

Sr. No.	Name of Programme	Name of Course	Duration of Course	Sanctioned Intake	Eligibility Condition
1	M.Sc.	5 Year Integrated M.Sc.(Physics, Chemistry, Mathematics)	5 Years	90 (30 each for Physics, Chemistry and Mathematics)	10+2 examination with Physics, Chemistry, Mathematics/biology as compulsory subjects with 50 % marks in aggregate (47.50% in case of SC/ST/Blind/Visually Differentially abled etc) from Board of School Education Haryana or any other recognized Board/ university. Candidates having qualified Graduation/Post Graduation examination shall not be eligible. The candidate must have attained the age of 17 years at the time of Admission to the course.

Program-Specific Career Options:

1.	Program of Study and its duration	05 Year Integrated M.Sc. Chemistry Duration: 5 Years
2.	MOU's and Collaboration for this program	Nil
3.	Business Houses/Companies which visits Campus for Recruitment	Paint/Chemicals/Pharmaceutical companies
4.	Details of Business Houses/Companies offering in-industrial projects/ training	As the first batch started in year 2020-2021, the time for industrial projects/training is yet to come. The Local Industries Like Hindustan Gum etc. which have offered project to M.sc. Chemistry students are expected to do the same for 05 Year Integrated M.Sc. Chemistry Course also.
5.	Projects/training offered by University	One Major and two minor projects are to be carried out in last two years of the session.
6.	Entrepreneurship Opportunities	<ul style="list-style-type: none"> • Pharmacy Assistant • Researcher • Clinical Research Associate • Toxicologist • Chemist • Laboratory Assistant • Pharmaceutical Sales • Executive
7.	Opportunities in Education Sector	<ul style="list-style-type: none"> • Assistant Professors • Online Mentor • School Teacher • Research Associate/Assistant
8.	Opportunities as Social Worker	<ul style="list-style-type: none"> • Social Scientist • Medical Social worker • Rural Development Officer
9.	Opportunities in other Nations	<ul style="list-style-type: none"> • Assistant Professor • Research Assistant • Quality Management Analyst
10.	Opportunities as an Academician	<ul style="list-style-type: none"> • Assistant Professor • Chemistry/Biochemistry

		<p>Research Officer</p> <ul style="list-style-type: none"> Analytical Chemistry Application Specialist Research Scientist Research Manager
11.	Opportunities for Nation Development	<ul style="list-style-type: none"> Synthetic Lab Scientist Geo-Chemical Scientist Content Creator Operations Manager Chemists Quality Control Chemists Quality Manager Inspector of Quality Control Innovator
12.	Opportunities as Consultant	<ul style="list-style-type: none"> Consultancy Regarding Establishment of Research Lab Consultancy Regarding Synthetic Research Protocols
13.	Opportunities for self-employment and How program leads to livelihood?	<ul style="list-style-type: none"> Water Treatment Plant Waste management Plant Pharma Company Compost/ Manure/fertilizer Industry Setup Gobar Gas Plant Paint Industry Textile Industry Tutoring Pharmacy
14.	Role/Details of Specific Membership for the program (for eg. CII, AIMA, ISTE, IAA etc.)	<p>The societies like Indian Chemical Society and Indian Science Congress are directly related to the discipline and through membership of these societies students get exposure to the cutting edge research through conferences, workshops etc.</p>
15.	Aptness of the program with future challenges	<p>The program runs with three main specializations, viz organic, inorganic and physical chemistry.</p> <p>Organic chemistry opens avenues of drug designing, provides alternatives for hazardous materials or pollutants. Studies related to petrochemicals, agrochemicals, organometallics etc find utility in day to day life. Inorganic Chemistry involves studies of nanotechnology, supramolecular chemistry etc. which have various applications in advancement of medical techniques. Synthesis of newer materials based on ceramics etc are also part of inorganic</p>

		Chemistry. Fabrication of high capacity energy storage devices, biological sensors etc. are among some of the major applications of physical chemistry. This program can lead the foundation in providing alternatives for energy crisis to be faced in near future. Also, the discipline includes study of various processes involving waste management and waste water treatment which are only ways to deal with the present and future issues related to pollution and water scarcity.
16.	Can program contribute in rural development? How?	Yes. The program provides awareness about natural resources present in rural areas. Testing of the nutrient ions present in soil and replenishment of those depleted in it helps in improvement of quality of soil that in turn leads to better yields of crops. Imparting knowledge on organic farming to the farmers can lead to conservation of soil. Water treatment, rain water harvesting and waste disposal related awareness and also involvement in real practices can lead to conservation of natural resources which are obvious needs of development. Establishment of small gober gas synthesizing units in rural areas can lead to self-sustained development in rural areas. Newer advancement in synthesizing organic fertilizers and organic insect repellents can rejuvenate our rural areas and practices carried out there.
17.	Industrial Visits related to the program made by students	Projects are incorporated into this course which are to be carried out in last two years of the session. As the first batch started in year 2020-2021, the time for project is yet to come and depending on the circumstances like covid-19 etc. the project(s) may include industrial visits so that skills and abilities of the students can be properly groomed through hands-on experience with industry personnel and they become job ready.

Registrar
CBLU, Bhiwani

HOD/Chairperson
Dept. Of Chemistry