# **CURRICULUM**

#### UNDER CHOICE BASED CREDIT SYSTEM

(w.e.f session 2016-2017)

# **MASTER OF SCIENCE (MSC)**

**PROGRAMME** 

IN

**ZOOLOGY** 

SIDHO-KANHO-BIRSHA UNIVERSITY PURULIA, WEST BENGAL

# Curriculum

# MASTER OF SCIENCE (MSc) PROGRAMME IN

# ZOOLOGY

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

	Course Code	Course Title	Credit	Marks
	MZOOCCT101	Non-Chordates: Structures & Function	4	40+10
	MZOOCCT102	Chordates: Structures & Function	4	40+10
		Unit-I: Endocrinology & Reproductive biology		
SEM-1	MZOOCCT103	Unit-II: Animal Physiology &Biochemistry	4	40+10
JEIVIT		Unit-I:Cell structure and Function Unit-		
	MZOOCCT104	II:Developmental Biology	4	40+10
	MZOOCCS105	Practical -I	4	50
	MZOOCCS106	Practical -II	4	50
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	MZOOCCT201	Unit-I: Genetics Unit-II: Evolutionary Biology	4	40+10
	MZOOCCT202	Unit-I: Ethology and Ethnobiology Unit-II Ecology	4	40+10
		Unit-I:Parasitology and Microbiology Unit-		
CENA 2	MZOOCCT203	II:Immunobiology	4	40+10
SEM-2		Unit-I:Applied Entomology Unit –II:		
	MZOOCCT204	Aquaculture	4	40+10
	MZOOCCS205	Practical -III	4	50
	MZOOCCS206	Practical -IV	4	50
		Unit-I:Molecular Biology and		
		Biotechnology Unit-II:Environmental Biology &	_	
	MZOOCCT301	Toxicology	4	40+10
	MZOOCCT302	Unit-I:Bio Systematics Unit-II:Biodiversity and Wild life conservation	4	40+10
SEM-3			-	
	MZOOMET303	Paper I of opted Major Elective Group	4	40+10
	MZOOOET304	OPEN ELECTIVE	4	50
	MZOOCCS305	Practical-V	4	50
	MZOOOPS306	Outreach Programme	4	50
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	N470000T404	Unit-I: Neurobiology Unit-II:Biostatistics &		40 : 40
	MZOOCCT401	Introduction to Bioinformatics	4	40+10
	MZOOMET402	Paper II of opted Major Elective Group	4	40+10
SEM-4	MZOOMET403	Paper III of opted Major Elective Group	4	40+10
	MZOOACT404	ADD-ON COURSE	4	50
	MZOOMES405	Practical-VI	4	50
	MZOOMEP406	Project & Dissertation	4	50

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## MASTER OF SCIENCE (MSC) PROGRAMME IN ZOOLOGY

### LIST OF MAJOR ELECTIVE COURSES

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

#### **Group-A**

Paper	Course Ref Code	Course Title	Credit	Marks
1	MZOOMET303A	Parasitology and Immunology - I	4	40+10
II	MZOOMET402A	Parasitology and Immunology- II	4	40+10
III	MZOOMET403A	Parasitology and Immunology- III	4	40+10

#### **Group-B**

Paper	Course Ref Code	Course Title	Credit	Marks
1	MZOOMET303B	Fisheries and Aquaculture- I	4	40+10
Ш	MZOOMET402B	Fisheries and Aquaculture- II	4	40+10
III	MZOOMET403B	Fisheries and Aquaculture- IIII	4	40+10

#### **Group-C**

Paper	Course Ref Code	Course Title	Credit	Marks
1	MZOOMET303C	Genetics and Cell Biology- I	4	40+10
Ш	MZOOMET402C	Genetics and Cell Biology- II	4	40+10
III	MZOOMET403C	Genetics and Cell Biology- IIII	4	40+10

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### MASTER OF SCIENCE (MSC) PROGRAMME

### LIST OF OPEN ELECTIVE COURSES

Students of the **ZOOLOGY** 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 **ZOOLOGY**.

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

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## MASTER OF SCIENCE (MSC) PROGRAMME

## LIST OF ADD-ON COURSES

Students of the **ZOOLOGY** 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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