



List of New Course(s) Introduced

Department : **Rural Technology and Social Development**

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

Academic Year : **2021-22**

List of New Course(s) Introduced

Sr. No.	Course Code	Name of the Course
01.	RTUATC1	Organic Manure Production Techniques
02.	RTUALC1	Laboratory course based on theory
03.	RTUATC2	Elementary Biology
04.	RTUALC2	Laboratory course based on theory
05.	RTUATG1	Soil and Fertilizers
06.	RTUALG1	Laboratory course based on theory
07.	RTUATL1	Horticulture and Landscaping
08.	RTUALL1	Laboratory course based on theory
09.	RTUATA1	Organic Farming
10.	RTUALA1	Laboratory course based on theory
	RTUBTC1	Microbial Technology
	RTUBLC1	Laboratory course based on theory
	RTUBTC2	Dairy Management and Products
	RTUBLC2	Laboratory course based on theory
	RTUBTG1	Plant Propagation and Nursery Management
	RTUBLG1	Laboratory course based on theory
	RTUBTL1	Herbal Production Techniques
	RTUBLL1	Laboratory course based on theory
	RTUBTA1	Rural Health Care



	RTUBTA1	Sericulture
	RTUCTC1	Laboratory course based on theory
	RTUCLC1	Basics of Mushroom Production
	RTUCTC2	Laboratory course based on theory
	RTUCLC2	Aquaculture
	RTUCTC3	Laboratory course based on theory
	RTUCLC3	Integrated Pest Management
	RTUCTG1	Laboratory course based on theory
	RTUCTA1	Wooden Art
	RTUCLA1	Laboratory course based on theory
	RTUDTC1	Rural Social Structure and Planning
	RTUDLC1	Laboratory course based on theory
	RTUDTC2	Poultry Production Techniques
	RTUDLC2	Laboratory course based on theory
	RTUDTC3	Plant Morphology and Reproduction
	RTUDLC3	Laboratory course based on theory
	RTUDTG1	Economic Botany
	RTUDLG1	Laboratory course based on theory
	RTUDTA1	Indigenous Art
	RTUDLA1	Laboratory course based on theory
	RTUDEC1	Internship Programme (B.Sc. IV) One Month Programme
	RTUETC1	Land, Surveying, Leveling and Drawing
	RTUELCL1	Laboratory course based on theory
	RTUETC2	Building Construction Material and Rural Infrastructure
	RTUELCL2	Laboratory course based on theory



RTUETD1	Goat and Pig Production Techniques
RTUELD1	Laboratory course based on theory
RTUETD2	Rural Entrepreneurship and Management
RTUELD2	Laboratory course based on theory
RTUETA1	Lac And Honey Production
RTUELA1	Laboratory course based on theory
RTUFTC1	Introduction to Remote Sensing
RTUFLC1	Laboratory course based on theory
RTUFTC2	Introduction to Medicinal Plants
RTUFLC2	Laboratory course based on theory
RTUFTD1	Natural Product Management
RTUFLD1	Laboratory course based on theory
RTUFD1	Project work / Dissertation
RTUFSF2	Seminar
RTPATC-1	Concepts of Statistical Analysis
RTPALC-1	Laboratory Course (Based on RTPATC-1)
RTPATC-2	Innovation, Appraisal and action for Rural Development
RTPALC-2	Field based work/ Survey (Based on RTPATC-2)
RTPATG-1	Sericulture
RTPALG-1	Laboratory Course (Based on RTPATG-1)
RTPATG-2	Lac production technique
RTPALG-2	Laboratory Course (Based on RTPAGT-2)
RTPATO-1	Natural Product and Processing Techniques
RTPALO-1	Laboratory Course (Based on RTPATO-1)
RTPBTC-1	Fundamentals of Medicinal Plant



	RTPBLC-1	Laboratory Course (Based on RTPBTC-1)
	RTPBTC-2	Concept of Remote Sensing and GIS-I
	RTPBLC-2	Laboratory Course (Based on RTPBTC-2)
	RTPBTA-1	Research Methodology and Ethics
	RTPBTG-1	Rural Waste Management
	RTPBPG-1	Laboratory Course (Based on RTPBTG-1)
	RTPBTG-2	Soil and Water Conservation Engineering
	RTPBPG-2	Laboratory Course (Based on RTPBTG-2)
	RTPCTC-1	Drug Formulation and Extraction
	RTPCLC-1	Laboratory Course (Based on RTPCTC-1)
	RTPCTC-2	Geospatial Technology and its Application
	RTPCLC-2	Laboratory Course (Based on RTPCTC-2)
	RTPCTG-1	Mushroom Cultivation Technology
	RTPCLG-1	Laboratory Course (Based on RTPCTG-1)
	RTPCTG-2	Beekeeping Techniques
	RTPCLG-2	Laboratory Course (Based on RTPCTG-2)
	RTPCTA-1	Instrumentation and Techniques
	RTPCLA-1	Laboratory Course (Based on RTPCTA-1)
	RTPCSA-1	Seminar
	RTPDTG-1	Computer application
	RTPDTG-2	Entrepreneurship
	RTPDDC-1	Dissertation/ Project work followed by seminar



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


Academic Year : 2019-20

School : School of Studies of Engineering and Technology

Department : Rural Technology and Social Development

Date and Time : April 5, 2022 - 10:30 AM

Venue : Seminar Hall

 **DEPARTMENT OF RURAL TECHNOLOGY AND SOCIAL DEVELOPMENT**
GURU GHASIDAS VISHWAVIDYALAYA
(A Central University)
Koni, BILASPUR (C.G.) 495009
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MINUTES OF MEETING OF BOARD OF STUDIES HELD ON 05-04-2022

A meeting of Board of Studies (BOS) of the Department of Rural Technology and Social Development was held on 05-04-2022 with following members to discuss, review and modify the syllabus as per the Learning Outcomes-based Curriculum Framework (LOCF) guideline for the UG and PG Programs. Following members were present in the meeting.

- I. Dr. P.R. Singh (Chairman)
- II. Prof. Rajendra Singh Negi (Academic External Expert-)
- III. Mr. Amit Gupta (Industry External Expert)
- IV. Dr. R. Mehta (Member)
- V. Dr. S.K. Nirala (Member)
- VI. Dr. Bhaskar Chaurasia (Member)
- VII. Dr. Alka Mishra (Member)
- VIII. Dr. Dilip Kumar (Member)
- IX. Dr. Lokesh Kumar Tinde (Member)
- X. Dr. D.S. Porte (Member)

The chairmen of BOS welcomed the BOS members and following resolution were passed:

1. All members of the BOS discussed the scheme and syllabus of Three year B.Sc. (RT) program and two year M.Sc. (RT) Program as per the LOCF criteria.
2. The LOCF based scheme and syllabus for B.Sc. Rural Technology (all the six semesters) and M.Sc. Rural Technology (all the four semesters) was approved by the BOS (Scheme and syllabus is attached herewith).
3. The paper entitled "Wooden art" has been modified in "Wooden arts and craft" and syllabus of the paper has also been modified accordingly as per the expert advice.
4. A 30 Hours value added course on "Mushroom Agronomics" was proposed by Course Co-ordinator Dr. Bhaskar Chaurasia. All members of the BOS discussed the syllabus and scheme of examination of the value added course and approved the proposed value added course (Scheme and syllabus is attached herewith).

Meeting ended with vote of thanks by BOS chairman.

Prof. R. S. Negi (Academic External Expert) (On line Present)	Mr. Amit Gupta (Industry External Expert) (online Present)	Dr. R. Mehta (Member) (On leave)
Dr. S.K. Nirala (Member)	Dr. Bhaskar Chaurasia (Member)	Dr. Alka Mishra (Member)
Dr. Dilip Kumar (Member)	Dr. Lokesh Kumar Tinde	Dr. D.S. Porte
Dr. P.R. Singh (Chairman)		



Scheme and Syllabus

**Department of Rural Technology and Social Development
School of Studies in Interdisciplinary Education and Research,
B.Sc. Hon's (Syllabus Scheme as par LOCF) 2021-22**

Semester	Course Opted	Course Code	Name of the course	Credit	Hour / week
I	Core-1	RTUATC1	Organic Manure Production Techniques	4	4
	Core -1 Practical	RTUALC1	Laboratory Course based on theory	1	2
	Core -2	RTUATC2	Elementary Biology	4	4
	Core -2 Practical	RTUALC2	Laboratory Course based on theory	1	2
	Generic Elective -1	RTUATG1	Soil and Fertilizers	4	4
	Generic Elective - Practical	RTUALG1	Laboratory Course based on theory	1	2
	Ability Enhancement Compulsory Course		English Communication / MIL (Hindi Communication)	2*	3
	ECA	RTUAPS1	ECA-Extra-curricular activity/ Tour, Field visit/ Industrial training/ NSS/ Swachchhta/ Vocational Training/ Sports/ others	2	2
		TOTAL	19	23	
II	Core-3	RTUBTC1	Microbial Technology	4	4
	Core -3 Practical	RTUBLC1	Laboratory Course based on theory	1	2
	Core -4	RTUBTC2	Dairy Management and Products	4	4
	Core -4 Practical	RTUBLC2	Laboratory Course based on theory	1	2
	Generic Elective -2 (GE-IB)	RTUBTG1	Plant Propagation and Nursery Management	4	4
	Generic Elective - Practical	RTUBLG1	Laboratory Course based on theory	1	2
	Ability Enhancement Compulsory Course (AECC)		Environmental Science	2*	3
	ECA	RTUBPS1	ECA-Extracurricular activity/ Tour, Field visit/ Industrial training/ NSS/ Swachchhta / vocational Training/ Sports/ others	2**	2**
		TOTAL	17+2**	21+2**	
SUMMER Internship: 15 days			Swayam Swachchhta / NSS / Industrial/ others	2	100

Semester	Course Opted	Course Code	Name of the course	Credit	Hour / week
III	Core-5	RTUCTC1	Sericulture	4	4
	Core -5 Practical	RTUCLC1	Laboratory Course based on theory	1	2
	Core -6	RTUCTC2	Basics of Mushroom Production	4	4
	Core -6 Practical	RTUCLC2	Laboratory Course based on theory	1	2
	Core - 7	RTUCTC3	Aquaculture	4	4
	Core - 7 Practical	RTUCLC3	Laboratory Course based on theory	1	2
	Generic Elective -3 (GEII-A)	RTUCTG1	Integrated Pest Management	4	4
	Generic Elective - Practical	RTUCLG1	Laboratory Course based on theory	1	2
	Skill Enhancement Course (SEC - 1)	RTUCTA1	Horticulture and Landscaping	2	2
	Skill Enhancement Course (SEC - 1)	RTUCLA1	Laboratory Course based on theory	2	4
		TOTAL	24	30	
IV	Core-8	RTUDTC1	Rural Social Structure and Planning	4	4
	Core -8 Practical	RTUDLC1	Laboratory Course based on theory	1	2
	Core -9	RTUDTC2	Poultry Production Techniques	4	4
	Core -9 Practical	RTUDLC2	Laboratory Course based on theory	1	2
	Core - 10	RTUDTC3	Plant Morphology and Reproduction	4	4
	Core -10 Practical	RTUDLC3	Laboratory Course based on theory	1	2
	Generic Elective -4 (GEII-B)	RTUDTG1	Economic Botany	4	4
	Generic Elective - Practical	RTUDLG1	Laboratory Course based on theory	1	2
	Skill Enhancement Course (SEC -2)	RTUDTA1	Herbal Production Techniques	2	2
	Skill Enhancement Course (SEC -2)	RTUDLA1	Laboratory Course based on theory	2	4
		TOTAL	24	30	
SUMMER Internship: 15 days			Swayam/ Swachchhta / NSS / Industrial/ others	2	100



Semester	Course Opted	Course Code	Name of the course	Credit	Hour / week
V	Core-11	RTUETC1	Land Surveying, Leveling and Drawing	4	4
	Core -11 Practical	RTUELC1	Laboratory Course based on theory	1	2
	Core -12	RTUETC2	Building Construction Material and Rural Infrastructure	4	4
	Core -12 Practical	RTUELC2	Laboratory Course based on theory	1	2
	Discipline Specific Elective-1A	RTUETD1	Goat and Pig Production Techniques	4	4
	Practical	RTUELD1	Laboratory Course based on theory	1	2
	OR				
	Discipline Specific Elective-1B	RTUETD2	Rural Entrepreneurship and Management	4	4
	Practical	RTUELD2	Laboratory Course based on theory	1	2
	Discipline Specific Elective-2A	RTUETD3	Natural Product Management	4	4
	DSE-2 - Practical	RTUELD3	Laboratory Course based on theory	1	2
	OR				
	Discipline Specific Elective-2B	RTUETD4	Agricultural Equipments and Crop Production	4	4
	DSE-2 - Practical	RTUELD4	Laboratory Course based on theory	1	2
		TOTAL	20	24	
VI	Core-13	RTUFTC1	Introduction to Remote Sensing	4	4
	Core -13 Practical	RTUFLC1	Laboratory Course based on theory	1	2
	Core -14	RTUFTC2	Introduction to Medicinal Plants	4	4
	Core -14 Practical	RTUFLC2	Laboratory Course based on theory	1	2
	Discipline Specific Elective -3A	RTUFTD1	Rural Energy Resources	4	4
	DSE - 3A Practical	RTUFLD1	Laboratory Course based on theory	1	2
	OR				
	Discipline Specific Elective -3B	RTUFTD2	Watershed Management	4	4
	DSE - 3BPractical	RTUFLD2	Laboratory Course based on theory	1	2
	Any two from DSE4/5/6				
	Discipline Specific Elective-4*	RTUFTD3	Rural Health Care	4	4
DSE-4* Practicals	RTUFLD3	Laboratory Course based on theory	1	2	

	Discipline Specific Elective-5*	RTUFTD4	Organic Farming	4	4
	DSE-5* Practicals	RTUFLD4	Laboratory Course based on theory	1	2
	Discipline Specific Elective-6*	RTUFTD5	Indigenous Arts and Crafts	4	4
	DSE-6* Practicals	RTUFLD5	Laboratory Course based on theory	1	2
	OR				
	Dissertation/ Internship/ Project work followed by seminar	RTUFDF6	Seminar of dissertation/project, presentation of internship work	10	12
			TOTAL	25	30
			TOTAL CREDITS	129+2**+4	

As per UGC CBCS guidelines, University / departments have liberty to offer GE and SEC courses offered by any department to students of other departments. The No. of GE course is four. One GE course is compulsory in first 4 semesters each. In present scheme it is proposed to have minimum two GE courses (from one subject) in first two semester after which student shall change two GE for another subject in IIIrd and IVth semester, so that the student can have exposure of one additional subject. In VI semester students any choose any two course from DSE 4,5 and 6 or may choose the dissertation/Internship/project work. Student may opt (Subject to approval by the competent authority)



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



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

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



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

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.