# CURRICULUM

#### UNDER CHOICE BASED CREDIT SYSTEM

(w.e.f session 2016-2017)

# **MASTER OF SCIENCE (MSC)**

**PROGRAMME** 

IN

Chemistry

SIDHO-KANHO-BIRSHA UNIVERSITY PURULIA, WEST BENGAL

# Curriculum

# MASTER OF SCIENCE (MSC) PROGRAMME IN

# CHEMISTRY

(w.e.f academic session: 2016-2017)

	Course Code	Course Title	Credit	Marks	
SEM-1	MCHECCT101	General Chemistry -I	4	40+10	
	MCHECCT102	Inorganic Chemistry -I	4	40+10	
	MCHECCT103	Organic Chemistry -I	4	40+10	
	MCHECCT104	Physical Chemistry -I	4	40+10	
	MCHECCS105	Inorganic Chemistry Practical		50	
	MCHECCS106	Organic Chemistry Practical	4	50	
	MCHECCT201	Analytical Chemistry	4	40+10	
	MCHECCT202	Inorganic Chemistry -II	4	40+10	
	MCHECCT203	Organic Chemistry -II	4	40+10	
SEM-2	MCHECCT204	Physical Chemistry -II	4	40+10	
	MCHECCS205	Physical Chemistry Practical	4	50	
	MCHECCS206	Analytical Chemistry Practical & Data Processing	4	50	
	T		1		
	MCHECCT301	Advanced General Chemistry-I	4	40+10	
	MCHECCT302	Advanced General Chemistry-II	4	40+10	
SEM-3	MCHEMET303	Paper I of opted Major Elective Group	4	40+10	
3LIVI-3	MCHEOET304	OPEN ELECTIVE	4	50	
	MCHEMES305	Paper II of opted Major Elective Group	4	50	
	MCHEOPS306	OUTREACH PROGRAMME	4	50	
	MCHEMET401	Paper III of opted Major Elective Group	4	40+10	
SEM-4	MCHEMET402	Paper IV of opted Major Elective Group	4	40+10	
	MCHEMET403	Paper V of opted Major Elective Group	4	40+10	
JLIVI-4	MCHEACT404	ADD-ON COURSE	4	50	
	MCHEMES405	Paper VI of opted Major Elective Group	4	50	
	МСНЕМЕР406	Project & Dissertation	4	50	

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# MASTER OF SCIENCE (MSc) PROGRAMME IN CHEMISTRY

## LIST OF MAJOR ELECTIVE COURSES

Students of the **CHEMISTRY** course are required to study **ONE** Group from the available groups (if any)

### **Group-A**

Paper	r Course Ref Code Course Title		Credit	Marks
1	MCHEMET303A	Inorganic Chemistry Special-I	4	40+10
П	MCHEMES305A	Inorganic Chemistry Special Practical-I	4	50
III	MCHEMET401A	Inorganic Chemistry Special-II	4	40+10
IV	MCHEMET402A	Inorganic Chemistry Special-III	4	40+10
V	MCHEMET403A	Inorganic Chemistry Special-IV	4	40+10
VI	MCHEMES405A	Inorganic Chemistry Special Practical-II	4	50

#### **Group-B**

Paper	Course Ref Code	Course Title	Credit	Marks
1	МСНЕМЕТЗОЗВ	Organic Chemistry Special-I	4	40+10
II	MCHEMES305B	Organic Chemistry Special Practical-I	4	50
III	MCHEMET401B	Organic Chemistry Special-II	4	40+10
IV	MCHEMET402B	Organic Chemistry Special-III	4	40+10
V	MCHEMET403B	Organic Chemistry Special-IV	4	40+10
VI	MCHEMES405B	Organic Chemistry Special Practical-II	4	50

#### **Group-C**

Paper	Course Ref Code	Course Title	Credit	Marks
1	MCHEMET303C	Physical Chemistry Special-I	4	40+10
II	MCHEMES305C	Physical Chemistry Special Practical-I	4	50
III	MCHEMET401C	Physical Chemistry Special-II	4	40+10
IV	MCHEMET402C	Physical Chemistry Special-III	4	40+10
V	MCHEMET403C	Physical Chemistry Special-IV	4	40+10
VI	MCHEMES405C	Physical Chemistry Special Practical-II	4	50

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## MASTER OF SCIENCE (MSC) PROGRAMME

## LIST OF OPEN ELECTIVE COURSES

Students of the **CHEMISTRY** course are required to study **ONE** Open Elective Course from the following list of courses to be selected from the courses not offered by the department of **CHEMISTRY**.

Course ref Code	Course Title	Offered by Department	Credit	Marks
MOE1	Gerontology	Anthropology & Tribal Studies	4	50
MOE2	Bangla Sahityo o Sanskriti	Bengali	4	50
MOE3	Sustainable Agriculture and Food Security	Botany	4	50
MOE4	Entrepreneurship Developments	Commerce	4	50
MOE5	Essence of Chemistry	Chemistry	4	50
MOE6	Intellectual Property Rights	Economics	4	50
MOE7	Yoga Education	Education	4	50
MOE8	Business English and Grammar	English	4	50
МОЕ9	Land and People	Geography	4	50
MOE10	Urban Study	History	4	50
MOE11	Statistical Methods	Mathematics	4	50
MOE12	Modern Indian Thoughts	Philosophy	4	50
MOE13	Nature of Universe and Concepts of Physics: Inventions and Applications	Physics	4	50
MOE14	Human Rights Study	Political Science	4	50
MOE15	Ancient Indian Culture and Science	Sanskrit	4	50
MOE16	Communicative Santali	Santali	4	50
MOE17	Social Relations	Sociology	4	50
MOE18	Biodiversity and Wildlife Conservation	Zoology	4	50

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# MASTER OF SCIENCE (MSC) PROGRAMME

# LIST OF ADD-ON COURSES

Students of the **CHEMISTRY** course are required to study **ONE** Add-On course from the following list of courses

Course ref Code	Course Title	Offered by Department	Credit	Marks
MAC1	Environmental protection and management	Botany	4	50
MAC2	Statistical Analysis	Economics	4	50
MAC3	Communicative English	English	4	50
MAC4	Computer Application	Mathematics	4	50
MAC5	Value Based Education	Philosophy	4	50
MAC6	Indian Constitution	Political Science	4	50
MAC7	Communicative Sanskrit	Sanskrit	4	50
MAC8	Health, hygiene, sanitization	Zoology	4	50
MAC9	Community Resource Management	Anthropology and Tribal Science	4	50
MAC10	Sociology and Social Work	Sociology	4	50
MAC11	Indian History: Heritage and Culture	History	4	50

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