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



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

	(Course	Total	
	Theory	Practical	credits	
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	
18	7	25
18	7	25
18	7	25
Project work and thesis submission		25
	Theory 18 18 18 Project wo	Theory Practical 18 7 18 7 18 7 Project work and thesis



	SEMES	TER - I [C	REDITS	- 23]	
COURSE	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
IMAST 103	GENETICS	THEORY	5	40	50
IMASP104	ANATOMY, CYTOLOGY & GENETICS	PRACTICAL	8	40	50
COURSE CODE	SEMES'	TER – II [C	CREDITS 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

THEORY

50

50

50

50

40

40

40

40

IMASP204

IMAST402

IMAST403

IMAST404

PRACTICAL

FUNCTIONAL

EMBRYOLOGY AQUACULTURE &

FISHERIES

PRACTICAL

	SEMES	TER – III [C	REDITS	5-23	
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
COURSE	SEMES	ΓER – IV [C	REDITS	5-23]	
	COURSE	DIVISION	CREDIT	EXAM HOURS	FULL MARKS
CODE	COURSE	DIVISION		EXAM HOURS (THEORY AND PRACTICAL)	FULL MARKS

THEORY

THEORY

PRACTICAL

5

5

8

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	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]

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

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COURSE	COURSE	DIVISION	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

	SEM	ESTER -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)

