

# **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**

# SIDHO-KANHO-BIRSHA UNIVERSITY

## 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	4	50
	MCHECCS106	Organic Chemistry Practical	4	50
SEM-2	MCHECCT201	Analytical Chemistry	4	40+10
	MCHECCT202	Inorganic Chemistry -II	4	40+10
	MCHECCT203	Organic Chemistry -II	4	40+10
	MCHECCT204	Physical Chemistry -II	4	40+10
	MCHECCS205	Physical Chemistry Practical	4	50
	MCHECCS206	Analytical Chemistry Practical & Data Processing	4	50
SEM-3	MCHECCT301	Advanced General Chemistry-I	4	40+10
	MCHECCT302	Advanced General Chemistry-II	4	40+10
	MCHEMET303	<b>Paper I</b> of opted Major Elective Group	4	40+10
	MCHEOET304	OPEN ELECTIVE	4	50
	MCHEMES305	<b>Paper II</b> of opted Major Elective Group	4	50
	MCHEOPS306	OUTREACH PROGRAMME	4	50
SEM-4	MCHEMET401	<b>Paper III</b> of opted Major Elective Group	4	40+10
	MCHEMET402	<b>Paper IV</b> of opted Major Elective Group	4	40+10
	MCHEMET403	<b>Paper V</b> of opted Major Elective Group	4	40+10
	MCHEACT404	ADD-ON COURSE	4	50
	MCHEMES405	<b>Paper VI</b> of opted Major Elective Group	4	50
	MCHEMEP406	Project & Dissertation	4	50

# SIDHO-KANHO-BIRSHA UNIVERSITY

## Curriculum

### 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	Course Ref Code	Course Title	Credit	Marks
I	MCHEMET303A	Inorganic Chemistry Special-I	4	40+10
II	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
I	MCHEMET303B	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
I	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

# SIDHO-KANHO-BIRSHA UNIVERSITY

## Curriculum

### 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
MOE9	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

# SIDHO-KANHO-BIRSHA UNIVERSITY

## Curriculum

### 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