



List of New Course(s) Introduced

Department : Chemistry

Programme Name : B. Sc.

Academic Year : 2024-25

List of New Course(s) Introduced

Sr. No.	Course Code	Name of the Course
01.	CYUCMJT1	Basic Concepts of Chemistry-III
02.	CYUCMJL1	Basic Concepts of Chemistry-III (Lab)
03.	CYUCMJT2	Basic Concepts of Chemistry-IV
04.	CYUCMJL2	Basic Concepts of Chemistry-IV (Lab)
05.	MDCCY01	Chemistry in Everyday Life
06.	MDCCY03	Chemistry of Food, Nutrition, and Preservation
07.	SECCY01	Science Communication and Popularization
08.	VOCCYT02	Cement Chemistry
09.	VOCCYL02	Cement Chemistry Practical
10.	VOCCYT01	Green Water Technology
11.	VOCCYL01	Green Water Technology (Lab)
12.	CYUDMJT1	Inorganic Chemistry-I
13.	CYUDMJL1	Inorganic Chemistry-I (Lab)
14.	CYUDMJT2	Organic Chemistry-I
15.	CYUDMJL2	Organic Chemistry-I (Lab)
16.	CYUDMJT3	Physical Chemistry-I
17.	CYUDMJL3	Physical Chemistry-I (Lab)



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 : Jan. 19, 2025 - 4:00 pm

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:

Prof. Samar Das – External Subject Expert
Mrs. Pushpa Ambrose- External expert from Industry

Prof. G.K. Patra – Chairman

Prof. Charu Arora – Member

Prof. Asish Kumar Singh- Member

Prof. Khemchand Dewangan- Member

Prof. Manorama- Member

Dr. S. K. Singh – Invitee

Dr. S.S. Thakur- Member

Dr. Arti Shrivastava- Invitee

Dr. S. Banerjee – Invitee

Dr. Bhaskar Sharma- Invitee

Dr. Suryabhan Singh-Member

Dr. Bharatlal Sahu- Invitee

Dr.U.P. Azad- Invitee

Dr. Niraj Kumari-Invitee

Dr. Bijanneswar Mondal-Invitee

Following points were discussed during the meeting

Resolution of Agenda Item (a)

At the outset of the meeting drafts of revised course structure and syllabus of B.Sc. II Semester and draft of course structure and syllabus

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of B.Sc. IV Semester of 4-Year UG Program as per NEP 2020 prepared by the faculty members of the Department were presented.

The course content of the Major Paper of B.Sc. II Sem, 'Basic Concepts of Chemistry II) has been revised. After thorough discussion the course structures and the course contents of B.Sc. II and IV Semesters were approved with the incorporation of the suggestions of the honourable external members of the BoS.

Resolution of Agenda Item (b):

According to the University's NEP Ordinance, a four-credits vocal course must be added to the B.Sc. II and B.Sc. IV semester curricula independently. To this endeavour the drafts of two VOC Papers titles of which are (i) Green Water Technology and (ii) Cement Chemistry have been put forward in the meeting. The course contents were also thoroughly discussed. After comprehensive discussion the course contents of (i) Green Water Technology and (ii) Cement Chemistry were approved with the addition of some topic as suggested by the external experts. It was resolved that the VOC Paper Green Water Technology is suitable for B.Sc. II Semester and Cement Chemistry is suitable for B.Sc. IV Semester.

Resolution of Agenda Item (c):

MOOCs coordinator of the Department submitted the following details of the ongoing SWAYAM courses to be offered as MOOCs courses for UG PG Programmes.

Course Name	Faculty & Institute	Course type & Credits	Registration details
For B.Sc. Sem-IV Students			
Advanced Transition Metal Organometallic Chemistry	Prof. P. Ghosh IIT Bombay	Core 3 credits 12 weeks	Start Date : 20 Jan 2025 End Date : 11 Apr 2025 Enrollment Ends : 27 Jan 2025 Exam Registration Ends : 14 Feb 2025 Exam Date : 27 Apr 2025
Elementary Electrochemistry	Prof. Angshuman Roy Choudhury IISER Mohali	Core 2 credits 8 weeks	Start Date : 20 Jan 2025 End Date : 14 Mar 2025 Enrollment Ends : 27 Jan 2025 Exam Registration Ends : 14 Feb 2025 Exam Date : 22 Mar 2025
For M.Sc. Sem-II Students			
Chemistry Of Main Group Elements	Prof. M. S. Balakrishna IIT Bombay	Core 3 credits 12 weeks	Start Date : 20 Jan 2025 End Date : 11 Apr 2025 Enrollment Ends : 27 Jan 2025 Exam Registration Ends : 14 Feb 2025 Exam Date : 27 Apr 2025
Pericyclic Reactions and Organic Photochemistry	Prof. S. Sankararaman IIT Madras	Core 2 credits 8 weeks	Start Date : 20 Jan 2025 End Date : 14 Mar 2025 Enrollment Ends : 27 Jan 2025 Exam Registration Ends : 14 Feb 2025 Exam Date : 22 Mar 2025

अध्यक्ष/Head
रसायन शास्त्र विभाग
Deptt. of Chemistry



The members of BoS after discussion unanimously approved the MOOCs Courses (i) Advanced Transition Metal Organometallic Chemistry (3 credits) and (ii) Elementary Electrochemistry (2 credits) for B.Sc. IV Semester & (iii) Chemistry of Main Group Elements and (iv) Pericyclic Reactions and Organic Photochemistry for M.Sc. II Semester. This MoM is to be submitted to the competent authority for kind approval. The meeting ended with vote of thanks from the chair.

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Signature & Seal



Scheme and Syllabus

Course Structure Under NEP-2020 4-Years B.Sc.-Chemistry (to be implemented from 2023-2024) SEMESTER-III

Sem.	Courses	Course Code	Name of the Courses	Level	Credits	Credits (L+T+P)	Int. Marks	Ext. Marks	Total	Nature of Course*
III	Major-I	CYUCMJT1	Basic Concepts of Chemistry-III	3	3	(3+0+0)	30	70	100	Compulsory
		CYUCMJL1	Basic Concepts of Chemistry-III (Lab)		1	(0+0+1)	30	70	100	Compulsory
	Major-II	CYUCMJT2	Basic Concepts of Chemistry-IV	3	3	(3+0+0)	30	70	100	Compulsory
		CYUCMJL2	Basic Concepts of Chemistry-IV (Lab)		1	(0+0+1)	30	70	100	Compulsory
	Minor Or VOC		Opted from the pool of courses offered by Vishwavidyalaya	3	4					Elective
	MDC		Opted from the pool of courses offered by Vishwavidyalaya	1	3					Elective
	AEC		Opted from the pool of courses offered by Vishwavidyalaya	1	2	(2+0+0)	30	70	100	Elective
	SEC		Opted from the pool of courses offered by Vishwavidyalaya	1	3					Elective
Total Credits					20					

*The course (compulsory/elective) may be substituted with another online course in the same category.

MDC: Multidisciplinary Course

L: Lectures

AEC: Ability Enhancement Course

T: Tutorials

SEC: Skills Enhancement Course

P: Practicals

VOC: Vocational Course

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Course Structure Under NEP-2020

4-Years B.Sc.-Chemistry

(to be implemented from 2023-2024)

SEMESTER-IV

Sem.	Courses	Course Code	Name of the Courses	Level	Credits	Credits (L+T+P)	Int. Marks	Ext. Marks	Total	Nature of Course*
IV	Major-I	CYUDMJT1	Inorganic Chemistry-I	3	4	(4+0+0)	30	70	100	Compulsory
		CYUDMJL1	Inorganic Chemistry-I (Lab)		1	(0+0+1)	30	70	100	Compulsory
	Major-II	CYUDMJT2	Organic Chemistry-I	3	4	(4+0+0)	30	70	100	Compulsory
		CYUDMJL2	Organic Chemistry-I (Lab)		1	(0+0+1)	30	70	100	Compulsory
	Major-III	CYUDMJT3	Physical Chemistry-I	3	3	(3+0+0)	30	70	100	Compulsory
		CYUDMJL3	Physical Chemistry-I (Lab)		1	(0+0+1)	30	70	100	Compulsory
	Minor Or VOC		Opted from the pool of courses offered by Vishwavidyalaya	3	4					Elective
	AEC		Opted from the pool of courses offered by Vishwavidyalaya	1	2	(2+0+0)	30	70	100	Elective
Total Credits					20					

*The course (compulsory/elective) may be substituted with another online course in the same category.

AEC: Ability Enhancement Course

VOC: Vocational Course

L: Lectures

T: Tutorials

P: Practicals