



### List of New Course(s) Introduced

**Department : Chemistry**

**Programme Name : B. Sc.**

**Academic Year : 2023-24**

### List of New Course(s) Introduced

Sr. No.	Course Code	Name of the Course
01.	CYUETT1	Inorganic Chemistry-III
02.	CYUETT1	Inorganic Chemistry Practical-III
03.	CYUETT2	Analytical Chemistry
04.	CYUETT2	Analytical Chemistry Practical
05.	CYUETA1	Select one from the Pool of AEC Courses offered
06.	CYUETD1	Select one from the Pool of DSE Courses offered
07.	CYUELD1	Select one from the Pool of DSE Courses offered
08.	CYUETD2	Select one from the Pool of DSE Courses offered
09.	CYUELD2	Select one from the Pool of DSE Courses offered
10.	CYUETC1	Select one from the Pool of Value added Courses offered
11.	CYUFTT1	Green Chemistry
12.	CYUFLT1	Green Chemistry Practical
13.	CYUFTT2	Materials Chemistry
14.	CYUFLT2	Materials Chemistry Practical
15.	CYUFTD1	Select one from the Pool of DSE Courses offered
16.	CYUFLD1	Select one from the Pool of DSE Courses offered
17.	CYUFSS1	Followed by report submission and seminar
18.	CYUFL	Followed by report submission, presentation and Viva-Voce.
19.	CYUFTC1	Select one from the Pool of Value added Courses offered



20.	CYUAMJT1	Basic Concepts of Chemistry-I Theory
21.	CYUAMJL1	Basic Concepts of Chemistry-I Lab
22.	CYUAMNT1	Fundamental Chemistry-I Theory
23.	CYUAMNL1	Fundamental Chemistry-I Lab
24.	CYUASET1	Science Communication and Popularization
25.	CYUAMJT2	Basic Concepts of Chemistry-II Theory
26.	CYUAMJL2	Basic Concepts of Chemistry-II Lab
27.	CYUAMNT2	Fundamental Chemistry-II Theory
28.	CYUAMNL2	Fundamental Chemistry-II Lab



### 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.)



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

<b>Academic Year : 2023-24</b>	
<b>School</b>	<b>: School of Studies of Physical Science</b>
<b>Department</b>	<b>: Chemistry</b>
<b>Date and Time</b>	<b>: Nov. 23, 2023 - 12:00 noon</b>
<b>Venue</b>	<b>: Meeting room</b>

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:


6. Prof. G. K. Patra – Chairman
7. Prof. C. R. Sinha – External Expert
8. Prof. C. Arora – Member
9. Dr. A. K. Singh – Member
10. Dr. Manorama – Member
11. Prof. Khemchand Dewangan – Invitee
12. Dr. S. K. Singh – Invitee
13. Dr. S.S. Thakur – Invitee
14. Dr. Arti Shrivastava- Invitee
15. Dr. S. Banerjee – Invitee
16. Dr. Bhaskar Sharma- Invitee
17. Dr. Bharatlal Sahu- Invitee
18. Dr. U.P. Azad-Invitee
19. Dr. Suryabhan Singh-Invitee
20. Dr. Niraj Kumari-Invitee
21. Dr. Bijanneswar Mondal-Invitee

Following points were discussed during the meeting

- Framing of Course structure and Syllabus of Semesters -I and II of 4-Year UG Program as per NEP 2020 and University Ordinance-97 NEP

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

- ❖ B. Sc. NEP scheme

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



## Scheme and Syllabus

AEC-IV Theory	<b>CYUDTA1</b>	Select one from the Pool of AEC Courses offered	2	2	30	70
GEC-IV Theory	<b>CYUDTG1</b>	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	<b>CYUDLG1</b>	Generic Elective- Practical-IV	2	4	30	70
Additional Credit Course IV	<b>CYUDTC1</b>	Select one from the Pool of Value added Courses offered				
<b>Total</b>			<b>22</b>	<b>30</b>	<b>270</b>	<b>630</b>
Summer Internship*	<b>CYUDLF1</b>		6*	90	30	70
<b>Semester V</b>						
CC-XI Theory	<b>CYUETT1</b>	Inorganic Chemistry-III	3	3	30	70
CC-XI Practical	<b>CYUFLT1</b>	Inorganic Chemistry Practical-III	2	4	30	70
CC-XII Theory	<b>CYUETT2</b>	Analytical Chemistry	3	3	30	70
CC-XII Practical	<b>CYUFLT2</b>	Analytical Chemistry Practical	2	4	30	70
AEC-V Theory	<b>CYUETA1</b>	Select one from the Pool of AEC Courses offered	2	2	30	70
DSE-I Theory	<b>CYUETD1</b>	Select one from the Pool of DSE Courses offered	3	3	30	70
DSE-I Practical	<b>CYUELDT1</b>	Select one from the Pool of DSE Courses offered	2	4	30	70
DSE-II Theory	<b>CYUETD2</b>	Select one from the Pool of DSE Courses offered	3	3	30	70
DSE-II Practical	<b>CYUELDT2</b>	Select one from the Pool of DSE Courses offered	2	4	30	70
Additional Credit Course V	<b>CYUETC1</b>	Select one from the Pool of Value added Courses offered				
<b>TOTAL</b>			<b>22</b>	<b>30</b>	<b>270</b>	<b>630</b>
<b>Semester VI</b>						
CC-XIII Theory	<b>CYUFTT1</b>	Green Chemistry	3	3	30	70
CC-XIII Practical	<b>CYUFLT1</b>	Green Chemistry Practical	2	4	30	70
CC-XIV Theory	<b>CYUFTT2</b>	Materials Chemistry	3	3	30	70
CC-XIV Practical	<b>CYUFLT2</b>	Materials Chemistry Practical	2	4	30	70
DSE-III Theory	<b>CYUFTD1</b>	Select one from the Pool of DSE Courses offered	3	3	30	70
DSE-III Practical	<b>CYUFLDT1</b>	Select one from the Pool of DSE Courses offered	2	4	30	70
Seminar	<b>CYUFSS1</b>	Followed by report submission and seminar	2	4	30	70
Dissertation/Project	<b>CYUFL</b>	Followed by report submission, presentation and Viva-Voce.	7	14	30	70
Additional Credit Course VI	<b>CYUFTC1</b>	Select one from the Pool of Value added Courses offered				
<b>MOOC's**</b>						
			2-5	2-5		
<b>TOTAL</b>			<b>24</b>	<b>34</b>	<b>240</b>	<b>560</b>
<b>TOTAL CREDITS AND MARKS</b>			<b>134</b>			

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 semesters after which student shall change two GEC for another subject in III<sup>rd</sup> and IV<sup>th</sup> 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.

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BSc (Chemistry)

DEPARTMENT OF CHEMISTRY  
B. Sc. (Chemistry) Course structure under NEP-2020  
Academic year 2023 - 2024

Sem.	Courses	Course Code	Number of courses	Level	Credits	Credits (L+T+P)	Int. Marks	Ext. Marks	Total
1	Major-I	CYUAMJ T1	Basic Concepts of Chemistry-I (Theory)	2	3	(3+0+0)	30	70	100
		CYUAMJ L1	Basic Concepts of Chemistry-I (Lab)		1	(0+0+1)	30	70	100
	Minor-I		Opted from the Pool Course offered by University	2	4		30	70	100
	Multidisciplinary		Opted from the Pool Course offered by the University	1	3		30	70	100
	AEC		Opted from the Pool Course offered by University	1	2		30	70	100
	SEC		Opted from the Pool Course offered by University	1	3		30	70	100
	VAC-1		Opted from the Pool Course offered by University	1	2		30	70	100
	VAC-2		Opted from the Pool Course offered by University	1	2		30	70	100
	Total				20				800

Courses Offered by the Department of Chemistry/School of Physical Science

Sem.	Courses	Course Code	Number of courses	Level	Credits	Credits (L+T+P)	Int. Marks	Ext. Marks	Total
I	Minor-I Offered by the Department	CYUAMN T1	Fundamental Chemistry-I (Theory)	2	4	(3)	30	70	100
		CYUAMN L1	Fundamental Chemistry-I (Lab)			(1)			
	Multidisciplinary Offered by the School of Physical Sciences and Natural Sciences		Conceptual Understanding of Physical Science - I	1	3	(2+1+0)	30	70	100
	SEC Offered by the Department	CYUASE T1	Science Communication and Popularization	1	3	(2+1+0)	30	70	100



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