

# Syllabus

## Programme – Post Graduate

### SEMESTER I

Sr.No.	Course No.	Subject	Credit	Department
1	FOR-501	Silviculture	1+1	SAF
2	FOR-502	Forest Biometry	1+1	SAF
3	FOR-503	Forest Management	1+1	FBT
4	FOR-504	Forest Product Chemistry and Industry	2+1	FPU
5	FOR-505	Forest Ecology & Biodiversity Conservation	2+1	NRM
6	FOR-506	Forest Resource Management & Economics	1+1	NRM
7	FOR-511 (F/COMP-511)	Computer Application & Information Technology	0+1	Department of AgrilEngg
8	FOR 513 (F/STAT-513)	General Statistical Methods And Research Methodology	1+1	Department of Agril Econ,
<b>SEMESTER II</b>				
1	FOR-507	Forest Protection	1+1	NRM
2	FOR-508	Tree Improvement	1+1	FBT
3	FOR-509	Wood Modification and Composite wood	1+1	FPU
4	FOR-512	Remote Sensing and Geometric Information Technology	1+1	NRM

<b>SEMESTER III</b>				
1	FOR 591	Seminar	0+1	Concern Dept
<b>SEMESTER IV</b>				
	FOR 600	Masters Research	0+20	Concern Dept

### SPECIALIZATION (MINOR) COURSES

- # Any one specialization from four respective streams with 9 credits to be completed in Second and Third Semester.  
(To be offered as per the availability of staff and facilities)

#### A. FOREST PRODUCTS & UTILIZATION (FPU)

##### 1. Wood Science and Technology

1.	WST 521	Wood Identification	0+2
2.	WST 522	Wood Chemistry	1+1
3.	WST 523	General Properties Of Wood	1+1
4.	WST 524	Wood Seasoning & Preservation	2+1
5.	WST 525	Paper & Pulp Technology	2+1

## **2. Medicinal and Aromatic Plants**

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1.	MAP 521	Basics Of Plant Production And Breeding Techniques	2+1
2.	MAP 522	Medicinal Chemistry & Processing Of Map's	2+1
3.	MAP 523	Biotechnological Approaches And Agro Techniques For Map Species.	2+1
4.	MAP 524	Improvement Of Medicinal And Aromatic Plants	1+1
5.	MAP 525	Role Of Medicinal And Aromatic Plants In Health Care Systems	2+0
6.	MAP 526	Pharmacognosy Of Map's	1+1
7.	MAP 527	Study Tour (Visit To Pharmaceutical And Processing Units)	0+1

## **B. SILVICULTURE & AGROFORESTRY (SAF)**

### **1. Plantation Technology**

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1.	PT 521	Seed Collection, Storage And Testing	2+1
2.	PT 522	Modern Nursery Technology	1+1
3.	PT 523	Nutrient & Weed Management In Nursery & Plantation	2+1
4.	PT 524	Management Of Insect-Pests And Diseases	1+1
5.	PT 525	Energy Plantations And Bio-Fuels	1+1
6.	PT 526	Plantation Forestry	2+1

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### **2. Agro-Forestry**

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1.	AF 521	Agroforestry Systems	2+1
2.	AF 522	Soil And Water Management In Agroforestry	1+1
3.	AF 523	Crops And Animals Production Management In Agroforestry	2+1
4.	AF 524	Fruit Plants, Trees & Shrubs For Agroforestry	2+1
5.	AF 525	Economics Of Agroforestry Systems	2+1
6.	AF 526	Range Land And Pasture Management	2+0
7.	AF 527	Forests And People	1+1

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## **C. NATURAL RESOURCE MANAGEMENT (NRM)**

### **1. Watershed Management**

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WM 521	Watershed Concepts, Project Formulation And Planning	2+1
WM 522	Applications Of Remote Sensing And GIS In Watershed Management	1+1
WM 523	Watershed Survey, Mapping And Structural Engineering Designs	2+1
WM 524	Watershed Hydrology And Resources	

	Conservation		2+1
WM 525	Production System And Bio-Diversity In Watershed.	3+1	
WM 526	People's Participation And Impact Analysis In Watershed		2+1

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## **2. Eco-Tourism**

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1.	ET 521	Ecotourism- Concepts And Modern Approaches	2+2
2.	ET 522	Eco Systems Of The World	2+0
3.	ET 523	Ecotourism In Protected Areas	2+1
4.	ET 524	Ecotourism Landscaping	2+1
5.	ET 525	Economics Of Ecotourism	2+1
6.	ET 526	Design And Management Of Ecotourism	2+1

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## **3. Environment Management**

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1.	EM 521	Introduction To Environmental Sciences	2+0
2.	EM 522	Environmental Pollution	2+1
3.	EM 523	Environmental Analytical Techniques	1+1
4.	EM 524	Global Climatic Changes	2+0
5.	EM 525	Environmental Policy Law And International Conventions	3+0
6.	EM 526	Environmental Impact Assessment	2+1

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## **4. Forest Business Management**

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1.	FBM 521	Forest Resource Analysis	2+1
2.	FBM 522	Finance And Marketing Management Of Forest Resources	2+1
3.	FBM 523	Farm Management	3+0
4.	FBM 524	Production Management Of Nursery And Plantation Forestry	2+1
5.	FBM 525	Project Planning, Monitoring And Evaluation	2+1
6.	FBM 526	Managerial Economics	3+0

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## **D. FOREST BIOLOGY & TREE IMPROVEMENT (FBT)**

### **1. Forest Genetic Resources**

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1.	FGR 521	Breeding Methods In Forest Trees	2+1
2.	FGR 522	Reproductive Biology Of Forest Trees	2+1
3.	FGR 523	Tree Seed Orchards	2+1
4.	FGR 524	Quantitative Genetics In Forest Tree Breeding	3+0
5.	FGR 525	Forest Genetic Diversity And Conservation	3+0

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### **2. Forest Biotechnology**

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1.	FB 521	Biotechnology Approaches In Forestry	2+1
2.	FB 522	Plant Tissue Culture	2+1
3.	FB 523	Molecular Biology	2+1
4.	FB 524	Principles & Techniques of Genetic Engineering	2+1
5.	FB 525	Environmental Pollutants And Biotechnology	2+0

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**V) COMPULSORY NON-CREDIT DEFICIENCY COURSES FOR  
B. Sc. Agri./ Hort. STREAM**

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1.	SAF 121	Principle And Practices Of Silviculture	3+1
2.	SAF 232	Forest Mensuration	2+1
3.	FBT 234	Principles Of Tree Improvement	2+1
4.	FBT 358	Wild Life Management	2+1
5.	FPU 245	Wood Products And Utilization	1+1
6.	NRM 367	Forest Management, Policy And Legislation	2+1

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**The Compulsory Non Credit Courses to be completed in I to III Semester – Common Courses with Agriculture Stream (To be evaluated as Satisfactory / Non satisfactory)**

Sr. No	Course No.	Course Title	Sem	Credits	Department
1	PGS 501	Library And Information Services	I	0+1	University Librarian
2	PGS 502	Technical Writing And Communications Skills	II	0+1	EXTN
3	PGS 503 (e-Course)	Intellectual Property And Its Management In Agriculture	II	1+0	ECON
4	PGS 504	Basic Concepts In Laboratory Techniques	I	0+1	SSAC
5	PGS 505 (e-Course)	Agricultural Research, Research Ethic And Rural Development Programmes	III	1+0	AGRO
6	PGS 506 (e-Course)	Disaster Management	III	1+0	AG - ENGG