गुरू घासीदास विश्वविद्यालय (केदीय विश्वविद्यालय अधिन्यम 2009 ज्ञ. 25 के अंतर्गत खामित केदीय विश्वविद्यालय) कोनी, बिलासपुर - 495009 (छ.ग.)



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

List of Courses Focus on Employability/ Entrepreneurship/ Skill Development

Depar	rtment	: Rural Technology and Social Development
Progr	amme Name	: M.Sc. Rural Technology
		Academic Year : <mark>2021-22</mark>
List of	Courses Focus	on Employability/Entrepreneurship/Skill Development
Sr. No.	Course Code	Name of the Course
1.	RTPATC-1	Concepts of Statistical Analysis
2.	RTPALC-1	Laboratory Course (Based on RTPATC-1)
3.	RTPATC-2	Innovation, Appraisal and action for Rural Development
4.	RTPALC-2	Field based work/ Survey (Based on RTPATC-2)
5.	RTPATG-1	Sericulture
6.	RTPALG-1	Laboratory Course (Based on RTPATG-1)
7.	RTPATG-2	Lac production technique
8.	RTPALG-2	Laboratory Course (Based on RTPAGT-2)
9.	RTPATO-1	Natural Product and Processing Techniques
10.	RTPALO-1	Laboratory Course (Based on RTPATO-1)
11.	RTPBTC-1	Fundamentals of Medicinal Plant
12.	RTPBLC-1	Laboratory Course (Based on RTPBTC-1)
13.	RTPBTC-2	Concept of Remote Sensing and GIS-I
14.	RTPBLC-2	Laboratory Course (Based on RTPBTC-2)
15.	RTPBTA-1	Research Methodology and Ethics
16.	RTPBTG-1	Rural Waste Management
17.	RTPBPG-1	Laboratory Course (Based on RTPBTG-1)
18.	RTPBTG-2	Soil and Water Conservation Engineering
19.	RTPBPG-2	Laboratory Course (Based on RTPBTG-2)
20.	RTPCTC-1	Drug Formulation and Extraction
21.	RTPCLC-1	Laboratory Course (Based on RTPCTC-1)
22.	RTPCTC-2	Geospatial Technology and its Application
23.	RTPCLC-2	Laboratory Course (Based on RTPCTC-2)
24.	RTPCTG-1	Mushroom Cultivation Technology
25.	RTPCLG-1	Laboratory Course (Based on RTPCTG-1)
26.	RTPCTG-2	Beekeeping Techniques

Courses Focus on Employability/Entrepreneurship/Skill Development



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

27.	RTPCLG-2	Laboratory Course (Based on RTPCTG-2)
28.	RTPCTA-1	Instrumentation and Techniques
29.	RTPCLA-1	Laboratory Course (Based on RTPCTA-1)
30.	RTPCSA-1	Seminar
31.	RTPDTG-1	Computer application
32.	RTPDTG-2	Entrepreneurship
33.	RTPDDC-1	Dissertation/ Project work followed by seminar

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

Scheme and Syllabus

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

Subject	Course	N	larks Distribu	ution	Marks	
Code		Theory	Sessional	Practical	1	
RTPATC-1	Concepts of Statistical Analysis	70	30	-	100	
RTPALC-1	Laboratory Course (Based on RTPATC-1)	-	30	70	100	
RTPATC-2	Innovation, Appraisal and action for Rural Development	70	30	-	100	
RTPALC-2	Field based work/ Survey (Based on RTPATC-2)	-	30	70	100	
RTPATG-1	Sericulture	70	30	-	100	
RTPALG-1	Laboratory Course (Based on RTPATG-1)	-	30	70	100	
	OR					
RTPATG-2	Lac production technique	70	30	-	100	
RTPALG-2	Laboratory Course (Based on RTPAGT-2)	-	30	70	100	
RTPATO-1	Natural Product and Processing Techniques	70	30	-	100	
RTPALO-1	Laboratory Course (Based on RTPATO-1)		30	70	100	
	Total	280	240	280	800	

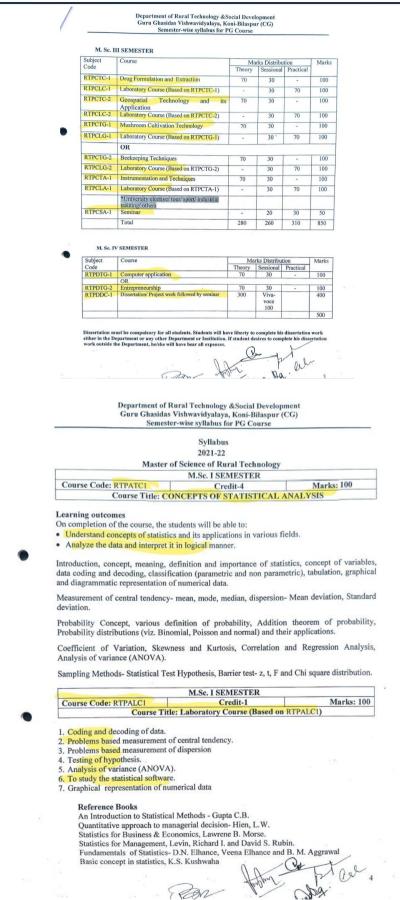
Department of Rural Technology &Social Development Guru Ghasidas Vishwavidyalaya, Koni-Bilaspur (CG) Semester-wise syllabus for PG Course

RTPBTC-1 Fundamentals of Medicinal Plant 70 30 - 10 RTPBLC-1 Fundamentals of Medicinal Plant 70 30 - 10 RTPBLC-1 Laboratory Course (Based on RTPBTC-1) - 30 70 10 RTPBLC-2 Concept of Remote Sensing and GIS-1 70 30 - 10 RTPBLC-2 Laboratory Course (Based on RTPBTC-2) - 30 70 100 RTPBTG-1 Rural Waste Management 70 30 - 100 RTPBFG-1 Laboratory Course (Based on RTPBTG-1) - 30 70 100 RTPBFG-2 Laboratory Course (Based on RTPBTG-1) - 30 70 100 RTPBFG-3 Conservation Engineering 70 30 - 100 RTPBFG-2 Soil and Water Conservation Engineering 70 30 - 100 RTPBFG-2 Laboratory Course (Based on RTPBTG-2) - 30 70 100	Code	Course	Ma	rks Distribu	tion	Marks
RTPBLC-1 Laboratory Course (Based on RTPBTC-1) - 30 - 10 RTPBLC-2 Laboratory Course (Based on RTPBTC-1) - 30 70 10 RTPBLC-2 Laboratory Course (Based on RTPBTC-2) - 30 70 10 RTPBLC-2 Laboratory Course (Based on RTPBTC-2) - 30 70 100 RTPBTA-1 Research Methodology and Ethics 30 20 - 50 RTPBTG-1 Rural Waste Management 70 30 - 100 RTPBRG-1 Laboratory Course (Based on RTPBTG-1) - 30 70 100 RTPBRG-2 Soil and Water Conservation Engineering 70 30 - 100 RTPBRG-2 Laboratory Course (Based on RTPBTG-2) - 30 70 100			Theory	Sessional	Practical	
RTPBTC-2 Concept of Remote Sensing and GIS-1 70 30 - 10 RTPBLC-2 Laboratory Course (Based on RTPBTC-2) - 30 70 100 RTPBLC-2 Laboratory Course (Based on RTPBTC-2) - 30 70 100 RTPBTA-1 Research Methodology and Ethics 30 20 - 50 RTPBTG-1 Rural Waste Management 70 30 - 100 RTPBPG-1 Laboratory Course (Based on RTPBTG-1) - 30 70 100 RTPBTG-2 Soil and Water Conservation Engineering 70 30 - 100 RTPBTG-2 Laboratory Course (Based on RTPBTG-2) - 30 70 100	and the second second	Fundamentals of Medicinal Plant	70	30	-	100
RTPBLC-2 Laboratory Course (Based on RTPBTC-2) - 30 - 10 RTPBLC-2 Laboratory Course (Based on RTPBTC-2) - 30 70 100 RTPBTA-1 Research Methodology and Ethics 30 20 - 50 RTPBTG-1 Rural Waste Management 70 30 - 100 RTPBPG-1 Laboratory Course (Based on RTPBTG-1) - 30 70 100 OR - Soil and Water Conservation Engineering 70 30 - 100 RTPBFG-2 Laboratory Course (Based on RTPBTG-2) - 30 70 100	RTPBLC-1	Laboratory Course (Based on RTPBTC-1)	-	30	70	100
RTPBTA-1 Research Methodology and Ethics 30 20 - 50 70 100 RTPBTG-1 Rural Waste Management 70 30 - 100 RTPBFG-1 Laboratory Course (Based on RTPBTG-1) - 30 70 100 RTPBFG-2 Soil and Water Conservation Engineering 70 30 - 100 RTPBFG-2 Laboratory Course (Based on RTPBTG-2) - 30 70 100	RTPBTC-2	Concept of Remote Sensing and GIS-I	70	30	-	100
RTPBTG-1 Rural Waste Management 70 30 - 100 RTPBPG-1 Laboratory Course (Based on RTPBTG-1) - 30 70 100 OR RTPBTG-2 Soli and Water Conservation Engineering 70 30 - 100 RTPBTG-2 Laboratory Course (Based on RTPBTG-2) - 30 70 100	RTPBLC-2	Laboratory Course (Based on RTPBTC-2)		30	70	100
RTPBPG-1 Laboratory Course (Based on RTPBTG-1) - 30 - 100 OR - 30 70 100 - 100 - 100 - 100 100 - 100 100 - 100 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - - 100	RTPBTA-1	Research Methodology and Ethics	30	20		50
OR OR COR 30 70 100 RTPBTG-2 Soli and Water Conservation Engineering 70 30 - 100 RTPBPG-2 Laboratory Course (Based on RTPBTG-2) - 30 70 100	RTPBTG-1	Rural Waste Management	70	30	-	100
RTPBTG-2 Soil and Water Conservation Engineering 70 30 - 100 RTPBPG-2 Laboratory Course (Based on RTPBTG-2) - 30 70 100	RTPBPG-1	Laboratory Course (Based on RTPBTG-1)	-	30	70	100
RTPBPG-2 Laboratory Course (Based on RTPBTG-2) - 30 70 100		OR				
	RTPBTG-2	Soil and Water Conservation Engineering	70	30	-	100
Total 240 200 210 650 Utter b	RTPBPG-2	Laboratory Course (Based on RTPBTG-2)	-	30	70	100
later pt		Total	240	200	210	650
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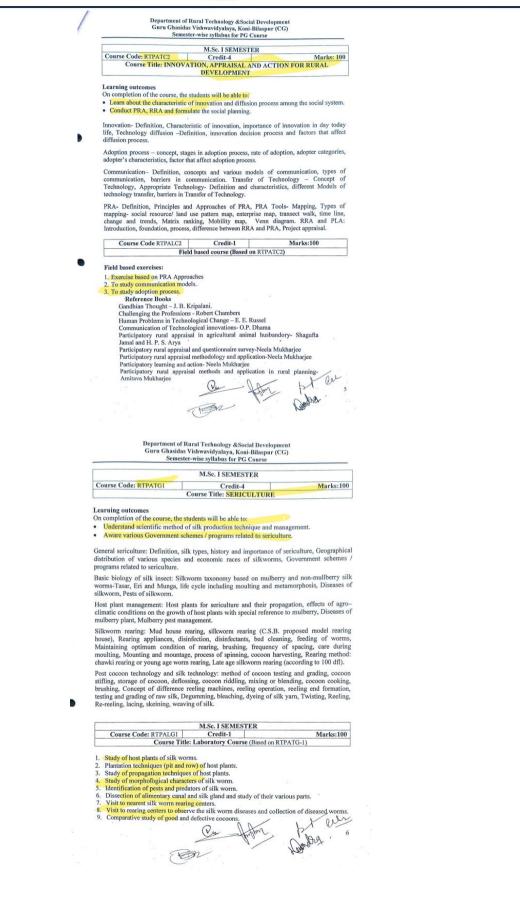


Courses Focus on Employability/Entrepreneurship/Skill Development

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Courses Focus on Employability/Entrepreneurship/Skill Development

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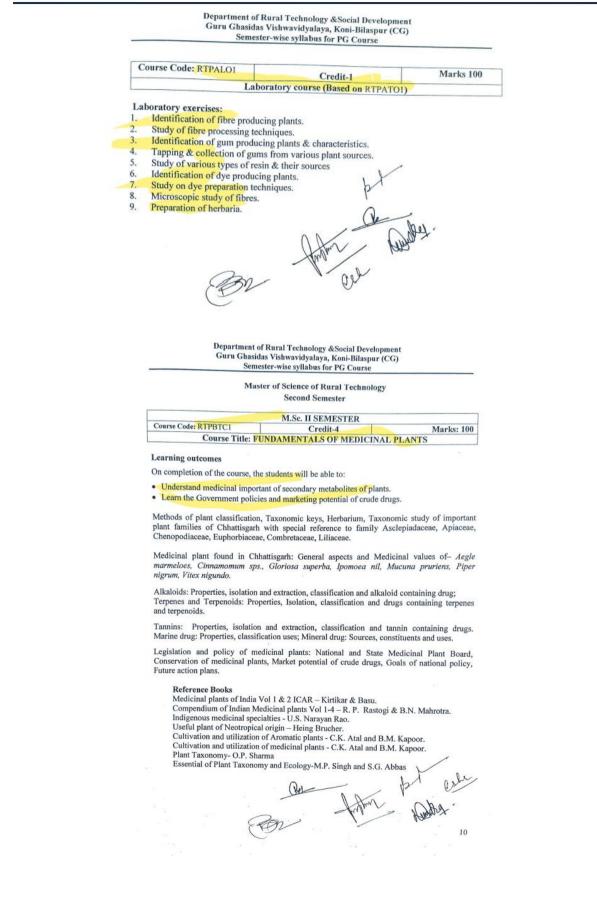
Guru Ghasidas Vishwavidyalaya (A Central University Established by the Central Universities Act 2009 No. 25 of 2009) Koni, Bilaspur – 495009 (C.G.)

	Department of Kurat Technology &Social Development Guru Ghasidas Vishwavidyalaya, Koni-Bilaspur (CG) Semester-wise syllabus for PG Course
	Reference Books: Sericulture introduction - Ganga, G. Seri Mannual - FAO Mannual Appropriate Sericulture - Jolly, M.S. Sericulture in India - Vol. Io TV, H.O. Agrawal and M.K. Seth. An introduction to Sericulture -G.J. Sulochana
	Principle of temperate Sericulture - Dr. A.S. Kamal, Kamayani Publisher
	M.Sc. 1 SEMESTER Course Code: RTPATG2 Credit-4 Course Title: LAC PRODUCTION TECHNICQUE
	Learning outcomes On completion of the course, the students will be able to: • Understand economic importance of lac insect and lac produces. • Enhance their knowledge and technical skills to produce lac in various host plants.
	Lac insect: meaning, concept and economic importance of lac cultivation. Classification and morphology and life cycle of lac insect, types of lac insect, history of lac cultivation, area and geographical distribution of lac insect, natural habitat of lac insect, types of lac and its characteristics.
	Lae production in <i>Butea monosperma</i> : Introduction, history, natural habitat, merits and limitations, laci insect and crops, stages of rangeeni lae insect, estection of trees, pruning of trees, inoculation of host tree, removal of used-up broodlac, pest management, crop harvesting, scraping of lac from sticks, primary processing of lac, storage, transport and marketing of lac.
	Lae production in Zetiphus mauritiana: Introduction, history, natural habitat, merits and limitations, las insect and crops, stages of rangeeni and kusmi lae insect, selection of trees, pruning of trees, inoculation of host tree, removal of used-up broodlac, pest management, crop harvesting, scraping of lae from sticks, primary processing of lae, storage, transport and marketing of lae.
	Lac production in <i>Schleicherg oleosis</i> : Introduction, history, natural habitat, merits and limitations, lac insect and crop, stages of kusmi lac insect, selection of trees, pruning of trees, inoculation of host tree, removal of used-up broodlac, pest management winter and summer crops, crop harvesting, scraping of lac from sticks, primary processing of lac, storage, transport and marketing of lac.
	Lae production in <i>Flemingia semialata</i> : Introduction, history, natural habitat, merits and limitations, lae insect and crop, stages of kusmi lae insect, propagation and nursery management, planting and nutrient management, pruning of trees, inoculation of host tree, removal of used-up broodlee, pest management winter and summer crops, crop harvesting, scraping of lae from sticks, primary processing of lae, storage, transport and marketing of lae.
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	The public contraction
	Department of Rural Technology & Social Development Guru Ghasidas Vishwavidyalaya, Koni-Bilaspur (CG) Semester-wise syllabus for PG Course
	M.Sc. I SEMESTER
C	urse Code: RTPALG2 Credit-1 Marks: 100 Course Title: Laboratory Course (Based on RTPAGT2)
1. 2. 3.	Identification and preparation of different host plants for lac cultivation. Selection and inoculation of broodlac in host plant. Removal of used-up broodlac sticks from host plants.
4. 5. 6.	Processing of lac. Lac crop protection. Study of equipments used in lac cultivation.
7.	Identification of lac insect and lac crops.
	teference Books: hapman: The Insects: structure and function 94 th ed, 1998, ELBS) mms: A general text book of entomology, 2 vol. (1997, Asia publishing house) Acgavin: Essential Entomology 92001, Oxford Univ Press) rivastava: A textbook of applied entomology, vol.I & vol II (1993, Kalyani ublishers) he Insect. Ramesh Arora and G. S. Dariwal tlas of Indian Lac, Ajit Prasad Jain. ac cultivation in India. M.G.Kamath handbook of shellac Analysis. G.N.Bhattacharya and P.K.Bose.
	M.Sc. I SEMESTER
Co	urse Code: RTPATOI Credit-4 Marks: 100
Le	Course Title: NATURAL PRODUCT AND PROCESSING TECHNIQUES
	completion of the course, the students will be able to:
• 1	Inderstand different types of natural products and its importance. earn processing of important natural products.
natt	ral products: Introduction, plants as a source of various products, types of natural products ral products and tribal connection, dependence of tribes on forest, various method of ction, storage and marketing of natural products, .
Fibr	Introduction, classification of fibres, plant origin fibres, types, study of cotton, flax and fibre, various fibre industries and economic importance.
Gur	and Resin: Introduction, classification, physical and chemical composition, plant origin and resins, collection techniques, processing and economic importance.
Dye	Sources, types of dyes, chemical nature, characteristics of natural dyes, preparation of ral dyes, extraction of dye, processing and uses.
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Courses Focus on Employability/Entrepreneurship/Skill Development



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





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	Semester-wise syllabus for PG Course	
	M.Sc. II SEMESTER Course Code: RTPBLC1 Credit-1 Marks: 100 Course Title: Laboratory Course (Based on RTPBTC1) Course Title: Course (Based on RTPBTC1)	
	 Study of locally available plants of families Asclepiadaceae, Apiaceae, Chenopodiaceae, Euphorbiaceae, Combretaceae, Liliaceae. To study extraction process, chemical test to identify Alkaloids To study extraction process, chemical test to identify Terpenes and Terpenoids. To study extraction process, chemical test to identify Tennins. To study source of mineral drugs and their uses. 	
	M.Sc. II SEMESTER Course Code: RTPBTC2 Course Title: CONCEPTS OF REMOTE SENSING AND GIS-1 Learning outcomes	
	On completion of the course, the students will be able to: • Understand the concept and application of remote sensing and GIS software. • Learn the basic of satellite images and toposheets.	
	Concepts of Remote Sensing with introduction, Early History, Energy Sources & Radiation Principles, Energy Interactions in atmosphere, Energy interactions with earth surface features, Spectral Reflectance of vegetation, Soil & water.	
	Satellite: Indian satellite, Earth Resource satellite, Ocean satellite, Resource-sat satellite, Carto- sat satellite etc. and their uses.	
	Photogrammetry-Introduction, Types of Aerial Photographs including UAV, Basic principles of Photogrammetry, Geometry of a vertical aerial photograph, photographic Scale, Applications of vertical aerial photograph. Thematic Cartography: Commitments, concern and solution. Influence of thematic Atlases, Influences of distant cartography, and Innovative trends in mapping.	
	Digital Image Processing (DIP)-Introduction, Pre-processing of image-Image interpretation, Geometric & Radiometric Correction, Resolution, Image Enhancement, Contrast Stretching, Filters, Edge Enhancement.	
	Microwave Remote Sensing-Introduction, sensors, instruments, radar operating principles, synthetic aperture RADAR, radar returns and image signatures, radar image characteristics, basics of LIDAR.	
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	Department of Rural Technology &Social Development Guru Ghasidas Vishwavidyalaya, Koni-Bilaspur (CG) Semester-wise syllabus for PG Course	
	Course Code: RTPBLC2 Credit-1 Marks: 100 Course Title: Laboratory Course (Based on RTPBTC2)	
	 Geometric and radiometric correction of satellite data, Image enhancement techniques, Principal component analysis, 	
	2. Supervised classification, Supervised classification schemes (Maximum likelihood, nearest neighbor and artificial numeral net-work classification). Vegetation indices. 3. Creation of digital evaluation model through contour digitization and surface hydrology. 4. Digitization of different features of given topo-sheet. Editing attributes of geo-database features. Creating different features like polygon line, tic, polyline etc. 5. Creation of personal geo-database.	
	Reference Books Remote Sensing – Principles & interpretation - F.F. Sabins Digital Remote Sensing - Dr. P. Nag, Dr. M. Kudrat Principles of Remote Sensing – J.J. Curran. Basics of Remote Sensing – S.J. Joseph Basics of remote sensing and photogrammetry – Lillisand	
	M.Sc. II SEMESTER Course Code: RTPBTA1 Credit-2 Marks: 50 Course Title: RESEARCH METHODOLOGY AND ETHICS Learning outcomes On completion of the course, the students will be able to:	
)	 Understand the nature, types and importance of research methodology and ethics. Apply research methodology procedures according to their nature of research. 	
	Research, types of research, Nature, scope of research and importance of research methodology, steps of scientific inquiry and study of social phenomenon, research problems, criteria for identification of research problems, formulations and statement of research objectives.	
	Hypothesis- Meaning and role in research, type of hypothesis, testing of hypothesis, method of data collection, level of measurement, data sources; observational and survey methods, case studies, types of schedule, questionnaires.	
	Research design- Exploratory, descriptive, and experimental research design, qualitative and quantitative research. Complete Randomized Block Design (CRD), Randomized Block Design	
	(RBD), Latin Squares Design (LSD) and factorial design.	

Courses Focus on Employability/Entrepreneurship/Skill Development



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

	Department of Rural Technology &Social Development Guru Ghasidas Vishwavidyalaya, Koni-Bilaspur (CG) Semester-wice syllabus for PG Course	
	Research reporting and scientific writing- Preparation of research proposal, compilation of thesis, dissertation, compiling bibliography, reports, compilation of research paper, paper presentation, research ethics.	
	Reference Books Survey Method Exploring research Guide to the successful thesis and dissertation V th Edition Fundamentals of Statistics	
0	M.sc. II SEMESTER Course Code: RTPBTG1 Credit-4 Marks: 100 Course Title: RURAL WASTE MANAGEMENT	
	Learning outcomes On completion of the course, the students will be able to: • Aware about sanitation and waste water management. • Adopt different methods of waste management.	
	 Acopt unterfail methods of waste management. Introduction of Rural waste, Type of waste, different methods of systematic collection and disposal of waste, Types of sewer.	
	Concept of sewage treatment, principle of primary, secondary treatment and Tertiary treatment of wastewater, General composition of sewage, method of determination of B.O.D. and C.O.D.	
•	Rural Sanitation- Provision of safe and potable water for domestic purposes, collection and disposal of dry refuse, collection and disposal of sullage, disposal of excretal waste, night soil disposal without water carriage, Construction of low cost latrines in rural areas. Septic tanks, soak pit, privy pit and bore hole privy, can privy, concrete vault privy, aqua privy, PRAI latrine.	
	Waste water management- performance criteria for waste water management system, house drainage plan, classification of traps- P-trap, Q-trap, S trap, floor trap, gully trap, intercepting trap, grease trap, principle for efficient drainage system.	
	Solid waste management- classification of solid waste, quantity and composition of refuse, collection and removal of refuse, transport of refuse, disposal of refuse- controlled tipping, landfill, trenching, dumping into sea, pulverization, incineration; composting- composting by trenching, open window composting, mechanical composting, composing adopted in India, Biogas technology-properties of biogas, types of biogas plant recognized by MKES (Ministry of Non-conventional Energy Sources).	×.
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(Department of Rural Technology &Social Development	
	Guru Ghasidas Vishwavidyalaya, Koni-Bilaspur (CG) Semester-wise syllabus for PG Course M.Sc. II SEMESTER	ſ
	Course Code: RTPBPG1 Credit-1 Marks: 100 Course Title: Laboratory Course (Based on RTPBTG1)	
	 To study types of waste material. To study the physical treatment of waste water. To study the biological treatment of waste water. To study the chemical treatment of waste water. To study the chemical treatment of waste water. To study the chemical treatment plants. To study biogast technology of solid waste management. To study handhil method of solid waste management. To study biogast technology as solid waste management. 	
	Reference Books Rangwala S.C. Water Supply & Sanitary Engineering, Charotar Publishing House (P) Ltd., Anand. Gurcharan Singh, Water Supply & Sanitary Engineering, Standard Publishers Distributors, Delhi. Garg, S.K., Water Supply Engineering, Khanna Publishers, Delhi. Gupta, D.V. Water Supply & Sanitary Engineering, Asian Publishers, Muzaffarnagar Modi, P.N. Water Supply Engineering, Standard Book House, Delhi	
	M.Se, II SEMESTER Course Code: RTPBTG2 Credit-4 Marks: 100 Course Title: SOIL ADD WATER CONSERVATION ENGINEERING	
,	Learning outcomes On completion of the course, the students will be able to: • Understand the soil formation, soil profile, soil structure and different type of soil nutrients. • Understand the basic concept of soil water conservation and watershed management.	
	Soil- Definition, Soil as a three phase system, Soil-Plant-Water relationship, soil moisture content, soil profile, density, void ratio, porosity, soil texture, soil structure and degree of saturation.	
	Basic concept of soil erosion, control of soil erosion, soil loss estimation, concept of runoff and its estimation, water budgeting, estimation of rainfall erosivity and erodibility. Planning, design, construction and maintenance of water harvesting structure, soil and water conservation structure, GIS application in Planning, designing, construction and maintenance of water harvesting structure.	
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Courses Focus on Employability/Entrepreneurship/Skill Development

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Department of Rural Technology & Social Development Guru Ghasidas Vishwavidyalaya, Koni-Bilaspur (CG) Semester-wise syllabus for PG Course Watershed management concept- objectives, characterization, type of watershed, planning, execution, integrated community participation and evaluation, GIS application in watershed management. Irrigation- Definition, Types of irrigation, Source of irrigation water. Irrigation methods and efficiencies, Drainage - Definition, surface and sub-surface drainage, factors influencing drainage. Course Code: RTPBTG2 Marks100 Credit-1 Laboratory course (Based on RTPBTG2) Laboratory exercises: Study of different water harvesting structure.
 Study of different water harvesting structure.
 Study of different components of sprinkler and drip irrigation system
 Study of continuous and staggered contour trenches Study of different components of farm pond
 Water budgeting. Reference Books Introduction to soil and water conservation engineering, Mal, B C, Kalyani publishers Irrigation Engineering, -Modi P.N., Standard Book House, Delhi. Irrigation Engineering. -Modi P.N., Standard Book House, Delhi. Irrigation Engineering. Dr. Bharat Singh, Nem Chand & Bros., Roorkee Introductory Soil Science, Dilip Kumar Das, Kalyani Publishers. Soil and water conservation engineering, R. Suresh - Ce Colog Irrigation: Theory and practices, A.M. Michael Department of Rural Technology & Social Development Guru Ghasidas Vishwavidyalaya, Koni-Bilaspur (CG) Semester-wise syllabus for PG Course Master of Science of Rural Technology Third Semester M.Sc. III SEMESTER Course Code: RTPCTC1
 RTPCTC1
 Credit-4
 M

 Course Title:
 DRUG FORMULATION AND EXTRACTION
 Marks: 100 Learning outcomes On completion of the course, the students will be able to: Understand the constitution of drug and drug delivery system. Learn drug formulation and extraction phenomenor Introduction to Dosage forms- Desirable properties, classification and application of dosage forms, New drug delivery system. Principles and methods of extraction, theory of drug extraction, Hydro-distillation, expression, quality assurance of essential oils maceration, digestion, percolation, soxhelation, super critical fluid extraction, other extraction methods. Aromatic Plants- History, Revenue potential, industrial significance, medicinal uses; cultivation and management of aromatic plants - Camphor, Citronella, Eucalyptus, Lavender, Lemongrass, Mints, Palmarosa, Sandalwood. Analytical pharmacognocy- Drug adulteration, Drug evaluation- morphological, microscopic, chemical. Phytochemical investigation, physical, biological evaluation, hepatoprotective activity, hypoglycemic activity, antifertility testing. Drug formulation- Pharmacopoeial preparations, principles and methods of preparation of aromatic waters, spirits, elixirs, syrups, tincture solution and special preparation of mouthwashes. M.Sc. III SEMESTER
 Course Code: RTPCLC1 Credit-1
 Course Title: Laboratory Course (Based on RTPCTC1)
 Study of traditional plant and their part used as folklore medicine.
 Extraction and distillation of Eucalyptus, Lemongrass, Mints, Sandalwood.
 Extraction of volatile oil, Extraction of tannin.
 Extraction of Averatic nucleic neight for them. Marks: 100 Formation of Aromatic water, spirits, tinctures.
 Extraction of Alkaloids, Chemical test for tannin, alkaloid, maccration, percolation.
 Extraction of medicinal plants by SoxAlter method, Distillation method.
 Drug formulation- Antimicrobial activity of medicinal plant. Reference Books Reference Books Medicinal plants of India Vol 1 & 2 ICAR by Kirtikar & Basu . Indigenous medicinal specialties: U.S. Narayan Rao Useful plant of Neotropical origin: Heing Brucher Cultivation and utilization of Aromatic plants: C.K. Atal and B.M. Kapoor ast Q on 60/24

Courses Focus on Employability/Entrepreneurship/Skill Development

गुरू घासीदास विश्वविद्यालय (केनीय विश्वविद्यालय अधिन्यम 2008 ज्ञ. 25 के अंतर्गत खापित केन्द्रीय विश्वविद्यालय) कोनी, बिलासपुर - 495009 (छ.ग.)



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

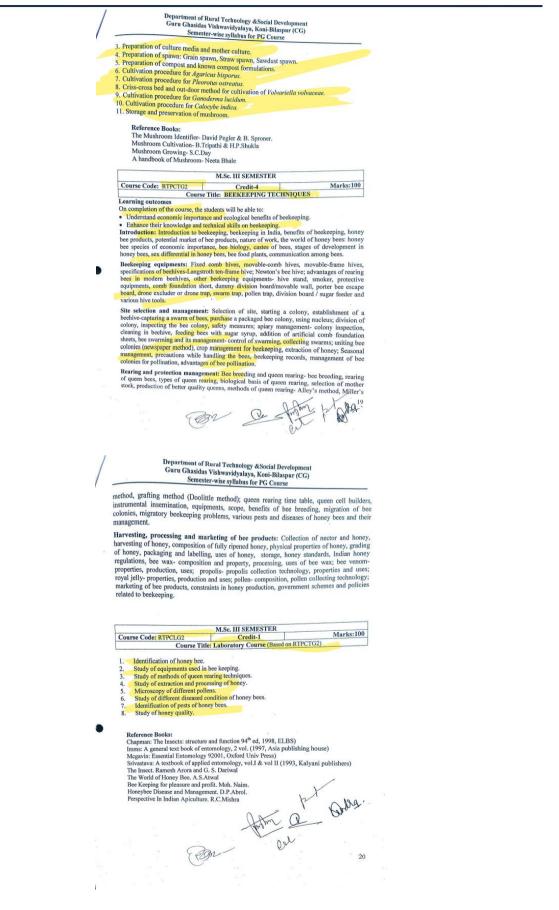
P	Semester-wise syllabus for PG Course harmacognocy - Trease & Evans.
P C P	harmacognocy- Gokhale, kokate & Purohit 'ultivation and Utilization of Aromatic plants - L.K. Atal& B.M. Kapoor. rofessional Pharmacy - Jajn & Sharma
N	rromatic Plants- Baby S. Skaria, P.P. Joy, G. Mathew, A. Joseph and R. Joseph Aedicinal Plants- A.Kurian and M.A. Sankar
N A	Medicinal Plants ethnobotanical Approach- P.C. Trivedi Aromatic Plants- Baby S. Skaria, P.P. Joy, G. Mathew, A. Joseph and R. Joseph Compendium of Indian Medicinal plants Vol 1-4 R.P. Rastogi& B.N. Mahrotra.
F	M.Sc. III SEMESTER Course Code: RTPCTC2 Credit-4 Marks: 100
Ľ	Course Title: GEOSPATIAL TECHNOLOGY AND ITS APPLICATION
	Learning outcomes
	On completion of the course, the students will be able to: Understand the basic concept of GPS and GIS.
	 Learn the data base management system and application.
	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, web GIS, 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, surface hydrology 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 SEMESTER Course Code; RTPCLC2 Credit-1 Marks: 100
	Course Code: RTPCLC2 Credit-1 Marks: 100 Course Title: Laboratory Course (Based on RTPCTC2)
	I. Practice based on ArcGIS and QGIS To generate various Indices map – NDVI, NDWI, NDBI, SAVI J. Data Collection and Interpolation methods for map layout.
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	Department of Rural Technology & Social Development Grara Ghasidas Vishwavidyalaya, Koni-Bilaspur (CG) Semester-wise syllabus for GC course
	Semester-wise syllabus for PG Course urface analysis,
5. L	Semester-wise syllabus for PG Course urface analysis. ayout preparation.
5. L	Semester-wise syllabus for PG Course urface analysis,
5. L 6. C	Semester-wise syllabus for PG Course urface analysis, ayout preparation. Preation of personal and geo-data base. Reference Books Remote Sensing – Principles & interpretation - F.F. Sabins Digital Remote Sensing - Dr. P. Nag. Dr. M. Kudrat
5. L 6. C	Semester-wise syllabus for PG Course urface analysis, ayout preparation. ayout preparation. Semester-wise syllabus for PG Course Digital Remote Sensing – Principles & interpretation - F.F. Sabins Digital Remote Sensing - Dr. P. Nag, Dr. M. Kudrat Principles of Remote Sensing - P.J. Curran. M.Se. III SEMESTER Elective (PG) Course Code: RTPCTG1 Credit-4 Marks: 100 Course Title: MUSHROOM CUTIVATION TECHNOLOGY carning outcomes
5. L 6. C L 0	Semester-wise syllabus for PG Course urface analysis, ayout preparation, ireation of personal and geo-data base. Reference Books Reference Books Reference Books Digital Remote Sensing - Dri. P. Nag, Dr. M. Kudrat Principles of Remote Sensing - P.J. Curran. M.Sc. III SEMESTER Elective (PG) Course Code: RTPCTG1 Credit.4 Marks: 100 Course Title: MUSHROOM CUTIVATION TECHNOLOGY earning outcomes n completion of the course, the students will be able to: Understand the importance of Single Cell Protein.
5. L 6. C	Semester-wise syllabus for PG Course urface analysis, ayout preparation, ireation of personal and geo-data base. Reference Books Reference Books Digital Remote Sensing - Dri. P. Nag, Dr. M. Kudrat Principles of Remote Sensing - P. J. Curran. M.Sc. III SEMESTER Elective (PG) Course Code: RTPCTG1 Credit-4 Marks: 100 Course Title: MUSHROOM CUTIVATION TECHNOLOGY earning outcomes n completion of the course, the students will be able to: Understand the importance of Single Cell Protein. Learn the commercial production of mushroom and its marketing potential.
5. L 6. C L U U U U U U U U U U U U U U U U U U	Semester-wise syllabus for PG Course urface analysis, ayout preparation, ireation of personal and geo-data base. Reference Books Reference Books Reference Books Digital Remote Sensing - Dri. P. Nag, Dr. M. Kudrat Principles of Remote Sensing - P.J. Curran. M.Sc. III SEMESTER Elective (PG) Course Code: RTPCTG1 Credit.4 Marks: 100 Course Title: MUSHROOM CUTIVATION TECHNOLOGY earning outcomes n completion of the course, the students will be able to: Understand the importance of Single Cell Protein.
5. L. 6. C L. 0	Semester-wise syllabus for PG Course urface analysis, ayout preparation, ireation of personal and geo-data base. Reference Books Remote Sensing – Principles & interpretation – F.F. Sabins Digital Remote Sensing – Dr. P. Nag, Dr. M. Kudrat Principles of Remote Sensing – P.J. Curran. M.Sc. III SEMESTER Elective (PG) Course Code: RTPCTG1 Credit-4 Marks: 100 Course Title: MUSHROOM CUTIVATION TECHNOLOGY earning outcomes n completion of the course, the students will be able to: Understand the importance of Single Cell Protein. Learn the commercial production of mushroom and its marketing potential. attraction, General characteristics of Mushroom, Natritional and Medicinal value of mushrooms; foshoous mushrooms and its poioning; edible mushroom and its cultivation; biology; f mushrooms; Identification of mushroom, Natritional and Medicinal value of mushroom;
S.L. 6.C L. O U L. O U U	Semester-wise syllabus for PG Course urface analysis, ayout preparation, ireation of personal and geo-data base. Reference Books Remote Sensing – Principles & interpretation - F.F. Sabins Digital Remote Sensing - Dr. P. Nag, Dr. M. Kudrat Principles of Remote Sensing - P.J. Curran. M.Sc. III SEMESTER Elective (PG) Course Title: MUSHROOM CUTIVATION TECHNOLOGY earning outcomes n completion of the course, the students will be able to: Understand the importance of Single Cell Protein. Learn the commercial production of mushroom, and its marketing potential. Introduction, General characteristics of Mushroom, history of mushroom cultivation; biology foushroom suit or mushroom house, pure culture, Spawn, preparation of spawn, raw materials or the cultivation of mushroom sud dis due of or compost preparation, compost: materials of the cutivation, Genpost: materials used for compost preparation, ompost or the cultivation of mushroom house, pure culture, Spawn, preparation of spawn, raw materials or the cultivation of mushroom compost: materials used for compost preparation, ompost or the cultivation of mushroom house, prevention of the spawn, raw materials
S.L. 6.C Lu O U Lu O V V V V V V V	Semester-wise syllabus for PG Course urface analysis, ayout preparation, Streation of personal and geo-data base. Reference Books Reference Books Remote Sensing – Principles & interpretation - F.F. Sabins Digital Remote Sensing - Dr. P. Nag, Dr. M. Kudrat Principles of Remote Sensing - P.J. Curran. <u>M.Sc. III SEMESTER Elective (PG)</u> Course Code: RTPCTG1 Credit-4 Marks: 100 Course Title: MUSHROOM CUTIVATION TECHNOLOGY earning outcomes n completion of the course, the students will be able to: Understand the inportance of Single Cell Protein. Learn the commercial production of mushroom, and its marketing potential. Introduction, General characteristics of Mushroom, history of mushroom cultivation; biology f mushrooms and its poisoning; edible mushrooms and its cultivation in India and world. Caltivation technology, infrastructure, equipments and substrates in mushroom cultivation, nushroom unit or mushroom house, pure culture, Spawn, preparation of spawn, raw materials or the cultivation of moshroom, Compost: material used for compost preparation, compost or the cultivation of mushrooms: General process for the cultivation of <i>Agaricus bisporus</i> , <i>Planotus astreetais</i> , <i>Caloxybe indica</i> , Volvariella volvaceae and <i>Ganodermus</i> lucidum, Pests
S.L. 6.C LLO O U LLO O U U U U U U U U U U U U U	Semester-wise syllabus for PG Course urface analysis, ayout preparation. ireation of personal and geo-data base. Reference Books Remote Sensing – Principles & interpretation - F.F. Sabins Digital Remote Sensing – Dr. P. Nag, Dr. M. Kudrat Principles of Remote Sensing - P.J. Curran. M.Sc. III SEMESTER Elective (PG) Course Code: RTPCTG1 Credit-4 Marks: 100 Course Title: MUSHROOM CUTIVATION TECHNOLOGY earning outcomes n n completion of the course, the students will be able to: Understand the importance of Single Cell Protein. Learn the commercial production of mushroom, history of mushroom cultivation; biology f mushroom subtrooms and its poisoning; edible mushrooms and its cultivation in India and world. Cultivation technology, infrastructure, equipments and substrates in mushroom cultivation, nushroom stord. Cultivation of important mushrooms: Caneral process for the cultivation of Agaricus bisporus, <i>Pauonto astreats, Calorybe indea, Vohariella volvaceae</i> and <i>Ganoderma lucidum</i> , Pests and Pathogens of mushrooms and their management. Storage and food preparation from mushrooms: Methods of storage of mushroom, Long term and stort term storage of mushrooms: Methods of storage of mushroom, Long term and stort term storage of mushrooms: Methods of storage of mushroom, Long term and stort term storage of mushrooms: Methods of storage of mushroom, Long term and stort term storage of mushrooms: Methods of storage of mushroom, Long term and
5. LL 6. C LL O O · · ·	Semester-wise syllabus for PG Course urface analysis, ayout preparation. ireation of personal and geo-data base. Reference Books Remote Sensing – Principles & interpretation - F.F. Sabins Digital Remote Sensing - Dr. P. Nag, Dr. M. Kudrat Principles of Remote Sensing - P.J. Curran. M.Sc. III SEMESTER Elective (PG) Course Title: MUSHROOM CUTIVATION TECHNOLOGY carning outcomes n completion of the course, the students will be able to: Understand the importance of Single Cell Protein. Learn the commercial production of mushroom, Natritional and Medicinal value of mushrooms; toisonous mushrooms and its poisoning; edible mushrooms and its cultivation; biology for the cultivation of mushroom, Nutritional and Medicinal value of mushroom; toisonous mushrooms and its poisoning; edible mushrooms and its cultivation in India and world. Cultivation technology, infrastructure, equipments and substrates in mushroom cultivation, mushroom production; Casing; raw material used for casing, preparation of againg material. Cultivation of mushrooms: General process for the cultivation of <i>Agaricus bisporus</i> , <i>Pleurotus ostreatus</i> , Calocybe indica, Volvariella volveceae and Ganoderma lucidum, Pests and Pathogens of mushrooms and their management. Storage and food preparation from mushrooms: Methods of storage of mushroom, Long term and short term storage of mushrooms, Foody/recipes from mushrooms in India and world.

Courses Focus on Employability/Entrepreneurship/Skill Development

गुरू घासीदास विश्वविद्यालय (केटीय विश्वविद्यालय अधिन्यम 2009 क्र. 25 के अंतर्गत स्वापित केट्रीय विश्वविद्यालय) कोनी, बिलासपुर - 495009 (छ.ग.)



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	Department of Rural Technology & Social Development Guru Ghasidas Vishwavidyalaya Kasi nu
	Guru Ghasidas Vishwavidyalaya, Koni-Bilaspur (CG) Semester-wise syllabus for PG Course
	Course Code: PTDCC 4.1 M.Sc. III SEMESTER
	Course Title: INSTRUMENTATION AND TECHNIQUES
	Learning outcomes On completion of the course, the students will be able to:
	 Onderstand principle and functioning of various instruments generally used in drug
	evaluations. Enhance their technical skills on slide preparation.
	Principle, structure, functioning and applications. Type of microscopy- Light microscopy, Phase contrast microscopy, Fluorescence microscopy, Transmission Electron Microscopy (TEM) and Scanning Electron Microscopy (SEM).
	Electrophoresis- Principle of electrophoresis, types of electrophoresis, factors affecting migration, staining in gel electrophoresis, application of electrophoresis.
	Centrifugation- Principle of centrifugation, Types of centrifuge, Types of rotors, Caring of rotors, Determination of centrifugal force, Sedimentation of cellular organs.
	Spectrophotometry, Principle, Functioning and application of colorimetry, UV-Vis spectrophotometry, fluorimetry and atomic absorption spectrophotometry.
	Microtomy and Histology- Handling of tissues for pathological studies, Rotary microtome and its working, Fixation and Staining, Histological localization and its significance.
•	Course Code RTPCLA1 Credit-1 Marks 100
	Laboratory course (Based on RTPCTA1) Laboratory exercises:
	Laboratory exercises:
	 Biochemical analysis of samples using spectrophotometer. Microtomy and preparation of permanent mounts. Reference Books Techniques in Microscopy and Cell Biology- VK Sharma Stereo, Image processing and Quantitative Image Analysis in Biochemical Research-Shashi Wadhawa and Amit Dinda Introduction to Electrophoresis- K Anbalgan Electrophoresis- Smith. Department of Rural Technology & Social Development Guru Ghasidas Vishwavidyalaya, Koni-Bilaspur (CG) Semester-wise syllabus for PG Course
Walker Labora Instrun	nental Method of Chemical Analysis- BK Sharma les and Techniques of Practical Biochemistry- Keith Wilson and John tory Techniques- Swaroop and Pathak. nental Analysis for Science and Technology-W Faren nental Method of Analysis- Willard Merritt, Dean and Settle
	M.Sc. III SEMESTER marks: 50
Course Code	Creut-1
	Course Title: SEMINAR
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गुरू घासीदास विश्वविद्यालय (केन्रीय विश्वविद्यालय अधिन्यम 2009 ज्ञ. 25 के अंतर्गत रवापित केन्रीय विश्वविद्यालय) कोनी, बिलासपुर - 495009 (छ.ग.)



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C. Int PTPDTGI	Mo
Course Code: RTPDTG1	M.Sc. IV SEMESTER Credit-4 Marks: 100
	e Title: COMPUTER APPLICATION
Dearning outcomes Don completion of the course, the Learn basics of Hardware and Use the computer to prepare v	Software
Elementary knowledge of Comp functions and application, Limita	outer, Characteristic of computers, Classification of Computers, ations of computers.
valatile and catch memory	rocessors, Input and Output Devices, Memory, volatile and non
network, ring network, bus net	software, network and network topology, Mesh network, star ork.
Application- MS office: Creatin functions, Internet, email, video	ag. Editing and saving files; Use of inbuilt Statistical and other conferencing, e-learning, Edusat, power point presentation. ral Development, constraints, Role of computer education in
Rural Development.	
Reference Books: Computer organization and desi, Fundamental of Computors-4th Fundamental of Graphics and n Programming in Basic-3rd editi A Rural Computer consulting Bi	nultimedia-Mukharjee on Bala Guru samy usiness : John. D. Deans
Course Code: RTPDTG2	M.Sc. IV SEMESTER Credit-4 Marks: 100 purse Title: ENTREPRENEURSHIP
Learning outcomes On completion of this course, th	the students will be able to: and qualities of an entrepreneur.
 Start SSI/ cottage industries in 	B support.
Entrepreneurship Development	Definition, Factors stimulating Entrepreneurship, Phases of t, factors affecting Entrepreneurship growth, Entrepreneurial preneurship- meaning, Difference between domestic and
International Business.	Law but and
	Box My Comp 23
	Car Conta
Entrepreneurship Development i Importance of Entrepreneurship I	Rural Technology &Social Development as Vishwavidyalaya, Koni-Bilaspur (CG) ster-wise syllabus for PG Course in India- History, Entrepreneurship development Programme, Development, Object of EDP, Phases of EDP, Problems.
Women Entrepreneurs, Problems Opportunities for Women Entrepr	pt, Factors Influencing of Women Entrepreneurship, Male vs. s of Women Entrepreneurs, Remedial Measures, Scope and reneurs.
	t, Preparation of Preliminary Project Report, Detailed Project jistration, Apply for Ioan, Apply for subsidy, place order for ver, Insurance, Government Clearance, Procurement of Raw
	The second se
Incubators, Sources of Finance	 up Initiatives by Government, Mentors, Accelerators, for start- ups, Failure, Strategies for Success, Start- Up- r ownership Sole Proprietorship, partnership, co-operative
Incubators, Sources of Finance Innovation in India. Forms for	for start- ups, Failure, Strategies for Success, Start- Up-
Incubators, Sources of Finance Innovation in India. Forms for organization. Reference Books: M.B. Shukla : Entrepreneural Prasama Chandra: Project H Tata McGraw Hill. Vasantha Desai: Dynamics C.B. Gupta & N.P. Sreeniva	for start- ups, Failure, Strategies for Success, Start- Up- r ownership Sole Proprietorship, partnership, co-operative ship and Small Business Management, Kitab Mahal Development Planning, Analysis, Selection, Implementation and Review of Entrepreneurial Development isan: Entrepreneurial Development ustry – Challenges and Perspectives
Incubators, Sources of Finance Innovation in India. Forms for organization. Reference Books: M.B. Shukla : Entrepreneura S.S. Kanka: Entrepreneural Prasanna Chandra: Project I Tata McGraw Hill. Vasantha Desai: Dynamics or C.B. Gupta & N.P. Sreeniva Nirmal K. Gupta: Small Ind	for start- ups, Failure, Strategies for Success, Start- Up- r ownership Sole Proprietorship, partnership, co-operative ship and Small Business Management, Kitab Mahal IDevelopment Planning, Analysis, Selection, Implementation and Review of Entrepreneurial Development ustry – Challenges and Perspectives M. Sc. IV SEMESTER
Incubators, Sources of Finance Innovation in India. Forms for organization. Reference Books: M.B. Shukla : Entrepreneural Prasama Chandra: Project I Tata McGraw Hill. Vasantha Desai: Dynamics C.B. Gupta & N.P. Sreeniva	for start- ups, Failure, Strategies for Success, Start- Up- r ownership Sole Proprietorship, partnership, co-operative ship and Small Business Management, Kitab Mahal Development Planning, Analysis, Selection, Implementation and Review of Entrepreneurial Development isan: Entrepreneurial Development ustry – Challenges and Perspectives
Incubators, Sources of Finance Innovation in India, Forms for organization. Reference Books: M.B. Shukla : Entrepreneural Prasanna Chandra: Project I Tata McGraw Hill. Vasantha Desai: Dynamics (C.B. Gupta & N.P. Sreeniva Nirmal K. Gupta: Small Ind Subject Code: RTPDDC1 Dissertation must be compulsor	for start- ups, Failure, Strategies for Success, Start- Up- r ownership Sole Proprietorship, partnership, co-operative ship and Small Business Management, Kitab Mahal Development Planning, Analysis, Selection, Implementation and Review of Entrepreneurial Development ustry – Challenges and Perspectives M. Sc. IV SEMESTER Credit-15 Marks: 400 (Thesis Evaluation 300+ Viva-voce 100) Dissertation ry for all students. Students will have liberty to complete for for some strategies of the properties of the strategies o

Courses Focus on Employability/Entrepreneurship/Skill Development