



## Guru Ghasidas Vishwavidyalaya (A Central University Established by the Central Universities Act 2009 No. 25 of 2009) Koni, Bilaspur – 495009 (C.G.)

# **Implementation of CBCS / ECS**

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

Academic Year: 2024-25

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 S antosh 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

अध्यक्ष / Head
प्रायन शास्त्र विभान
Deptt. of Chemistry
Signature चासीवास विश्वविद्यालय,
Guru Ghasidas Vishwavidyalaya.
बिलासपुर 495009 (छ.ग.)
Silaspur 495009 (С. G.)

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# Scheme and Syllabus-PG

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

(To be implemented from Session 2021-2022)

		SEMEST	LIC I				255				
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	51			
	CYPALO1	Polymer Chemistry- Practical I	L-4	40	60	100	2	.5			
/AC/	CYPATC1	Refer the List of Value-Added Course	T-2	40	60	100	2	Additional			
Certificate	01111102	(p. 5)	L-2	40	60	100	-	Credit			
Course/ Optional	CYPALC1		1-2	40	60	100	1	Course			
P			0			. 74					
				Total	Credit			25			
		Semest	er-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			
	CYPBTD1	Instrumental Analytical Techniques	T - 4+1*	40	60	100	5				
	CYPBTD2	Bio-inorganic Chemistry	T - 4+1*	40	60	100		5			
DSE-1	СҮРВТОЗ	Chemistry of Heterocycles	T - 4+1*				5				
	CYPBTD4	Solid State Chemistry	T - 4+1*	40	60	100	5				
	TO 1 C. T. ST. T. S.			40	60	100	5				
/AC/	Remarks: Any one course from DSE-1 will be offered to each student by the Departr						2	Additiona			
Certificate Course/ Optional	CYPATC1	Refer the List of Value-Added Course (p. 5)	2	40	80	100	2	Credit			
	CYPALC1	(p. 3)	L-2	40	60	100	1	Course			
				Total	Credit			30			
	N. H.	Semeste	er-III								
CC-10	CYPCTT1	Computer Applications in Chemistry	T - 4+1*	40	60	100	5	5			
RM	CYPCTA1										

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							*	
	CYPCTO2	Medicinal Chemistry	T-3	40	60	100	3	
OE-2	CYPCLO2	Medicinal Chemistry Practical	L-4	40	60	100	2	
	CYPDTO3	Industrial Chemistry	T-3	40	60	100	3	5
	CYPDLO3	Industrial Chemistry Practical	L-4	40	60	100	2	-
	Remarks:	Any one course each from OE will be offere	ed by the Dep		00	100		
	CYPCTD1	Principles of Analytical Chemistry	T-3	40	60	100	3	
	CYPCLD1	Analytical Chemistry Practical III	L-4	40	60	100	2	
	CYPCTD2	Organometallic Chemistry of Transition Metals	T-3	40	60	100	3	
DSE-2	CYPCLD2	Inorganic Chemistry Practical III	L-4	40	60	100	2	- 5
	CYPCTD3	Stereochemistry, Reactions and Rearrangements	T-3	40	60	100	3	
	CYPCLD3	Organic Chemistry Practical III	L-4	40	60	100	-	-
	CYPCTD4	Electrochemistry	T-3		60	100	2	-
	CYPCLD4	Physical Chemistry Practical III	L-4	40	60	100	3	
		Any one course from DSE-2 will be offered		ent by the	Departi	ment.	2	-
	CYPCTD5	Chemical Analysis	12.5		-			
	CYPCLD5	Analytical Chemistry Practical IV	T-3	40	60	100	3	
DOE 3	CYPCTD6	Inorganic Rings, Chains, and Clusters	L-4	40	60	100	2	_ 5
DSE-3	CYPCLD6	Inorganic Chemistry Practical IV	T-3	40	60	100	3	
	CYPCTD7		L-4	40	60	100	2	
	CYPCLD7	Chemistry of Natural Products	T-3	40	60	100	3	
	CYPCTD8	Organic Chemistry Practical IV	L-4	40	60	100	2	
	CYPCLD8	Quantum Chemistry	T-3	40	60	100	3	
		Physical Chemistry Practical IV	L-4	40	60	100	2	
	Kemarks. A	ny one course from DSE-3 will be offered	to each stude	nt by the D	epartm	ent		1
AC/ ertificate ourse/	CYPCTC1	Refer the List of Value-Added Course (p.5)	T-2	40	60	100	2	Additiona
ptional	CYPCLC1		L-2	40	60	100	1	Course
			J	Total C	redit	130		2
		Semeste	r-IV		- Dr.		(6) 15	
CC-11	CYPDTT6	Biological Chemistry	T-3	40	60	100	3	5
	CYPDTL6	Biological Chemistry Practical	L-4	20	30	50	2	1
	1	Remarks: Any one course each from	n OE-2 will be	offered by	the De	partmer	nt.	
DSE-4	CYPDTD1	Advanced Separation Techniques						
	CYPDTD2	Structural Methods in Inorganic Chemistry	T - 4+1* T - 4+1*		60	100	5	
	CYPDTD3	Organic Spectroscopy for Structural Elucidation	T - 4+1*	40	60	100	5	5
	CYPDTD4	Statistical Mechanics	T 4.44	1-				,
	7	Remarks: Any one course from DSE-4 will	T - 4+1*	40	60	100	5	100 1000
	CYPDTD5	Electroanalytical Methods	T - 4+1*			/ Constant		
	CYPDTD6	Special Topics in Inorganic Chemistry		40	60	100	5	
	Land Control of the C	Thorganic Chemistry	T - 4+1*	40	60	100	5	

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DSE-6 CYPDTD9  D CYPDDD1  VAC/ Certificate Course/ Optional CYPALC1	Total Credi	t				Cre	edit: 10
DSE-6 CYPDTD9  D CYPDDD1  VAC/ Certificate Course/	MOOC	's#			2 3 6 4 1		
DSE-6 CYPDTD9  D CYPDDD1  VAC/ Certificate Course/				Total			2
DSE-6 CYPDTD9  D CYPDDD1  VAC/ Certificate CYPATC1	(p. 5)	L-2	40	60	100	1	Course
DSE-6 CYPDTD9	Refer the List of Value-Added Course	T-2	40	60	100	2	Additiona
DSE-6 CYPDTD9	Dissertation/field work/ internship/project/ Industry visit	D-12	40	60	100	6	6
CYPDTD8	D9 Environmental Chemistry	T - 4+1*	40	60	100	5	5
CYPDTD8	Remarks: Any one course from DSE-5 w	vill be offered to	each stu	dent by	the Depa	rtment	
		T - 4+1*	40	60	100	5	1
DSE-5 CYPDTD7	Reagents and Reactions in Organic Synthesis	T - 4+1*	40	60	100	5	5

CC = Core course DSE = Discipline specific Elective Course Structure:

OE = Open Elective T= Theory L=Lat

	List of Value-Added Course (Certificate Course)				
1	Lab Safety Management (Prof. G. K. Patra)				
2	Green Water Technology (Dr. S. K. Singh & Dr. U. P. Azad)				
3	Agrochemicals Formulation (Dr. Charu Arora)				
4	Cement Chemistry (Dr. S. S. Thakur & Prof. G. K. Patra)				
5	Chemistry of Smart Materials and Technology (Dr. Arti Srivastava & Dr. Neeraj Kumari)				
6	Food Adulteration and Testing (Dr. V. K. Rai and Dr. Manorama Singh)				

#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.

T-4+1\*refer to 4 hours Lecture and 1 hour Tutorial

Prof. C. R. Sinha (External Expert)

Prof. G. K. Patra (Member) Dr. V. K. Rai (Member)

(Member)

Dr. S. S. Thakur (HOD)