

STRUCTURE OF THE SYLLABUS FOR 4 YEAR UG PROGRAMME**SCHOOL NAME - ROYAL SCHOOL OF LIFE SCIENCES (RSLSC)****DEPARTMENT NAME - BOTANY****PROGRAMME NAME - B.Sc. Botany**

1st SEMESTER					
COMPONENT	COURSE CODE	COURSE TITLE	LEVEL	CRE DIT	L-T-P
Major (Core)	BOT142M101	Cryptogamic botany (Algae, Bryophytes & Pteridophytes)	100	3	3-0-0
Major (Core)	BOT142M112	Cryptogamic botany practical	100	3	0-0-6
Minor	BOT142N141	Diversity of Plants	100	3	3-0-0
Interdisciplinary (IDC)	IKS1	Indian Knowledge System – I	100	3	3-0-0
Ability Enhancement course (AEC)	AEC982A101	Communicative English I	100	1	1-0-0
Ability Enhancement course (AEC)	Behavioural Science-I	Behavioural Science – I	100	1	1-0-0
Skill Enhancement Course (SEC)	BOT142S121	Plant disease identification and control	100	3	3-0-0
Value Added Course (VAC)	VAC1	Course from available basket	100	3	3-0-0
MOOCs	MOOCs	*MOOCs/online course will be identified by the dept from the list of courses available on MOOC online platform/SWAYAM Platform	100	3	3-0-0
TOTAL CREDIT FOR 1st SEMESTER				23	
2nd SEMESTER					

COMPONENT	COURSE CODE	COURSE TITLE	LEVEL	CRE DIT	L-T-P
Major (Core)	BOT142M201	Phanerogams – Gymnosperms & Angiosperms	100	3	3-0-0
Major (Core)	BOT142M212	Phanerogams Practical	100	3	0-0-6
Minor	BOT142N201	Economic Botany	100	3	3-0-0
IDC	IKS2	Indian Knowledge System – II	100	3	3-0-0
AEC	AEC982A201	Communicative English and Behavioural Science – II	100	2	2-0-0
SEC	BOT142S221	Plant Identification and Herbarium Techniques	100	3	3-0-0
VAC	VAC2	Course from available basket	100	3	3-0-0
MOOCs	MOOCs	*MOOCs/online course will be identified by the dept from the list of courses available on MOOC online platform/SWAYAM Platfor	100	3	3-0-0
TOTAL CREDIT FOR 2nd SEMESTER				23	
3rd SEMESTER					
COMPONENT	COURSE CODE	COURSE TITLE	LEVEL	CRE DIT	L-T-P
Major (Core)	BOT142M301	Plant morphology, Anatomy & Taxonomy	200	4	4-0-0
Major (Core)	BOT142M312	Plant Morphology, Anatomy & Taxonomy – Practical	200	4	0-0-8
Minor	BOT42N301	Ethno-botany	200	4	4-0-0
IDC	IDC3	Basket Course	200	3	3-0-0
AEC	AEC982A301	Communicative English and Behavioural Science – III	200	2	2-0-0
SEC	BOT142S321	Floriculture	200	3	3-0-0

MOOCs	MOOCs	*MOOCs/online course will be identified by the dept from the list of courses available on MOOC online platform/SWAYAM Platfor	100	3	3-0-0
TOTAL CREDIT FOR 3rd SEMESTER				23	
4th SEMESTER					
COMPONENT	COURSE CODE	COURSE TITLE	LEVEL	CRE DIT	L-T-P
Major (Core)	BOT142M401	Microbiology & Mycology	200	3	3-0-0
Major (Core)	BOT142M402	Genetics & Plant breeding	200	3	3-0-0
Major (Core)	BOT142M403	Traditional medicinal plants of India	200	3	3-0-0
Major (Core)	BOT142M414	Practical: Microbiology, Genetics & Plant breeding	200	3	0-0-6
Minor	BOT142N401	Ecology, Environment and Biodiversity conservation	200	3	3-0-0
Minor	BOT142N402	Bio resource Management	200	3	3-0-0
AEC	AEC982A401	Communicative English and Behavioural Science – IV	200	2	2-0-0
MOOCs	MOOCs	*MOOCs/online course will be identified by the dept from the list of courses available on MOOC online platform/SWAYAM Platfor	100	3	3-0-0
TOTAL CREDIT FOR 4th SEMESTER				23	
5th SEMESTER					
COMPONENT	COURSE CODE	COURSE TITLE	LEVEL	CRE DIT	L-T-P
Major (Core)	BOT142M501	Plant Physiology & Biochemistry	300	4	4-0-0
Major (Core)	BOT142M502	Cell & Molecular Biology	300	4	4-0-0

Major (Core)	BOT142M513	Practical: Plant Physiology, Biochemistry, Cell & Molecular Biology	300	4	0-0-8
Minor	BOT142N501	Environmental & Industrial Microbiology	300	4	4-0-0
Internship/Project	BOT142M521	Internship/In- Plant Training/Project After 4 th semester exam	300	4	0-0-12
TOTAL CREDIT FOR 5th SEMESTER				20	
6th SEMESTER					
COMPONENT	COURSE CODE	COURSE TITLE	LEVEL	CRE DIT	L-T-P
Major (Core)	BOT142M601	Reproductive Biology of Angiosperms	300	4	4-0-0
Major (Core)	BOT142M602	Plant Ecology & Ecosystem Analysis	300	4	4-0-0
Major (Core)	BOT142M603	Farming Systems and Sustainable Agriculture	300	4	4-0-0
Major (Core)	BOT142M614	Practical: Reproductive Biology, Ecology, Agronomy	300	4	0-0-8
Minor	BOT142N601	Agronomy & Sustainable Development	300	4	4-0-0
TOTAL CREDIT FOR 6th SEMESTER				20	
7th SEMESTER					
COMPONENT	COURSE CODE	COURSE TITLE	LEVEL	CRE DIT	L-T-P
Major (Core)	BOT142M701	Biostatistics & Bioinformatics	400	4	4-0-0
Major (Core)	BOT142M702	Applied Microbiology	400	4	4-0-0
Major (Core)	BOT142M703	Plant Biotechnology	400	4	4-0-0

Major (Core)	BOT142M714	Practical: Biostatistics, Biotechnology, Microbiology	400	4	0-0-8
Minor	BOT42N701	Plant Biotechnology	400	4	4-0-0
TOTAL CREDIT FOR 7th SEMESTER				20	
8th SEMESTER					
COMPONENT	COURSE CODE	COURSE TITLE	LEVEL	CRE DIT	L-T-P
Major (Core)	BOT142M801	Genetic Engineering in Plants	400	4	4-0-0
Minor	BOT142N801	Research Methodology	400	4	4-0-0
Project / Dissertation	BOT142M821	Dissertation	400	12	0-0-24
IN LIU OF DISSERTATION					
	BOT142M802	Advanced plant systematics	400	4	4-0-0
	BOT142M803	Advanced plant physiology and biochemistry	400	4	4-0-0
	BOT142M804	Environmental Pollution and conservation	400	4	4-0-0
TOTAL CREDIT FOR 8th SEMESTER				20	