



# Central University of Himachal Pradesh

[Established under Central Universities Act 2009] PO Box 21, Dharamshala, District Kangra, Himachal Pradesh [India]-176215 Tel: 01892-229330, 237285, Fax: 01892-229331,

[Website: www.cuhimachal.ac.in](http://www.cuhimachal.ac.in)

## **Programme Specific Outcomes of M.Sc Chemistry ( 2 Year Programme)**

### **Department of Chemistry and Chemical Science**

**About the Department:** Department of Chemistry and Chemical Science started 2 Year M.Sc. Chemistry Programme in 2017. The M.Sc Programme is split in to the four Semester ( Semester I,II,III & IV). In each semester courses are designed to augment the knowledge and skills of the students. M.Sc Chemistry Course involves Practical courses which supplements theory. Semester IV is dedicated specifically to Research where students work on Independent Research projects in area of their interest. Department has Dedicated Faculties and Facilities to help student learn new skills and knowledge. PhD Programme in Department was started in Year 2020. The Department is continuously thriving to grow in terms of Research Instruments, Research Facilities, Research Projects, Research Students and Graduate Students etc. The department cater to the need of students from all over the country. Beside this department of Chemistry and Chemical Science also cater to the need of B.Sc Physics Students of Department of Physics and Astronomical Science by imparting them knowledge in Chemistry through theory and Practical.

### **Programme Objectives (M.Sc Chemistry)**

**PO\_1** To train new generation of Chemists with scientific aptitude, multidisciplinary knowledge and social responsibility towards society.

**PO\_2** To train the students in theory and lab and inculcate research aptitude so that they can cater to need of Industries and research Institutions.

**PO\_3** To train the students in various subdisciplines of Chemistry and prepare them for future career in Academics and Research.

**PO-4** To train the students and expose them to emerging fields of Organic, Inorganic, Physical and Analytical and Nanotechnology so that student can fit in society as per need of various stakeholders.

### **(PSO) Programme Specific Outcomes (M.Sc. Chemistry)**



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After completing the Two year M.Sc Chemistry Programme student is expected

**PSO\_1** to have in-depth basics and applied knowledge of subject and successfully apply their skills and knowledge in their professional, Social and personal Life. Student have developed research inquisitiveness to pursue research and teaching sensitively for betterment of Society.

**PSO\_2** Competent to teach and pursue research in interdisciplinary areas like nanotechnology, Biotechnology etc. Student will have firm grasping of various concepts of organic, Inorganic, Physical, Analytical, Polymer and Nano Chemistry and have sound knowledge in interpreting the analytical and spectroscopic data both qualitatively and quantitatively.

**PSO\_3** The Student will have scientific skills in independently executing specific experiments with limited guidance. Student have developed the skills required for generation of new scientific ideas, implementation leading to innovation with application of Chemistry.

**PSO\_4** Student will have developed the suitable skills to implement the knowledge of Chemistry in their career progression in diverse fields like academics, research Laboratories and Industries etc.