

Department of Rural Technology & Social Development
Guru Ghasidas Vishwavidyalaya, Koni-Bilaspur (CG)
Semester-wise syllabus for PG Course

DEPARTMENT OF RURAL TECHNOLOGY & SOCIAL DEVELOPMENT,
GURU GHASIDAS VISHWAVIDALAYA
SEMESTER SCHEME
Master of Science of Rural Technology

M. Sc. I SEMESTER

Subject Code	Course	Marks Distribution			Marks
		Theory	Sessional	Practical	
RTPATC1	Concepts of Statistical Analysis	70	30	-	100
RTPALC1	Laboratory Course (Based on RTPATC-1)	-	30	70	100
RTPATC2	Innovation, Appraisal and action for Rural Development	70	30	-	100
RTPALC2	Field based work/ Survey (Based on RTPATC-2)	-	30	70	100
RTPATG1	Sericulture	70	30	-	100
RTPALG1	Laboratory Course (Based on RTPATG-1)	-	30	70	100
	OR				
RTPATG2	Lac production technique	70	30	-	100
RTPALG2	Laboratory Course (Based on RTPAGT-2)	-	30	70	100
RTPATO1	Natural Product and Processing Techniques	70	30	-	100
RTPALO1	Laboratory Course (Based on RTPATO-1)	-	30	70	100
	OR				
RTPATO2	Food Preservation techniques	70	30	-	100
RTPALO2	Laboratory Course (Based on RTPATO-2)	-	30	70	100
	Total	280	240	280	800

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M. Sc. II SEMESTER

Subject Code	Course	Marks Distribution			Marks
		Theory	Sessional	Practical	
RTPBTC1	Fundamentals of Medicinal Plant	70	30	-	100
RTPBLC1	Laboratory Course (Based on RTPBTC-1)	-	30	70	100
RTPBTC2	Concept of Remote Sensing and GIS-I	70	30	-	100
RTPBLC2	Laboratory Course (Based on RTPBTC-2)	-	30	70	100
RTPBTA1	Research Methodology and Ethics	70	30	-	100
RTPBLA1	Laboratory Course (Based on RTPBTA-1)	-	30	70	100
RTPBTG1	Rural Waste Management	70	30	-	100
RTPBPG1	Laboratory Course (Based on RTPBTG-1)	-	30	70	100
	OR				
RTPBTG2	Soil and Water Conservation Engineering	70	30	-	100
RTPBPG2	Laboratory Course (Based on RTPBTG-2)	-	30	70	100
	Total	280	240	280	800

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M. Sc. III SEMESTER

Subject Code	Course	Marks Distribution			Marks
		Theory	Sessional	Practical	
RTPCTC1	Drug Formulation and Extraction	70	30	-	100
RTPCLC1	Laboratory Course (Based on RTPCTC-1)	-	30	70	100
RTPCTC2	Geospatial Technology and its Application	70	30	-	100
RTPCLC2	Laboratory Course (Based on RTPCTC-2)	-	30	70	100
RTPCTG1	Mushroom Cultivation Technology	70	30	-	100
RTPCLG1	Laboratory Course (Based on RTPCTG-1)	-	30	70	100
	OR				
RTPCTG2	Beekeeping Techniques	70	30	-	100
RTPCLG2	Laboratory Course (Based on RTPCTG-2)		30	70	100
RTPCTA1	Instrumentation and Techniques	70	30	-	100
RTPCLA1	Laboratory Course (Based on RTPCTA-1)	-	30	70	100
	University elective/ tour/ sport/ industrial training/ others				
RTPCSA1	Seminar				50
	Total	280	240	280	850

M. Sc. IV SEMESTER

Subject Code	Course	Marks Distribution			Marks
		Theory	Sessional	Practical	
RTPDTG1	Computer application	70	30	-	100
	OR				
RTPDTG2	Entrepreneurship	70	30	-	100
			Internal	Seminar	
RTPDDC1	Dissertation/ Project work followed by seminar		120	280	400

Dissertation must be compulsory for all students. Students will have liberty to complete his dissertation work either in the Department or any other Department or Institution. If student desires to complete his dissertation work outside the Department, he/she will have bear all expenses.

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**PG COURSE (RURAL TECHNOLOGY) STRUCTURE OF SYLLABUS BASED ON
LEARNING OUTCOMES BASED CURRICULUM FRAMEWORK (LOCF)**

Courses with credits	SEMESTER				
	I	II	Summer	III	IV
Core	RTPATC1 RTPALC1 RTPATC2 RTPALC2 (12)	RTPBTC1 RTPBLC1 RTPBTC2 RTPBLC2 (12)	Vocational training/ swachata/ NSS/ NCC/ other credit-2 (15 Days)	RTPCTC1 RTPCLC1 RTPCTC2 RTPCLC2 (12)	
Soft Core Elective (Internal choice)	RTPATG1 RTPALG1 OR RTPATG2 RTPALG2 (6)	RTPBTG1 RTPBLG1 OR RTPBTG2 RTPBLG2 (6)	additional credits	RTPCTG1 RTPCLG1 OR RTPCTG2 RTPCLG2 (6)	RTPDTG1 OR RTPDTG2 (4)
Research methodology and ethics compulsory course (01) 2 credit		RTPBTA1 RTPBLA1 (6)			
Open elective max 2	RTPATO1 RTPALO1 OR RTPATO2 RTPALO2 (6)				
Dissertation/ Project Followed by seminar (01)					RTPDDC1 (15)
** Foundation elective (optional)/ self study course/ skill development (01)				RTPCTA1 RTPCLA1 (6)	
** University Elective/ Tour/ Sport/ Industrial/ Training/ Other					
Other if any Seminar				RTPCSA1 (2)	
Total Credit					
Total Credit Compulsory Courses	12	12+6		18+2	
Total credits (Optional courses)	12	6		6	
Hours per Week	32	32		34	4+20
Total Credit	24	24	2* (additional)	26	19
Total Credit	24+24+26+19+2**=93+2**=95				

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Total credits:

Lecture 1 Credit = 1 Hour, Practical 1 credit = 2 hours

Minimum 72 credit, maximum 108 credits

Foundation course: To enhance the proficiency/ skill of the student.

These electives could be

Computer awareness, Information processing,

Office automation programming, Communication skill

Spoken English, Knowledge of an additional Foreign Language

Personality Development, soft skill

Business and Management courses, Entrepreneurship development etc.

The university shall provide to the students a pool of foundation elective courses which may be offered by the different department of the university

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Distribution of different types of courses with their credits for M.Sc. (Rural Technology)

Course Structure at a Glance

1. Core Courses

Sr. No.	Name of the course	Type of course	L	T	P	Credits
1.	Concepts of Statistical Analysis	Core course	4	0	2	6
2	Innovation, Appraisal and action for Rural Development	Core course	4	0	2	6
3.	Fundamentals of Medicinal Plant	Core course	4	0	2	6
4.	Concept of Remote Sensing and GIS-I	Core course	4	0	2	6
5	Drug Formulation and Extraction	Core course	4	0	2	6
6	Geospatial Technology and its Application	Core course	4	0	2	6
						36

2. Generic Elective Courses/ Soft Core Elective

Sr. No.	Name of the course	Type of course	L	T	P	Credits
1	Sericulture	Generic Elective Courses	4	0	2	6
	OR					
	Lac production technique	Generic Elective Courses	4	0	2	6
2	Rural Waste Management	Generic Elective Courses	4	0	2	6
	OR					
	Soil and Water Conservation Engineering	Generic Elective Courses	4	0	2	6
3	Mushroom Cultivation Technology	Generic Elective Courses	4	0	2	6
	OR					
	Beekeeping Techniques	Generic Elective Courses	4	0	2	6
4	Computer application	Generic Elective Courses	4	0	2	6
	OR					
	Entrepreneurship	Generic Elective Courses	4	0	2	6
						24

Department of Rural Technology & Social Development
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Semester-wise syllabus for PG Course

3. Open Elective/ Skill Enhancement Courses

Sr. No.	Name of the course	Type of course	L	T	P	Credits
1	Natural Product and Processing Techniques	Skill Enhancement Courses	4	0	2	6
OR						
	Food Preservation techniques	Skill Enhancement Courses	4	0	2	6
						06

4. Ability Enhancement Courses/ Foundation elective (optional)/ self study course/ skill development.

Sr. No.	Name of the course	Type of course	L	T	P	Credits
1	Research Methodology and Ethics	Ability Enhancement Courses	4	0	2	6
2	Instrumentation and Techniques	Ability Enhancement Courses	4	0	2	6
						12

5. Seminar and Dissertation

Sr. No.	Name of the course	Type of course	L	T	P	Credits
1	Seminar					2
2	Dissertation/ Project work followed by seminar					15
Total= (36+24+6+12+2+15)						95