

STRUCTURE OF THE SYLLABUS FOR 4 YEAR UG PROGRAMME

ROYAL SCHOOL OF LIFE SCIENCES

B.Sc. Zoology(Honours / Honours with Research)

1st SEMESTER			
COMPONENT	COURSE CODE	COURSE TITLE	CREDIT
Major (Core)	ZOO142M101	Non-Chordates	3
	ZOO142M111	Non-Chordates (Practical)	3
Minor	ZOO142N101	Animal Diversity- Non-Chordates	3
Interdisciplinary (IDC)	IKS992K101	Introduction to Indian Knowledge System – I	3
Ability Enhancement course (AEC)	CEN982A101	Communicative English-I	1
	BHS982A102	Behavioural Science- I	1
Skill Enhancement Course (SEC)	ZOO142S121	Vermiculture	3
Value Added Course (VAC)		Basket of course*	3
MOOC Course		MOOC/Online Courses**	3
TOTAL CREDIT FOR 1st SEMESTER			23
2nd SEMESTER			
COMPONENT	COURSE CODE	COURSE TITLE	CREDIT
Major (Core)	ZOO142M201	Chordates	3
	ZOO142M211	Chordates (Practical)	3
Minor	ZOO142N201	Animal Diversity- Chordates	3
IDC	IKS992K201	Introduction to Indian Knowledge System – II	3
AEC	CEN982A201	Communicative English-II	1

	BHS982A202	Behavioural Science- II	1
SEC	ZOO142S221	Sericulture	3
VAC		Basket of Course*	3
MOOC Course		MOOC/Online Courses**	3
TOTAL CREDIT FOR 2nd SEMESTER			23

3rd SEMESTER			
COMPONENT	COURSE CODE	COURSE TITLE	CREDIT
Major (Core)	ZOO142M301	Comparative Anatomy of Animals	4
	ZOO142M311	Comparative Anatomy of Animals (Practical)	4
Minor	ZOO142N301	Human Biology	4
IDC	ZOO142I301	Understanding of Life Processes	3
AEC	CEN982A301	Communicative English-III	1
	BHS982A302	Behavioral Science-III	1
SEC	ZOO142S321	Wildlife Photography and Ecotourism	3
MOOC Course		MOOC/Online Courses*	3
TOTAL CREDIT FOR 3rd SEMESTER			23

4th SEMESTER			
COMPONENT	COURSE CODE	COURSE TITLE	CREDIT
Major (Core)	ZOO142M401	Cell Biology	4
	ZOO142M402	Animal Physiology and Endocrinology	4
	ZOO142M411	Cell Biology & Animal Physiology and Endocrinology (Practical)	4
Minor	ZOO142N401	Aquatic Biology	3
	ZOO142N402	Economic Zoology	3
AEC	CEN982A401	Communicative English-IV	1

	BHS982A402	Behavioral Science-IV	1
MOOC Course		MOOC/Online Courses*	3
TOTAL CREDIT FOR 4th SEMESTER			23
5th SEMESTER			
COMPONENT	COURSE CODE	COURSE TITLE	CREDIT
Major (Core)	ZOO142M501	Biochemistry	4
	ZOO142M502	Evolutionary Biology	4
	ZOO142M511	Biochemistry and Evolutionary Biology (Practical)	4
Minor	ZOO142N501	Animal Parasites	4
Internship	ZOO142S531	Internship (Mandatory after 4 th Semester)	4
TOTAL CREDIT FOR 5th SEMESTER			20
6th SEMESTER			
COMPONENT	COURSE CODE	COURSE TITLE	CREDIT
Major (Core)	ZOO142M601	Molecular Biology	4
	ZOO142M602	Biotechnology	4
	ZOO142M603	Ecology	4
	ZOO142M611	Molecular Biology, Biotechnology & Ecology (Practical)	4
Minor	ZOO142N601	Entomology	4
TOTAL CREDIT FOR 6th SEMESTER			20
7th SEMESTER			
COMPONENT	COURSE CODE	COURSE TITLE	CREDIT
Major (Core)	ZOO142M701	Genetics and Genomics	4
	ZOO142M702	Immunology	4

	ZOO142M703	Biostatistics and Bioinformatics	4
	ZOO142M711	Genetics and Genomics, Immunology, Biostatistics and Bioinformatics (Practical)	4
Minor	ZOO142N701	Ecology and Wildlife	4
TOTAL CREDIT FOR 7th SEMESTER			20
COMPONENT	COURSE CODE	COURSE TITLE	CREDIT
Major (Core)	ZOO142M801	Developmental Biology	4
Minor	ZOO142N801	Research Methodology	4
Project / Dissertation	ZOO142M821	Dissertation	12
TOTAL CREDIT FOR 8th SEMESTER			20

*The students will choose one VAC course from the basket of courses

**MOOCs/Online Course will be identified by the Department from the list of courses available on MOOC/SWAYAM online platform.

STRUCTURE OF THE SYLLABUS FOR 2 YEAR PG PROGRAMME

ROYAL SCHOOL OF LIFE SCIENCES

M.Sc. Zoology

1st SEMESTER		
COURSE CODE	COURSE TITLE	CREDIT
ZOO144C101	Biosystematics, Taxonomy and Functional Biology of Non-chordates	4
ZOO144C102	Ecology, Wildlife and Evolutionary Biology	4
ZOO144C103	Cell Biology and Genetics	4
ZOO144C104	Biostatistics and Computational Biology	4
ZOO144C111	Practical I	2
ZOO144C112	Practical II	2
MOOC	MOOC/ Online Courses*	4
TOTAL CREDIT FOR 1st SEMESTER		24
2nd SEMESTER		
COURSE CODE	COURSE TITLE	CREDIT
ZOO144C201	Functional Biology of Chordates and Biodiversity	4
ZOO144C202	Histology, Histochemistry, Toxicology and Bioinstrumentation	4
ZOO144C203	Biochemistry and Immunology	4
ZOO144C204	Limnology and economic zoology	4
ZOO144C211	Practical III	2
ZOO144C212	Practical IV	2
MOOC	MOOC/ Online Courses*	4
TOTAL CREDIT FOR 2nd SEMESTER		24
TOTAL CREDIT FOR 1st YEAR =48		
3rd SEMESTER		
COURSE CODE	COURSE TITLE	CREDIT

ZOO144C341	Physiology, Endocrinology and Animal Behaviour	4
ZOO144C342	Molecular Biology, Analytical Techniques and Animal Biotechnology	4
ZOO144C321	Dissertation	8
Elective courses (anyone to be selected)		
ZOO144C343	Ecology, Environmental and Wildlife Biology	4
ZOO144C344	Cell and Molecular Biology	4
ZOO144C345	Aquatic Biology and Fishery Sciences	4
ZOO144C346	Toxicology	4
ZOO144C347	Entomology	4
TOTAL CREDIT FOR 3rd SEMESTER		20
OR 3rd SEMESTER		
(For students with 3rd and 4th Semester Research)		
ZOO144C322	RESEARCH PROJECT – PHASE I	20
4th SEMESTER		
COURSE CODE	COURSE TITLE	CREDIT
ZOO144C421	Dissertation (students with research in 4th Sem)	12
<i>(for 'Coursework only' in lieu of Research)</i>		
ZOO144C441	Developmental and Reproductive Biology	4
ZOO144C442	Parasitology and Vector Biology	4
OR 4th SEMESTER		
(For students with 3rd and 4th Semester Research)		
ZOO144C422	RESEARCH PROJECT – PHASE 2	20
TOTAL CREDIT FOR 2nd YEAR 40		