



Implementation of CBCS / ECS

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

Academic Year : 2020-21

School : School of Physical Sciences

Department : Chemistry

Date and Time : Sept. 04, 2020 - 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 Sciences, Guru Ghasidas Vishwavidyalaya, Bilaspur was held to design and discuss the contents of each paper of U.G (CBCS) program and continuing elective course system (ECS) since 2009, P.G. program by members (both internal and external).

The following members were present in the meeting:

1. Prof. A. Mittal (External Expert Member BoS, Dept. of Chemistry, MNIT Bhopal)
2. Prof. G. K. Patra (Member BoS, Dept. of Chemistry, GGV.)
3. Prof. Tanmay Kumar Ghorai (HOD, Dept. of Chemistry-cum Chairman, BOS)
4. Dr. S. K. Singh (Member BoS, Associate Professor, Dept. of Chemistry)
5. Dr. S. Banerjee (Member, Assistant Professor, Dept. of Chemistry)

Following points were discussed during the meeting

1. The syllabus of Chemistry Generic Elective was thoroughly modified.
2. The content of existing Quantum Mechanics Paper [CMT-304(P)] of M.Sc. III Semester Physical Chemistry special was also modified on request of the teachers of Physical Chemistry Special.

The committee discussed and approved the scheme and syllabi. The following courses were revised in the B. Sc. (I, II, III and IV Semesters) and M. Sc. III Semesters:

- ❖ PSCHGE0101L Generic Elective - I
- ❖ PSCHGE0101P Generic Elective - I Practical
- ❖ PSCHGE0202L Generic Elective - 2
- ❖ PSCHGE0202P Generic Elective - 2 Practical
- ❖ PSCHGE0303L Generic Elective - 3
- ❖ PSCHGE0303P Generic Elective - 3 Practical
- ❖ PSCHGE0404L Generic Elective - 4
- ❖ PSCHGE0404P Generic Elective - 4 Practical
- ❖ CMT-304 (P) Quantum Chemistry

सहस्यक्ष/Head
Signature of G. K. Patra
Deptt. of Chemistry

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Scheme and Syllabus- PG

Department of Chemistry School of Physical Sciences Guru Ghasidas Vishwavidyalaya Bilaspur-495 009

Course structure for M. Sc. (Chemistry)
(To be implemented from Session 2012-13)

Semester -I

1 Credit = 1 hour/week

Course Code	Title	Credits
CMT-101	Analytical Chemistry I	3
CMT-102	Inorganic Chemistry I	3
CMT-103	Organic Chemistry I	3
CMT-104	Physical Chemistry I	3
CMT-105	Polymer Chemistry	3
CMP-106	Inorganic Chemistry Practical	2
CMP-107	Organic Chemistry Practical	2
CMP-108	Physical Chemistry Practical	2
CMP-109	Analytical Chemistry Practical	2
Total:		21+2
<u>Semester-II</u>		
CMT-201	Analytical Chemistry II	3
CMT-202	Inorganic Chemistry II	3
CMT-203	Organic Chemistry II	3
CMT-204	Physical Chemistry II	3
CMT-205	Chemical Binding	3
CMP-206	Inorganic Chemistry Practical	2
CMP-207	Organic Chemistry Practical	2
CMP-208	Physical Chemistry Practical	2
CMP-209	Analytical Chemistry Practical	2
Total :		21+2
<u>Semester-III</u>		
CMT-301	Molecular Spectroscopy (Core Paper)	3
CMT-302	Bio-Molecules and Bio-Catalysts (Core Paper)	3
CMT-303	Specialization Paper-I (A/I/O/P)*	3
CMT-304	Specialization Paper-II (A/I/O/P)*	3
CMT-305-308	Elective Paper I (Any one out of the four papers)*	3
CMP-309	Practical (A/I/O/P)*	6
Total :		21
<u>Semester-IV</u>		
CMT-401	Computer Applications in Chemistry (Core Paper)	3
CMT-402	Specialization Paper-I (A/I/O/P)*	3
CMT-403	Specialization Paper-II (A/I/O/P)*	3
CMT-404	Specialization Paper-III (A/I/O/P)*	3
CMT-405-408	Elective Paper II	3
CMP-409	Project	6

Signature



I- Inorganic Chemistry O-Organic Chemistry P-Physical Chemistry

+4

Elective Papers

+Elective - I

CMT-305	Forensic Analysis
CMT-306	Chemical Applications of Group Theory
CMT-307	Medicinal Chemistry (Core Paper)
CMT-308	Physical Methods in Chemistry

****Elective - II**

CMT-405	Environmental Chemistry
CMT-406	Photo Inorganic Chemistry
CMT-407	Bioorganic Chemistry
CMT-408	Materials Chemistry

* Details of specialization courses are given on the next page

*** Details of Specialization Papers**

Semester - III

Specialization Papers - I & II

Credit

Analytical Chemistry

CMT-303 (A):	Principles of Analytical Chemistry	3
CMT -304 (A):	Microanalytical Techniques	3

Inorganic Chemistry

CMT -303 (I):	Organometallic Chemistry of Transition Metals	3
CMT -304 (I):	Bio-inorganic Chemistry	3

Organic Chemistry

CMT -303 (O):	Stereochemistry, Reactions and Rearrangements	3
CMT -304 (O):	Chemistry of Natural Products	3

Physical Chemistry

CMT -303 (P):	Electrochemistry	3
CMT -304 (P):	Quantum Chemistry	3

CMT 305 Practical

CMP -309 (A):	Analytical Chemistry Practical	6
CMP -309 (I):	Inorganic Chemistry Practical	6
CMP -309 (O):	Organic Chemistry Practical	6
CMP -309 (P):	Physical Chemistry Practical	6

Semester - IV

Specialization Papers - I, II, III

Analytical Chemistry

CMT -402 (A):	Separation Techniques	3
CMT -403 (A):	Electroanalytical Methods	3
CMT -404 (A):	Spectrochemical Analysis	3

Inorganic Chemistry

CMT -402 (I):	Structural Methods in Inorganic Chemistry	3
CMT -403 (I):	Inorganic Rings, Chains, and Clusters	3
CMT -404 (I):	Special Topics in Inorganic Chemistry	3

Organic Chemistry

CMT -402 (O):	Application of Spectroscopy to Structural Analysis	3
CMT -403 (O):	Reagents and Organic Synthesis	3

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CMT -404 (O):	Heterocycles and Vitamins	3
<i>Physical Chemistry</i>		
CMT -402 (P):	Statistical Mechanics	3
CMT -403 (P):	Solid State Chemistry	3
CMT -404 (P):	Chemical Kinetics	3
CMP-409: Project		
CMP -409 (A):	Analytical Chemistry	6
CMP -409 (I):	Inorganic Chemistry	6
CMP -409 (O):	Organic Chemistry	6
CMP -409 (P):	Physical Chemistry	6