



List of Programme(s)

Department: Chemistry

List of Programmes having Components of field

Sr. No.	Programme Code	Programme Name	Academic Year
01.	312	M.Sc.	2021-22



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



Scheme

CBCS- Course structure for M. Sc. (Chemistry)

(To be implemented from Session 2021-2022)

SEMESTER - I								
Course Structure	Course Code	Title	T/L	CCA	ESE	Total Marks	Credit	Final credit
CC-1	CYPATT1	Analytical Chemistry I	T-3	40	60	100	3	5
	CYPALT1	Analytical Chemistry Practical I	L-4	40	60	100	2	
CC-2	CYPATT2	Inorganic Chemistry I	T-3	40	60	100	3	5
	CYPALT2	Inorganic Chemistry Practical I	L-4	40	60	100	2	
CC-3	CYPATT3	Organic Chemistry I	T-3	40	60	100	3	5
	CYPALT3	Organic Chemistry Practical I	L-4	40	60	100	2	
CC-4	CYPATT4	Physical Chemistry I	T-3	40	60	100	3	5
	CYPALT4	Physical Chemistry Practical I	L-4	40	60	100	2	
OE	CYPATO1	Polymer Chemistry	T-3	40	60	100	3	5
	CYPALO1	Polymer Chemistry- Practical I	L-4	40	60	100	2	
VAC/ Certificate Course/ Optional	CYPATC1	Refer the List of Value-Added Course (p. 5)	T-2	40	60	100	2	Additional Credit Course
	CYPALC1		L-2	40	60	100	1	
Total Credit							25	
Semester-II								
CC-5	CYPBTT1	Analytical Chemistry II	T-3	40	60	100	3	5
	CYPBLT1	Analytical Chemistry Practical-II	L-4	40	60	100	2	
CC-6	CYPBTT2	Inorganic Chemistry II	T-3	40	60	100	3	5
	CYPBLT2	Inorganic Chemistry Practical-II	L-4	40	60	100	2	
CC-7	CYPBTT3	Organic Chemistry II	T-3	40	60	100	3	5
	CYPBLT3	Organic Chemistry Practical-II	L-4	40	60	100	2	
CC-8	CYPBTT4	Physical Chemistry II	T-3	40	60	100	3	5
	CYPBLT4	Physical Chemistry Practical-II	L-4	40	60	100	2	
CC-9	CYPBTT5	Molecular Spectroscopy	T - 4+1*	40	60	100	5	5
DSE-1	CYPBD1	Instrumental Analytical Techniques	T - 4+1*	40	60	100	5	5
	CYPBD2	Bio-inorganic Chemistry	T - 4+1*	40	60	100	5	
	CYPBD3	Chemistry of Heterocycles	T - 4+1*	40	60	100	5	
	CYPBD4	Solid State Chemistry	T - 4+1*	40	60	100	5	
Remarks: Any one course from DSE-1 will be offered to each student by the Department.								
VAC/ Certificate Course/ Optional	CYPATC1	Refer the List of Value-Added Course (p. 5)	T-2	40	60	100	2	Additional Credit Course
	CYPALC1		L-2	40	60	100	1	
Total Credit							30	
Semester-III								
CC-10	CYPCTT1	Computer Applications in Chemistry	T - 4+1*	40	60	100	5	5
RM	CYPCTA1	Research Methodology	T-2	40	60	100	2	2



OE-2	CYPCTO2	Medicinal Chemistry	T-3	40	60	100	3	5
	CYPCLO2	Medicinal Chemistry Practical	L-4	40	60	100	2	
	CYPDTO3	Industrial Chemistry	T-3	40	60	100	3	
	CYPDLO3	Industrial Chemistry Practical	L-4	40	60	100	2	
Remarks: Any one course each from OE will be offered by the Department.								
DSE-2	CYPCTD1	Principles of Analytical Chemistry	T-3	40	60	100	3	5
	CYPCLD1	Analytical Chemistry Practical III	L-4	40	60	100	2	
	CYPCTD2	Organometallic Chemistry of Transition Metals	T-3	40	60	100	3	
	CYPCLD2	Inorganic Chemistry Practical III	L-4	40	60	100	2	
	CYPCTD3	Stereochemistry, Reactions and Rearrangements	T-3	40	60	100	3	
	CYPCLD3	Organic Chemistry Practical III	L-4	40	60	100	2	
	CYPCTD4	Electrochemistry	T-3	40	60	100	3	
CYPCLD4	Physical Chemistry Practical III	L-4	40	60	100	2		
Remarks: Any one course from DSE-2 will be offered to each student by the Department.								
DSE-3	CYPCTD5	Chemical Analysis	T-3	40	60	100	3	5
	CYPCLD5	Analytical Chemistry Practical IV	L-4	40	60	100	2	
	CYPCTD6	Inorganic Rings, Chains, and Clusters	T-3	40	60	100	3	
	CYPCLD6	Inorganic Chemistry Practical IV	L-4	40	60	100	2	
	CYPCTD7	Chemistry of Natural Products	T-3	40	60	100	3	
	CYPCLD7	Organic Chemistry Practical IV	L-4	40	60	100	2	
	CYPCTD8	Quantum Chemistry	T-3	40	60	100	3	
	CYPCLD8	Physical Chemistry Practical IV	L-4	40	60	100	2	
Remarks: Any one course from DSE-3 will be offered to each student by the Department								
VAC/ Certificate Course/ Optional	CYPCTC1	Refer the List of Value-Added Course (p.5)	T-2	40	60	100	2	Additional Credit Course
	CYPCLC1		L-2	40	60	100	1	
Total Credit							22	
Semester-IV								
CC-11	CYPDTT6	Biological Chemistry	T-3	40	60	100	3	5
	CYPDTL6	Biological Chemistry Practical	L-4	20	30	50	2	
Remarks: Any one course each from OE-2 will be offered by the Department.								
DSE-4	CYPDTD1	Advanced Separation Techniques	T - 4+1*	40	60	100	5	5
	CYPDTD2	Structural Methods in Inorganic Chemistry	T - 4+1*	40	60	100	5	
	CYPDTD3	Organic Spectroscopy for Structural Elucidation	T - 4+1*	40	60	100	5	
	CYPDTD4	Statistical Mechanics	T - 4+1*	40	60	100	5	
Remarks: Any one course from DSE-4 will be offered to each student by the Department								
	CYPDTD5	Electroanalytical Methods	T - 4+1*	40	60	100	5	
	CYPDTD6	Special Topics in Inorganic Chemistry	T - 4+1*	40	60	100	5	



DSE-5	CYPDTD7	Reagents and Reactions in Organic Synthesis	T - 4+1*	40	60	100	5	5
	CYPDTD8	Chemical Kinetics	T - 4+1*	40	60	100	5	
Remarks: Any one course from DSE-5 will be offered to each student by the Department								
DSE-6	CYPDTD9	Environmental Chemistry	T - 4+1*	40	60	100	5	5
D	CYPDDD1	Dissertation/field work/ internship/project/ Industry visit	D-12	40	60	100	6	6
VAC/ Certificate Course/ Optional	CYPATC1	Refer the List of Value-Added Course (p. 5)	T-2	40	60	100	2	Additional Credit Course
	CYPALC1		L-2	40	60	100	1	
Total							26	
MOOC's [#]								
Total Credit				Credit: 103				

CC = Core course DSE = Discipline specific Elective OE = Open Elective T= Theory L=Lab
Course Structure:



List of students undertaking Field Projects/Projects / Internships

Sr. No.	Programme Name	Name of the Student	Link of Certificate
01.	M. Sc. Chemistry	Aarti Rajput	https://www.ggu.ac.in/Admin/Files/Department Document/12022022102834_Aarti%20Rajput%202021-22.pdf
02.	M. Sc. Chemistry	Abhinav Patel	https://www.ggu.ac.in/Admin/Files/Department Document/12022022102923_Abhinav%20Patel.pdf
03.	M. Sc. Chemistry	Aditi Verma	https://www.ggu.ac.in/Admin/Files/Department Document/12022022102957_Aditi%20Verma.pdf
04.	M. Sc. Chemistry	Akash Dewangan	https://www.ggu.ac.in/Admin/Files/Department Document/12012022032703_Akash%20Dewangan.pdf
05.	M. Sc. Chemistry	Amisha Sahu	https://www.ggu.ac.in/Admin/Files/Department Document/12022022110505_Amisha%20Sahu.pdf
06.	M. Sc. Chemistry	Anjali Yadav	https://www.ggu.ac.in/Admin/Files/Department Document/12022022110544_Anjali%20Yadav.pdf
07.	M. Sc. Chemistry	Asmita Sao	https://www.ggu.ac.in/Admin/Files/Department Document/12012022032758_Asmita%20Sao%20



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08.	M. Sc. Chemistry	Bathu Shruthi	https://www.ggu.ac.in/Admin/Files/Department Document/12012022035639 Bathu%20Shruthi%202022.pdf
09.	M. Sc. Chemistry	Bharat Kumar Sahu	https://www.ggu.ac.in/Admin/Files/Department Document/12012022032927 Bharat%20Kumar%20Sahu.pdf
10.	M. Sc. Chemistry	Bhumika Ghritlahare	https://www.ggu.ac.in/Admin/Files/Department Document/12012022033003 Bhumika%20Ghritlahare.pdf
11.	M. Sc. Chemistry	Bikash Chandra Ratha	https://www.ggu.ac.in/Admin/Files/Department Document/12012022033033 Bikash%20Chandra%20Ratha%202022.pdf
12.	M. Sc. Chemistry	Chetna Paikara	https://www.ggu.ac.in/Admin/Files/Department Document/12012022033127 Chetna.pdf
13.	M. Sc. Chemistry	Chitresh Kumar Bareth	https://www.ggu.ac.in/Admin/Files/Department Document/12012022033209 Chitresh%20Kr%20Bareth%202022.pdf
14.	M. Sc. Chemistry	Damarudhar Dehari	https://www.ggu.ac.in/Admin/Files/Department Document/12012022035704 Damarudhar%20Dehari.pdf
15.	M. Sc. Chemistry	Dashrath Bag	https://www.ggu.ac.in/Admin/Files/Department



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16.	M. Sc. Chemistry	Deepak Ratnakar	https://www.ggu.ac.in/Admin/Files/Department/Document/12012022033341_Deepak%20Ratnakar%202022.pdf
17.	M. Sc. Chemistry	Gargee Rathore	https://www.ggu.ac.in/Admin/Files/Department/Document/12022022103050_Gargee%20Rathore.pdf
18.	M. Sc. Chemistry	Garima Dewangan	https://www.ggu.ac.in/Admin/Files/Department/Document/12022022103128_Garima%20Dewangan.pdf
19.	M. Sc. Chemistry	Gayatri Patel	https://www.ggu.ac.in/Admin/Files/Department/Document/12012022033409_gayatri%20patel.pdf
20.	M. Sc. Chemistry	Isha Gupta	https://www.ggu.ac.in/Admin/Files/Department/Document/12022022110623_Isha%20Gupta.pdf
21.	M. Sc. Chemistry	Ishika Dewangan	https://www.ggu.ac.in/Admin/Files/Department/Document/12022022103208_Ishika%20Dewangan.pdf
22.	M. Sc. Chemistry	Kalpana Tidke	https://www.ggu.ac.in/Admin/Files/Department/Document/12022022103300_Kalpana%20Tidke%202021-22.pdf
23.	M. Sc. Chemistry	Kiran Kumari	https://www.ggu.ac.in/A



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24.	M. Sc. Chemistry	Kumari Anchal	https://www.ggu.ac.in/Admin/Files/Department Document/12022022103331_Kumari%20anchal.pdf
25.	M. Sc. Chemistry	Kundan Lahre	https://www.ggu.ac.in/Admin/Files/Department Document/12012022033525_Kundan%20Lahre.pdf
26.	M. Sc. Chemistry	Lokesh Sahu	https://www.ggu.ac.in/Admin/Files/Department Document/12012022033554_Lokesh%20Sahu.pdf
27.	M. Sc. Chemistry	Malwika Baghel	https://www.ggu.ac.in/Admin/Files/Department Document/12012022033658_Manoj%20Kumar%20Barik.pdf
28.	M. Sc. Chemistry	Manoj Kumar Barik	https://www.ggu.ac.in/Admin/Files/Department Document/12012022033658_Manoj%20Kumar%20Barik.pdf
29.	M. Sc. Chemistry	Monali Sahu	https://www.ggu.ac.in/Admin/Files/Department Document/12012022033736_Monali%20Sahu.pdf
30.	M. Sc. Chemistry	Neelam Churendra	https://www.ggu.ac.in/Admin/Files/Department Document/12022022103418_neelam.pdf
31.	M. Sc. Chemistry	Nikita Sahu	https://www.ggu.ac.in/A



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32.	M. Sc. Chemistry	Parimal Kumar Sao	https://www.ggu.ac.in/Aadmin/Files/Department Document/12022022103457_Parimal%20Sao.pdf
33.	M. Sc. Chemistry	Pragati Priyadarshani Das	https://www.ggu.ac.in/Aadmin/Files/Department Document/12012022034003_Pragati%20Priyadarshani%20Das.pdf
34.	M. Sc. Chemistry	Preeti Bhagat	https://www.ggu.ac.in/Aadmin/Files/Department Document/12022022103529_Preeti%20Bhagat%202021-22.pdf
35.	M. Sc. Chemistry	Renu Sahu	https://www.ggu.ac.in/Aadmin/Files/Department Document/12022022103627_Renu%20Sahu%202021-22.pdf
36.	M. Sc. Chemistry	Sadgi Jaiswal	https://www.ggu.ac.in/Aadmin/Files/Department Document/12022022112914_Shadgi%20jaiswal%20202202122022.pdf
37.	M. Sc. Chemistry	Sameera Kheti	https://www.ggu.ac.in/Aadmin/Files/Department Document/12022022103709_Sameera%20Kheti.pdf
38.	M. Sc. Chemistry	Saumy Sharma	https://www.ggu.ac.in/Aadmin/Files/Department Document/12012022034039_saumy%20sharma%202022.pdf



39.	M. Sc. Chemistry	Sejal Sen	https://www.ggu.ac.in/Admin/Files/Department Document/12012022034 112 Sejal%20Sen.pdf
40.	M. Sc. Chemistry	Shatabdi Tripathy	https://www.ggu.ac.in/Admin/Files/Department Document/12022022110 710 Shatabdi%20Tripathy.pdf
41.	M. Sc. Chemistry	Shloka Singh	https://www.ggu.ac.in/Admin/Files/Department Document/12012022034 149 shloka%20singh.pdf
42.	M. Sc. Chemistry	Shraddha Tiwari	https://www.ggu.ac.in/Admin/Files/Department Document/12022022103 757 shraddha.pdf
43.	M. Sc. Chemistry	Shruti Gavel	https://www.ggu.ac.in/Admin/Files/Department Document/12012022034 218 Shruti%20Gavel.pdf
44.	M. Sc. Chemistry	Soniya Masih	https://www.ggu.ac.in/Admin/Files/Department Document/12012022034 245 Soniya%20Masih.pdf
45.	M. Sc. Chemistry	Srishtishree Mahapatra	https://www.ggu.ac.in/Admin/Files/Department Document/12012022034 321 Shrishtishree%20Mahapatra%202022.pdf
46.	M. Sc. Chemistry	Subhashree Sahu	https://www.ggu.ac.in/Admin/Files/Department Document/12012022034 405 Subhashree%20Sahu.pdf
47.	M. Sc. Chemistry	Suhani Jena	https://www.ggu.ac.in/Admin/Files/Department Document/12012022034 405 Suhani%20Jena.pdf



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48.	M. Sc. Chemistry	Tejashwani Sharma	https://www.ggu.ac.in/Admin/Files/Department Document/12012022034438_Tejashwani%20Sharma.pdf
49.	M. Sc. Chemistry	Tulsi Singh Gartia	https://www.ggu.ac.in/Admin/Files/Department Document/12012022034514_Tulsi%20Singh%20Gartia.pdf
50.	M. Sc. Chemistry	Varsha Mahilane	https://www.ggu.ac.in/Admin/Files/Department Document/12022022103841_varsha.pdf
51.	M. Sc. Chemistry	Vartika Thawait	https://www.ggu.ac.in/Admin/Files/Department Document/12022022112737_Vartika%20Thawait%20202202122022.pdf