

**INTEGRATED 5- YEAR M.Sc. PROGRAMME
IN ANIMAL SCIENCES
(WITH EFFECT FROM THE SESSION 2016-2021)
[CHOICE BASED CREDIT SYSTEM]**



**DEPARTMENT OF ANIMAL SCIENCES
KAZI NAZRUL UNIVERSITY
ASANSOL, WEST BENGAL
INDIA, 713340**

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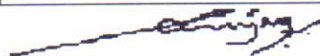
INTEGRATED M.SC. SYLLABUS
PROGRAM – B.SC. (HONS.) IN ANIMAL SCIENCES
SUMMARY OF THE COURSE AND CREDITS

	Course		Total credits
	Theory	Practical	
Semester - I	15	8	23
Semester - II	15	8	23
Semester - III	15	8	23
Semester - IV	15	8	23
Semester - V	15	8	23
Semester - VI	15	8	23
Total	90	48	138

M.Sc. Final

(External Candidates may be admitted from Zoology Hons candidates)

	Course		Total credits
	Theory	Practical	
Semester -VI I	18	7	25
Semester -VIII	18	7	25
Semester - IX	18	7	25
Semester - X	Project work and thesis submission		25



SEMESTER – I [CREDITS – 23]					
COURSE CODE	COURSE	DIVISION	CREDIT POINT	EXAM HOURS (THEORY AND PRACTICAL)	FULL MARKS
IMAST101	ANIMAL TAXONOMY & INVERTEBRATE DIVERSITY	THEORY	5	40	50
IMAST102	ANIMAL STRUCTURE & FUNCTION	THEORY	5	40	50
IMAST103	GENETICS	THEORY	5	40	50
IMASP104	ANATOMY, CYTOLOGY & GENETICS	PRACTICAL	8	40	50

SEMESTER – II [CREDITS – 23]					
COURSE CODE	COURSE	DIVISION	CREDIT POINT	EXAM HOURS (THEORY AND PRACTICAL)	FULL MARKS
IMAST201	GENETICS	THEORY	5	40	50
IMAST202	MICROBIAL GENETICS BIOSTATISTICS	THEORY	5	40	50
IMAST203	BIOCHEMISTRY-I	THEORY	5	40	50
IMASP204	PRACTICAL	THEORY	8	40	50

SEMESTER – III [CREDITS – 23]					
COURSE CODE	COURSE	DIVISION	CREDIT POINT	EXAM HOURS (THEORY AND PRACTICAL)	FULL MARKS
IMAST301	BIOCHEMISTRY-II	THEORY	5	40	50
IMAST302	MICROBIOLOGY & IMMUNOLOGY-I	THEORY	5	40	50
IMAST303	MICROBIOLOGY & IMMUNOLOGY-II	THEORY	5	40	50
IMASP304	PRACTICAL	PRACTICAL	8	40	50

SEMESTER – IV [CREDITS – 23]					
COURSE CODE	COURSE	DIVISION	CREDIT POINT	EXAM HOURS (THEORY AND PRACTICAL)	FULL MARKS
IMAST401	MOLECULAR IMMUNOLOGY & EMBRYOLOGY	THEORY	5	40	50
IMAST402	FUNCTIONAL EMBRYOLOGY	THEORY	5	40	50
IMAST403	AQUACULTURE & FISHERIES	THEORY	5	40	50
IMAST404	PRACTICAL	PRACTICAL	8	40	50

SEMESTER – V [Credits – 23]					
COURSE CODE	COURSE	DIVISION	CREDIT POINT	EXAM HOURS (Theory and Practical)	FULL MARKS
IMAST501	ENDOCRINOLOGY	THEORY	5	40	50
IMAST502	PHYSICS FOR BIOLOGISTS	THEORY	5	40	50
IMAST503	COMPUTER FOR BIOLOGIST	THEORY	5	40	50
IMASP504	PRACTICAL	PRACTICAL	8	40	50
SEMESTER –VI [Credits – 23]					
COURSE CODE	COURSE	DIVISION	CREDIT POINT	EXAM HOURS (Theory and Practical)	FULL MARKS
IMAST601	EVOLUTION & ADAPTATION	THEORY	5	40	50
IMAST602	HISTOLOGY & HISTOCHEMISTRY	THEORY	5	40	50
IMAST603	TOXICOLOGY	THEORY	5	40	50
IMAST604	PRACTICAL	PRACTICAL	8	40	50

M.SC FINAL

SEMESTER –VII [Credits – 25]					
COURSE CODE	COURSE	DIVISION	CREDIT POINT	EXAM HOURS (Theory and Practical)	FULL MARKS
IMAST701	CELL & MOL.BIOLOGY	THEORY	6	80	100
IMAST702	BIOTECHNOLOGY & INSTRUMENTATION	THEORY	6	80	100
IMAST703	ENVIRONMENTAL BIOLOGY & WILD LIFE	THEORY	6	80	100
IMAST704	PRACTICAL	PRACTICAL	7	80	100
SEMESTER –VIII [Credits – 25]					
COURSE CODE	COURSE	DIVISION	CREDIT POINT	EXAM HOURS (Theory and Practical)	FULL MARKS
IMAST801	ANIMAL PHYSIOLOGY	THEORY	6	80	100
IMAST802	GENERAL & APPLIED ENTOMOLOGY	THEORY	6	80	100
IMAST803	ANIMAL PARASITOLOGY & PATHOLOGY	THEORY	6	80	100
IMAST804	PRACTICAL	PRACTICAL	7	80	100

SEMESTER –IX [Credits – 25]					
COURSE CODE	COURSE	DIVISION	CREDIT POINT	EXAM HOURS (Theory and Practical)	FULL MARKS
IMAST901	ARTHROPODS & HOST PARASITE RELATIONSHIP	THEORY	6	80	100
IMAST902	ETHOLOGY & CONSERVATION BIOLOGY	THEORY	6	80	100
IMAST903	BIOETHICS & BIOPOLITICS	THEORY	6	80	100
IMAST904	PRACTICAL	PRACTICAL	7	80	100

SEMESTER –X [Credits – 25]					
COURSE CODE	COURSE	DIVISION	CREDIT POINT	EXAM HOURS (Theory and Practical)	FULL MARKS
IMAST1001	PROJECT WORK	Thesis submission	25	Grand Viva	400

ACRONYMS: IMAST: INTEGRATED M.Sc. IN ANIMAL SCIENCES THEORY; IMASP: INTEGRATED M.Sc. IN ANIMAL SCIENCES PRACTICAL

NOTES ON MARKS DISTRIBUTION: (FOR B.Sc. HONS)

1. In each course, 20% marks is allotted for Internal Assessment (for both theory and practical), i.e., 10 marks for a paper of 50 marks.

2. Marks distribution for each paper will be as follows:

UNIT I (Total Marks 20): *Four questions (out of eight) of 1 mark each, two questions (out of four) of 4 marks each and one question (out of two) of 8 marks are to be answered*

UNIT II (Total Marks 20): *Four questions (out of eight) of 1 mark each, two questions (out of four) of 4 marks each and one question (out of two) of 8 marks are to be answered*

(FOR M.Sc. FINAL EXAMINATION) In each course, 20% marks is allotted for Internal Assessment (for both theory and practical) **UNIT I** (Total Marks 40) & **UNIT II** (Total Marks 40)



