

PG SYLLABUS FOR FORESTRY 2 YEAR PROGRAM

1. DEPARTMENT OF SILVICULTURE & AGROFORESTRY

CODE	COURSE TITLE	CREDITS	
A. CORE COURSES(22 credits)			
(Semester-I)			
MFC 501	SILVICULTURE	2+1	
MFC 502	FOREST BIOMETRY	1+1	
MFC 503	FOREST PRODUCTS - CHEMISTRY AND INDUSTRIES	2+1	
MFC 504	FOREST ECOLOGY AND BIODIVERSITY CONSERVATION	2+1	
MFC 505	FOREST RESOURCE MANAGEMENT AND ECONOMICS	1+1	
MFC 506	FOREST SOIL FERTILITY AND NUTRIENT MANAGEMENT	2+1	
MFC 507	APPLIED TREE IMPROVEMENT	2+1	
MFC 508	TREE SEED TECHNOLOGY	2+1	
Total Credits		14+8=22	
B. SPECIALIZATION COURSES (12 Credits)			
(Semester-II)			
SAF 511	AGROFORESTRY SYSTEMS	2+1	
SAF 512	PLANTATION FORESTRY	2+1	
SAF 513	CLIMATE CHANGE AND CONSERVATION SILVICULTURE	2+1	
SAF 514	FRUIT PLANTS, TREES & SHRUBS FOR AGROFORESTRY	2+1	
SAF 515	MODERN NURSERY TECHNOLOGY	1+1	
SAF 516	BIOFERTILIZERS PRODUCTION TECHNOLOGY	1+1	
Total Credits		12	
C. SUPPORTING COURSES (5 Credits)			
(Semester-II)			
STA 501	DESIGN OF EXPERIMENTS	1+1	
STA 502	REMOTE SENSING AND GEOGRAPHIC INFORMATION SYSTEM	2+1	
STA 503	APPLIED STATISTICAL METHODS	1+1	
STA 504	COMPUTER APPLICATIONS IN STATISTICS	0+1	
Total Credits		5	
D.	SAF 591	MASTER'S SEMINAR (Semester-III)	1+0
E.	SAF 599	MASTER'S RESEARCH(Semester-II, III & IV)	0+20
F		NON-CREDIT COURSES (6)	-
G		COMPREHENSIVE EXAMINATION (WRITTEN & ORAL)	-
Total Credits		60	

2. DEPARTMENT OF TREE BREEDING & IMPROVEMENT

CODE	COURSE TITLE	CREDITS	
A. CORE COURSES (22 credits) (Semester-I)			
MFC 501	SILVICULTURE	2+1	
MFC 502	FOREST BIOMETRY	1+1	
MFC 503	FOREST PRODUCTS - CHEMISTRY AND INDUSTRIES	2+1	
MFC 504	FOREST ECOLOGY AND BIODIVERSITY CONSERVATION	2+1	
MFC 505	FOREST RESOURCE MANAGEMENT AND ECONOMICS	1+1	
MFC 506	FOREST SOIL FERTILITY AND NUTRIENT MANAGEMENT	2+1	
MFC 507	APPLIED TREE IMPROVEMENT	2+1	
MFC 508	TREE SEED TECHNOLOGY	2+1	
Total Credits		14+8=22	
B. SPECIALIZATION COURSES (12 Credits) (Semester-II)			
FBT 511	BREEDING METHODS IN FOREST TREES	2+1	
FBT 512	QUANTITATIVE GENETICS IN FOREST TREE BREEDING	2+1	
FBT 513	PHYSIOLOGY OF WOODY PLANTS	2+1	
FBT 514	REPRODUCTIVE BIOLOGY OF FOREST TREES	2+1	
FBT 515	BIOTECHNOLOGY APPROACHES IN FORESTRY	2+1	
FBT 516	CLONAL FORESTRY	1+1	
FBT 517	TISSUE CULTURE IN FOREST TREES	2+1	
Total Credits		12	
C. SUPPORTING COURSES (5 Credits) (Semester-II)			
STA 501	DESIGN OF EXPERIMENTS	1+1	
STA 502	REMOTE SENSING AND GEOGRAPHIC INFORMATION SYSTEM	2+1	
STA 503	APPLIED STATISTICAL METHODS	1+1	
STA 504	COMPUTER APPLICATIONS IN STATISTICS	0+1	
Total Credits		5	
D	FBT 591	MASTER'S SEMINAR (Semester-III)	1+0
E	FBT 599	MASTER'S RESEARCH (Semester-II, III & IV)	0+20
F		NON-CREDIT COURSES (6)	-
G		COMPREHENSIVE EXAMINATION (WRITTEN & ORAL)	-
Total Credits		60	

3. DEPARTMENT OF FOREST PRODUCTS & UTILIZATION

CODE	COURSE TITLE	CREDITS	
A. CORE COURSES (22 credits) (Semester-I)			
MFC 501	SILVICULTURE	2+1	
MFC 502	FOREST BIOMETRY	1+1	
MFC 503	FOREST PRODUCTS – CHEMISTRY AND INDUSTRIES	2+1	
MFC 504	FOREST ECOLOGY AND BIODIVERSITY CONSERVATION	2+1	
MFC 505	FOREST RESOURCE MANAGEMENT AND ECONOMICS	1+1	
MFC 506	FOREST SOIL FERTILITY AND NUTRIENT MANAGEMENT	2+1	
MFC 507	APPLIED TREE IMPROVEMENT	2+1	
MFC 508	TREE SEED TECHNOLOGY	2+1	
Total Credits		14+8=22	
B. SPECIALIZATION COURSES (12 Credits) (Semester-II)			
FPU 511	WOOD IDENTIFICATIONTECHNIQUES	0+2	
FPU 512	GENERAL PROPERTIES OF WOOD	1+1	
FPU 513	WOOD SEASONING & PRESERVATION	2+1	
FPU 514	PULP & PAPER TECHNOLOGY	2+1	
FPU 515	WOOD MODIFICATION & COMPOSITE WOOD	2+1	
FPU 516	MEDICINAL CHEMISTRY & PROCESSING OF MEDICINAL & AROMATIC PLANTS	2+1	
Total Credits		12	
C. SUPPORTING COURSES (5 Credits) (Semester-II)			
STA 501	DESIGN OF EXPERIMENTS	1+1	
STA 502	REMOTE SENSING AND GEOGRAPHIC INFORMATION SYSTEM	2+1	
STA 503	APPLIED STATISTICAL METHODS	1+1	
STA 504	COMPUTER APPLICATIONS IN STATISTICS	0+1	
Total Credits		5	
D	FPU 591	MASTER'S SEMINAR (Semester-III)	1+0
E	FPU 599	MASTER'S RESEARCH(Semester-II, III & IV)	0+20
F		NON-CREDIT COURSES (6)	-
G		COMPREHENSIVE EXAMINATION (WRITTEN & ORAL)	-
Total Credits		60	

4. DEPARTMENT OF FOREST RESOURCE MANAGEMENT

CODE	COURSE TITLE	CREDITS	
A. CORE COURSES (22 credits) (Semester-I)			
MFC 501	SILVICULTURE	2+1	
MFC 502	FOREST BIOMETRY	1+1	
MFC 503	FOREST PRODUCTS - CHEMISTRY AND INDUSTRIES	2+1	
MFC 504	FOREST ECOLOGY AND BIODIVERSITY CONSERVATION	2+1	
MFC 505	FOREST RESOURCE MANAGEMENT AND ECONOMICS	1+1	
MFC 506	FOREST SOIL FERTILITY AND NUTRIENT MANAGEMENT	2+1	
MFC 507	APPLIED TREE IMPROVEMENT	2+1	
MFC 508	TREE SEED TECHNOLOGY	2+1	
Total Credits		14+8=22	
B. SPECIALIZATION COURSES (12 Credits) (Semester-II)			
FRM 511	ECOSYSTEM SERVICES AND ACCOUNTING	1+1	
FRM 512	RESTORATION ECOLOGY	2+0	
FRM 513	MANAGEMENT OF INSECT PESTS AND DISEASES IN PLANTATIONS	2+1	
FRM 514	FOREST MANAGEMENT	2+1	
FRM 515	FORESTS AND PEOPLE	2+0	
FRM 516	FOREST HYDROLOGY	1+1	
FRM 517	FOREST ECOSYSTEM ASSESSMENT AND MANAGEMENT	2+1	
Total Credits		12	
C. SUPPORTING COURSES (5 Credits) (Semester-II)			
STA 501	DESIGN OF EXPERIMENTS	1+1	
STA 502	REMOTE SENSING AND GEOGRAPHIC INFORMATION SYSTEM	2+1	
STA 503	APPLIED STATISTICAL METHODS	1+1	
STA 504	COMPUTER APPLICATIONS IN STATISTICS	0+1	
Total Credits		5	
D	FRM 591	MASTER'S SEMINAR (Semester-III)	1+0
E	FRM 599	MASTER'S RESEARCH(Semester-II, III & IV)	0+20
F		NON-CREDIT COURSES (6)	-
G		COMPREHENSIVE EXAMINATION (WRITTEN & ORAL)	-
Total Credits		60	

5. DEPARTMENT OF WILDLIFE SCIENCES

CODE	COURSE TITLE	CREDITS
A. CORE COURSES (22 credits) (Semester-I)		
MFC 501	SILVICULTURE	2+1
MFC 502	FOREST BIOMETRY	2+1
MFC 503	FOREST PRODUCTS - CHEMISTRY AND INDUSTRIES	2+1
MFC 504	FOREST ECOLOGY AND BIODIVERSITY CONSERVATION	2+1
MFC 505	FOREST RESOURCE MANAGEMENT AND ECONOMICS	2+1
MFC 506	FOREST POLICY AND LAWS AND INTERNATIONAL CONVENTIONS	2+0
MFC 507	TREE IMPROVEMENT	2+1
MFC 508	FORESTSANDPEOPLE	2+0
Total Credits		16+6=22
B. SPECIALIZATION COURSES (12 Credits) (Semester-II)		
WLS 511	FUNDAMENTALS OF CONSERVATION BIOLOGY	2+1
WLS 512	ADVANCES IN WILDLIFE MANAGEMENT	2+1
WLS 513	ECOTOURISM - CONCEPTS AND MODERN APPROACHES	2+1
WLS 514	WILDLIFE AND HABITAT ECOLOGY	2+1
WLS 515	ETHNO BIOLOGY AND TRIBAL WELFARE	1+1
Total Credits		12
C. SUPPORTING COURSES (5 Credits) (Semester-II)		
STA 501	DESIGN OF EXPERIMENTS	1+1
STA 502	REMOTE SENSING AND GEOGRAPHIC INFORMATION SYSTEM	2+1
STA 503	APPLIED STATISTICAL METHODS	1+1
STA 504	COMPUTER APPLICATIONS IN STATISTICS	0+1
Total Credits		5
D	WLS 591 MASTER'S SEMINAR (Semester-III)	1+0
E	WLS 599 MASTER'S RESEARCH(Semester-II, III & IV)	0+20
F	NON-CREDIT COURSES (6)	-
G	COMPREHENSIVE EXAMINATION (WRITTEN & ORAL)	-
Total Credits		60

F. NON-CREDIT COMPULSORY COURSES

Six courses (PGS 501-PGS 506) are of general nature and are compulsory for Master's programme.

Code	Course Title	Credits
PGS 501	LIBRARY AND INFORMATION SERVICES	0+1
PGS 502	TECHNICAL WRITING AND COMMUNICATIONS SKILLS	0+1
PGS 503 (e-Course)	INTELLECTUAL PROPERTY AND ITS MANAGEMENT IN AGRICULTURE	1+0
PGS 504	BASIC CONCEPTS IN LABORATORY TECHNIQUES	0+1
PGS 505 (e-Course)	AGRICULTURAL RESEARCH, RESEARCH ETHICS AND RURAL DEVELOPMENT PROGRAMMES	1+0
PGS 506 (e-Course)	DISASTER MANAGEMENT	1+0

G. COMPREHENSIVE EXAMINATION (Qualifying Exam)

After completion of all major courses (for M.Sc. students) excluding seminars a qualifying / comprehensive examination comprising of both written and oral components will be conducted. In order to be eligible to appear for the comprehensive / qualifying examination, the student should have secured an OGPA of 6.50.

H. PATTERN OF EVALUATION OF COURSES

S.No.	Exam Type	Marks
1	Mid-term Examination	30
2	Practical Examination	20
3	Final Semester Examination	50
	Total	100

In order to pass in a course, a PG student should secure a minimum of 50% of marks in both theory and practical in semester final examination.