



Implementation of CBCS / ECS

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 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


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Scheme and Syllabus- UG

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	CYPBTD1	Instrumental Analytical Techniques	T - 4+1*	40	60	100	5	5
	CYPBTD2	Bio-Inorganic Chemistry	T - 4+1*	40	60	100	5	
	CYPBTD3	Chemistry of Heterocycles	T - 4+1*	40	60	100	5	
	CYPBTD4	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

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OE-2	CYPCTO2	Medicinal Chemistry	T-3	40	60	100	3	5
	CYPCLD2	Medicinal Chemistry Practical	L-4	40	60	100	2	
	CYPDPTO3	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	CYPDPT6	Biological Chemistry	T-3	40	60	100	3	5
	CYPDPT6	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	CYPDPTD1	Advanced Separation Techniques	T - 4+1*	40	60	100	5	5
	CYPDPTD2	Structural Methods in Inorganic Chemistry	T - 4+1*	40	60	100	5	
	CYPDPTD3	Organic Spectroscopy for Structural Elucidation	T - 4+1*	40	60	100	5	
	CYPDPTD4	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								
	CYPDPTD5	Electroanalytical Methods	T - 4+1*	40	60	100	5	
	CYPDPTD6	Special Topics in Inorganic Chemistry	T - 4+1*	40	60	100	5	

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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								21
MOOC's [#]								
Total Credit				Credit: 103				


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


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.

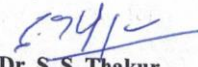
T - 4+1*refer to 4 hours Lecture and 1 hour Tutorial


Prof. C. R. Sinha
(External Expert)


Dr. V. K. Rai
(Member)


Dr. A. K. Singh
(Member)


Prof. G. K. Patra
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Dr. S. S. Thakur
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