

# **STRUCTURE OF THE SYLLABUS FOR 4 YEAR UG PROGRAMME**

## **ROYAL SCHOOL OF LIFE SCIENCES**

### **B.Sc. Forestry(Honours / Honours with Research )**

<b>1<sup>st</sup> SEMESTER</b>			
<b>COMPONENT</b>	<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>CREDIT</b>
Major (Core)	FOR142M101	Forest Ecology	3
	FOR142M111	Forest ecology practical	3
Minor	FOR142N101	Basics of Forest Ecology	3
Interdisciplinary (IDC)	IKS992K101	Indian Knowledge System - I	3
Ability Enhancement course (AEC)	CEN982A101	Communicative English	1
	BHS982A102	Behavioural Science-I	1
Skill Enhancement Course (SEC)	FOR142S121	Plant Disease: Identification and control	3
Value Added Course (VAC)	VAC-1	To be selected from the common basket	3
*MOOCs	MOOCs 1	*MOOCs/online course will be identified by the dept. from the list of courses available on the MOOC online platform/SYAWAM portal	3
<b>TOTAL CREDIT FOR 1<sup>st</sup> SEMESTER</b>			<b>23</b>
<b>2<sup>nd</sup> SEMESTER</b>			
<b>COMPONENT</b>	<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>CREDIT</b>
Major (Core)	FOR142M201	Forest systematics & ethnobiology	3
	FOR142M211	Forest systematics & ethnobiology Practical	3
Minor	FOR142N201	Forest Taxonomy & ethnobiology	3

IDC	IKS992K201	Indian Knowledge System - II	3
AEC	CEN982A201	Communicative English-II	1
	BHS982A202	Behavioural Science-II	1
SEC	FOR142S221	Plant Identification and Herbarium Techniques	3
VAC		To be selected from the common basket	3
*MOOCs	MOOCs 2	*MOOCs/online course will be identified by the dept. from the list of courses available on the MOOC online platform/SYAWAM portal	3
<b>TOTAL CREDIT FOR 2<sup>nd</sup> SEMESTER</b>			23
<b>3<sup>rd</sup> SEMESTER</b>			
<b>COMPONENT</b>	<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>CREDIT</b>
Major (Core)	FOR142M301	Forest Mensuration	3
	FOR142M311	Forest Mensuration Practical	1
	FOR142M302	Silviculture & Nursery Technology	4
Minor	FOR142N301	Forest Protection	4
IDC		To be selected from Basket Course	3
AEC	CEN982A301	Communicative English and	1
	BHS982A302	Behavioural Science-III	1
SEC	FOR142S321	Geology & Soil science	2
	FOR142S321	Geology & Soil science Practical	1
*MOOCs	MOOCs 3	*MOOCs/online course will be identified by the dept. from the list of courses available on the MOOC online platform/SYAWAM portal	3
<b>TOTAL CREDIT FOR 3<sup>rd</sup> SEMESTER</b>			23

4 <sup>th</sup> SEMESTER			
COMPONENT	COURSE CODE	COURSE TITLE	CREDIT
Major (Core)	FOR142M401	Principles of Agroforestry	3
	FOR142M402	Forest Management	3
	FOR142M403	Forest Resources Utilization	2
	FOR142M413	Forest Resources Utilization Practical	1
	FOR142M404	Indigenous Practices in Forestry and Sustainable Resource Management (IKS)	3
Minor	FOR142N401	Wildlife Biology	3
	FOR142N402	Forest Ecology and Biodiversity Conservation	3
AEC	CEN982A401	Communicative English	1
	BHS982A402	Behavioural Science-IV	1
*MOOCs	MOOCs 4	*MOOCs/online course will be identified by the dept. from the list of courses available on the MOOC online platform/SYAWAM portal	3
<b>TOTAL CREDIT FOR 4<sup>th</sup> SEMESTER</b>			<b>23</b>
5 <sup>th</sup> SEMESTER			
COMPONENT	COURSE CODE	COURSE TITLE	CREDIT
Major (Core)	FOR142M501	Forest Policy & Legislation	4
	FOR142M502	Plantation Forestry	3
	FOR142M512	Plantation Forestry Practical	1
	FOR142M503	Tree Improvement	3
	FOR142M513	Tree Improvement Practical	1
Minor	FOR142N501	Farming based livelihood systems	4

<b>Internship/Research</b>	FOR142M521	Internship/ Research Project	4
<b>TOTAL CREDIT FOR 5<sup>th</sup> SEMESTER</b>			20
<b>6<sup>th</sup> SEMESTER</b>			
<b>COMPONENT</b>	<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>CREDIT</b>
Major (Core)	FOR142M601	Forest Biotechnology	3
	FOR142M611	Forest Biotechnology Practical	1
	FOR142M602	Forest Economics and Marketing	4
	FOR142M603	Remote Sensing and GIS Applications	2
	FOR142M613	Remote Sensing and GIS Applications Practical	2
	FOR142M604	Forest Tribology, Ethnomedicine and Extension	3
	FOR142M614	Forest Tribology, Ethnomedicine and Extension Practical	1
Minor	FOR142N601	Forest Entrepreneurship and Business Management	4
<b>TOTAL CREDIT FOR 6<sup>th</sup> SEMESTER</b>			20
<b>7<sup>th</sup> SEMESTER</b>			
<b>COMPONENT</b>	<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>CREDIT</b>
Major (Core)	FOR142M701	Wood Science and Technology	3
	FOR142M711	Wood Science and Technology Practical	1
	FOR142M702	Forest Biomass Energy and Biofuels	4
	FOR142M703	Watershed Planning and Management	3
	FOR142M713		1

	FOR142M704	Watershed Planning and Management Practical  Industrial Agroforestry	4
Minor	FOR142N701	Trees Outside Forests (TOF)	4
<b>TOTAL CREDIT FOR 7<sup>th</sup> SEMESTER</b>			20
<b>8<sup>th</sup> SEMESTER</b>			
<b>COMPONENT</b>	<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>CREDIT</b>
Major (Core)	FOR142M801	Innovations in Forest Product and Utilization	4
Minor	FOR142N801	Research Methodology	4
Project / Dissertation	FOR142M821	Dissertation	12
<b>TOTAL CREDIT FOR 8<sup>th</sup> SEMESTER</b>			20

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## **ROYAL SCHOOL OF LIFE SCIENCES**

### **M.Sc. Forestry**

<b>1<sup>st</sup> SEMESTER</b>		
<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>CREDIT</b>
FOR144C101	Forest Ecology and Biodiversity Conservation	4
FOR144C102	Principles of Silviculture	4
FOR144C103	Forest Resources and Economics	4
FOR144C104	Forest Biometry	4
FOR144C115	Practical I-Forest Ecology and Environmental Assessment	4
FOR144C116	Practical II- Forest Management, Silviculture, and Tree Measurement	4
*MOOCs	*MOOCs/online course will be identified by the dept. from the list of courses available on the MOOC online platform/SYAWAM portal	4
<b>TOTAL CREDIT FOR 1<sup>st</sup> SEMESTER</b>		<b>28</b>
<b>2<sup>nd</sup> SEMESTER</b>		
<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>CREDIT</b>
FOR144C201	Silviculture II	4
FOR144C202	Climate Change and Forestry	4
FOR144C203	Seed and Nursery Technology	4
FOR144C204	Forest Management	4
FOR144C205	Forest Certification	4
*MOOCs	*MOOCs/online course will be identified by the dept. from the list of courses available on the MOOC online platform/SYAWAM portal	4
<b>TOTAL CREDIT FOR 2<sup>nd</sup> SEMESTER</b>		<b>24</b>
<b>TOTAL CREDIT FOR 1<sup>st</sup> YEAR = 52</b>		
<b>3<sup>rd</sup> SEMESTER</b>		
<b>For students with 3<sup>rd</sup> and 4<sup>th</sup> Semester Coursework + Research</b>		
<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>CREDIT</b>

FOR144C301	Forest Systematics and Ethnobiology	3
FOR144C302	Agroforestry Principles and Systems	3
FOR144C313	Practical III-Practical Techniques in Biodiversity and Climate Change Assessment	3
FOR144C314	Practical IV-Agroforestry Systems and Sustainable Land Management	3
	<b>Dissertation (students with research in 3<sup>rd</sup> Sem) (Minor Project)</b>	8
<b>TOTAL CREDIT FOR 3<sup>rd</sup> SEMESTER</b>		<b>20</b>
<b>4<sup>th</sup> SEMESTER</b>		
<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>CREDIT</b>
	<b>Dissertation (students with research in 4<sup>th</sup> Sem) (Major Project)</b>	12
FOR144C401	Forest Policy and Law	4
FOR144C402	Remote Sensing and Geographic Information System	2
FOR144C412	Remote Sensing and Geographic Information System Practical	2
	<b>TOTAL CREDIT FOR 4<sup>th</sup> SEMESTER</b>	<b>20</b>