

Syllabus

B. Sc. (Rural Technology)

2023-2024 onwards

Under NEP-2020



DEPARTMENT OF RURAL TECHNOLOGY AND SOCIAL DEVELOPMENT

GURU GHASIDAS VISHWAVIDYALAYA
(A Central University)
Koni- Bilaspur 495009 Chhattisgarh

Department of Rural Technology & Social Development
Guru Ghasidas Vishwavidyalaya, Koni-Bilaspur (CG)
Semester-wise syllabus for 4 Years UG Program, Session 2023-2024 onwards under NEP-2020
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Semester	Courses	Paper Code	Name of the paper	Level	L+P+T	Credits	Total Credits	Int. Marks	Ext. Marks	Total Marks
I	Major	RTUATC1	Emergence of Rural Technology	2	3+0+0	3	20	30	70	100
		RTUALC1	Lab-Emergence of Rural Technology		0+0+1	1		30	70	100
	Minor	RTUATG1	Horticulture and Landscaping	2	3+0+0	3		30	70	100
		RTUALG1	Lab-Horticulture and Landscaping		0+0+1	1		30	70	100
	Multi-disciplinary		Selection from Pool of Papers	1	3+0+0	3		30	70	100
	AEC		Language (Hindi/English)	1	2+0+0	2		30	70	100
	SEC	RTUATL1	Dairy Management and Products	1	2+0+0	2		30	70	100
		RTUALL1	Lab- Dairy Management and Products		0+0+1	1		30	70	100
	VAC1	RTUBTV1	Historical Perspective of Indian Education	1	2+0+0	2		30	70	100
	VAC2		Environmental	1	2+0+0	2		30	70	100
							Total	300	700	1000
II	Major	RTUBTC1	Poultry Production Technology	2	3+0+0	3	20	30	70	100
		RTUBLC1	Lab- Poultry Production Technology		0+0+1	1		30	70	100
	Minor	RTUBTG1	Microbial Technology	2	3+0+0	3		30	70	100
		RTUBLG1	Lab- Microbial Technology		0+0+1	1		30	70	100
	Multidisciplinary	RTUBMD T1	Indigenous Art	1	3+0+0	3		30	70	100
	AEC		(Hindi/English)	1	2+0+0	2		30	70	100
	SEC	RTUBTL2	Herbal Production Technology	1	2+0+0	2		30	70	100
		RTUBLL2	Lab-Herbal Production Technology		0+0+1	1		30	70	100
	VAC 1		Selection from Pool of papers	1	2+0+0	2		30	70	100
	VAC 2		Selection from Pool of papers	1	2+0+0	2		30	70	100
							Total	300	700	1000

The student must complete the 4-credit vocational course/Internship during summer term to get UG certificate if he/she wish to exit the program after first 2 semester.

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III	Major	RTUCTC1	Sericulture	3	3+0+0	3	20	30	70	100
		RTUCLC1	Lab- Sericulture		0+0+1	1		30	70	100
	Major	RTUCTC2	Rural Energy Resources	3	3+0+0	3		30	70	100
		RTUCLC2	Lab- Rural Energy Resources		0+0+1	1		30	70	100
	Minor	RTUCTG1	Sericulture	3	3+0+0	3		30	70	100
		RTUCLG1	Lab- Sericulture		0+0+1	1		30	70	100
	Multi-disciplinary		Selection from Pool of papers	1	3+0+0	3		30	70	100
	AEC		(Hindi/English)	1	2+0+0	2		30	70	100
	SEC	RTUCTL1	Basics of Mushroom Production	1	2+0+0	2		30	70	100
		RTUCLL1	Lab- Basics of Mushroom Production		0+0+1	1		30	70	100
							Total	300	700	1000
IV	Major	RTUDTC1	Natural Product Management	3	3+0+0	3	20	30	70	100
		RTUDLC1	Lab- Natural Product Management		0+0+2	2		30	70	100
	Major	RTUDTC2	Goat and Pig Production Techniques	3	3+0+0	3		30	70	100
		RTUDLC2	Lab- Goat and Pig Production Techniques		0+0+2	2		30	70	100
	Major	RTUDTC3	Apiculture and Lac culture	3	3+0+0	3		30	70	100
		RTUDLC3	Lab- Apiculture and Lac culture		0+0+1	1		30	70	100
	Minor	RTUDTG1	Apiculture and Lac culture	3	3+0+0	3		30	70	100
		RTUDLG1	Lab- Apiculture and Lac culture		0+0+1	1		30	70	100
	AEC		(Hindi/English)	1	2+0+0	2		30	70	100
							Total	270	630	900
The student must complete the 4 credits vocational course/Internship either after first year or second year during summer term to get UG Diploma if he wishes to exit the program after 4 semesters.										
V	Major	RTUETC1	Soil and Nutrient Management	4	3+0+0	3	21	30	70	100
		RTUELC1	Lab- Soil and Nutrient Management		0+0+2	2		30	70	100
	Major	RTUETC2	Watershed Management	4	3+0+0	3		30	70	100
		RTUELC2	Lab- Watershed Management		0+0+2	2		30	70	100
	Major	RTUETC3	Organic Farming	4	3+0+0	3		30	70	100
		RTUELC3	Lab- Organic Farming		0+0+2	2		30	70	100
	Minor	RTUETG1	Organic Farming	4	2+0+0	2		30	70	100
		RTUELG1	Lab- Organic Farming		0+0+2	2		30	70	100
	Internship	RTUINT1	-	-		2		30	70	100
							Total	270	630	900

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VI	Major	RTUFTC1	Land Surveying, Levelling and Drawing	4	3+0+0	3	19	30	70	100
		RTUFLC1	Lab- Land Surveying, Levelling and Drawing		0+0+2	2		30	70	100
	Major	RTUFTC2	Rural Social Structure and Planning	4	3+0+0	3		30	70	100
		RTUFLC2	Lab- Rural Social Structure and Planning		0+0+2	2		30	70	100
	Major	RTUFTC3	Rural Health Care	4	3+0+0	3		30	70	100
		RTUFLC3	Lab- Rural Health Care		0+0+2	2		30	70	100
	Minor	RTUFTG1	Nursery Technology	4	2+0+0	2		30	70	100
		RTUFLG1	Lab- Nursery Technology		0+0+2	2		30	70	100
							Total	270	630	900
The students wish to exit after six semester upon securing 120 credits will be awarded UG degree in relevant subject/discipline										
After sixth semester, there will be two streams :(I) UG (Honours with research) and (II) UG (Honours). The students who will secure 75% and above may opt for UG (Honours with research).										
(I) Course structure for UG (Honors with Research)										
(II)										
VII	Major	RTUGTC1	Introduction to Remote sensing and GIS	5	3+0+0	3	19	30	70	100
		RTUGLC1	Lab- Introduction to Remote sensing and GIS		0+0+2	2		30	70	100
	Major	RTUGTC2	Introduction to Medicinal Plants	5	3+0+0	3		30	70	100
		RTUGLC2	Lab- Introduction to Medicinal Plants		0+0+2	2		30	70	100
	Major	RTUGTC3	Food Preservation Technology	5	3+0+0	3		30	70	100
		RTUGLC3	Lab- Food Preservation Technology		0+0+2	2		30	70	100
	Minor	RTUGTG1	Food Preservation Technology	4	3+0+0	3		30	70	100
		RTUGLG1	Food Preservation Technology		0+0+1	1		30	70	100
							Total	240	560	800
VIII	Major	RTUHTC1	Research Methodology and Ethics	5	3+0+0	3	21	30	70	100
		RTUHL1	Lab- Research Methodology and Ethics		0+0+2	2		30	70	100
	Minor	RTUHTG1	Herbal Drug Formulation	5	3+0+0	3		30	70	100
		RTUHLG1	Lab- Herbal Drug Formulation		0+0+1	1		30	70	100

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	*Research Project/Dissertation	RTUHDC1				12		*300	**100	400
	• Evaluation of thesis (Internal), ** Viva-voce (External),						Total	420	380	800
(II) Course structure for UG (Honors)										
VII	Major	RTUGTC1	Introduction to Remote sensing and GIS	5	3+0+0	3	20	30	70	100
		RTUGLC1	Lab- Introduction to Remote sensing and GIS		0+0+2	2		30	70	100
	Major	RTUGTC2	Introduction to Medicinal Plants	5	3+0+0	3		30	70	100
		RTUGLC2	Lab- Introduction to Medicinal Plants		0+0+2	2		30	70	100
	Major	RTUGTC3	Crop Production Technology	5	3+0+0	3		30	70	100
		RTUGLC3	Lab- Crop Production Technology		0+0+2	2		30	70	100
	Minor	RTUGTG1	Introduction to Medicinal Plants	5	3+0+0	3		30	70	100
		RTUGLG1	Lab- Introduction to Medicinal Plants		0+0+1	1		30	70	100
	Seminar	RTUGSA1	-	-		1		30	70	100
							Total	270	630	900
VIII	Major	RTUHTC1	GIS Application and Scope	5	3+0+0	3	20	30	70	100
		RTUHL1	Lab-GIS Application and Scope		0+0+2	2		30	70	100
	Major	RTUHTC2	Introduction to Traditional Medicine Systems	5	3+0+0	3		30	70	100
		RTUHL2	Lab- Introduction to Traditional Medicine Systems		0+0+2	2		30	70	100
	Minor	RTUHTG1	Natural Product and Processing Techniques	5	3+0+0	3		30	70	100
		RTUHLG1	Lab- Natural Product and Processing Techniques		0+0+1	1		30	70	100
	Minor	RTUHTG2	Fundamentals of Entrepreneurship	5	3+0+0	3		30	70	100
		RTUHLG2	Tutorial- Fundamentals of Entrepreneurship		0+0+1	1		30	70	100
	Seminar	RTUHSA1	-	-		2		30	70	100
							Total	270	630	900