



Implementation of CBCS / ECS

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

Academic Year : 2020-21	
School	: School of Studies of Physical Science
Department	: Chemistry
Date and Time	: Nov. 03, 2017 - 11:30 AM
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. Prof. Bali Ram (External Expert Member BoS, Dept. of Chemistry, BHU, Varanasi)
2. Prof. G. K. Patra (Member BoS, Dept. of Chemistry)
3. Dr. Charu Arora (HOD, Associate Prof., Dept. of Chemistry-cum Chairman, BOS)
4. Dr. Arti Srivastava (Member BoS, Assistant Professor, Dept. of Chemistry)

Following points were discussed during the meeting

1. Draft prepared to revise course structure and scheme of examination in the light of UGC directives (as per CBCS Scheme) to be implemented from 2018-19.
2. Elective paper Advanced Quantum and Computational Chemistry (CMT-405) has been incorporated in M.Sc. IV sem.
3. The core paper Organic Chemistry-IV (CBT-503) of B.Sc.-Vth sem has been interchanged with core paper Physical Chemistry-IV (CBT-601) to justify semester wise teaching load.

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

- ❖ B. Sc. CBCS scheme
- ❖ Advanced Quantum and Computational Chemistry (CMT-405)

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



Scheme and Syllabus- UG

B.Sc. Hon's Programme: Department of Chemistry

Semester	Course Opted	Course Code	Name of the course	Credit	Hour / week
I	Core-1	CBT-1	Inorganic Chemistry I:	4	4
	Core -1 Practical	CBL-1	Inorganic Chemistry-I Practical	2	4
	Core -2	CBT-2	Physical Chemistry I:	4	4
	Core -2 Practical	CBL-2	Physical Chemistry-I Practical	2	4
	Generic Elective -1		1A Physics-I 1B Mathematics-I 1C Zoology-I 1D Botany-I	4	4
	Generic Elective - Practical		Generic Elective – Practical-I	2	4
	Ability Enhancement Compulsory Course (AECC)		English Communication / MIL	4	4
	ECA		ECA-Extracurricular activity/ Tour, Field visit/ Industrial training/ NSS/ Swachhta/ vocational Training/ Sports/ others	2	(2)
		TOTAL	24	28	
II	Core-3	CBT-3	Organic Chemistry-I	4	4
	Core -3 Practical	CBL-3	Organic Chemistry-I Practical	2	4
	Core -4	CBT-4	Physical Chemistry-II	4	4
	Core -4 Practical	CBL-4	Physical Chemistry-II Practical	2	4
	Generic Elective -2		2A Physics-II 2B Mathematics-II 2C Zoology-II 2D Botany-II	4	4
	Generic Elective - Practical		Generic Elective – Practical-II	2	4
	Ability Enhancement Compulsory Course (AECC)		Environmental Science	4	4
	ECA		ECA-Extracurricular activity/ Tour, Field visit/ Industrial training/ NSS/ Swachhta/ vocational Training/ Sports/ others	2	(2)
		Total	24	28	

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SUMMER Internship: 15 days			Swayam Swachhta / NSS / Industrial/ others	2	100
III	Core-5	CBT-5	Inorganic Chemistry II	4	4
	Core -5 Practical	CBL-5	Inorganic Chemistry II: Practical	2	4
	Core -6	CBT-6	Organic Chemistry-II	4	4
	Core -6 Practical	CBL-6	Organic Chemistry-II : Practical	2	4
	Core - 7	CBT-7	Physical Chemistry-III	4	4
	Core - 7 Practical	CBL-7	Physical Chemistry-III: Practical	2	4
	Generic Elective -3		3A 3B 3C 3D	4	4
	Generic Elective - Practical			2	4
	Skill Enhancement Course (SEC - 1)		Select one from the Pool of SEC courses offered by different departments	4	2 (4)
			Total	28	34
IV	Core-8	CBT-8	Inorganic Chemistry III:	4	4
	Core -8 Practical	CBL-8	Inorganic Chemistry III: Practical	2	4
	Core -9	CBT-9	Organic Chemistry III	4	4
	Core -9 Practical	CBL-9	Organic Chemistry III: Practical	2	4
	Core - 10	CBT-10	Physical Chemistry-IV	4	4
	Core -10 Practical	CBL-10	Physical Chemistry-IV: Practical	2	4
	Generic Elective - 4		4A 4B 4C 4D	4	4
	Generic Elective - Practical			4	4
	Skill Enhancement Course (SEC -2)		Select one from the Pool of SEC courses offered by different departments	4*	2 (4)
			TOTAL	28	34
SUMMER Internship: 15 days			Swayam Swachhta / NSS / Industrial/ others	2	100
V	Core-11	CBT-11	Organic Chemistry IV	4	4
	Core -11 Practical	CBL-11	Organic Chemistry IV: Practical	2	4

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	Core -12	CBT-12	Physical Chemistry-V	4	4
	Core -12 Practical	CBL-12	Physical Chemistry-V: Practical	2	4
	Discipline Specific Elective (DSE-1)	DSE-1-THEORY	DSE-I : Theory	4	4
	DSE-1 - Practical	DSE-1-LAB	DSE-I: Practical	2	4
	Discipline Specific Elective (DSE-2)	DSE-2-THEORY	DSE-II : Theory	4	4
	DSE-2 - Practical	DSE-2-LAB	DSE-II: Practical	2	4
			TOTAL	24	32
VI	Core-13	CBT-13	Inorganic Chemistry IV	4	4
	Core -13 Practical	CBL-13	Inorganic Chemistry IV: Practical	2	4
	Core -14	CBT-14	Organic Chemistry V	4	4
	Core -14 Practical	CBL-14	Organic Chemistry V: Practical	2	4
	Discipline Specific Elective (DSE-3)	DSE-3-THEORY	DSE-III : Theory	4	4
	DSE-3 - Practical	DSE-3-LAB	DSE-III: Practical	2	4
	Discipline Specific Elective (DSE-4) + DSE-4 – Practical	DSE-4-Project	Dissertation/ Project work followed by seminar	4+2=6 Or 5+1=6	8
	Or Dissertation/ Project work followed by seminar				
			TOTAL	24	32
				TOTAL CREDITS	152 + 4 (SI)

As per UGC CBCS guidelines, University / departments have liberty to offer GE and SEC courses offered by one department to students of other departments. The No. of GE course is four. One GE course is compulsory in first 4 semesters each.
 Minimum One Skill Enhancement course shall be proposed by each department. (4 credits) [4 L or 2L + 2P or 1L + 3P or 3L + 1T] 1P = 2 hours

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CHEMISTRY-DSE I-IV (ELECTIVES)

CHEMISTRY-DSE-I:	ANALYTICAL METHODS IN CHEMISTRY
CHEMISTRY-DSE-II:	BIOCHEMISTRY
CHEMISTRY-DSE-III:	NOVEL INORGANIC SOLIDS
CHEMISTRY-DSE-IV:	POLYMER CHEMISTRY
CHEMISTRY-DSE-V:	APPLICATIONS OF COMPUTERS IN CHEMISTRY
CHEMISTRY-DSE-VI:	RESEARCH METHODOLOGY FOR CHEMISTRY
CHEMISTRY-DSE-VII:	GREEN CHEMISTRY

SKILL ENHANCEMENT COURSE (ANY TWO) (CREDIT: 02 EACH)

SEC-1:	BASIC ANALYTICAL CHEMISTRY
SEC-2:	INTELLECTUAL PROPERTY RIGHTS (IPR)
SEC-3:	GREEN METHODS IN CHEMISTRY
SEC-4:	PHARMACEUTICAL CHEMISTRY
SEC-5:	CHEMISTRY OF COSMETICS & PERFUMES
SEC-6:	PESTICIDE CHEMISTRY

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Cham Akshay
Signature of the Head of the department

NAME OF THE GENERIC ELECTIVES OFFERED BY YOUR DEPARTMENT

1. SEMESTER I: Physical Chemistry
2. SEMESTER II: Inorganic Chemistry
3. SEMESTER III: Organic Chemistry
4. SEMESTER IV: Analytical Chemistry

Cham Akshay
Signature of the Head of the department