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1.1.2

List of Employability/ Entrepreneurship/ Skill Development Courses with Course Contents

Colour Codes					
Employability Contents	Green				
Entrepreneurship Contents	Light Blue				
Skill Development Contents	Pink				
NameoftheSubjects/RelatedtoallthreeComponents(Employability/Entrepreneurship/SkillDevelopment)	Yellow				

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List of Courses Focus on Employability/ Entrepreneurship/ Skill Development

Department	: Rural Technology and Social Development
Programme Name	: M.Sc. Rural Technology

Academic Year : 2019-20

List of Courses Focus on Employability/ Entrepreneurship/Skill Development

Sr. No.	Course Code	Name of the Course
1.	RT-105	Instrumentation and Techniques
2.	RT-106	Laboratory Course (Based on RT-105)
3.	RT-107	Innovation, Appraisal and Action for Rural Development
4.	RT-201	Fundamentals of Medicinal Plants
5.	RT-202	Laboratory Course (Based on RT- 202)
6.	RT-203	Application of Remote Sensing and GIS
7.	RT-204	Laboratory Course (Based on RT- 203)
8.	RT-205	Rural Waste Management
9.	RT-206	Laboratory Course (Based on RT-205)
10.	RT-301	Drug Formulation and Extraction
11.	RT-302	Laboratory Course (Based on RT-301)
12.	RT-303	Geospatial Technology and its application
13.	RT-304	Laboratory Course (Based on RT-304)
14.	RT-307	Lac and Apiculture
15.	RT-308	Laboratory Course (Based on RT-307)

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Scheme and Syllabus

SEMESTER SCHEME Master of Science of Rural Technology

2019-20

Subject	Sc. 1 SEMESTER biect Course		Marks Distribution		
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	Innovation, Appraisal and action for Rural Development T:ALC CUCKING of Bow	60	40	•	100
T-108	Field Work/ Survey (Based on RT-107)	-	20	30	50
(1-100	Total	240	240	120	600

M. Sc. II SEMESTER

Course		Marks Distribution			Fr
	Theory	Sessional	Practical		1
the state of the s	60	40		100	
		1.55-1		50	-17
se (Based on RT-201)	-	20	30	30	_
	EW 60	40		100	
		20	30	50	
e (Based on RT-203)		20			-
somether Tiste climation	60	40		100	
		20	30	50	
e (Based on K1-205)	- C- C- 1		24	100-	- 100
along Factures I Some	60	40		100	
		20	30	50	1
e (Based on R1-207)	-		120	600	1
	240	240	120	1000	
	e (Based on RT-203) agement T(+Le classical) e (Based on RT-205)	Theory 'Medicinal Plant se (Based on RT-201) emote Sensing and GIS-I agement Theory 60 e (Based on RT-203) e (Based on RT-205) e (Based on RT-205) ology Feedback 60	Theory Sessional Medicinal Plant 60 40 sc (Based on RT-201) - 20 emote Sensing and GIS-I 60 40 se (Based on RT-203) - 20 agement 1144 60 40 e (Based on RT-203) - 20 ology 50 60 40 e (Based on RT-205) - 20 ology 50 10 20 e (Based on RT-207) - 20	Theory Sessional Practical Medicinal Plant 60 40 - sc (Based on RT-201) - 20 30 emote Sensing and GIS-I 60 40 - se (Based on RT-203) - 20 30 agement - - 20 30 ology - 20 30 - ology - 20 30 - e (Based on RT-205) - 20 30 - ology - 20 30 - - ology - - 20 30 - ology - - 20 30 - - ology - - 20 30 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - <td>Theory Sessional Practical ⁶Medicinal Plant 60 40 - 100 se (Based on RT-201) - 20 30 50 emote Sensing and GIS-I 60 40 - 100 se (Based on RT-203) - 20 30 50 agement 114 color 60 40 - 100 se (Based on RT-203) - 20 30 50 agement 114 color 60 40 - 100 se (Based on RT-205) - 20 30 50 ology 1100 color 60 40 - 100⁻ ology 1100 color 20 30 50 50 ology 100 color 20 30 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50</td>	Theory Sessional Practical ⁶ Medicinal Plant 60 40 - 100 se (Based on RT-201) - 20 30 50 emote Sensing and GIS-I 60 40 - 100 se (Based on RT-203) - 20 30 50 agement 114 color 60 40 - 100 se (Based on RT-203) - 20 30 50 agement 114 color 60 40 - 100 se (Based on RT-205) - 20 30 50 ology 1100 color 60 40 - 100 ⁻ ology 1100 color 20 30 50 50 ology 100 color 20 30 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50

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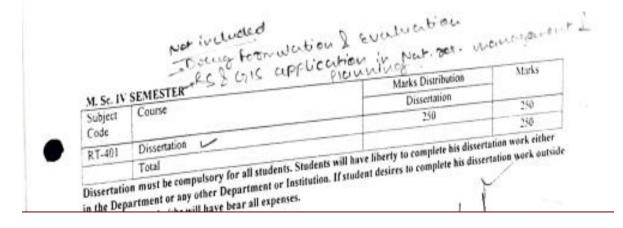


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Department of Rural Technology & Social Development Guru Ghasidas Vishwavidyalaya, Koni-Bilaspur (CG) Semester-wise syllabus for PG Course

M. Sc. 111 SEMESTER

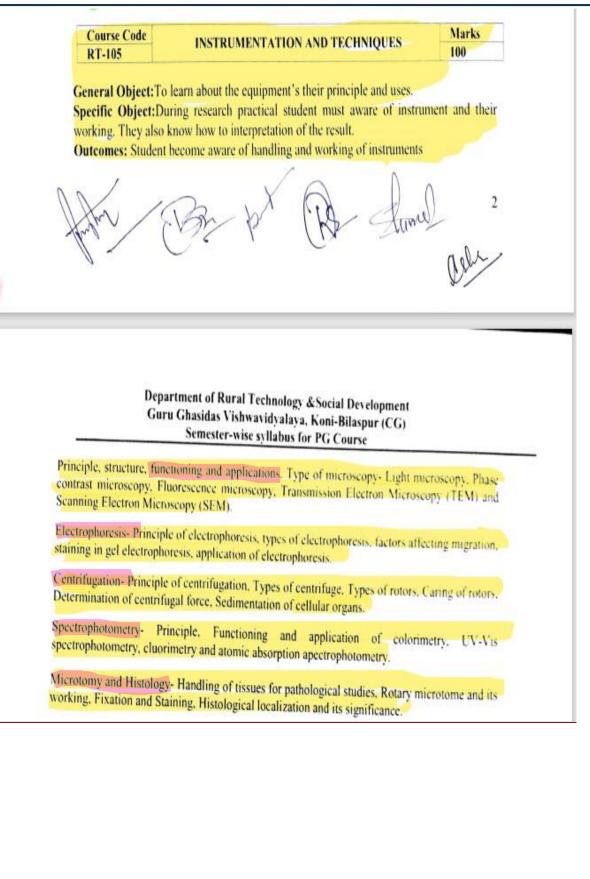
ubject Course		Marks Distribution			Marks
ode	1 (SA 11 S)	Theory	Sessional	Practical	
-301	Drug Formulation and Extraction	60	40	•	100
	Laboratory Course (Based on RT- 301)		20	30	50
T-302		60	40	•	100
RT-303	Geospatial Technology and its application	1.	20	30	50
RT-304	Laboratory Course (Based on RT-303)	60	40		100
RT-305	Concepts of Statistical Analysis		20	30	50
RT-306	Laboratory Course (Based on RT-305)	60	40		100
RT-307	Lac and Apiculture P.Sc T.Sen	00	20	30	50
RT-308	Laboratory Course (Based on RT-307)		20	30	50
RT-309	Seminar	210	260	150	650
	Total	240	200		



Criteria – I (1.1.3)

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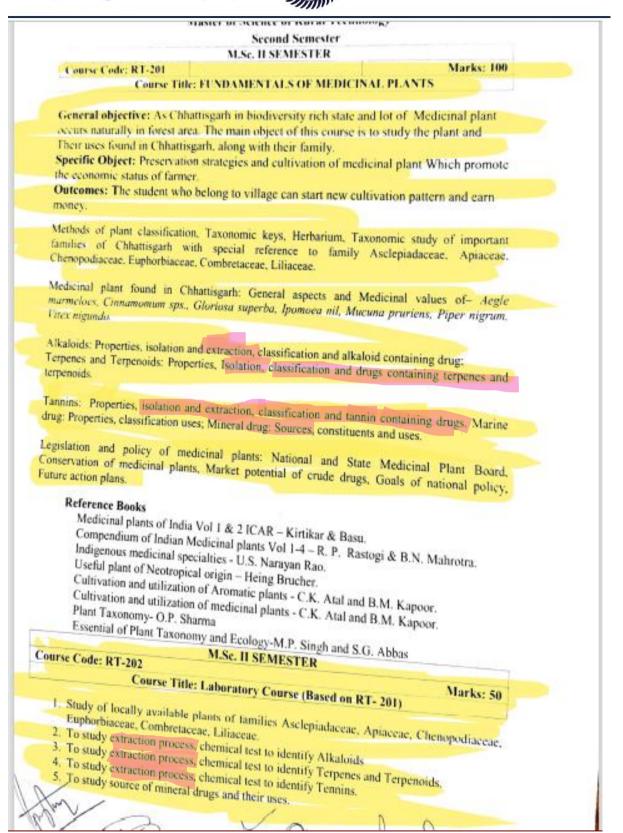


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29%20Jun%202022%20(2).pdf copress electrophoresis. 3. Biochemical analysis of samples using spectrophotometer. Microtomy and preparation of permanent mounts. Course Code INNOVATION, APPRAISAL AND ACTION FOR RURAL Marks RT-107 100 DEVELOPMENT General 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 the student. Department of Rural Technology & Social Development Corn Chasteles Vishe avid alays, Kont Rilaspur (C (.) Semester whe as Babas for Pf, Course Determest Student will know the technology diffusion and Adoption of technology Student identify the adopters and their categories (1) Straight way war able to the students will attached with the rural sectors. Innevation. Definition, Characteristic of innevation, importance of innevation in day today life. Technology diffusion Definition, innevation decision process and factors that affect diffusion process. Adoption process - concept, stages in adoption process, rate of adoption. Adopter categories, identification of adopters. Communication Definition, concepts and model of communication, types of communication Barriers. Transfer of Technology - Concept of Technology, Appropriate Technology- Definition and characteristics, different Models of technology transfer, barriers in Transfer of Technology. PRA- Definition, Principles and Approaches of PRA, PRA Tools- Mapping, Types of mapping- social resource/ land use pattern map, enterprise map, transect walk, time line, change and trends, Matrix ranking, Mobility map, Venn diagram, RRA and PLA: Introduction, foundation, process, difference between RRA and PRA, Project appraisal. Courses Focus on Employability/Entrepreneurship/Skill Development *Criteria – I* (1.1.3)

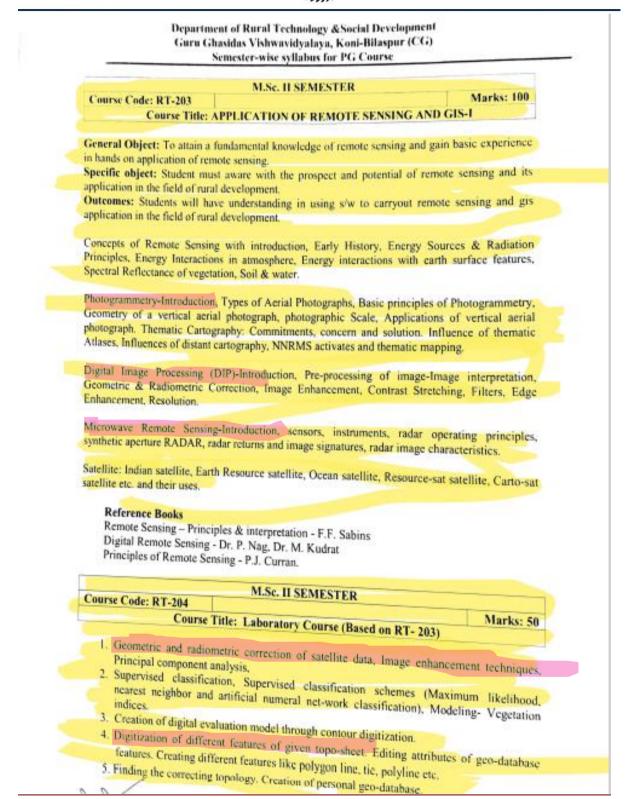
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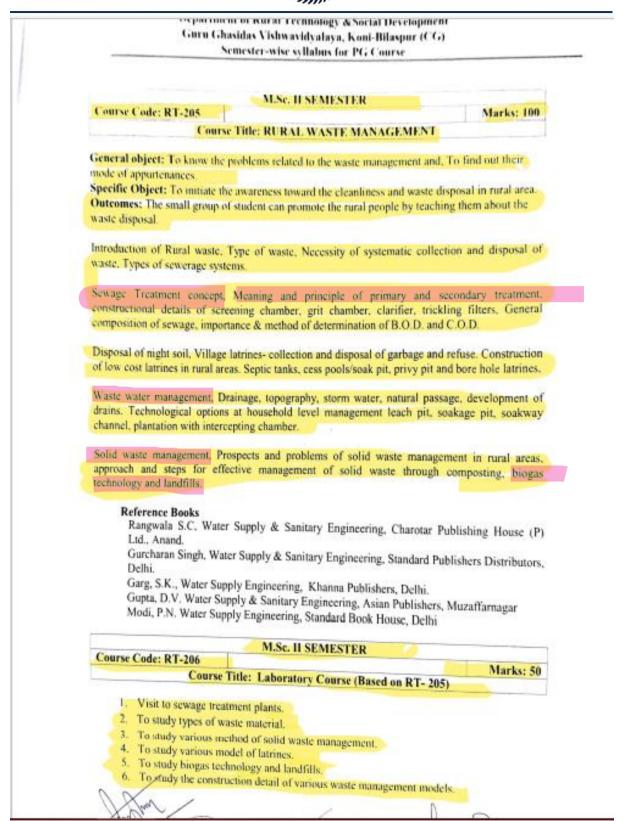




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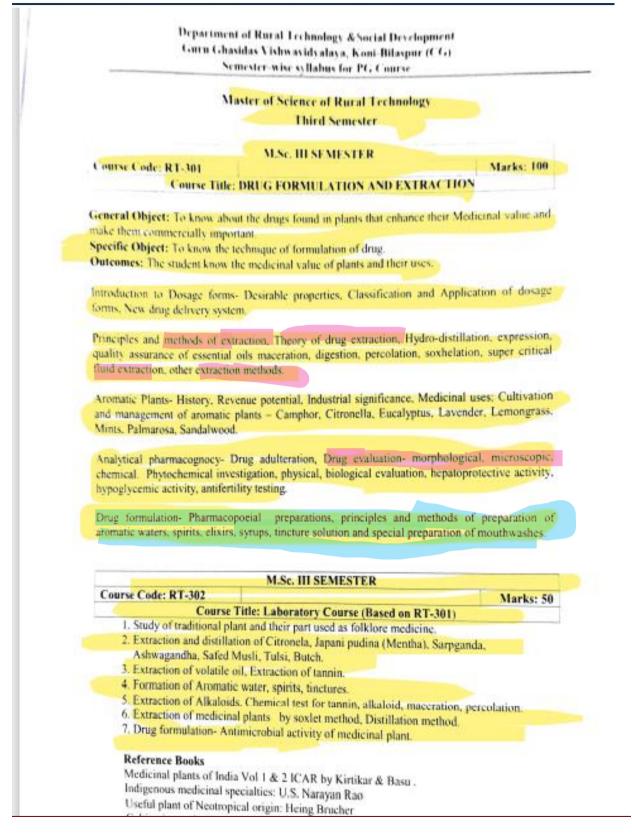
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Criteria – I (1.1.3)

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M.Sc. III SEMESTER

Course Code: RT-303 Marks: 100 Course Title: GEOSPATIAL TECHNOLOGY AND ITS APPLICATION

General Object: To know about Remote Sensing and its uses in various sector like agriculture, forest, wild life and rural area planning.

Specific Object: To get knowledge of study area through remote sensing Software. Outcomes: Analysis and interpretation of data of study area at different time Interval can be done for research purpose.

Basics of GIS: Definition, components of GIS, DBMS: data base approach, advantage and disadvantage, data model – classic data model, hierarchical data model, network and relational data models, Various interpolation techniques.

Types of data structure, raster and vector format, image data format - BSQ, BIL, BIP, advantage and disadvantage of various data structure, data input - digitization and scanning method.

Map projection, elements of map, introduction to GPS and DGPS its application, Application of remote sensing and GIS – Mapping and monitoring of land use land cover, forest resource management, principal and approaches of crop production forecasting, soil classification, hydrological cycle, types of precipitation and analysis.

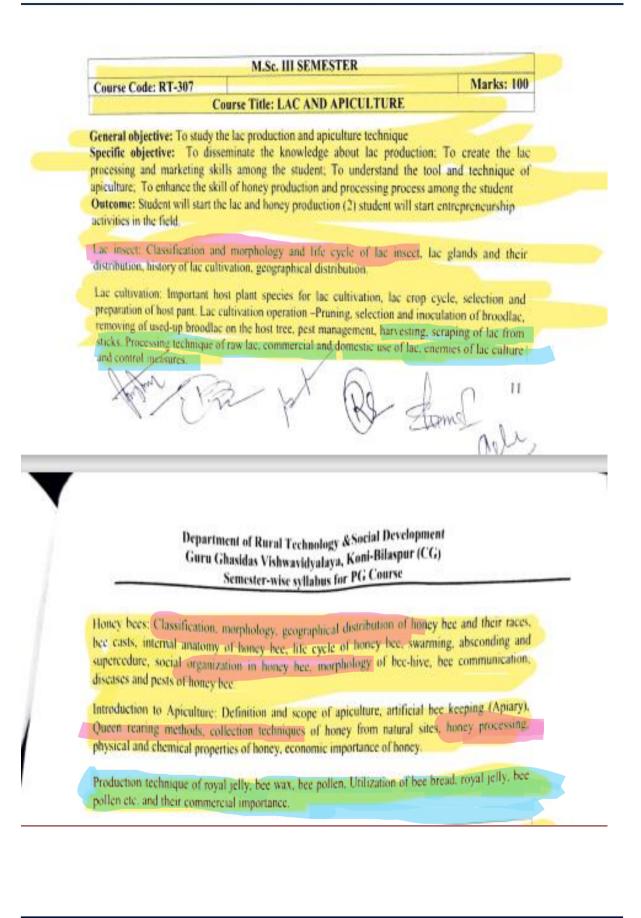
Urban and rural area planning – urban and rural area sprawl and change detection studies, population estimation, site suitability analysis for – settlement, transportation irrigation system, storage and other facilities.

M.Sc. III SEME	STER
Course Code: RT-304	Marks: 50
Course Title: Laboratory Cou	rse (Based on RT-303)
1. Practice based on ArcGIS and ERDAS	
2. To generate various Indices map - NDV	I, NDWI, NDBI, NDSI
3. Interpolation methods	
4. Surface analysis	
5. Layout preparation	
Reference Books	
Remote Sensing - Principles & interpretation - F.	F. Sahian
Digital Remote Sensing - Dr. P. Nag, Dr. M. Kud	r. Saous Irat
Principles of Remote Sensing - P.J. Curran.	10
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Courses Focus on Employability/Entrepreneurship/Skill Development

Criteria - I (1.1.3)