



List of New Course(s) Introduced

Department : Chemistry

Programme Name : B. Sc.

Academic Year : 2022-23

List of New Course(s) Introduced

Sr. No.	Course Code	Name of the Course
01.	CYUCTT1	Physical Chemistry-II
02.	CYUCLT1	Physical Chemistry Practical-II
03.	CYUCTT2	Organic Chemistry-III
04.	CYUCLT2	Organic Chemistry Practical-III
05.	CYUCTT3	Molecular Spectroscopy & Photochemistry
06.	CYUCLT3	Spectroscopy Practical
07.	CYUCTA1	Select one from the Pool of AEC Courses offered
08.	CYUCTG1	3A Physics-I, 3B Mathematics-I, 3C Zoology-I 3D Botany-1, 3E Anthropology-1, 3F Biotechnology-1, 3G Forensic Science-1
09.	CYUCLG1	Generic Elective- Practical-III
10.	CYUCTC1	Select one from the Pool of Value added Courses offered
11.	CYUDTT1	Physical Chemistry-III
12.	CYUDLT1	Physical Chemistry practical-III
13.	CYUDTT2	Inorganic Chemistry-II
14.	CYUDLT2	Inorganic Chemistry practical-II
15.	CYUDTT3	Introduction to Quantum Chemistry
16.	CYUDLT3	Quantum Chemistry Practical
17.	CYUDTA1	Select one from the Pool of AEC Courses offered
18.	CYUDTG1	4A Physics-I, 4B Mathematics-I, 4C Zoology-I 4D Botany-1, 4E Anthropology-1, 4F Biotechnology-1, 4G Forensic Science-1
19.	CYUDLG1	Generic Elective- Practical-IV
20.	CYUDTC1	Select one from the Pool of Value added Courses offered



Minutes of Meetings (MoM) of Board of Studies (BoS)

Academic Year : 2021-22

School : School of Studies of Physical Science

Department : Chemistry

Date and Time : Oct. 28, 2021 - 12:00 noon

Venue : Meeting room

The scheduled meeting of member of Board of Studies (BoS) of Department of Chemistry, School of Studies of Physical Science, Guru Ghasidas Vishwavidyalaya, Bilaspur was held to design and discuss the structure and scheme of examination of Integrated UG/PG, M. Sc. Chemistry syllabi.

The following members were present in the meeting:

1. Dr Santosh Singh Thakur – Chairman
2. Prof. C. R. Sinha – External Expert
3. Prof. G. K. Patra – Member
4. Dr. A. K. Singh– Member
5. Dr. V. K. Rai – Member

Following points were discussed during the meeting

1. In this meeting; the contents of each paper of learning outcome based curriculum framework (LOCF) at undergraduate (UG) level and choice based credit system (CBCS) at postgraduate level (P.G.) were thoroughly discussed and suggestions made by members (both internal and external) were considered and incorporated.
2. The syllabus of Chemistry was thoroughly modified and restructured as per university as well as UGC guidelines.
3. The schemes and syllabus of UG and PG course in Chemistry are attached (Annexure –I and Annexure –II) which would be submitted to the university authority for approval.

The following new courses were introduced in the B. Sc. and M. Sc.:

- ❖ B. Sc. LOCF scheme
- ❖ M. Sc. CBCS scheme

Signature of Head of Department
रसायन शास्त्र विभाग
Deptt. of Chemistry
गुरु घासीदास विश्वविद्यालय,
Guru Ghasidas Vishwavidyalaya,
बिलासपुर 495009 (छ.ग.)
Bilaspur 495009 (C.G.)



Scheme and Syllabus

Semester wise Theory Papers and Practical

B.Sc. Hon's (Chemistry): LOCF 2021-2022

Department of Chemistry, School of Physical Sciences

Course Opted	Course Code	Name of the course	Credit	Hour/week	Internal Assess	End Sem Exam
Semester I						
CC-I Theory	CYUATT1	Inorganic Chemistry-I	3	3	30	70
CC-I Practical	CYUALT1	Inorganic Chemistry Practical-I	2	4	30	70
CC-II Theory	CYUATT2	Organic Chemistry-I	3	3	30	70
CC-II Practical	CYUALT2	Organic Chemistry Practical-I	2	4	30	70
AEC-I Theory	CYUATA1	Select one from the Pool of AEC Courses offered	2	2	30	70
SEC-I Theory	CYUATL1	Select one from the Pool of SEC Courses offered	2	2	30	70
GEC-I Theory	CYUATG1	1A Physics-I, 1B Mathematics-I, 1C Zoology-I, 1D Botany-I, 1E Anthropology-I, 1F Biotechnology-I, 1G Forensic Science-I	3	3	30	70
GEC-I Practical	CYUALG1	Generic Elective- Practical-I	2	4	30	70
Additional Credit Course I	CYUATC1	Select one from the Pool of Value added Courses offered				
TOTAL			19	25	240	560
Semester II						
CC-III Theory	CYUBTT1	Physical Chemistry-I	3	3	30	70
CC-III Practical	CYUBLT1	Physical Chemistry Practical-I	2	4	30	70
CC-IV Theory	CYUBTT2	Organic Chemistry-II	3	3	30	70
CC-IV Practical	CYUBLT2	Organic Chemistry Practical-II	2	4	30	70
AEC-II Theory	CYUBTA1	Select one from the Pool of AEC Courses offered	2	2	30	70
SEC-II Theory	CYUBTL1	Select one from the Pool of SEC Courses offered	2	2	30	70
GEC-II Theory	CYUBTG1	2A Physics-I, 2B Mathematics-I, 2C Zoology-I, 2D Botany-I, 2E Anthropology-I, 2F Biotechnology-I, 2G Forensic Science-I	3	3	30	70
GEC-II Practical	CYUBLG1	Generic Elective- Practical-II	2	4	30	70
Additional Credit Course II	CYUBTC1	Select one from the Pool of Value added Courses offered				
Total			19	25	240	560
Semester III						
CC-V Theory	CYUCTT1	Physical Chemistry-II	3	3	30	70
CC-V Practical	CYUCLT1	Physical Chemistry Practical-II	2	4	30	70
CC-VI Theory	CYUCTT2	Organic Chemistry-III	3	3	30	70
CC-VI Practical	CYUCLT2	Organic Chemistry Practical-III	2	4	30	70
CC-VII Theory	CYUCTT3	Molecular Spectroscopy & Photochemistry	3	3	30	70
CC-VII Practical	CYUCLT3	Spectroscopy Practical	2	4	30	70
AEC-III Theory	CYUCTA1	Select one from the Pool of AEC Courses offered	2	2	30	70
GEC-III Theory	CYUCTG1	3A Physics-I, 3B Mathematics-I, 3C Zoology-I, 3D Botany-I, 3E Anthropology-I, 3F Biotechnology-I, 3G Forensic Science-I	3	3	30	70
GEC-III Practical	CYUCLG1	Generic Elective- Practical-III	2	4	30	70
Additional Credit Course III	CYUCTC1	Select one from the Pool of Value added Courses offered				
Total			22	30	270	630
Semester IV						
CC-VIII Theory	CYUDTT1	Physical Chemistry-III	3	3	30	70
CC-VIII Practical	CYUDLT1	Physical Chemistry practical-III	2	4	30	70
CC-IX Theory	CYUDTT2	Inorganic Chemistry-II	3	3	30	70
CC-IX Practical	CYUDLT2	Inorganic Chemistry practical-II	2	4	30	70
CC-X Theory	CYUDTT3	Introduction to Quantum Chemistry	3	3	30	70
CC-X Practical	CYUDLT3	Quantum Chemistry Practical	2	4	30	70



AEC-IV Theory	CYUDTA1	Select one from the Pool of AEC Courses offered	2	2	30	70
GEC-IV Theory	CYUDTG1	4A Physics-I, 4B Mathematics-I, 4C Zoology-I, 4D Botany-I, 4E Anthropology-I, 4F Biotechnology-I, 4G Forensic Science-I	3	3	30	70
GEC-IV Practical	CYUDLG1	Generic Elective- Practical-IV	2	4	30	70
Additional Credit Course IV	CYUDTC1	Select one from the Pool of Value added Courses offered				
Total			22	30	270	630
Summer Internship*	CYUDLF1		6*	90	30	70
Semester V						
CC-XI Theory	CYUETT1	Inorganic Chemistry-III	3	3	30	70
CC-XI Practical	CYUFLT1	Inorganic Chemistry Practical-III	2	4	30	70
CC-XII Theory	CYUETT2	Analytical Chemistry	3	3	30	70
CC-XII Practical	CYUFLT2	Analytical Chemistry Practical	2	4	30	70
AEC-V Theory	CYUETA1	Select one from the Pool of AEC Courses offered	2	2	30	70
DSE-I Theory	CYUETD1	Select one from the Pool of DSE Courses offered	3	3	30	70
DSE-I Practical	CYUELDT1	Select one from the Pool of DSE Courses offered	2	4	30	70
DSE-II Theory	CYUETD2	Select one from the Pool of DSE Courses offered	3	3	30	70
DSE-II Practical	CYUELDT2	Select one from the Pool of DSE Courses offered	2	4	30	70
Additional Credit Course V	CYUETC1	Select one from the Pool of Value added Courses offered				
TOTAL			22	30	270	630
Semester VI						
CC-XIII Theory	CYUFTT1	Green Chemistry	3	3	30	70
CC-XIII Practical	CYUFLT1	Green Chemistry Practical	2	4	30	70
CC-XIV Theory	CYUFTT2	Materials Chemistry	3	3	30	70
CC-XIV Practical	CYUFLT2	Materials Chemistry Practical	2	4	30	70
DSE-III Theory	CYUFTD1	Select one from the Pool of DSE Courses offered	3	3	30	70
DSE-III Practical	CYUFLDT1	Select one from the Pool of DSE Courses offered	2	4	30	70
Seminar	CYUFSS1	Followed by report submission and seminar	2	4	30	70
Dissertation/Project	CYUFL	Followed by report submission, presentation and Viva-Voce.	7	14	30	70
Additional Credit Course VI	CYUFTC1	Select one from the Pool of Value added Courses offered				
MOOC's**						
TOTAL			24	34	240	560
TOTAL CREDITS AND MARKS			134			

As per UGC LOCF guidelines, University / departments have liberty to offer GEC and SEC courses offered by any department to students of other departments.

The No. of GE course is four. One GEC course is compulsory in first 4 semesters each. In present scheme it is proposed to have minimum two GEC courses (from one subject) in first two semester after which student shall change two GEC for another subject in IIIrd and IVth semester, so that all the student can have exposure of one additional subject.

* May be offered during summer. Summer Internship: duration will be 2-4 weeks (minimum 90 working hours).

** MOOC's courses may be offered at least one time during entire PG programme for the any of Core Course, Generic elective, Discipline specific elective, AEC course, Skill enhancement course available on MOOC's platform time to time. If any such course related to your subject is not available on MOOC's platform, department may continue with regular courses.

[Handwritten signatures and initials]