from industry, government to academic, are available for Chemistry graduates. -

1. Chemist
2. Pharma Assistant
3. Geneticist
4. Laboratory Assistant
5. Clinical Research Specialist
6. Radiologist
7. Researcher
8. Lecturer
9. Toxicologist
10. Biochemist
11. Pharmaceutical Sales Executive
12. Cytologist
13. Technical Writer
14. Analytical Chemist
15. Chemistry Teacher
16. Forensic Scientist
17. Geochemist
18. Hazardous Waste Chemist
19. Materials Scientist
20. Pharmacologist and many more

HAPPY LEARNING

HOD
DEPARTMENT OF CHEMISTRY