



School of Chemical Sciences and Technology
Department of Chemistry
Established in 1946
Dr Harisingh Gour Vishwavidyalaya
Sagar-MP
(A central University)
www.dhsgsu.ac.in



Criterion 2:- Curricular Aspects

Number of changes made in BOS meeting, followed by faculty meeting and school board meetings that is ratified by Academic Program committee, Academic council and Executive council respectively. Meeting details can be found departmental minutes book and APC minutes in DOAA office/Univ. website.

2.1. Courses Offered- (Choice Based Credit System)

The department currently offers four degree programs: B.Sc., B.Sc.-B.Ed, M.Sc. and PhD.

2.2. Undergraduate- (6 semester)

The B.Sc. and B.Sc.-B.Ed. degree programme are the undergraduate programs designed to impart a thorough fundamental knowledge in all fields of chemistry and its application for the advancement of society. The course layout is demanding and is constantly upgraded to incorporate current advances in chemistry. During the first two years, all students are introduced to basic chemical concepts via lecture and laboratory courses.

2.3. Postgraduate (4 semester)

Students who decide to major in chemistry undergo a thorough training in advanced concepts of chemistry for the next degree level i.e., M. Sc. Final year master students participate in research activities of the group of their choice and undertake a project introducing them to the rigours of chemistry research. The department also provides opportunities to its undergraduate students for pursuing internships at private companies so that they can also gain the “industry” experience.

2.4. PhD Chemistry

In addition to the bachelor and master programs, the department provides a very vibrant Ph.D. program that is followed by a rigorous coursework in advanced topics in chemistry. Graduate students undertake challenging research projects towards their thesis. The aim is to produce independent, creative scientists who are ready to take on the scientific challenges of the future.

The focus of our bachelor and master’s degree program is to inspire and provide the spark and scientific impetus for students to pursue a career in chemistry. Many of our graduates are currently pursuing PhD at renowned institutions worldwide. The institute also has a fully functional placement cell for assisting students who want to join the industry.

2.5. Admission Procedures

1. All India entrance test conducted by Conducted by University at more than 20 centers all over India.
2. Entrance qualified students are called for interview in the case of Ph. D. course / counseling for final selection



3. Reservations according to GoI norms are followed

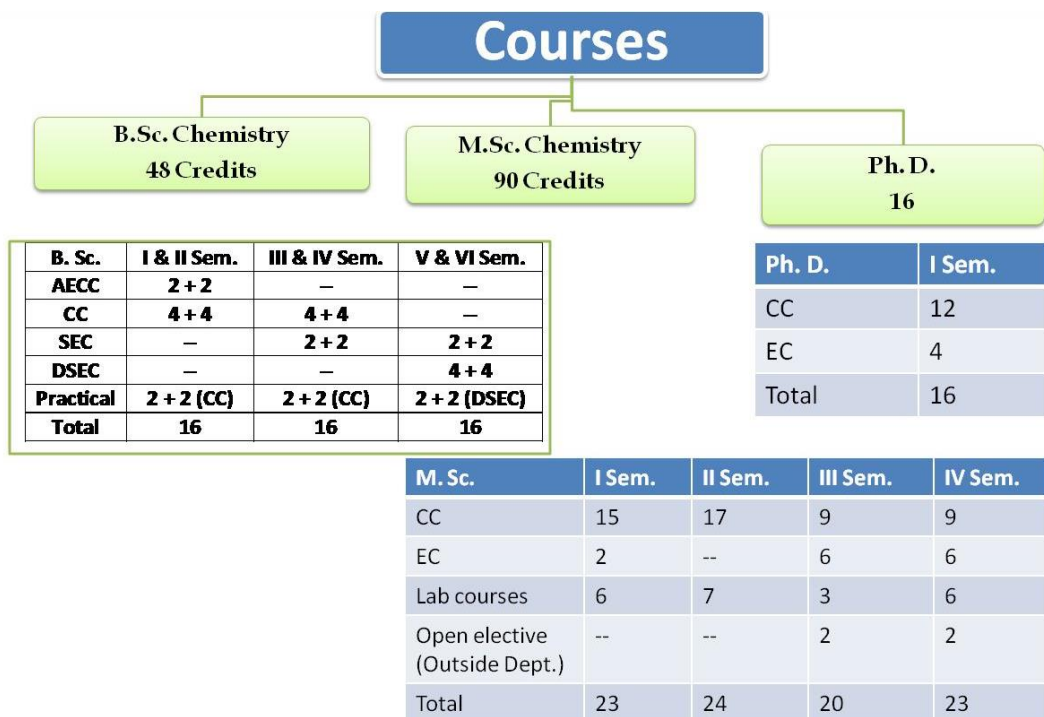
2.6. Curriculum Designing

- The curriculum is designed to cater the present needs of national interest keeping in view of the UGC mandate
- An expert committee designs the syllabus and modifies it according to the current needs of students and industry
- Curriculum is designed so that it could be student friendly and will help in all round development of students.
- Interdisciplinary/Open Elective Courses (at P.G. level)

2.7. System of CBCS in teaching and examination/evaluation criterion

- The course coordinators conduct midterm exam (20%), internal assessment (20%) (assignment/presentation/group discussion) and final Exam (60%) which consists of MCQs (10) SAQs (20) and LAQs (30) with no internal choice. This gives an idea of the bottle necks in material transfer and help course coordinators to conduct his classroom activity.
 - a) Mid I- 20 marks
 - b) Mid II- 15 + 5 marks (Internal assessment + attendance)
 - c) End Sem – 60 marks

The following tabulated chart is representing the brief introduction about these courses:-





2.8. Teaching Methods Adopted and New Courses Designed and Run

The following methods adopted for a quality teaching

1. Chalk and talk, LCD, Field, Symposium and Student Seminars, Home assignments and Parcticals etc.
2. Almost all the faculties are conducting their most of the classroom teaching and practical activities using Information and Communication Technologies (ICT) modes viz., Charts, models, PPT shows, dynamic models, use of net facilities (using online platforms)
3. Teacher's conduct group activities on contents in thrust areas of research like Combinatorial chemistry for structure analysis, Electrochemistry, Drug Designing, Nano material Syntheses etc.
4. Some new Sophisticated Instruments have been installed in University under central Instrumentation facility. PG and research students are made acquaint with operation of such instruments.
5. Developed E-Contents for the four quadrant MOOCs course by MHRD (Chemistry of d-block elements quantum chemistry and spectroscopy. This course is running for consecutive two years (First years with more than 2000 participants) by Dr. Niraj course co-ordinator.