

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**

SIDHO-KANHO-BIRSHA UNIVERSITY

Curriculum

MASTER OF SCIENCE (MSc) PROGRAMME IN

ZOOLOGY

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

	Course Code	Course Title	Credit	Marks
SEM-1	MZOOCCT101	Non-Chordates: Structures & Function	4	40+10
	MZOOCCT102	Chordates: Structures & Function	4	40+10
	MZOOCCT103	Unit-I: Endocrinology & Reproductive biology Unit-II: Animal Physiology & Biochemistry	4	40+10
	MZOOCCT104	Unit-I: Cell structure and Function Unit-II: Developmental Biology	4	40+10
	MZOOCCT105	Practical -I	4	50
	MZOOCCT106	Practical -II	4	50
SEM-2	MZOOCCT201	Unit-I: Genetics Unit-II: Evolutionary Biology	4	40+10
	MZOOCCT202	Unit-I: Ethology and Ethnobiology Unit-II Ecology	4	40+10
	MZOOCCT203	Unit-I: Parasitology and Microbiology Unit-II: Immunobiology	4	40+10
	MZOOCCT204	Unit-I: Applied Entomology Unit -II: Aquaculture	4	40+10
	MZOOCCT205	Practical -III	4	50
	MZOOCCT206	Practical -IV	4	50
SEM-3	MZOOCCT301	Unit-I: Molecular Biology and Biotechnology Unit-II: Environmental Biology & Toxicology	4	40+10
	MZOOCCT302	Unit-I: Bio Systematics Unit-II: Biodiversity and Wild life conservation	4	40+10
	MZOOMET303	Paper I of opted Major Elective Group	4	40+10
	MZOOMET304	OPEN ELECTIVE	4	50
	MZOOCCT305	Practical-V	4	50
	MZOOPPS306	Outreach Programme	4	50
SEM-4	MZOOCCT401	Unit-I: Neurobiology Unit-II: Biostatistics & Introduction to Bioinformatics	4	40+10
	MZOOMET402	Paper II of opted Major Elective Group	4	40+10
	MZOOMET403	Paper III of opted Major Elective Group	4	40+10
	MZOACT404	ADD-ON COURSE	4	50
	MZOOMES405	Practical-VI	4	50
	MZOOMEPS406	Project & Dissertation	4	50

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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
I	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
I	MZOOMET303B	Fisheries and Aquaculture- I	4	40+10
II	MZOOMET402B	Fisheries and Aquaculture- II	4	40+10
III	MZOOMET403B	Fisheries and Aquaculture- III	4	40+10

Group-C

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

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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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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