



Guru Ghasidas Vishwavidyalaya

(A Central University Established by the Central Universities Act 2009 No. 25 of 2009)

Koni, Bilaspur - 495009 (C.G.)

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

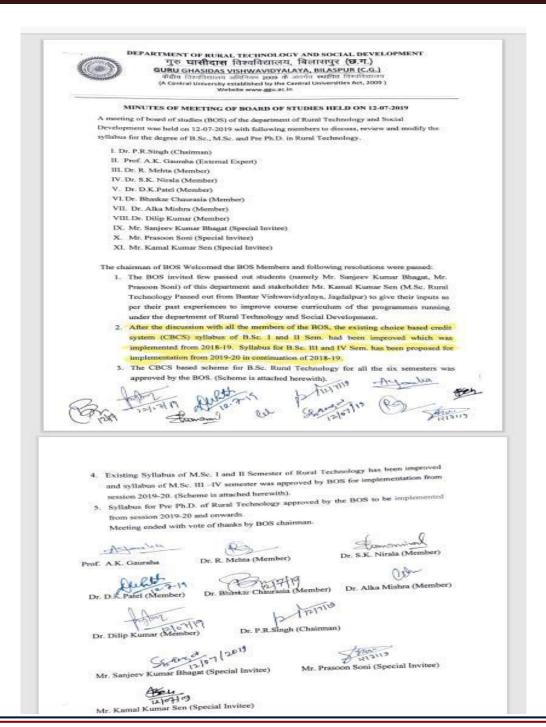
Academic Year: 2019-20

School : School of Natural Resources

Department : Rural Technology and Social Development

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

<u>Venue</u> : *Seminar hall*





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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 NR	Practicals based on theory
/RT/SEC-2-401P	Herbal Production Techniques

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Department of Rural Technology
& Social Development

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Scheme and Syllabus

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

SEMESTER SCHEME Master of Science of Rural Technology 2019-20

M. Sc. 1 SEMESTER

Subject	Course Marks Distribution		ution	Mark-	
Code		Theory Sessional Practical			
RT-101	Soil and Water Conservation Engineering	60	40		100
RT-102	Laboratory Course (Based on RT-101)		20	30	50
RT-103	Natural Product Processing Techniques	60	40		100
RT-104	Laboratory Course (Based on RT-103)		20	30	50
RT-105	Instrumentation and Techniques	60	40		100
RT-106	Laboratory Course (Based on RT-105)		20	30	50
RT-107	Development Title Cookinged/	60	40		100
RT-108	Field Work/ Survey (Based on RT-107)	*	20	30	50
	Total	240	240	120	600

M. Sc. II SEMESTER

Subject	Course	Marks Distribution Theory Sessional Practical		Marks	
Code					
RT-201	Fundamentals of Medicinal Plant	60	40	**	100
RL-202	Laboratory Course (Based on RT-201)	7.1	20	30	50
RT-203	Application of Remote Sensing and GIS-I	60	40	-5	100
RT-204	Laboratory Course (Based on RT-203)		20	30	50
RT-205	Rural Waste Management Title clock get	60	40		100
RT-206	Laboratory Course (Based on RT-205)		20	30	50
RT-207	Research Methodology FOCEL I Som	60	40	•	100
RT-208	Laboratory Course (Based on RT-207)	10.00	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	Course		rks Distrib	Marks	1	
Code		Theory Sessiona		Practical		1
RT-301	Drug Formulation and Extraction	60	40		100	
RT-302	Laboratory Course (Based on RT- 301)		20	30	50	1
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)	¥7	20	30	50	-
RT-307	Lac and Apiculture P.S. TIL Sour	60	40	*	100	
RT-308	Laboratory Course (Based on RT-307)		20	30	50	
T-309	Seminar Company of the Company of th	10-10-10-10-10-10-10-10-10-10-10-10-10-1	20	30	50	
- Anna Maria	Total	240	260	150	650	

M. Sc. 14	SEMESTER	Total Breds	Marales
Subject Course		Marks Distribution	Marks
Code	1.500000	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.

New Course Introduced

Criteria - I (1.2.1)

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Course Code RT-103

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	I -b	
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.
- 8. 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 RT-107

INNOVATION, APPRAISAL AND ACTION FOR RURAL DEVELOPMENT

Marks 100

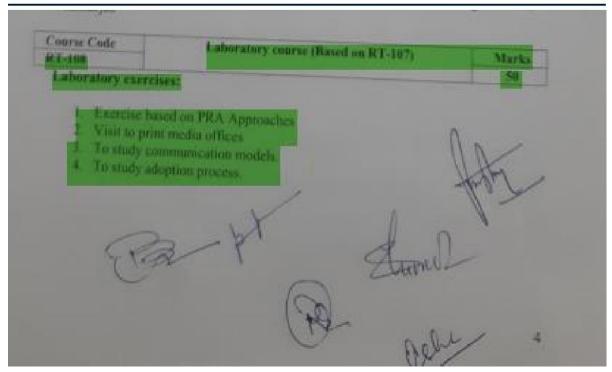
General Object: To learn the concept of technology, innovation Adoption of technology, Learn the communication and familiar with the model of communication. Specific Object: Students aware with the technology and its development and Improvement of technology also which is the need of today. It develops the skill among

Department of Recal Technology & Social Development Guru Ghashtas Vishwavidyalaya, Koni-Bilaspur (C.G). nester-wise sylladous for PL Course ion Barriers. Transfer of Technology - Concept of Technology, in Transfer of Technology Principles and Approaches of PRA, PRA Tools- Map ocial resource, land use pattern map, enterprise map, transect. and trends, Matrix ranking, Mobility map, Venn diagram, RRA and PLA discison, foundation, process, difference between RRA and PRA. Project appr Reference Books

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M.Sc. III SEMESTER

Course Code: RT-308

Course Title: Seminar