

Guru Ghasidas Vishwavidyalaya (A Central University Established by the Central Universities Act 2009 No. 25 of 2009) Koni, Bilaspur – 495009 (C.G.)

List of New Course(s) Introduced

Department : Rural Technology and Social Development

Programme Name : M.Sc. and B.Sc. Rural Technology

Academic Year : 2019-20

List of New Course(s) Introduced

Sr. No.	Course Code	Name of the Course
1.	RT-103	Natural Products Processing Techniques
2.	RT-104	Laboratory Course (Based on RT-103)
3.	RT-107	Innovation Appraisal and action for Rural Development
4.	RT-108	Laboratory Course (Based on RT-108)
5.	RT-309	Seminar
6.	NR/RT/C-101L	Organic Manure Production Techniques
7.	NR /RT/C-101P	Practicals based on theory
8.	NR /RT/C-102L	Elementary Biology
9.	NR /RT/C-P-102P	Practicals based on theory
10.	NR /RT/GE-101/LS	Soil and Fertilizers
11.	NR /RT/GE-P-101/LS	Practicals based on theory
12.	NR /RT/AE-101/EC	English Communication / MIL (Hindi Communication)
13.		ECA-Extra-curricular activity/ Tour, Field visit/ Industrial training/ NSS/ Swachchhta/ Vocational Training/ Sports/ others
14.	NR /RT/C-203	Microbial Technology
15.	NR /RT/CP-203	Practicals based on theory
16.	NR /RT/C-204	Dairy Management and Products
17.	NR /RT/CP-204	Practicals based on theory
18.	NR /RT/GE-202/LS	Plant Propagation and Nursery Management
19.	NR /RT/GE-P-202/LS	Practicals based on theory
20.	NR /RT/AE-201/ES	Environmental Science
21.		ECA-Extracurricular activity/ Tour, Field visit/ Industrial training/ NSS/ Swachchhta / vocational Training/ Sports/ others
22.	NR/RT/C-301L	Sericulture
23.	NR /RT/C-301P	Practicals based on theory
24.	NR /RT/C-302L	Mushroom Production Techniques

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NR /RT/C-P-302P	Practicals based on theory
NR /RT/GE-301/LS	Aquaculture
NR /RT/GE-P-301/LS	Practicals based on theory
NR /RT/GE-II A- 301/EC	Integrated Pest Management
NR/RT/GE-301L	Practicals based on theory
NR /RT/SEC-1- 101P	Horticulture and Landscaping
NR/RT/C-401L	Rural Social Structure and Planning
NR /RT/C-401P	Practicals based on theory
NR /RT/C-402L	Poultry Production Techniques
NR /RT/C-P-402P	Practicals based on theory
NR /RT/GE-401/LS	Plant Morphology and Plant Reproduction
NR /RT/GE-P-401/LS	Practicals based on theory
NR /RT/GE-II B- 401/EC	Economic Botany
NR/RT/GE-401L	Practicals based on theory
NR /RT/SEC-2-401P	Herbal Production Techniques

गुरु घासीदास विश्वविद्यालय केन्द्रीय विश्वविद्यालय अघिनियम २००९ क्र. २५ के अंतर्गत स्थापित केन्द्रीय विश्वविद्यालय) कोनी, बिलासपुर - 495009 (छ.ग.)



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Minutes of Meetings (MoM) of Board of Studies (BoS)

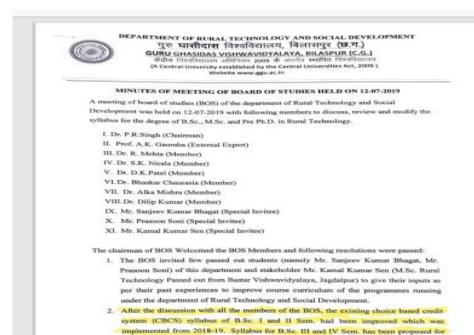
Academic Year: 2019-20

School : School of Natural Resources

: Rural Technology and Social Development **Department**

Date and Time: *July, 12, 2019 - 11:30 AM*

Venue : Seminar hall



3. The CBCS based scheme for B.Sc. Rural Technology for all the six semesters was

tation from 2019-20 in co

And August Season is attached herewith) Any ba approved by the BOS. (Scheme is attached herewith).

4. Existing Syllabus of M.Sc. 1 and Il Semester of Rural Technology has been improved and syllabus of M.Sc. III -IV semester was appeared by BOS for implementation from ession 2019-20. (Scheme is attached herewith).

5. Syllabus for Pre Ph.D. of Rural Technology approved by the BOS to be implemented from session 2019-20 and onwards

Meeting ended with vote of thanks by BOS chairman.

Prof. A.K. Gauraha Dr. R. Mehta (Member) Dr. S.K. Nirala (Memb

Dr. D. Patel (Member) Dr. Bhhrikar Chhurasia (Member) Dr. Alka Mishra (Member)

Dr. Dilip Kumar (Kember)

Dr. P.R. Singh (Chairman)

Mr. Sanjeev Kumar Bhagat (Special Invitee)

Mr. Prasoon Soni (Special Invitee)

Mr. Kamal Kumar Sen (Special Invitee)



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Scheme and Syllabus

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

SEMESTER SCHEME Master of Science of Rural Technology 2019-20

M. Sc. 1 SEMESTER

Subject	Course		rks Distrib	Mark-	10	
Code		Theory	Sessional	Practical		15
RT-101	Soil and Water Conservation Engineering 101	60	40	- 1	100	12
RT-102	Laboratory Course (Based on RT-101)	-	20	30	50	1
RT-103	Natural Product Processing Techniques Product	60	40		100	1
RT-104	Laboratory Course (Based on RT-103)		20	30	50	
RT-105	Instrumentation and Techniques	60	40		100	1
RT-106	Laboratory Course (Based on RT-105)		20	30	50	
RT-107	Innevation, Appraisal and action for Rural	60	40		100	٦.
	Development Title changed/ Ferr		1			
RT-108	Field Work/ Survey (Based on RT-107)		20	30	50	
	Total	240	240	120	600	1
				100000		

M. Sc. II SEMESTER

Subject	Course		Marks Distribution			
Code		Theory	Sessional	Practical		
RT-201	Fundamentals of Medicinal Plant	60	40	+6	100	
RL-202	Laboratory Course (Based on RT-201)	-	20	30	50	
RT-203	Application of Remote Sensing and GIS-I	60	40		100	
RT-204	Laboratory Course (Based on RT-203)	-	20	30	50	
RT-205	Rural Waste Management Title class was a	60	40	-	100	
RT-206	Laboratory Course (Based on RT-205)		20	30	50	
RT-207	Research Methodology File Cen 1 Som	60	40		100	
RT-208	Laboratory Course (Based on RT-207)		20	30	50	
	Total	240	240	120	600	

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

M. Sc. III SEMESTER

Subject	Subject Course		Marks Distribution			19
Code		Theory	Sessional	Practical		1
RT-301	Drug Formulation and Extraction	60	40	*	100	-
RT-302	Laboratory Course (Based on RT- 301)		20	30	50	
RT-303	Geospatial Technology and its application	60	40		100	
RT-304	Laboratory Course (Based on RT-303)	-	20	30	50	
RT-305	Concepts of Statistical Analysis	60	40		100	1
RT-306	Laboratory Course (Based on RT-305)	- 2	20	30	50	- 6
RT-307	Lac and Apiculture P.Sc TI Sou.	60	40		100	
T-308	Laboratory Course (Based on RT-307)		20	30	50	
T-309	Seminar	100 A	20	30	50	
	Total	240	260	150	650	

Subject	Course	Marks Distribution	Marks
Code	1.555550	Dissertation	
RT-401	Dissertation -	250	250
	Total		250

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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New Course Introduced

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NATURAL PRODUCT PROCESSING TECHNIQUES

Marks 100

General Object: To learn about the basics of lac, Mushroom, Honey production techniques and their importance in rural sector.

Students will also learn about the production of silk which is one of the important product of Chhattisgarh.

Specific Object: This course will promote the skills and entrepreneurship among the students.(2) as far as concern that the government jobs are less so it will promote self. **Outcomes:** This course will promote entrepreneurship.

Natural products: Introduction, plants as a source of various products, types of natural products, natural products and tribal connection, dependence of tribes on forest, various method of collection, storage and marketing of natural products, .

Fiber: Introduction, classification of fibers, plant origin fibers, types, study of cotton, flax and jute fiber, various fiber industries and economic importance.

Gum and Resin: Introduction, classification, physical and chemical composition, plantorigin gum and resins, collection techniques, processing and economic importance.

Dye: Sources, types of dyes, chemical nature, characteristics of natural dyes, preparation of natural dyes, extraction of dye, processing and uses.

Course Code	Laboratory (Parador PT 102)	Marks	
RT-104	Laboratory course (Based on RT-103)	50	

Laboratory exercises:

- 1. Identification of fiber producing plant & herbaria formation.
- 2. Study of fiber processing techniques.
- 3. Identification of gum producing plants & characteristics.
- 4. Tapping & collection of gums from various plant sources.
- 5. Study of various types of resin & their sources
- 6. Identification of dye producing plants.
- Study on dye Preparation methods.
- Microscopic observation of fibres

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- Microscopic observations of Biological materials.
- 2 Separation of biological material using Centrifuge, paper chromatography and
- Biochemical analysis of samples using spectrophotometer.
- 4. Microtomy and preparation of permanent mounts.

Course Code INNOVATION, APPRAISAL AND ACTION FOR RURAL RT-107 Marks DEVELOPMENT 100 General Object: To learn the concept of technology, innovation Adoption of technology, Learn the communication and familiar with the model of communication. Specific Object: Students aware with the technology and its development and Improvement of technology also which is the need of today. It develops the skill among

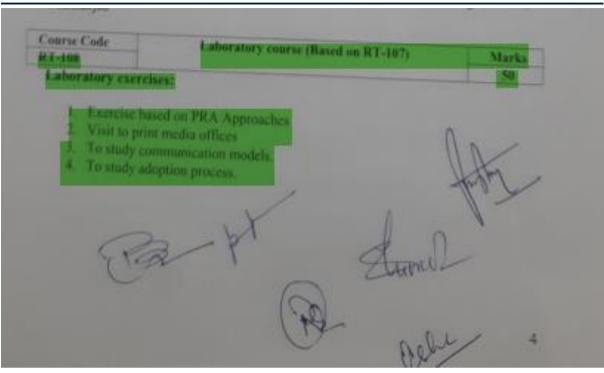
Department of Rural Technology & Social Development Corn Charletes Victor avidy along Koni-Billaspor (C.C) Semester who sylladus for PG Course in Barriers. Transfer of Technology - Concept of Technology. inology- Definition and characteristics. ry in Transfer of Technology Principles and Approaches of PRA, PRA Toolsnd trends, Matrix ranking, Mobility map. Venn diagram, RRA and PLA reduction. Foundation, process, difference between RRA and PRA, Project appraisa Reference Books

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M.Sc. III SEMESTER

Course Code: RT-308

Course Title: Seminar