



List of New Course(s) Introduced

Department : Rural Technology and Social Development

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

Academic Year: 2021-22

List of New Course(s) Introduced

Sr. No.	Course Code	Name of the Course
	New Cours	ses introduced in B.Sc. Rural Technology
1.	RTUATC1	Organic Manure Production Techniques
2.	RTUALC1	Laboratory course based on theory
3.	RTUATC2	Elementary Biology
4.	RTUALC2	Laboratory course based on theory
5.	RTUATG1	Soil and Fertilizers
6.	RTUALG1	Laboratory course based on theory
7.	RTUATL1	Horticulture and Landscaping
8.	RTUALL1	Laboratory course based on theory
9.	RTUATA1	Organic Farming
10.	RTUALA1	Laboratory course based on theory
11.	RTUBTC1	Microbial Technology
12.	RTUBLC1	Laboratory course based on theory
13.	RTUBTC2	Dairy Management and Products
14.	RTUBLC2	Laboratory course based on theory
15.	RTUBTG1	Plant Propagation and Nursery Management
16.	RTUBLG1	Laboratory course based on theory
17.	RTUBTL1	Herbal Production Techniques
18.	RTUBLL1	Laboratory course based on theory
19.	RTUBTA1	Rural Health Care
20.	RTUCTC1	Sericulture
21.	RTUCLC1	Laboratory course based on theory
22.	RTUCTC2	Basics of Mushroom Production
23.	RTUCLC2	Laboratory course based on theory
24.	RTUCTC3	Aquaculture
25.	RTUCLC3	Laboratory course based on theory
26.	RTUCTG1	Integrated Pest Management





Guru Ghasidas Vishwavidyalaya Atenta Interstylishikid by the formal Interstitute and 2000 (C.G.) Koni, Bilaspur – 495009 (C.G.)

27.	RTUCLG1	Laboratory course based on theory
28.	RTUCTA1	Wooden Art
29.	RTUCLA1	Laboratory course based on theory
30.	RTUDTC1	Rural Social Structure and Planning
31.	RTUDLC1	Laboratory course based on theory
32.	RTUDTC2	Poultry Production Techniques
33.	RTUDLC2	Laboratory course based on theory
34.	RTUDTC3	Plant Morphology and Reproduction
35.	RTUDLC3	Laboratory course based on theory
36.	RTUDTG1	Economic Botany
37.	RTUDLG1	Laboratory course based on theory
38.	RTUDTA1	Indigenous Art
39.	RTUDLA1	Laboratory course based on theory
40.	RTUETC1	Land, Surveying, Leveling and Drawing
41.	RTUELC1	Laboratory course based on theory
42.	RTUETC2	Building Construction Material and Rural Infrastructure
43.	RTUELC2	Laboratory course based on theory
44.	RTUETD1	Goat and Pig Production Techniques
45.	RTUELD1	Laboratory course based on theory
46.	RTUETD2	Rural Entrepreneurship and Management
47.	RTUELD2	Laboratory course based on theory
48.	RTUETA3	Lac And Honey Production
49.	RTUELD3	Laboratory course based on theory
50.	RTUFTC1	Introduction to Remote Sensing
51.	RTUFLC1	Laboratory course based on theory
52.	RTUFTC2	Introduction to Medicinal Plants
53.	RTUFLC2	Laboratory course based on theory
54.	RTUFTD1	Natural Product Management
55.	RTUFLD1	Laboratory course based on theory
	New Cours	ses introduced in M.Sc. Rural Technology
56.	RTPATC-1	Concepts of Statistical Analysis
57.	RTPALC-1	Laboratory Course (Based on RTPATC-1)
58.	RTPATC-2	Innovation, Appraisal and action for Rural Development
59.	RTPALC-2	Field based work/ Survey (Based on RTPATC-2)





Guru Ghasidas Vishwavidyalaya Alema Intersty Statistical by the formal Interesting Act 2009, Earl Distriction of Co. (C.G.)

		15.0 E E E E E E E E E E E E E E E E E E E
60.	RTPATG-1	Sericulture
61.	RTPALG-1	Laboratory Course (Based on RTPATG-1)
62.	RTPATG-2	Lac production technique
63.	RTPALG-2	Laboratory Course (Based on RTPAGT-2)
64.	RTPATO-1	Natural Product and Processing Techniques
65.	RTPALO-1	Laboratory Course (Based on RTPATO-1)
66.	RTPBTC-1	Fundamentals of Medicinal Plant
67.	RTPBLC-1	Laboratory Course (Based on RTPBTC-1)
68.	RTPBTC-2	Concept of Remote Sensing and GIS-I
69.	RTPBLC-2	Laboratory Course (Based on RTPBTC-2)
70.	RTPBTA-1	Research Methodology and Ethics
71.	RTPBTG-1	Rural Waste Management
72.	RTPBPG-1	Laboratory Course (Based on RTPBTG-1)
73.	RTPBTG-2	Soil and Water Conservation Engineering
74.	RTPBPG-2	Laboratory Course (Based on RTPBTG-2)
75.	RTPCTC-1	Drug Formulation and Extraction
76.	RTPCLC-1	Laboratory Course (Based on RTPCTC-1)
77.	RTPCTC-2	Geospatial Technology and its Application
78.	RTPCLC-2	Laboratory Course (Based on RTPCTC-2)
79.	RTPCTG-1	Mushroom Cultivation Technology
80.	RTPCLG-1	Laboratory Course (Based on RTPCTG-1)
81.	RTPCTG-2	Beekeeping Techniques
82.	RTPCLG-2	Laboratory Course (Based on RTPCTG-2)
83.	RTPCTA-1	Instrumentation and Techniques
84.	RTPCLA-1	Laboratory Course (Based on RTPCTA-1)
85.	RTPCSA-1	Seminar
86.	RTPDTG-1	Computer application
87.	RTPDTG-2	Entrepreneurship
88.	RTPDDC-1	Dissertation/ Project work followed by seminar



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

Academic Year: 2021-22

School : School of Interdisciplinary Education and Research

Department : Rural Technology and Social Development

Date and Time: April, 05, 2022 - 11:30 AM

Venue : Seminar hall



DEPARTMENT OF RURAL TECHNOLOGY AND SOCIAL DEVELOPMENT GURLI GHASIDAS VISHWAVIDVALAYA

(A Central University)
Koni, BILASPUR (C.G.) 495009

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 mombers to discuss, review and modify the syllabor as per the Learning Outcomes-based Curriculum Framework (LOCF) guideline for the UG and PG Programs. Following members were present in the meeting.

- Dr. P.R. Singh (Chairman)
- II. Prof. Rajendra Singh Negi (Academic External Expert-)
- III. Mr. Amit Gupta (Industry External Expert)
- IV. Dr. R. Mohta (Member)
- V. Dr. S.K. Nirala (Member)
- VI. Dr. Bluskar Chaurusin (Member)
- VII. Dr. Alka Mishra (Member)
- VIII. Dr. Dilip Kumar (Member)
- IX. Dr. Lokesh Kumur Tinde (Mamber)
- X. Dr. D.5. Porte (Member)

The chairmen of BOS welcome the BOS members and following resolution were passed.

- All members of the BOS discussed the scheme and syllabus of Three year B.Sc. (NT) program and two year M.Sc. (RT) Program is per the LOCF criteria.
- The LOCF based scheme and syllabus for B.Sc. Rural Technology (all the six semisters) and M.Sc. Rural Technology (all the four semesters) was approved by the BOS (Scheme and syllabus is attached herewith).
 - The paper entitled "Wooden art" has been modified in "Wooden arts and entit" and syllabors of the paper has also been modified accordingly as per the expert advice.
- A 30 Hums value added course on "Mustroom Agronomics" was proposed by Course Co-ordinator Dr. Bharkar Chaurssia. All members of the BOS discussed the syllohus and scheme of examination of the value added course and approved the proposed value added course (Scheme and syllahus is attached herewith).

Meeting ended with vote of thanks by BOS chairman.

Prof. R. S. Nogi (Academic External Expert) (Oxt. Line Present)

Dr. S.Ko, Nigata (Merither)

Dr. Dilip Kamer (Mamber)

Dr. P.B. Bingh (Chairmon)

Mr. Amir Oupra (Industry External)

(Industry Expergal Expert)

Dr. Bhuster Checrusia (Mancher)

Dr. Lokesh Kumer Tinde

Dr. R. Melita (Member)

Dr. Alka Mishea (Mecriber)

Cody



Guru Ghasidas Vishwavidyalaya #Gerra Turesty istaliated by the Gerral Turestie Art 2007 (C.G.) Koni, Bilaspur – 495009 (C.G.)

Scheme and Syllabus



गुरु घासीदास विश्वविद्यालय रिकारिकाल अधिनार 2000 s. 25 वे अंतर्थत स्वारीत केन्द्रीय विवर्गसाला) कोनी, बिलासपुर - 495009 (छ.ग.)



Guru Ghasidas Vishwavidyalaya (A Central Trainersky Established by the Central Trainershies Art 2009 No. 25 of 2009). Koni, Bilaspur - 495009 (C.G.)

Apple 11th	See	110	A. Harden	86	Mush
	A STATE OF THE PARTY OF THE PAR	Street	10000	-	
III.ETTT	Libert was to pre- a residence or second where		39	- 1	186
C908274	CANCELLATION CORNER INCIDENT AND ADDRESS.		100	. 30	199
Elimon.	PLANE BY THE PROPERTY OF THE PARTY AND THE P	. *	100	-	100
*TOTAL DE	CARGOTTONY COMMISSION OF THE PARTY		160		199
MILE III	TOTAL AND PROPERTY AND PROPERTY.	- 11	76		110
STATE OF	CHRONICAL CONDESSOR OF ARROW.	-	100	10	190
MARRIES.	NAME OF TAXABLE PARTY OF TAXABLE PARTY.		36	14.0	1100
IVE ALAS	DARGECTORY CONTRACTOR PRODUCT		- 14	79	196
MARKET TO SERVICE	TAT ISSUED REPORTED	- 19	- 16	100	100
ROOKAL	CONTRACTOR AND ADDRESS OF THE OWNER,		. 94	90	100
	109	208	480	386	1000

Sept 1	Time		ele Signing	140	Make
		Theory	borned.	Profiled	-
RAILERY	THOO THE RESIDENCE	198	- 16		18
#PORCE	AND REAL PROPERTY AND PERSONS ASSESSED.		- 16	-76	100
RECEIPT .	PATRICIA A TOPS TO MUNICIPALITY AND THE	-	16		140
BRIDGE.	LONGLOSSIC COCKUS SATISFICES DECINE			-	110
STOPPED 1	CALIFORNIA LESSONA DAL	- 10	16		196
WHITE STATE	LABORATORY COMPANIES OF THE PARTY.		160	. 100	100
RELEGE	DECEMBER OF STREET	- %	36		756
WINNESS TO	Service .	-11	W.	76	710
	Total	- 04	191	360	100

partment of Rend Technology & Smiat Development tern Glookles Volevanidyadaya, Kusi-Bilapar (CVI) Seasotte-wiss syllabon for UG Course 2021-2022

SYLLABUS as per LOCE

B.Sc. I SEMENTEE

Course Title: ORGANIC MANIRE PRODUCTION TECHNIQUES

Course Code: ET/(ATC)

Crodit: \$4

On completion of the course, the students will be able to:

- · Provide Knowledge about organic matters, their types and production process.

 Develop response reperling for harmful office of obsessual feetilines and learned the production methods of organic memory.

 Understand the development of skill related to production and startering.

Organic matures corrupts, musclag, definition and importance of organic monore, types of minutes, component of organic nature, preparation rathed of manages, farm part manage, correlectespoot, chemical composition of manages, promotion seeded for compact propagation.

Composing Methods- Indoor marked, teresh method, loop method, unip method, vegetable wood box method, mulysis of quality of compost and its chamical composition.

Naday compact Preparation of Naday measure, commercian and design of matay compact tank, traditional design and law not compact pit, chemical composition of rindep comport.

Organic Farming-Introduction, sceneps, principle and importance of organic farming, gases marane, 800s, unella, recycling of organic resolute, application of nantures, regulations and policy related to organic resource production. Suggested Readings:

Suggested Readings:

Dr. N. L. Starrin & Dr. T. B. Singh-Mids Vignas Ayan Khad UrvackS. Seably - Principles of Agentomy
Joseph C. Gibran- A model of self langDilip Kurur Das-Introductory Soil Sciences
Dr. N. L. Starrin & Dr. T. B. Singh-Mids Vignas Ayan Khad UrvackS. Redfy-Petaciples of Agencomy
A massad of soil forgis Joseph C. Gibran
Dusbyar Mullbotta- Jan Urvacah
Aran K. Sharra-Jarick Khad
Das-Massars and Sertiliars
Besits-Festiliars A Text Book
Cinitation-Handbotto- HandbottoBesits-Festiliars

Contraction Handbook of Services

Contract Title: LASCORATORY COURSE BASED ON TREORY
Course Code: MTUALCE Cycolin 88 M.

Identification of virious regarie measurements of radap-sergest.
Preparation of FYM.

Proposition of vertain report to the proposition of manages

गुरू घासीदास विश्वविद्यालय रिकारियाला अधिनाम 2000 हा. 25 वे अंतर्गत न्यारित वेन्द्रीय विवर्णसङ्ख्या | कोनी, बिलासपुर - 495009 (छ.ग.)



Guru Ghasidas Vishwavidyalaya

(A Central Trainersky Established by the Central Trainershies Art 2009 No. 25 of 2009).

Koni, Bilaspur - 495009 (C.G.)

Byparenseni of Based Technology & Social Development Guya Ghanidas Vidirasvelyskipa, Kani-Hitsipar (CG) Sensester wite ogliden for UG Course 1821-2821

STLLABUS as per LOCF
E.So. (SEMENTER
Control Table ELEMENTARY SECHLOGY
Course Code: STUAYCE Code: ST Marke:100

Learning outcomes. On completion of the course, the students will be able to:

- Understand the fundamental provingly about Every world.
- Understood the elementary invested about muse and muse archivaled of life, cell represents and elementary knowledge of neu-charlance, and checking.
- Entirely invested posterus animal kingdom and its economic importance.

The riving world: distraction of Swing organism, busic or Archaeportal elements of Invasors, reconvery, symbologic and classification, reconvertation, rades for Internal Controllers. Tracemental Elementy, tools for tracements stuffer. Deribertum, tectual guident converse, restinged parks, terronomic keys, tenonemic filentum, confine of five kingdom classification.

Bio-nucleoties: Chemical continues of living sells, Fineracleodes, Structure function of postein, carbehydrates, ligids, mariele celd, anguses; types, propeprovent artico.

Cell: Cell theory and cell or the basic unit of the structure of prolaryotte and minusyonic cells, Cell regardine-Structure and financies of microbrostria, chloroplast, malophanela introduces, golgi body, dibustrias, basicisses, microbra. Chromosopras: Structure and Interior of Chromosopras, types of chromosomess; cell cycle, pritosia, ractions and faste rigiditation.

Gassed absenters of non-charletes. Bossenic importance of non-charletes, Discourc Cound by pressurate, behaviores and tracets.

Gaiard classifier of chorders, potential and ana-poisoners seekes of Italia, values and and seak of makes, forcesees repertures of Charlesia.

Course Title LABORATORY COLUME BASED ON THEORY
Course Code: 87UALC2 | Credit N | Marke 188

- 1. Study of contour plant cell hyper
- 1. Study of ventous plant cell Stypes
 2. To proper aguest member from control to the to study intensis.
 3. More charical total for the identification of provide, study, super, fire
 4. To ender recision through present studes.
 5. Study of generalized filter of insurabutes in an ende.
 6. Study of prima ment stides of insurabutes in an ende.
 6. Study of prima ment stides of registrator constraint.
 7. Study of missions upon one of invocations.
 8. Study of ensecute specimes of ventolender.
 8. Study of ensecute specimes of ventolender.

Suggested Dendings
Mayor & Addition: Principles of Systematic Zeology (1993, McGraw 1981)
Societies & Stelat. College Zeology (197 ed 1981, Marcelles).

Fre file a

Engerment of Stand Technology & Sound Developer Union Charities Visionscottetters, Name Manager (C. Seguines who reliables for 3% Control 2813-2812

Nigam: Biology of New-Chemistry (1997, S. Chand).

Nigam: History of Chardens (1995, S. Chand).

Parver of al.: Life-So Sentree of Hiology, [7" ad. 2004, Samuely
3.5. Lift Injectionalistic Function [200 lay (History Pols).

3.5. Lift Novinderum-Position Zoology (Rostory Pols).

B.L. Jestino and P.R. Verran: Chemiser nowings (S. Chand, and Cassa, St. Liebia.).

P.S. Verran: Invertainance Administ of Function Zoology (S. Chand, and Cassa, St. Liebia.).

B.L. Karpal Verrationance Medicar Test Book of Zoology (Rostory Pols, Morret).

R.L. Karpal Verrationance Medicar Test Book of Zoology (Rostory Pols, Morret).

Cell Biology (21) Provey.

Souly V., Pauday P.C. and Jun 318, 1996, A. Tord book of Booky for Rostory Servanderum Rostory Booky (Rostory Servanderum Rostory Booky Servanderum).

SYLLABIS on par LOUF
B.Se. COMMENTER
Commo Code BYLLATOL
Cross Code BYLLATOL
Cross Code BYLLATOL
Cross Code BYLLATOL Marks 166

Learning extraces
Co. complaints of the 60s course, the students would be obte to

- Underson upon of soils and reserve
 Undersond shout upon of out and out profile
 Lines marked management is placed and application of the first lines.

Rocks and bilinester Hocks and its chandlentan, wordship of codes, and formation-physical, classical and biological said tensing process. SAL kanalastes, dettetion, comparants of eat, set profits, upper of sall, physical properties of mile-and collar, and squarees, and execution, said leating, bath density, perticle density and premety of soil.

Self Akt mill nersken, factor offerting self-annium, mill mint and self-annium nermanest, self-interior numerorans, minkelety of self-value.

Firtilizar: Ataeo elements and Micro alements, characterists of Artifices, Arthurur symptoms in places, integrated Nutriced Management (IPM), application methods of furthers,

Bio Sertificary Islandacton, Cercopt, Types of Bayterificary, Nikragosfring Socientiacon, Phosphata-schild into besterfilmen, Proposition of a Societificary-Societies, New Occur Algar (Mile).
Segpited Readings:
Limp & Societies Commissions Societies Advance
Lim & Societies Commissions Societies Appear Khol Librark
A.E. Societies A.E. E. B. Societies Vigities Appear Khol Librark
Den Montains and Societies
Library Library Commissions
Commission Interfaces A Term Societies
Commission

गुरू घासीदास विश्वविद्यालय देव निकारियाला अधिनियम 2006 हा. 25 वे अंतर्गत नवतित वेन्द्रीय विकारियाला) कोनी, बिलासपुर - 495009 (छ.ग.)



Guru Ghasidas Vishwavidyalaya

(A Central Trainersky Established by the Central Trainershies Art 2009 No. 25 of 2009).

Koni, Bilaspur - 495009 (C.G.)

in

tours tourness vetterastilywisse, from Stilesper (CE) Semester who refinds the US Chame 2813-2813

Hand Smit of Furthern Association of India, Nove Delta, 1998. Stack A. S. Chamilley A. Tashan bay of Surfabers, Interestoper, New York, 1967 N. S. Sabba Has-Bio furtilisms in Agricultum/Oxford & 1011 Publishing Company

Course Title: LABORATORY COURSE BASED ON THEORY COURSE Code: RTUALGI Coding

- Bindy of Althorst types of next.
 Bindy of Althorst types of next.
 Bindy of Althorst types of next.
 Memorators of earl members, pH, both and particle dumity.
 Marginesing of vertices for Mine.
 Coloridation of Pertilizest familiare.
 To ready along grown transiting.

SVI.LABUS as per LOCF Course Title; FORTHEULTORE AND LANDSCAPING Course Code: KTUA[1] Could be 1 Learning varieties: Understand the houses, the students will be able to: Understand the houses, the students will be able to: Learn dead inferention of embed confidence and in importance. Learn dead inferention of embed confidence and managinum of all able to discovered the transfer of the force. Adopt heriochies in universities. Marketin

Horizoltare Coccupt, scopi, definition, everages importance and riscolfication of luminosheed steps, from and vegatatic areas of lasks, experts and importanguations, Generalizate substrate / programs soluted to footicalizate and bardenging

Establishment of orchord, sin solvetion, principles, planting and layour of oschool, tooks and Implements. Management of oschord-Planting systems, training and provings, tentretes, water, words, and pasts remagement in ovidered toots. Cabirration positions of conject that overpo-Citem train, preprint, bostons, bur, Giorna and Manage.

Faultement of Florinsteen, Scope and Separation of Excitation in India, Importance and production indentings of our flowers and texts: Covers, Frankspian societies of community plants like rose, natigoid, obsymmetromen, globiotos, passino, doblin, tolerane and gerbers.

Landscopeng: Principles and compensate, hardscape designs, Styles of gender: formed, inflavoud and free style partiess, types of londscape: Urban landscaping, blo-sauthable planning, oco-receives, theme parks, kidose gardening.

Plant components for landscaping: Lawse Establishment and assistences, Plantskalds, sensets, hotiges, clusters and excepts, acet and maculants, frozen business and excepts and assistance power.

Course Trity LABORATORY COURSE EASED ON THEORY Course Code RECULAR Confit 0

Distriction of goods enjoycement, conjugated for provincing and london spring.
 Propagation and maintenance of sanction
 Propagation and maintenance of sanction and prompted.

Inspectace) of Book Torinology & Social Berchapted Gara Gharidan Videors Brokers, Book Bleister (CNC Semanter Ada polision for 141 (Secon 1811-202)

Training and Printing of place
 Centre, heatiling and grating practices.
 Identification of control grades seem
 Making of Bossel, Terrariem cutses.

Suggested Roselings:
Commercial Floriodates - V.B. Rose and A. Laurine
Morientines and Land Rosping - Deeb Raj
Cultimation of Minne Frest - B.C.Dos and S.N.Dos
Flori Propagation and Storacy Hardandary - J.B. Vislov
Peel Production S. R. Debry
Madem Olao and Floriadates - G.S. Storacy

SYLLARUS or per LOCF
BSc. I SEMESTER
CONTROL THE CONCANCE PARMING
CONTROL CONTROL CONTROL CONTROL
CONTROL CONTROL CONTROL
CONTROL CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONTROL
CONT Market 100

- Learning enforces:

 On completion of the tile course, the residence would be side to

 Uniformized the concepts of engage forming and disseminate the top-ologic shade appeals forming strong, the formers or recognize the listed of excellent and of chemical fact lines and postoriol.

 Understand about different openins and originals facining and produce organization.

Degrate Thereing, exceeding concept, definition, upon of organic Thereing and benefits of organic Statuting. Principle of organic Statuting. Scope and presson status of organic familing, finding and Chhertiegett.

Components of Stypes families -regard masses, gone cannot, next based masses, upo haberty based nature, cosp motive, Notegod management, Dis-

Organic ong minasproved Semaji - kilogotini pest menagenera (1945, hatganari dinama managenera (1946, lengroved partient recongenera (1946, lengraved senar menagenera (1946), integrated recol management (1946).

Cityant: one production practice is – Kien, Wheel, Physia pea, plantation empt like Mange and Games.

Organic forming Conditioning Polision and Iconotics of organic production, Agenci and hadrodies school to organic territor, procedures of continuous tire organic

20



Guru Ghasidas Vishwavidyalaya

(A Central Trainersky Established by the Central Trainershies Art 2009 No. 25 of 2009).

Koni, Bilaspur - 495009 (C.G.)

Department of Borst Technology & Social Development Gern Ghanktas Vishwarishrubya, Koni-Bilagur (CG) Semester wire syllalms for UG Course 2021-2022

Course Fife: LABORATORY COURSE BASED ON THEORY

Course Code: RTUALA'

Credit:01

- 9.
- To study the components of organic flaming.
 To study the production methods of organic measures.
 To study the methods of application of organic measures.
 To study the IPM, IDM, IBM and IWM for organic farming.
- 5. To study the certification process of organic farming.

wedyalaya, Koal-Illiaquer (CG) Semester-wise syllabas for UG Course 2021-2022



On completion of the thin course, the students would be able to

- · Learn historical background of microbiology.
- . Understand about the microsogenism and their merialness and also their harmful
- Learn economically important microorganisms and their functioning

History of microbiology, Scope of microbiology, Virtues-general characters, Bucteriugeneral characters. Staining - types of staining. Gram attaining technique, Economic importance of bacteria.

Mycoplasma- general characters. Actinomyceies - General characters, Cyanobacteriageneral characters, Structure of betweeyet.

Introduction to formentation technology- Definition of formentation, fermenter configuration, general aspects of graduation of Streptomycin, Amylane, Citric acid, Ethyl alcohol and vitamis B 12 by microbial fermentation.

Yeast and its uses, Uses of yeast and Yeast products, Microbiology of milk, production of yoghun, butter milk, choose, speilage of food and techniques of food preservation.

Organic matter decomposition composition of litter, microorganisms associated with organic matter decomposition, Organic compost, Factors affecting the compostingmicroorganisms.

Suggested Readings:

- A text book of microbiology- R.C. Dubey and D.K. Maheshwari Industrial Microbiology- A.H. Patel Microbiology Fundamentals and Application- S.S. Parchit

- General Microbiology- Power and Deghinowela
- Microbiology A System Approach-M.K. Cowat
 Microbiology-L.M. Presenti

Course Title: LABORA	TORY COURSE BASED	ON THEORY
Course Code: RTUBLC1	Credit:01	Marks: 100

Laboratory course-

- Study of basic instruments used in microbiol techniques. Laminur air flow, oven, Incubator, Autockive.
- Guan staining technique for the identification of Guan +ve and Gran -ve bacteria.
- Identification of Nostoc, Anabuena, Rhicogus, Yeast
- Detection of adultaration in food items.
- 5. Study of emicus food promyvolve method

गुरू घासीदास विश्वविद्यालय दीर निमाणिकार अभिनेतर 2000 हा 25 वे अंतर्थन स्वाधित केन्द्रीर किरवीरकार) कोनी, बिलासपुर - 495009 (छ.ग.)



Guru Ghasidas Vishwavidyalaya

(A Central Trainersky Established by the Central Trainershies Art 2009 No. 25 of 2009).

Koni, Bilaspur - 495009 (C.G.)

Pepartners of Horse Frebedogs & Savid So-Gree Ulimbia Vistories States, Kom State secure or the influenciae GG Course 2003-2003

SYLLADES IN 1911 LOCKY E.S. II MENDITER CHAIN THE BAIRS MAYAGENEST AND PRODUCTS CHAIR COMMITTERS: CHAIR COMMITTERS:

- Exercising surfections:

 Che completions of first course, the mantous will be also up

 bloodly deficient knowle of associate facilities and their fracting consequence

 Understand forming and bookly memogeness of more and includes

 Understand forming and bookly memogeness of their fracting consequences

 Understand forming away gravifaces conductive consequent deficient

 Propose various dainy proclems and columns their still for market changes of Unity

 Propose various dainy proclems and columns their still for market changes of Unity

handarine of impresse breeds of core and buffaton, Government scheme / programs related to Direct buffeton

Daily form management I seeme of different free by bloggs, Deeps and directive of different biothers materials used for challely draw, manufal application and tryping, types of horse, become protects. Can of day and which never and maintenance of different daily until regiment.

Problem Characteristics, buy proposition, types, qualities, principles and estimation of salams, Austral Breating Methods Mating section, in twenting and our investing, done advantages and decarborates, Artificial Journal Notice letter

Asient Distore Fox and result disease, feature, Black Quarte, Einforper, Medici and Garacochagia supriseasis—data diagnosis, teatures, posterioris, veccination arbeitale.

Dairy Products: Freeming of milk, prehamicalism of milk, method of preparation of humar, classes, then, preserv, yeglent, excess, and distillated.

Suggested Readings:

Various Scholarders' Handbook of Astrod Handbookey*

Jugitah Present Profiles Ford action and Management*

B.A. Single Producy (enclusive*

Ingitah Prosest: Presengle and reaction of Duley Forth Management*

I Profile B of R. Readly Profileg of posting

the Board of Currentine & Engineers: Hand Book of Duley Forthing

B. Sanagement; Publy Tocknology Hand Book

P.N. Blast and B.J. Khan: Const Profilesion

Course Tale: LAMORATORY COURSE BASED ON THEORY Course Cele: KTUTECT | Condition | Ma

Fren

- Visit ta case, bullish, and goe form and report preprinting
- Violent come, Indiana, and gave forms and report preparation. Soning of securious of hermaling for each read games. Vest to thing plant and report solvarious in. Calculations of notice for each fortilla and game. Proposition of explant always producing power, shall be not, those pre-vailed with distribution and diese transle cold.

Separties and Bears Training at Social Sensings and Gera Obsession Volument player, East Schaper (CC) Security many Subject (C.) (Corn. 201-202)

STLLARUS AS PAR LOC F

R.A. BISMESTER
COMM TIME PLANT PRINT AND AND NOSSERS MANAGEMENT
une Code HTURIGI Coole to Market

Cause Code II TUTOTICE

- Learning extension
 On completion of Oth source, the madeum will be able to

 "Understand frames plant councy and it is possed in modern.

 "Understand frames plant councy and it is possed in modern.

 "Assurant stall followed promption to a large spartner and fact framiling.

 Calmining the associational of one of proclaids and fractional as actions.

 Once to heart all confidence and stalls for calcifications of plant councy.

Coccept, containing, individuant and largorithmic of plant numery. Types and function of plant numery, the solution for manage, physical and financial necessary for minutes manage expressions. Core and profit analysis.

Plantelon techniques: sell analysis, tand propunties, pt formation, species selection, planting review, pt filling, propunties of scarcey basis and messagement of mober plants.

Nasi propagation, worked: Bossel and Asserted propagation, Taggreen or propagation division, conting, injecting, hidding and grading. More propagation and hardwise, plant propagation motives, integrated continue management, intigation systems, po-Man and transport of managegiates.

Playing less and planting scatted codes plant planting and stemp planting, cloud plantation, you and post activity in plantation, worse, comments, would, disease and post management of planted plant, Training and posting practices.

Protected propagation interners, Cleanut, Garain connected, Clien Brown, plants film Green House, Rapid Panel Greenbosses and Greenbosses with the New Local Countries.

Suggested Bookings: Plantation Forestly: R.K. Lane Harrary Technology: N.K. Negli Prest Prepagation and Stonery Budmonry, 1.5. Yeshe Introductory Gentlin Bases S.F. Cheleophie

Course Vide LARCO ATOMY COURSE HARES ON THEORY Course Code: ETTINGO Code:

Legislar proposition for plate (univery)
 Servard and account methods of plane propagations; Send, divisions, carriery, hepotics bothings and proteins
 Proposition of proteins profess
 Proposition of platety treeline
 Proteins and proteins; or platety treeline
 Treeline; and proteins; or platety treeline
 Treeline; and proteins; or platety treeline
 Theory place accognitions
 Theory place accognitions

गुरु घासीदास विश्वविद्यालय (क्वेर रेगोक्टर व्यक्त २००३ २ ३ ई इत्तर स्वीर क्वेर रिजीव्य) कोनी, बिलासपुर - 495009 (छ.ग.)



Guru Ghasidas Vishwavidyalaya

(A Central Trainersky Established by the Central Trainershies Art 2009 No. 25 of 2009).

Koni, Bilaspur - 495009 (C.G.)



गुरू घासीदास विश्वविद्यालय रिकारियाना अधिनाम 2006 हा 25 वे अंतर्गत न्याप्तित वेन्द्रीय विश्वीस्थाना) कोनी, बिलासपुर - 495009 (छ.ग.)



Guru Ghasidas Vishwavidyalaya

(A Central Trainersky Established by the Central Trainershies Art 2009 No. 25 of 2009).

Koni, Bilaspur - 495009 (C.G.)

Department of Rarol Technology & S. Guru Chaodes Videocolynters, Ko Scientific man softshed for Cfs Course 3631-3621

SYLLARDY soper LOCK BASE SI SEMILITER Course Title RURAL HEALTH CARE Cause Code: RTUITAL Micros 100

On completion of this among the students will be oble to

- Aware about the briefly problem, their maters and stationar columnies.
 Understand problems for consistent and briefly improvement.
 Aware about to rand health management.

Rural Hanks: Understanding of bealth, epidemiology, natural binary of discuss. determinants of health, enfectors of business.

New Trials and Nation States Health and marries linkages and states, dietary states, tonics in look is not marries, factors influencing lands and outsides return

Rord Health and Communicatio Discoure Violenteaching communication Essential Affirmat communication (theorem and rendary of - respiratory infection, water and food forms influsions, acutest discours, artifacted forms discours and economic Dissources of communications and control of communications of

Rural Builth Management Heelth one services- (a) general services, (b) Material and shill both sevices an services provided

Rural Statistics and hygiene: Government Sciences Elio, Symphosise Hunert Mission, Microel Bharat Abbigue and Agent Mission.

Naggeried Headings: Headin Clere in Rand Assec J. Cyrillianusery Tobal Fertility, Monkly, And Headin Core Practice B. Mothemysppu Barel Belts over Health Clere: An Interdumplinary Oxido: B. Flandoull Steams



Requestions of Florid Technology in State Systemation Gallin Chestille Vickerschiptheys, Kine Hillarger (13); Bennicks committed for 15 to 10 (10): 1502

SALLARD to per LINCY
B.Sc. DI STANDATER
Course Title SCREET, FLERE
Credit SA Corne Code REPORTED

- Controlog outcomery
 On comprehense of this cursus, the stadents well be able to:

 I have the relocable notion of interiog problems of silvenous and revening printer of the plane.

 I dentify the various level messar, one mornial recover, all files and are betterholder of interior and print interprinted of the plane.

 Control for opportunities in the politics, printer and grounders occurs.

 Only the better of confidence and shift in annahistation of the plane.

Introduction to the explaint Definition, family and importants of introduction introductions belongly in India, prospects and purchase. Study of multiply and non-modificate (six vortices Touris for not deep introduction productions, productions, productions, from plants and ellicobrance belongs introduced.

Birthy of tilk nodi. Assuny of —therite oft were. Digastic 2000 inhaling most, pure. Expenditure system. We cycle including availing and extraorephosis, 4th phrob, spirateg of tilk threats, disease and pure of malberty tilk states.

these planes and the other Trypes of their planes the materials, offices of ages—therefore on the growth of best planes with spenial information in studiesty, multicary of collections and its messagement, it seeses, posts and produces of multicary plane.

Renting techniques: Maid moting bear and its types, advantages and disablemingss, session, renting, applications. Young, agr infrared marting and line agr renting, membrane and measuring, harvesting of income.

Sading: Crading of ording recesses, willing of sweezes, redling matterer chartes, entage basis, provincing of six offs.

Charte Trip. LABORATORY COLLEGE BASED ON THROST Drawn Cade (CULLU) Creft at Marke (10) 1. Study of her present six were. 2. However below person ask were. 3. However below person and red on a let her place. 3. Study of propagates with special college place. 4. Study of propagates with special college place. 5. Mean function of person and products of his ferms. 5. Mean function of person and products of all wors. 6. Distriction of person and products of all wors. 6. Distriction of the security is set and all the place of study of these various person. 7. Vert to writing all women restrictions. 8. Vert to writing access to shorte the six warm diseases and collection of diseased various.

6 Vall to Depute the second se

गुरू घासीदास विश्वविद्यालय दीर निकारियाला अधिनितर 2000 हा. 25 वे अंतर्गत न्यारित वेन्द्रीर किरवीरवाला) कोनी, बिलासपुर - 495009 (छ.ग.)



Guru Ghasidas Vishwavidyalaya

(A Central Trainersky Established by the Central Trainershies Art 2009 No. 25 of 2009).

Koni, Bilaspur - 495009 (C.G.)

SYLLABUS as per LOCY 8.5c. III SEMESTER Course Take BASICS OF MERSIROOSE PRODUCTION Course Cade RECUTES Credit: 04

On conspliction of this course, the southest will be able to:

- Month white salves outlier materiars.
 Louis molecum protection actinizes and their management.
- Dailitopile officiency of combiness productors, was agreed and marketing.

Introduction-Directionies, Flatney and scape of Medicoros. Characteristic fusions of thathlicrycetro furgi.

Manification of community proves continuent species. Edible translations and their characteristics, Nantinual value of Manhaness, Festivas of pointerna manhaness. Medicinal mustuscens and their proportion.

Spece production technique-Equipments, raother culture preparation technique and THE CHARGOCHEL

Fralistics: Techniques of Oyter Mealsoons, Paldy Star: Madroom, White Helten Madroom and White Milloy Madroom.

Fee-harvest handling of markeoma, Problems related to markeoms production, Management of peats and diseases.

Management of point and dission. Comme Tide LABORATORY COURSE BASED ON THEORY Control Code: RTUCLU2 Condent. 1. Mentification of different mentioners species. 2. Equipment Stored aroundances species. 3. Cubber programmer, and Dynes species. 4. Different types of methylocom bed proposition. 5. Telforent types of methylocom bed proposition. 6. Multimore but mentiogrammer. 1. Study of different types of posts and diseases of excitores. Marla:100

Suggested Ecudings:
The Mushroom Henriter-Trend Pegter & B. Spooter:
Mashroom Caldination-B. Topach: at H.P. Stadia
Mashroom Georgia; S. C.Der

are Chroster Victoreitlysbyn, Kret Filtoper (CE Armonic who sylvine for EU Crimes 2021-2012)

SYLLARIS or per LIGH Rise III GENESSTEEL Course Cade ETUCTO Control Control Market No.

- Costning subcomes

 On completing of this costne, the makings off to state or

 Understand different type of S.R. and general physiology

 Understand Safe production with degree and they recompress

 Our dell prostately componenting in report its

Intropology and its useps, John of cosp tiches and door characteristic factories, and major cosp topol in Chindragon, large-value fields, proported fishes.

Socialistics toder, retention, lateral like cyton, Ford, feeling between and digenter to fish, reprincey organic squals and all faculting, seem blobbs, breaking of fish, fall and reconstruct first temperatory Common Elemen of Sci. sel box own.

Filtration and its terious charaftendor, Overview of Inhand, Ilaborate, and Islanton fisherms, Fish auditor in proofs and pend management, Composite that thereing, magnetizes and use of newage for the others: Integrated fish between Maling and and appear, introduction to Islanti-system for this facilities. Obversaring address of programs intend to fish without

Persy witter and proming that calture to

Course Tale: LANDHATORY COLUMN RANGE ON THEORY
Course Code: 811/CLC1 Confects Margarities
Margarities

- 2: Study out noming of file scale.

 1. Martifaction of channel falor.
- 4. Maryladegrad study of call with continuous and Post system.

गुरु घासीदास विश्वविद्यालय (स्थापनाका स्थेन २००३ २ व स्थापना स्थापना) कोनी, बिलासपुर - ४९५००९ (छ.ग.)



Guru Ghasidas Vishwavidyalaya

(A Central Trainersky Established by the Central Trainershies Art 2009 No. 25 of 2009).

Koni, Bilaspur - 495009 (C.G.)

Department of Herel Technology & Social Baydopered Grave Charicles Volkenrickprings, Kons. Blueper (CG) Scientific wise reliables for U.G. Course 2001-2021

SYLLARIES as per LifeCV
R.Se. III SEMINSTER

Course Take DYTECHATED PEST MANAGEMENT

Charge Code: STUCTGI Credit 94 Market 949

Learning settorum

Do completion of this receive, the students will be table to:

- Understand the objective of IPM and aware of berealth frames and pest.

- Learn post newtoring, primarament of pest payableon and in offsets in stopping faith.

- Understand the constantible operar has be pest course and humble of postplates in one-received pests for the postplates for the received pests with places, restoring of posts.

Expected Prest Management, Coursely, managing, importance and Milety of IPM. Relation of posts with places, restoring of posts.

Expect of pests on ecopying Bolds, managing post population and fastination of coupless.

Expect of pests on ecopying Bolds, managing post population and fastination of coupless.

Sustainable approach towards integrated Pest Management, Monthaling of Pest 26 Copys.

Control of copys against adverse effect of posts, application of Column, Monthaline and application of Debt in different copy.

Expect of copys against adverse effect of posts, application of Column, Monthaline and application of Debt in different copy.

Course Golds RTUCLGI Credital Management, institution and application of Debt in different copy.

1. Souly the touristic payer later and damages of different growth stage of expe.

Preparation of affirm control of pest.

1. Preparation of affirm of sectors and posts.

गुरू घासीदास विश्वविद्यालय विकारियाना अधिनेका 2000 हा 25 वे अंतर्थन स्वाहित केन्द्रीय विकारियाना) कोनी, बिलासपुर - 495009 (छ.ग.)



Guru Ghasidas Vishwavidyalaya

(A Central Trainersky Established by the Central Trainershies Art 2009 No. 25 of 2009).

Koni, Bilaspur - 495009 (C.G.)

Separtment of Hamil Technology & Sured Street passes Gora Cheeden Vehrorblyshya, Knid Rasjan (Chil Separtments vehr Qilabas Ser § 6, Conne 2021-2022

SYLLABLE as per LIFE F
R.Se. (III SEMINSTER
COMMON THIS: WOCHDEN AREN AND CRAFT
COMPACTABLE COMPACTABL Marks 160

eral of wooden art littoduction, history, objective, vision, retail robot, distribution is belowed Office

modern through our design technique med, reschedubogs med the preparation of wood structure, purpose planning management and quality control.

Marketing of weekles are pleased, melicard and international levels; were of wooden market in Table and Chlorierpack, profiless to least with west worket.

Fundamental of Hombus are fundament, instead, types of handoo, distributed of handoo species, in I ask and Cristingers, Brashoe set and its importance, droigs and median materiages has in headon get.

Socia communic atebra of worders require, relatively is because front department and amedia. Europeanously, and caracitals development of worders wholes, causinates of Overstand and Sun-promises organization for worder ast.

Bafarence Byolog Sculpture is Wood: Just C. Rich

The book of Wood Carring: Technique, Bioliga and Projects - Charles Marduill

Manual of Traditional Wood Carving: Prof N. Hawlack

Course Table LABRIKATORY COURSE BASED ON THEORY
Course Code: RTINCLA! Covelin 81 Market 1996

To study of type of wood
 To study of tools and bandon set.
 To study of facility and its resides and bandon set.
 To study of florest species of floreshoo.
 Medical of wooden and bandon setches.

STILABLE as per LIBCE

Rile, DV MENDESTER

CHAPME THE BITTER SOCIAL STRUCTURE AND PLAYINGS

COMPAS CARRY HITERYC | Credit 64

Number 111

Develop the heavy logical and a resist structure and planning.
 Waterwood about possibly to present and a few developments policies and

program.

Hashin principles of our country and to application in day to the title could hashed mean could be read action, usual process, either and permentity, go uponed actions to country action and outcomes action and record experience becomes action.

Real extlement types of surpresent posters. Rand social securiors from the receivings original, code system size.

Frackrypti Ed; system and in implementation, Basel and Frackrypt Netherday back, Cooperation back, New-Indianous and Laguerias, their types and working

Historical review of Per-independence development, programme — Standarform, Grandian resource, Nicolaine project, Grandian project, Grandian project, Etomis project and YMCA.

Fool independence development programmes. Free years plant of halls CD, CASE, BDD, RLEGE, TRYSEM, DWCRA, CAPARE, MCNEDA, WCC, NRLM, BROW, BDD, Rauti Institution programmes. NRPH, ASIA, Santada programmes.

Corres Trial, LANCIA TORY, COURSE BASED ON THERMY
Course Code, BTUDE CO. Market Programmes.

Contract Code, BTUDE CO. Market Programmes.

To study the social exercisation.
 Study of read development programme.
 To study the read social and recommissis structure.
 In processing the following of the social structure.
 Incommission of MONIMERS.

New Course Introduced

1. Indias Developing Villages - C. J. Marian

Ecard Development - G. E. Madan
 Ecard Socialism - A. R. Dread
 FreeExport Enj. Institution - G. S. Bal

5- Initia 2011 (Section - Kursl Development)

Criteria - I (1.2.1)

गुरू घासीदास विश्वविद्यालय दीर निकारिकारा अभिनेता 2000 हा 25 वे अंतर्गत न्यारित वेन्द्रीर विश्वतिकार) कोनी, बिलासपुर - 495009 (छ.ग.)



Guru Ghasidas Vishwavidyalaya

(A Central Trainersky Established by the Central Trainershies Art 2009 No. 25 of 2009).

Koni, Bilaspur - 495009 (C.G.)

Sometic sim splicing for Dil Grame 2011 2011

SVLLABUS in per LOCK
Ble, IV SEMESTER
Course Value POULTRY PRODUCTION TECHNIQUES
Course Code; RTUDICS
Course Code; RTUDICS

- On completion of fair-come, the students will be oble to:

 Such the feether production to designed and their students and their students are been producted to the students and their students and their students and their students are been produced to their students.

 Establish entropyseconology in this field.

Secrets and Nutritions Street increase and streamentation of important hallon and flooring positry trends. Funding manipules auditants and other fluorisms, coming memoirs, registerly and unimal process resource.

Paulty farm bisospenses. Free rooters, pervisions for good busing, constructed chick, grown, builder and layer sussepressed.

Bonding and products returning: Principles of breeding brooking system. Geologicans of agus and lander nations. Assuments of egg quility, sufficies volve of eggs, produce of eggs, posteroing and principation of pentity profession, egg and recompositions.

Peday both renignment Syspenia, transcrivered and vaccinates stolegists. Void disease (New reals firms, Sed pos, soin influena, proposedia), Baccold disease (Pallena, Void Sydod, first reduced, Chemic regionality, Details disease (Latin) and Fragel disease (Myoris promotes).

Other product species and analoging strengton cleanway knowledge of other product species dust, quark today, seem, great and pigeon. Figs and cond-mulating, distribution channel, exports.

Course Tale: LABORATORY COURSE BASED ON YERCORY
Course Order KTUDICAL COURSE (Markot 1981)

Liberal Lowing and encephological made of pentity bycoth.
 Assessment of quality of egg.
 Study of handing system for posting.
 Study of handing system for posting.
 Study of hood and faulding comproments.
 Study of vortices types of posting classess and toursers.
 Study of vortices types of posting classess and toursers.
 Notice to posting contain and report proportion.
 Study to posting contain and report proportion.
 Study to posting the containing of the con

1092

September of Educat Verbrookey & Sound Stronger (V) Course Chemistra Verbrooks) plays, from Milesper (V) Sentences with cylink on for 141 Chance 3421-3422

SVLABES as per LOCF
B.S. IV SEMESTER
Cream Tries PLANT MODERATOR AND REPRESENCE HAVE
Comm. Code; SURGETO: Cream 50
Market 90
Market 90

- Contemporaries of this course, the respective will be usin as:

 Monthly plants on the trace of the opposing out for the series agree to precise treet.

 Declarated facilities is unlabeling of plant replachation.

 Logic and development and med dispersion and outlet.

General inverses of higher place. Characteris balance of Gyunopera and Anglocycen, Flatt worphology Mophological forces of seek and their model-adver of years and took geoglochopius adaptation. Vogetative and their morphological fraction.

Types of These and rath: Minimistic and personner tooms. (Ward and during nature of angiogenesis, parameter and disast; man and case, Veneralty reprises account and function, patients articles.

Phylosopy Led reciphology theretodogy: Assugation Phylosopy, and Vitarrion, Informacie: Rassums, Cyanie and Sprink Systy with rescriptor.

Structural impartments of Broom Structure of soften and police; Structure of credity Types of embryo care, repulsation and altramation of notice embryo on. Politonian and Statistical Politonian resolvations and adaptations Double Statistics.

Endryo and culturers: Endoques type, stantars and function; Disot and recessor, undrye, Frails: Strafe, Aggregate and Maltiple types, Suel-stantass, approxinges and departed in relaxations.

Course Tole: LABORATION CITE USE BASED ON THEORY
Course Code: \$1,000.00 Condusts Nucleotis

- Proportion of temporary is offer extend differ of T.S. of managered, but found of personners content of T.S. of moreous and show were, and clost. Study of personners content provide with help of personners is in its 1/2. S. of week.
 Thesis of types of types. Transparay and Francassus.
 Study of types of types. Transparay and Francassus.
 Study of the of have to result on the last owners and stocous court.
 Study of the own fee at and scoto of another in place.

- Paggrated Blandings: Visides, Brits and And Science & Finney for Degree Stockers, Gylpsessperie, 11.7 hand A.

Co.

Milliamore III. - Embryology of Angaingeness - Wakes Aut.

Product D. P. (1997). "Paste Assessment - Schmid and as New Stella Record and Protect (LPUS) One Steer of Detected Million Incidency, Bridge publishers, Mars.

Mars.

State E. O. (1990) Flore Among - Part Colle and Clares - Schmidt James Among - Part Colle and Clares - Schmidt James Among - Part Colle and College - Schmidt - Schmid

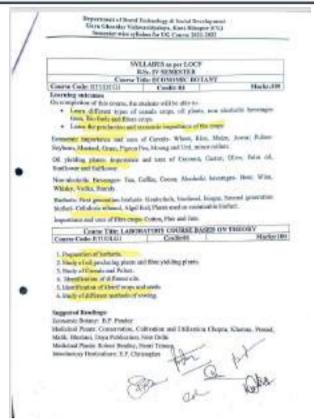
गुरू घासीदास विश्वविद्यालय रिकारियाला अधिनित्त 2009 हा. 25 वें अंतर्गत न्यारित वेन्द्रीय विश्वविद्याला) कोनी, बिलासपुर - 495009 (छ.ग.)



Guru Ghasidas Vishwavidyalaya

(A Central Trainersky Established by the Central Trainershies Art 2009 No. 25 of 2009).

Koni, Bilaspur - 495009 (C.G.)



SYLLABUS on per LOCK R.Sa. VI SEMESTER Course Title OSPOGEWORS ARES AND CRAFTS Course Code: RTUDE[A1] Marks: 100

Learning vatoress

- On recognition of the cause, the windows will be able to

 Learn about regions at forms of our mentry and also binneds background of

 Sectional and Othersquite.
 - . Lover, about basis patron, and resultes uples of Terrocette art. Bumboo art. Rankwar three per
- Understand the imperiors of commits reports of walkings are sed emercial mass of neel eriges.

pe & Clientique, Various teal final arts and its terportians in Chiefogeth Couple and leatery of Chiefogeth multiment art. Buckground, different technique related with Chiefogeth multiment ort.

Terracotte art - Manitals, quality of mile, multicost daigns, processes and torbaigam.

Barabas are type of haption, materials, processes, individuos, againments and applications.

Rejwer Billed art Materials, traditional designs, processes and techniques, incoverious.

Economy and manhering- bibetoning problems related with name get, present obtaction of real actions of Charategub size, size of different government and new government organization to the development of need artistus.

Course Title: LABORATORY COURSE BASED ON THEORY Charge Code: RTHILLA! Chedical I. Miking of soft for Terresons are Stating of soil to instruction
 Stating of article from woodcome.
 Making of articles from woodcome.
 Making of articles from signer billion of
 Stating of soil for instructions.
 Stating of soil for instruction at instruction article Resolution
 Training or workship or exposure for instruction article Resolution. Suggested Benefitsp Burnises Research in India; Cour B.C. Tinthet Bandoor from S.K. and Charlian & S. Monograph on fraction: Trees D.N. Course Code: 1711-1715 NEW THE INTERSHIP ESCAPATION (ESC. PYTHIR WOWN PROGRAMMS)

गुरू घासीदास विश्वविद्यालय दीर निकारिकारा अभिनेता 2000 हा 25 वे अंतर्गत न्यारित वेन्द्रीर विश्वतिकार) कोनी, बिलासपुर - 495009 (छ.ग.)



Guru Ghasidas Vishwavidyalaya

(A Central Trainersky Established by the Central Trainershies Art 2009 No. 25 of 2009).

Koni, Bilaspur - 495009 (C.G.)

Reportune of Sent Technology & Social Revolutions from Clarette Vision resident. For Biograph (%) Sensitive education for EG Comm. 103-202

CHILARES IN SPECIAL CONTROLS COMPACTION LANGUAGE CONTROLS Control Code, \$110.000 | Credit 60 | Se Look dated had melajor of activities Apply streeting for real adjustments for dispersion Enhance that conveying data he put apportunity. Control of covering for and development, objections, types, latte of seventument, intermedial said for servering. Chair energing introduction, principle and progress, accountries for classing methods, tracing source faces, Franci of chapter servers. Execut is challeng. Tracing and effectives of Labor. Place of its names, baselineton, possible and purpose, restore experiments, roof to place below earney, Marked of place table, Eyrops in place with manney and processions. Course Talle LABORATION CLASSES BASED ON THOCKY Course Finds ETT. (11) (140-41) In each about the personnels used problem survey. In each about the stemestimed signs and resolutions in classic message. Trainbotters describe seem global problem. Trainbotters describe seem global survey by resistance and control of the contr ingeres d Boothage Level E.E. Schreiding Vol. 1 & 13, Nondoor Book Bloom, Edde Level E.E. Schreiding Vol. 1 & 13, Nondoor Book Bloom, Edde Level E.E. Schreiding I. Leveling Vol. 1 & 2, Paril Vallacini, Tarda Preparatus, Floria Level E.E. Schreiding E. Leveling, Tard Mr. Chare. - Edd Preblading Dio 1 of J. Tehle. Level E.E. Schreiding Vol. 1 & 3, Non-Heart Prefacions, Morean Level E.E. Schreiding Vol. 1 & 3, Non-Heart Prefacions, Morean Level E.E. Schreiding Vol. 1 & 4, E. Schreiding Control of Dio Non-Heart Level E.E. Schreiding Vol. 1 & 4, E. Schreiding International Publishmen Medicing and Teller E. Schreiding Control of Dio Non-Heart Publishmen Medicing and Teller E. Schreiding Control of Dio Non-Heart Publishmen Medicing and Teller E. Schreiding Control of Dio Non-Heart Publishmen Medicing and Teller E. Schreiding Control of Dio Non-Heart Publishmen Medicing and Teller E. Schreiding Control of Dio Non-Heart Publishmen Medicing and Teller E. Schreiding Control of Dio Non-Heart Publishmen Medicing and Teller E. Schreiding Control of Dio Non-Heart Publishmen Medicing and Teller E. Schreiding Control of Dio Non-Heart Publishmen Medicing and Teller E. Schreiding Control of Dio Non-Heart Publishmen Medicing and Teller E. Schreiding Control of Dio Non-Heart Publishmen Medicing and Teller E. Schreiding Control of Dio Non-Heart Publishmen Medicing and Teller E. Schreiding Control of Dio Non-Heart Publishmen Medicing and Teller E. Schreiding Control of Dio Non-Heart Publishmen Medicing and Teller E. Schreiding Control of Dio Non-Heart Publishmen Medicing and Teller E. Schreiding Control of Dio Non-Heart Publishmen Medicing and Teller E. Schreiding Control of Dio Non-Heart Publishmen Medicing and Teller E. Schreiding Control of Dio Non-Heart Publishmen Medicing and Teller E. Schreiding Control of Dio Non-Heart Publishmen Medicing and Teller E. Schreiding Control of Dio Non-Heart Publishmen Medicing and Teller E. Schreiding Control of Dio Non-Heart Publishmen Medicing and Teller Publishmen Medicing and Teller P

Department of David Technology & Smild Density name Grow Charles Visions (Spales, East Margar (CG) States for the spitch on for US Course 1021-2002

SYLLABOS SO per LOCA E.S., V SEMENTER

CORNE THE RELEIPS CONSTRUCTION MATERIAL AND RURAL Crarie Code RIMERCY Crafts as

- Conceptions of Octoors, the radius will be side to

 I sour occur best consept of construction regimenting.

 Local allow the law and restaudity includings the influsive and construction.
 - Cryclopiaeses.

 Tokaser how cost be living contracting the fire read arms.

Hething measures—brocked and the adortics, Franciscos, shock of roll for foundation, and send in recognit for building francision, secure of franciscos, labors, consist of group heliding.

Building communities manages, done, being, beings properties of bridge managements of being, and, and properties of great mod.

Corner, Manufacturing of source, types of course, names, featilize of morter, Courses, Reinforced comme courses (RCC), Phoring material Control of planting

Type of Kand Bouring: Boof mady door rend hunning and danger of RCC, partiett of landare house, mad beam, recoberhouse. Gost schooms for raid bouring.

their front — Type of real real read-mandaturing condition of read reads, manufacturing present of real read, different technologies adopted for construction

of read code.

Course Fate: LABORATIONY COURAGE BASICS CON THISTORY

Course Code: RTTUT C2 Conductor Marchari 109

- Study of Backing controls
 Study of Backing controls
 Study of various upper of bricks and control
 Calculation collections in the first for his litting
 Calculation controls given in the first building
 Calculation controls given to the first building.
 Calculation controls given to the first building.
 Whith the quality and an obstaclation are of orthon and must accome.
 The regging of a materialise at the of orthon and must accome.

Suggested Randings: Gunhamu Steph, Dufckig Materiels, Functed Publishers Directionss, Ories

Emports S.C., Employering Maintelet, Cherotae Publishing House Pro. Let., Advard. Med D.C., Nature & Marici-

S. Kalkert D.L. Exploreig Stantill. Bon-

New Course Introduced *Criteria - I* (1.2.1)

C.A

गुरू घासीदास विश्वविद्यालय न्द्रीय निकारिकाला अधिनिया 2009 इ. 25 वे अंतर्थन स्वाहित केन्द्रीय किरवीरकाला) कोनी, बिलासपुर - 495009 (छ.ग.)



Guru Ghasidas Vishwavidyalaya

(A Central Trainersky Established by the Central Trainershies Art 2009 No. 25 of 2009).

Koni, Bilaspur - 495009 (C.G.)

Begunterer of Rord Technology & Social Development Guine Glavelter Victorial Indexp., Kont. Mineper (CG) Sciencifer value by Babas Ser (G Course 2011-2012)

SVELABLES or per LOCT

RSS. V SEMESTER

Course Tritic GOAT AND PROFESSION TECHNIQUES

Course Code RELEGION Coulds by Market 60

Learning oursess:

- Description of this course, the melosis will be able to:

 I density different breefs of goals and pige and restresheding of their Sording management.

 Under their landing and brade course or goals and pige.

 Under their landing and brade course or goals and pige.

 Understand general and approximate medial for goals and pige.

Breads, Breathing and Fooding of goats: Chemistericis of (reported holist breads of gots of different regions. Maders techniques in reproduction. Freel, fategor, a children

Randing and health management in quart Shelt-Section and their (alumnion, vanilation, height and rooting material, floor type and spare, shalter survein lings, manufall application and hygiesi. Health management is goots

General curving positions of goes: determination of age, identification, dishutaling and deborating, costneion, exaction, boof transing, care of leaks, matting seasons, too of bids, does, Techniques of milking and its collection.

Dececls, threeding, and Fanking of page Characteristics of Important Secrets of page. Desichag systems, footing and relianing

Harning and best in management in pige. Homing, straingins first different monthers in pig, makers, constall applicators and legation. Marketing and transport of pigs. Fig disease synthesis to propleme parameters, Coldmerticole, Percentant, Switzer

Ever, fortrad small, disease, review por, monemaint.

Course Tolle: LABORATOR'S COURSE BASED ON THEORY.

Course, Code: \$17,00.000.

- The to good (to ferm and trace proposition)
 Study of housing rosters for pasts and page.
 Colodinates a Francisc for post and pig.
 Pathological conditions of disease.

Securited Enadings
Among Christians Healthack of Annual Husbanday*

logical band. Printyle and practic of Dairy Form Management'

the Board of Committee & Engineer: Head Hook of Thirty Engine

PM Black Hill Motor and Switcher Pig Production Ear Phi

P.H. Hart and B.H. Kine: Graf Prinlation

01

Superhouse of Board Subsching A Social Divertiques of Gerra Scheider Vickery (System, Secretificape of Sys-hemographic of Industrial (I), Course 10(1-201)

WILLASTE up per LOCF
Colors Table III Res. SYLENESTESS
Colors Color STUDIO Color Color

Larring currents

- Latering and remeal.

 Cap Completing of the common the new term of 8 to the term.

 Latering the net consequences the new quantities of on an entropy conset.

 A state have to true \$100 orthor industries along with the common measure of branched support.

 Products support an eliquated later dependency, give generations of the consequences.

Exemptions definition, character, fraction, types, breefs, and problems of secondary. Universality remains definition, minimalable for mempeopologically, infrarious and felicities.

MGDD, would need medican conceptions (MEMP), throughout of commercial SSL Commercial MEMPS, Problems of SSL Pr

Project Direct Routing - Museling of Project, Dellarise of Project, Project Classification, Project Director, Project Directorium.

Project Egypti- Spain of Project Japan, Project involved in proposition of DFE, analysis - Finding of Chilos Region. Leasures of an Empirica, wend and Imperious of Section.

minute Publics severals Boale Backers, behavior and contractive policy of Higgs: Entrational Segment to Boal Stationary SSE, ISSNC, NASAND, Oliverget, between the con-

Course Code ANDREAS OF COURSE SANDE ON TRADUCT Control of Code (Code (Co

- 2. Preparation of perpent propriets
- to be such the processed that written for MONTAL Didging Anathon Colleges

Schoolsen

Negovini Brasilinge

S.S. Kaliko Teneperuny lai Derchessoni

Promos Chalana Bened Flamme, Andyles, Sebedon, Seglementation and Deriver

Tenerich Chaptago (III.

Venerich Propi Dynamics of Interpretation Development

C.B. Cophia P.V. Seglement Interpretation Development

St. Magnati Prose. Child Management To Enter Earl Statesty, Ministry Menda.

On Holland or Delice States States States and Proposed Proposed States and St

गुरू घासीदास विश्वविद्यालय कारत अधिनाम 2000 क. 25 वे अंतर्गत स्वाधित संनोध किस्सीमाला) कोनी, बिलासपुर - 495009 (छ.ग.)



Guru Ghasidas Vishwavidyalaya

(A Central Trainersky Established by the Central Trainershies Art 2009 No. 25 of 2009).

Koni, Bilaspur - 495009 (C.G.)

O OBA

Department of Burnt Torbusings & Social Debeloguessi Guru Ghasidas Vichwaridyaleya, Kont-Ribupar (CG) Somester-wise syllabor for DG Course 2011-2022

SYLLABUS as per LOCF B.Sc. V SEMESTER Course Tide: LAC AND HONEY PRODUCTION Marks:100

On completion of this course, the madem will be able to

- Understand the facilife cycle and in various hant
- Identify various species of Honey Bee
- Understand basics of Apincture

Ceurse Code: RTUETAL

Biology of lac insect: Classification and morphology of lac insect, life cycle of lac trisect, Inc glands and their distribution, history of his culture in Irelia, enter sover under lac production.

beroduction to the enture: Important bost plant species for las solitivation. Lac-cultivation technology, processing technique of raw lac, production of shellas and white lac, study of different types of lac, commercial and demonstic use of lac, commiss of lac culture and control measures.

Biology of honey bear Chanfrication and geographical distribution of hos and their roces, morphology of honey bee, bee casts, internal minimity of honey box, life cycle of honey box, reyal jelly, bee houd and wax, posterning, abscarding and supercoduse, social organization in heavy box, morphology of bee-live, bee communication, discuses and peels of honey box.

introduction to Apiculture: Definition and scope of apiculture, artificial ber keeping (Apiary), collection techniques of houry from natural sites, physical and obscribed properties of honey, Utilization of honey and was in different commercial products.

Course Title: LABORATORY COURSE BASED ON THEORY
Course Code: RTUELD2 Creditell Marks: 100

- | Visit to positry farm and sport preparation.
- Souly of symme of homing the poultry.

 I likestification of different buil plants for lac sultivation.

 A identification of different type of lac.
- 5. Study of equipments used in apiary.

Reference Beeka

Chapmar The Investi: Straffer and function 94° ed, 1998, ELBS) forms: A general text back of entomology, 2 vol. (1997, Asia publishing house) Megavin: Essential Entomology 92001, Oxford Univ Paye) Strimatura: A textbook of applied entirenshipy, vol.I. & vol. II (1995, Kalyani teght liberal

The fraint. Bernott Associated G. S. Dariwal. The World of Honey Bee, A.S. Apoul.

The World of Honey Bee, A.S. Apoul.

The World of Honey Bee possions and partill. Matt. Fortin.

Honey boy Diviness and Management. D.P. Abrol.

Perspective In Indian Apirocher: R.C. Minley.

Department of Rural Technology & Social Development Guru Ghasidas Vishwaridyalaya, Koni-Bilaspur (CG) Semester-wise syllabus for UG Course 2021-2022

Actas of Indian Lac, Apit Presed Jain, Backer Det alles Lac cultivation in India, M.G.Kamath A handbook of shellac Analysis. G.N.Bhattacharya and P.K.Boss. Prayogic kenchua Khad Sandershika- D. Singh Earthworm-R.K. Bhittiager

गुरू घासीदास विश्वविद्यालय दीर निकारिकारा अभिनेता 2000 हा 25 वे अंतर्गत न्यारित वेन्द्रीर विश्वतिकार) कोनी, बिलासपुर - 495009 (छ.ग.)



Guru Ghasidas Vishwavidyalaya

(A Central Trainersky Established by the Central Trainershies Art 2009 No. 25 of 2009).

Koni, Bilaspur - 495009 (C.G.)

Corn Cheday Vote consister with collection for his Course 2011-2011

Liurning on beauty

- Consequence of this country, the state of real to after it.

 Obtain bright country, the state of realization is as the force as particular in the state of a particular of annex remove.

 A next with the proposed and private of remove causing and to applicate or it is a feel of state development.

 Understand the without of mands, among and 124 application to the third of real deep legislate.

Stimulatelen S, Dafaikken of Remote Steering, Kinik al Berson toming, History and Ottolopuses of Extrate Saming in world. Advantages of attack sensing, Head and Meed Scenario Soming

Party Sterre, Kickwoopsis Lang, Domestyell, Spring & Federick, Soliding, Aberpton and Leborane at Social Scring, Spring reformin repose of Silvon and nation Spring, long-relations.

History of Aurist Eurocu Sensing, type of Audal photograph. Photographic universities to Photogrammaly, applicates of photograph of Notices between saudits image and sense photograph, difference between saudits image and sense photograph, assessed op our marriers.

Perform, Costs of platforms introduction in Statilles, Polar outriting, Unsequellated one and OTS Southers, Note Inscises and Importance

Map, qualid observes in longer, electrication of temps, May worm deposits collectiving groups, may project in.

Course Take LARGEATORY COLLEGE MANAGEM TRANSMIT

Classic Code, 8 (1, 2) C. Crestorial Market 198

1.15 that their reported and in companies.

Life that their for your and relationship may make

Life that phase different advants blanch to record making

Scorge present
Science States

Francisco States

Department of Barris Verbookey & Social Beedsprease Gara Charles Victoresistators, New Names (1997) Sensory oda sylabus for DG Course 2001-2012

DYLLAGET to per LOCK

CHAPTE THE INTERDICTION TO MEDIT PAIL PLANTS
CHAPTE CARE ATTOMAT
CHAPTE CARE ATTOMAT
Crode: 84
Market 80

Laureing independent

Laborate postpones
On completion of the names, for machine self-to-pitch to

- Mentally medicated plans and artherine of translation representionic manufacturation including of medicated phases

- Understand contents processing of medicated phases

- Contra Out-mentalise of medicine formal edge and consequents

- Contra Out-mentalise of medicine formal edge and consequents Petroducing to different parts of molicinal plants blanc, Boat, Lind, Figures, Froits.

Respects salestage of plans, organized and acceptated dauge theory. Reston.

Lecture. Statisticals concerned and development stategast of medicinal plant.

Onlinetics: Techniques of rankiskal plants: Son Monthy Saming, Organic Berning, Nature Genting, Brokopine Saming Speace, Integraled Internitive Section, LESSA, Bodynamic agricultum. Outcom of multivary plants plant chemes, plant and performs relativeship, discuss development stages, nature and does fundated of plant densities. Discusses of multicast plant—8-through and Konvolyte.

Coleonia and precessing of ends degre Havaning, Deptop, Decesion Pathing, Stongy, Autor admittants, Scialardins of evolution plans.

Assumence of boths Medicia-Inditional architect programme, begorisms of plant derived design. WHE problem the monoment of harbil design, objective So increvenents, and instituting.

Course Fills LABORATORY COLLEGE BANGE ON THEORY
Course Code, KTIFFLCT Credit#1

Assessment multi-of not thefe four modelind places.
 Provening Practice of achieved multi-need places, modeling a State Place Discource of conductor places.
 Proposition of Scholands of Landy, one labely places.

Supposed Resilings:
Promotogous — L.K. Esheet, A.F. Parolid and S.S. Orishado
Medid and Phot Colderador-Function and Vego
Ages Technological Studiosad Plants. Parolidas Blueway

गुरु घासीदास विश्वविद्यालय (कोरीमांका क्षेत्र 200 ह 25 ई कोर स्वीर केरी विवास कोनी, बिलासपुर - 495009 (छ.ग.)



Guru Ghasidas Vishwavidyalaya

(A Central Trainersky Established by the Central Trainershies Art 2009 No. 25 of 2009).

Koni, Bilaspur - 495009 (C.G.)

Court Citerials Victorated patrys. Knot Estapas (CC) Senante-reig sylvinos for UC Courte 2001-2022 SYLLARIS AS DEFLOCE

R.S., VISINESTER

CHESE THE NATURAL PRODUCT MANAGEMENT

DOTTERS. Course Code: RTLFTD1 Marks:100 Credit: 94 Learning outcome: On completion of this course, the analysis will be white to: Understand non-Susbar Doese products and their importants. Developmentanding of graces of consent importance.
 Heavily the common means products of plant origin and its production and Definition, contribution of natural products for National Recognity, important non-frailer products of Severation, and their pain in newl-converse and Evellitured. Chaotification and use of gravars, humbon and cause Economic importance of gravace, bandoos and cause Howards oils. Importance of oils and waters in must CONCERN. Tanton and it toos — Wood sames, but turner, fast turner and leaf turners. Dyes-tood, bark, flower and finit-dyes, root dyes leaf dyes, somed dyes, elses of turnish and dyes in Rami industries. Garns and Resine-true garner, hard noise, rice resine, utilizations of grass and resine, gars and sein tapping. Manufacturing of reportine tends, established charcost. Management of Natural Products collection, sucage, utilization pattern of non-limber Course Tale: LABORATORY COURSE BASES ON THROUGY Course Code: B[UFLD] Credital Market 100 Body of level Not lights flavor products (NTFPs).
 Department of dyes.
 To study the source of Tiences, puts and resize. Suggested Routings Non - Under Force Product - S. Nagt. Force Non - Wood Routene - A.P. Dowald. Inflan Force Utilization Vol.- II, FRI Edition SYLLABUS on per LOCY

8.5c. VI STANGSTER

Course Fills: PRIMECT WORKSHISSERTATION

Course Code: RZUTDF6 Course: 10 Market100 SVILEABILS AF DET LOCK BAR, VI SEARISTER Credic 19 Credic 19 Corne Crear Ritting pa Martin 166 194

गुरु घासीदास विश्वविद्यालय (क्षेत्र वेतावन क्षेत्र 200 ह. 2 ई क्षेत्र नक्षेत्र क्षेत्रक) कोनी, बिलासपुर - 495009 (छ.ग.)



Guru Ghasidas Vishwavidyalaya #Genzi Tuteraty istalished by the Genzi Tuteration and Indiana Koni, Bilaspur – 495009 (C.G.)

Department of Rural Tocks stage & Social Development Gara Chaptes Visions Alpalen, Kool Stages (CG) Socialist wise spladus for PG Counce

DEPARTMENT OF RUBAL TECHNOLOGY & SUCIAL DEVELOPMENT, EUROGRAPHAL VISHWAYDMAYA SEMESTER IKZIEMIK

Master of Science of Rural Technology

Subject Code	Chara	Diory.	Societal	Practical .	Mark
REPATCA	Concepts of Statistical Analysis	79	- 50	1+1	180
REPALC-L	Laboratory Comme (Based on BITSATC-I)		39	30	190
BIIMIES	Entwodies, Approint and select for Fund. Development	70	28		See
RITWLC-1	Holl book week Super (Band or BEFATC-2)	1.0	30	.39	180
HIMATO-I	Seriostan	.10	38	-	306
ETPALO-L	Laboratory Causin (Reset on RT FA 70-1)		38	79	100
	OIL			_	
REPORTERS.	License is a total part	10	30	+:	100
KIRMING-S	Laboratory Course (Blassi on REPAUT-2)		30	70:	109
A DEVICE.	National Physics and Processing Techniques	70	30	9	190
ETPMLOJ	Laboratory CommitStant in RTPW90-1)	- 100	36	-78	100
	Total	7.65	7.00	500	100

Jake pt Gardia.

Bepartness of Henri Technology & Serial Development Gura Ghaidha Vohnuridyaloga, Koni-Hilogor (CG) Semanne ette syllalini for PG Course

M. St. D SEMESTER

Cirls	Coete	1 14	do Diserba	Holes	Mate
		There	Serviced	Prostus.	
strenc-t.	Farshments of Note and Plant	.74	30		108
STREET,	Enborates Course (Based on REPRINCE)	-	- 10	90.	100
STPROC.	Concept of Researc Sensing and OFS-1	70	28	-	100
KIRRICG	Laboratory Course Freed on RTPRITE 24	14	38.	79	156
ATITOTAN	Research Mathodology and Dhisto	36	30	47.	10
All title-i	Rasas Weste Monaporare	76	50	-	108
# HTCG-I	Laboratory Course (Smid on KTPRTG-1)	-	26	70	110
11111111111	OR		-		200
*IFFIGE	Soft and West Communica Engineering	39	20	-	100
ETINGG 5	Lancing Come (Builde \$79970-2)	- 41	30	19	34
	Tied	240	200	- 211	230

nem

गुरू घासीदास विश्वविद्यालय विदालन अभिनेतान 2000 हा. 25 वे अंतर्गत न्याप्रीत बेन्द्रीय विवर्णसङ्ख्या । कोनी, बिलासपुर - 495009 (छ.ग.)



Guru Ghasidas Vishwavidyalaya

(A Central Trainersky Established by the Central Trainers (See Act 2009 No. 25 of 2009). Koni, Bilaspur - 495009 (C.G.)

Digar tonat of Raist Technology & Social Revelopment Gyrin Manida Victor molystryn, Rose Edisput (CK) Association one uphabat for PS Course

Sides Cels	Crista		eto Disolo		Mark
1117000	Control of the Contro	There	Sections	PARILIT.	
ERCH	Oraș Personal and Estados	- A	. 30	1	F.00
ETHLES	Laborate Consultation of Physics 1	-	30	19	300
FINCHES.	Geography Technology and the Application	W	E	4.1	100
singuid.	Laborator Course Property STREET, 15	+	- 10	. 10	100
STRUCTURE.	Made and College of the Section 2	*			180
enout.	Laborate Course Diseases (CPCCCL)	-	18	76	780
	08		ALC: -		
attention.	Reducing Technique	79	-30	-	367
SDC10-2	Talveston Court Etropic ETR/TO-G	- 6	100	10	180
STREET, STATE	Inthonoration and Telescopes	74	76	- 41	110
EPELAL	Laboratory County Standard STRUTA-11	-	- 16	30.	100
	Circuits domes and desputations				
ADVISA-L	Territory .	-	- 28	78	- #1
	Total	180	396	110	604

M. In. IV RESIDENTIAL

Balgori	Comme.	H	di Path	Ret	Huto
elmin-t	Competition with	There's	Stellerat.	Deni	700
R TPORC-1	Surgeon Populated Street of Street	38.	Ver-	-	80
			1000		20

Department of Bural Technology &Social Development Gura Ghesidas Viskonoshfyslaya, Koni-Bilaspur (CG) Semester-rain syllation for PG Course

va let

Sylinbay 2021-22

Master of Science of Rural Technology

Course Code: RTPATCI Credit-4 Marks

Learning outcomes

- On completion of the course, the students will be able to:

 Understand concepts of statistics and its applications in various fields.
- Analyze the data and interpret it in logical crasser.

introduction, concept, meaning, definition and importance of statistics, correspond to variables, data coving and decoding, classification (parametric and one parametric), tritulation, prophical and degrammatic representation of nunorical data.

Measurement of control tendency-mean, mode, audian, disputation-Main deviation, Standard

Probability Concept, various definition of probability, Addition theorem of probability, Probability distributions (vtz. Hinemial, Poisson and normal) and their applications.

Coefficient of Variation, Skeweess and Kartonis, Correlation and Ragrantion Analysis, Agalysis of variance (ANOVA).

Sumpling Methods-Statistical Test Hypothesis, Barrier test- 2, 1, Forst Chi square distribution.

M.Sc. I SEMENTER ALCI Credit-1
Course Title: Laboratory Course (Bosed on ETTALCI) Marks: 100 Course Code: RTFALC

Coding and decoding of data.

- Periters based measurement of central tendency
 Periters based measurement of dispersion

- Testing of hypothesis.
 Audity's of variance (AMOVA).
 Te study the statistical software.
 Gagnical representation of numerical data.

An Introduction to Statistical Methods - Gapta C.B. Quantitative approach to eurogerial decision-Hins, L.W. Statistics for Business & Economics, Lawrence R. Moroe. Statistics for Management, Levis, Richard L and David S. Rubin. Fundamentals of Statistics D.N. Elberce, Voera Elbandcard S.

Fred.

Busic concept in statistics, K.S. Kinhwalta

New Course Introduced *Criteria - I* (1.2.1)

10002

गुरू घासीदास विश्वविद्यालय दीर निकारियाला अधिनितर 2000 हा. 25 वें अंतर्गत न्यातित वेन्द्रीर विश्वतियाला) कोनी, बिलासपुर - 495009 (छ.ग.)



Guru Ghasidas Vishwavidyalaya

(A Central Trainersky Established by the Central Trainershies Art 2009 No. 25 of 2009).

Koni, Bilaspur - 495009 (C.G.)

Department of Barrill Inchesings Advant Greet Garte Chesistes Valence-Spakes, Maril Bibago Sensotro-eles apliabas for PC Contro

VISLI DEMONTO Consecutive Control Control Marine Ma DEVELOPMEN

Learning embradure:

On completion of the current, the contents of the other to:

Learning the contents of the current of the contents and of the other processes among the social system.

CONTENTS AND AND SERVICE OF THE OTHER SERVICES. Importor-Delinius, Characterius of insertion, represent of investion to day today tills. Technology delicory -Celebros, mountain decisier process and ferrors that affect of Theire process.

Adoption procure — conveyt, stages in adoption gravers, rate of adoption, adopter comparies, subprovi schemeror into a factor that adoption procure.

Communication—Definition, concepts and rutines models of communication, bories of summer-scaline, buriers is communication, Transfer of Technology — Concept of Technology, Appropriate Technology Definition and the amunication, different blobbs of technology transfers, buriers in Transfers of Technology.

FBA: Deficition, Principles and Approaches of FBA, FBA Tools-Mapping, Traver of mapping social reasonal lead can patient may compute may, tomost with, time bloo-shange and troods, Martis unking, Mobility may. New depress ISSA and FLA-intendentias, financiation, present diffusions between ISSA and FBA, Project approximi-

Course Code (TTV) LC2	Credit	Martin 200
Floid	макей совети: (Онной на)	ASPARCIA:
Told Saxed succeions		
L. Exercise beamfron PSA Approved	ins	
I. To study communication models		
I. To study adoptive process.		
Reference Broke	200000	
Challenging the Profession -		
Human Problems in Trelevalo		net.
Communication of Stefenolog		
Participatory runit appraisal		
Arried (and H. F. S. Arris.		
Periopetery rank appoint in		
Participation most apprecial at Facility particle burneling and acti		cos breez, billiotosper
Participants and exercise		or to cord election
mentions Modification	-	- Last
	(No 12)	a m
	7	1.0
	The A	Office
13	Magazin	444

Department of Board Technology 450 and Development) Chen Charidton Victorian Systems, Kont-Schapen (CC) Seniorian rate syllekos for PG Control

MASA, ESEMBSTER			
Course Code: ETFATEL	Course.	Starte: 100	
	Course Title SERICCE, TURE		

Liversing and research

- Or completion of the content, the students will be after to:

 Collection of the worker of sit production introduce and management.

 Assert various Covers and arbana's programs related to includes.

Grand scitcation: Definition, All types, listing and importance of seriodom, Governorical distribution of nature, species and somewhit make of differents, Government advance, programs related to seriesfrom.

Sante biology of still instern Sciences formancy hand on malberry and non-ex-directy still, watern-Town, Eri and Marqu. He cycle including anothing and reconsequence, Destinant of

Hose plant transgement. Host plants for sortications and that propagation, efflicits of agra-ofmatic conditions on the growth of hast plants in the special reference to scalinery, [Stimmer of molecus plant, Mulkerry post measurement.

Silveous maring: Med home training affiliwers rearing (U.S.B. progress) raided realing branch, Sewing application, distribution, distributions, but observing, feeding of recent, Maintening optimizes condition of moring brooking, frequency of spacing, care decing benefits, photographic contraling and reasoning, process of spacing content featured; particularly distribution of contral or ground age were needing. Later age of lowers storing decording to 100 dB).

For cusion technology and all technology carded of caron techniqued grading, socious stiffing, at any of cascon, defineding, occors reliable, nitrage of cascon, defineding, occors reliable, nitrage of cascon, defineding, occors reliable, nitrage of second at difference ording resolution, ted ing operation, earling and formation, senting and grading of two as his, Department, bearing, department of all years, Triothing, Seering, Revealing, Institute, dealedon, exacting of all its

Course Coder ETPSLOT Credit-1 Marks:100 Course Dife: Laboratory Course Court on STPATO-13

 Other of new places of sills warree.
 Hearther making are just not invaried leavy places.
 Nonly of propagation to the large of fine places.
 Nonly of propagation to the large of fine places.
 Nonly of propagation of determines of sills recycle.
 Hearther of places and produces of places were propagation.
 Hearther of places and produces of places were placed to the place to the place of the large of the lar Ar chair 1392

गुरू घासीदास विश्वविद्यालय दीर निकारियाला अधिनितर 2000 हा. 25 वें अंतर्गत न्यातित वेन्द्रीर विश्वतियाला) कोनी, बिलासपुर - 495009 (छ.ग.)



Guru Ghasidas Vishwavidyalaya

(A Central Trainersky Established by the Central Trainershies Art 2009 No. 25 of 2009).

Koni, Bilaspur - 495009 (C.G.)

Corn Charles Veteral dysters, foot Blance of Co Sensors via official by FC Corns

Reference Books; Seclaritum structurium - Carigo, ili. Inci. Marmoul - PAO Vilamoul Appropriate International - Appropriate International State, Inch. Seclaritum in India: Vol. 3(c) V. IEO. Agreement and SEE, Inch. An International on India: Vol. 3(c) V. IEO. Agreement and SEE, Inch. Principle of Interprete Sectionary - Dr. A.S. Kiensi, Estimatori Publisher

	M.St. TREMESTER	
Serve Code: STP# Not :-	Credit	Merks 100

- Learning on isomer
 On completion of the occurs, the chickens will be able to

 Understand continue in importance of the insent and less produces.

 Continues their incoming and tracking delity to produce for to various loss plants.

Low interest materiary, execute and recognite importance of the entiresteen. Constitution and interplacings and life-syste of law inpertugues of inc insent, industry of late cultivation, area and propagated distribution of law insert, separal facilities of the innest, upper of two and its interactivation.

Lee productive in Autor conveyorem: Introduction, Mariny, juntual Advise, movies and familiations, he learns and oncy, hage-of stegens the least, and conference persons of free persons of familiary persons of free persons of familiary persons of familiary persons of the familiary continues on the familiary persons of the change, torough and marketing of the

Lie probletion in Disphus notwitime baseductine, history, returns beliefe, morite and festications, lie towar and cosp, stages of respects and festion lie, descr., saturation of true, practing of lesse, invadeduc of festions, returned of said up festicities, prin resuspecting, cosp harvesting, complient of the free robbs, principly processing of lie, therape, tensions and marketing of lie.

Let production in Architecture of your introduction, industry, natural factains, muritar and facilitations, lac insect and crap, expect of faceal inc death, arthation of leave, practing of even, association of less year, reported of acoding boxel lac, peri management where and number organ and particularly, accuping of lac lines states, principly presenting of lac, energy, managers and marketing of lac.

Let production in Florangia associated Intenduction, bettery, a stead Indian, movies and finitedors, the bytest and crep; region of formal list insect, propagation and necessary exceptioners, planting and instrused management; producing of terms, baccolation of fixed toto, material of loading brookless, post management in takes and assesses surps, only favorable of severating of the flora selder, privately processing of law, though, temporal and authority of law.



Department of Baral Technology & Social Secretopinal Corn Clouden Vickranity steps. Kom Biospar (CG) Seasons with religious for PG Course

and the second s	MUSEL STANDENTER	
Course Code: RTPVLCII	Credit-I	Maries 1999
Cases Title	Laboratory Course (Bosed on E)	HW013F

- identification and perpendion of defined box plants for his natibution. Selection and insculation of broades; in fact plant.

 Removal of cooling broades which they have plants.

 Proceedings of his.

 Let amp potention.

- 6. Study of equipment used in languativation.
 7. Memiliance of languages audits are go.

HATANESSE BANGES

Chapters: The Investor, materials and function (4th of, 1991, ELEC)

Jennic A general test book of controllings, 2 and, (1991, Anda publishing factors)

Megawire Estated Estimating, 9(2011, Oxford Unit Perss)

Structure: A trefficial of applied extensions, vol.1 dt. vol. 11 (1991, Ealyani

Structure: A trefficial of applied extensions, vol.1 dt. vol. 11 (1991, Ealyani

Testing of the controlled of applied extensions, vol.1 dt. vol. 11 (1991, Ealyani

Testing of the controlled of applied extensions). publishern publishers)
The freest, Flument Annu and G. S. Dariusal
After of Technic Lass, AJB Passad Line,
Lass editivation in India M.G. Kamath
A kandhook of shallor Mulipois, O.N Bhathefunya and P. K. Benn.

	M.Sc. LSEMESTER	20 at 3 25 A count
Cow'er Code: #TEPATOR	Credit-4	Marks III
Course Title NATURAL	PRODUCT AND PROCESSIVE	THE BUNGOIDES

Learning natougus

(in completion of the owners, the stationar will be able to:

- Codestant different types of natural products and its importance.
 Land processing of important natural products.

Natural products: introduction, plants as a source of various products, types of salessi products, statural products and britis competion, dependence of trites on facus, various excited of softenion, stempt and marketing of annual products,

Flow breederies, classification of filess, plant origin filess, types, study of custom, has and jum files, various film induction and resource; experience.

Omer and Rada. Introduction, classification, physical and chemical compension, plant origin gars and radas, collection techniques, pracessing and occurate in importunite.

Ope: Source, types of type, characted source, characteristics of restand dyes, preparation of referred dyes, extraoriers of dyes, processing and man.

गुरु घासीदास विश्वविद्यालय (क्षेत्र क्षेत्रका क्षेत्र 200 ह 25 व क्षेत्र क्षेत्रका) कोनी, बिलासपुर - 495009 (छ.ग.)



Guru Ghasidas Vishwavidyalaya

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

Koni, Bilaspur - 495009 (C.G.)

Department of Reral Technology & Social Development Gura Ghasifas Vadwavidyalaya, Kosi-Bilayne (CG) Somester-wise syllabus for PG Caurge

Course Code: RTPALOI Credit-1 Marks 100
Laboratory course (Based on RTPATOI)

Laboratory exercises.

- I destribution of fibre producing plants.
- Study of fibre processing techniques.
- Mentification of guru producing plants & characteristics.
- Tapping & collection of guns from various plant sources.
- Study of various types of resin & their sources
- Identification of dye producing plants.
- Study on dye preparation techniques.
- Microscopic study of fibres.
- 9. Preparation of herbaria.

John Out Contra

Dopartment of Raral Technology & Social Development Grow Charidas Vishmusidyntaya, Kosi-Bilaspar (CG) Sanuster whe syllabas for PG Course

> Mosor of Scionce of Rural Turbusings Second Semester

	M.Sc. II SEMESTER	
Conver Code: R TPRT [1]	Credit-4	Marks: 100
Course Title: FUN	DAMENTALS OF MEDICINAL	PLANTS

Learning outcomes

On completion of the course, the students will be able to:

- Understand medicinal important of secondary restabilities of plants.
- Learn the Government policies and marketing potential of crude drugs.

Methods of plant classification, Texonomic keys, Hiebarian, Texonomic study of important plant femilies of Chiumiquah with special reference to family Assimpliadaceae, Aplanton, Chempochaceae, Esphorbiaceae, Combretaceae, Liliaceae.

Medicinal plant found in Chiattagarh: General aspects and Medicinal values of Angle marrelloss, Circumonum sps., Glorious asperba, Josepou nil, Macusu prarties: Plant signate, Fiest nigotalo.

Alkaloids Properties, isolation and extraction, classification and alkaloid containing drug; Terpenes and Terpeneids: Properties, Isolation, classification and drugs containing terpeness and terpeneids.

Timeins: Properties, isolation and extraction, cherification and timein containing sings. Marine sing: Properties, classification uses; Mineral drug Sources, constituents and uses.

Logishtion and policy of medicinel plants: National and State Medicinal Plant Board, Conservation of medicinal plants, Merket potential of creak deeps, Goals of redicinal policy, Entere action plans.

Reference Books

Medicinal plants of India Vol.1 & 2 ICAR - Kirtiker & Bren.
Compendium of Indian Medicinal plants Vol.1-4 - R. P. Bartogi & B.N. Mainettra.
Bellipenous medicinal specialise - U.S. Nirrayan Baz.
Useful plant of Newtopical origin - Holug Bracher.
Cottivation and utilization of Arometic plants - C.K. Atal and B.M. Kapoer.
Cottivation and utilization of medicinal plants - C.K. Atal and B.M. Kapoer.
Plant Taxonomy- O.P. Starms

Emertial of Plant Taxonomy and Boology-M.P. Singh and S.G. Abbert

...

गुरू घासीदास विश्वविद्यालय दीर निकारियाला अधिनितर 2000 हा. 25 वे अंतर्गत न्यारित वेन्द्रीर किरवीरवाला) कोनी, बिलासपुर - 495009 (छ.ग.)



Guru Ghasidas Vishwavidyalaya

(A Central Trainersky Established by the Central Trainershies Art 2009 No. 25 of 2009).

Koni, Bilaspur - 495009 (C.G.)

Engantment of Rand Technology d Scalal Revelopment Gara Unseites Falcinarity atom, Nove-Bitegar (CU) Sections: who pfollow for PO Course

Course Code: RETRICE: Copple.1
Course Code: RETRICE: Copple.1

- Study of healty available places of families Aschangianess, Agianus, Chryspelliness, Feybratherest, Condomness, Lilentess.
 In their counts in process, dimensional to the City Adultation.
 To study counts in process, demonstrate to the City Adultation.
 To study counts in process, demonstrate to the City Tension and Temperation.
 To study assumed process, demonstrate to the City Tension.
 To study assumed an alternative and their tens.

MASS, II SEMISTER
Crem Coin 9175TC3 Code 4
Course Title: CONCEPTS OF RESIGNE SCHOOL AND COS. F

Dr. complimies of the source, the students will be able to

- Understand the concept and application of ser to seeing and IDS collected
- · Learn the basic of smaller insigns and topostoon

Courses of Remore Sensing with translations, thely History, frampy Sustant & Ballation Principles, Dange Instantance in strengthers, Courge Instantions with ourth Auflier Statute, Spectral Reference of registrion, Self-& water.

Sport to Suckey work for, Karth Resource sale like, Owner seatting, Representation small free, Earthout costs if to ests, and their se

Photogramatuhy-hamilation, Types of Assist Flumpaulis, methoding UAV, Earlie principles of Checkgramonery, Geotocy of a satisful satisful distinguish, photographic Social, Applications of revision and photograph. Photography: Constitutions, common and untaken, influence of districts, values, believes or district repropally, and flumpative tonday.

Digité bespir Feversing (BEF)-ferodatier, Pro-praessing of augu-tempe interpretation, Georettic & Radoniusto-Coversius, Resolution, Image Enhancement, Curtisat Stooding, Filters, Edge Enhancement.

Microsco Hannis Section-Introduction, seconds, Scitzarania, radar operating principles, synthetis apresion HADAR, talket retone and image signatures, radar image cleanates (see, belond LIDAR).

a for the

Department of Basel Technology & Social Development Gern Glassidas Vickerzülfpütest, New Edispus (EU) Someter-wise syllation for PU, Course

25-20-3 (COST)	MASO SESSONSSTER	71575
Cierry Code EJPREC2	Credit-I	Marke 180
Crans Title	Lateratory Course (Bland on H1991122)	

- 1. Geometric and endowered: exerction of satellite data, happy subsequents techniques.
- Georgica and indirectals, consistent of safellite data, hence enhancement techniques, Park, bit overgonant analysis.

 I hencevind charalforties, Supervised charalforties achieves (Marchine Barbeio), remost simple for and artificial nearest need-west classification in Vegeration indirect.

 J. Consistent of displace enhancement need-through motion of publications and confirm systems of applications and confirm of motions.

 Digitations of different features of given improduces. Editing attributes of givi-details and
- Surgers. Creating different Sessions like polygon like, tik., polyfine om.
- 5. Creation of personal gen-distribute

Rationesce Books
Ration Geolog - Principles A mangenation - P.F. Edition
Digital Research Sensing - Ex. P. Nag. Dr. M. Kielen
Principles of Terrait Sensing - F.J. Carrier.
Disciss of Sensing Sensing - F.J. Carrier.
Disciss of Sensing Sensing - S. Anoghi
Backs of Sensing Sensing and philogrammary - Liftiand

MAGNISEMISTER M.Sc. II SEMINTER

Cuarse Code: KIPEEAL Code: 2 Hart

Course Title: BISEARCH METRICULORY AND ETRICS

Learning culturates

On completion of the exercit, the insteam will be able to

- Colorate (the same: type and imperiors of remark a rehability and office.
 Apply assures mathebology procedure according to their same of research.

Research, types of mesorch, Nature, scope of mesorch and important of retracti-nathrackings, maps of salestific impairy and early of occial photomerors, research problems, orbitals for likerification of mesorch problems, Estimatedors and supercord of research objectives.

Dipolibrati. Mesening and erin is sensest, type of hypothesis, testing of hypothesis, needed of data solloctus, level of associations, data soutces; observational and nervey mathods, uses mailes, types of schoolals, questionnesses.

Receased Studge—Exploratory, Assuratives, and respective and expectation findings, qualitative and quantitative retearch. Complete Bandawined Block Design (CHII), Mandamized Block Design (BUD), Letter Squares Design (LSD) and Describe design.

White 11

गुरू घासीदास विश्वविद्यालय दीर निकारियाला अधिनितर 2000 हा. 25 वें अंतर्गत न्यातित वेन्द्रीर विश्वतियाला) कोनी, बिलासपुर - 495009 (छ.ग.)



Guru Ghasidas Vishwavidyalaya

(A Central Trainersky Established by the Central Trainershies Art 2009 No. 25 of 2009).

Koni, Bilaspur - 495009 (C.G.)

Department of Rend Technology & Smith Secologousis Gera Gracian Videoscolychers, Rend Editoper (Civil Schnetze-vine efficient In Course

Scounds repeting and ocientific writing. Preparation of meanth proposal, compilation of thesis, disturration, excepting biolography, expents, compilation of vessuch paper, paper presentation, respectively.

Reference Buoks

Servey Mathad Exploring renderal Exploring renderal Relatives the servine full fluence and discounting V[®] Edition. Pandamentals of States on

Corne Codes ROMOND SEASON OF THE CONTROL OF THE CON Mirin III CORNEL OF STREET, WASTE WAS ACCUMENT

On completion of the country, the stations will be able to:

- Augration solution and water start congress.
 Augratificant subols of water management.

invarianties of Runii wase, Type of mens, different methods of symmetric softening and disposal of source, Types of sever.

County of sweeps treatment, principle of primary, according treatment and Testing treatment of restriction of security control of security and treatment of the COUNTY of

Band Septimine. From oil soft and people regar for demantic purposes, collection and disposal of day refuse authorises and disposal of day refuse authorises and disposal of large and refuse carriage. Construction of law and between in read stress. Septic tools, wash jets, prive jet and bore hole givey, can prive, contents could prive, again prive, 1984,3 between

Water voter management-porference acteds for wors noter consequently system, because distings plan, classification of imps. Fung. O-imp. S and, flow imp., polly imp. in accepting top, grown top, principle for of sound durings system.

belof wests management checkbooks of solid wasts, quantity and composition of orthoc-milaction and returnal of solars, transport of soliton disposed of tribut-constraints of solars, transporting and transporting to transporting compositing to predict the solution of transporting compositing adopted in below. Hugas authorizing-comparise of larges, types of length plant recognised by MNTS (Milating of New constraints) from constraints of transporting the solution of the constraints. Con the Obs.

Department of Right Technology diffracts: Development Chen Chamita, Vylke avidyaleya, Kani Shaqor (174) Symalis: www.pflaton for PG Cleans

Create Code: ETPERIA Code 9
Course Table: Cademony Course (Geoder & CTPE TO)

To stocky types of most countries.
 To stocky the physical president of mosts water.
 To stocky the having basel reconnect of mosts water.
 To stocky the channel of the physical or stocky.
 To stocky the channel of the restrict of furnite water.
 Whit is retrained plants.

for the study begins recharding a freedal material against.

To study insulfit explose of solid mean assumptions.

To study vertices material of price.

To study begins believing an orbit material assumptions.

Reference Rooks

Respect N.C., Water Supply & Santrary Engineering, Chandre Publishing, Massas,
Continues, Single, Water Supply & Santrary Engineering, Standard Publishins
Destructure, Delta,
Clay, S.S., Went Supply Engineering, Missans Full Indexs, Delta,
Gapo, D.Y., Went Supply Engineering, Missans Full Indexs, Delta,
Sophy, D.Y., Wenter Engils & Bershoy, Engineering, Asians Full-Salary,
Macofference

MicroTomogor Madi, E.Jo., Wuser Supply Engineering, Standard Hook House, Dellai

M.Sc. II SERRISTEN
Confeed Corne Title: SOIL AND WATER CHANGE LATION ENGINEERING

On completion of the course, the exchests with the able to:

Deletion de sel francise, sel prelle, sel present sel déliment que effect mention.
 Uniteritad les bais courses et est enter-construction and expensive transportent.

Self-Deficition, Sed at a time plane system, Self-Pinet-Prince relationships and secretary content, and profile, steering, read rates, personny, and numers, unit observer and physics of secretary.

limic unsign at our communication of our service, and two extension, compared sentitled to extension, went technical, and makes of retablic multidy and consisting.

Planting theigh commercious and maintenance of waver between the land, and not sent commerce structure. US applicable to Planting, designing commercials and maintenance of some between distances.

गुरू घासीदास विश्वविद्यालय निकारियाला अधिनिका 2000 हा. 25 वें अंतर्पत नवादित केन्द्रिय विवर्धियाला) कोनी, बिलासपुर - 495009 (छ.ग.)



Guru Ghasidas Vishwavidyalaya

(A Central Trainersky Established by the Central Trainershies Art 2009 No. 25 of 2009).

Koni, Bilaspur - 495009 (C.G.)

Department of Rural Technology & Social Development Gern Ghasides Vickwavidyataya, Kass-Bitasper (CG) Semester-wise syllabors for PG Course

Watershod management concept-objectives, characterization, type of watershed, planning, execution, integrated community participation and evaluation, GIS application in watershed menagement

Impution- Definition, Types of impution, Source of irrigation water. Irrigation methods and efficiencies, Desissage - Definition, surface and sub-surface drainage, factors influencing distance.

Course Code: HTPSTU2 Marks too Laboratory course (Based on RTPSTG2)

Laboratory expresses:

- 1. Study of different water harvesting structure.
- Study of GIS Application is watershed management Study of different components of sprinkler and drip intigation system
- Study of continuous and staggered contour trenches
 Study of different components of farm point
- 6. Water budgeting.

Reference Books

Introduction to soil and water conservation engineering, Mal, B C, Kalyani

Introduction to soil and water conservation organization, that, if C., publishess
Irrigation Engineering-Agarwal G.D., B. Bhace Protection, Memet.
Irrigation Engineering, -Model P.N., Standard Book House, Delhi,
Irrigation Engineering, -De. Bharat Singh, Nem Chand & Brox., Roorkov
Introductory Soil Science, Dilly Kenny Day, Kolyoni Pablishees.
Soil and water conservation orginaming, R. Suesch Impation: Thosey and practices, A.M. Michael

Begartmant of Heral Technology & Social Development Gern Ghesides Videousleystern, Kaci-Hillagor (US) Symmetri-wise syllabus for PG Course.

Matter of Science of Baral Technology

Third Semester M.St. III SEMENTER Course Code: 8170 313 CHARGE DRUG PERMICE ATTEM AND EXTRACTION Marke: 500 Learning outcomes.

On completion of the course, the students will be able to:

- Undergood the constitution of drop and drop delivery root
- Local drug formulation and connection processes are

httoductor in Dange forms. Desirable properties, alterification and application of design forms, Non-dang delivery system.

Principles and methods of extention, theory of their extention, Hydro-chicidation, expension, quity successes of extention of the macetoism, digestion, provide tion, administrat, expensional field extention, other extention methods.

Abstratic Flatter Holory, Reviews potential, Industrial significance, medicinal coun-cultivation and management of assessin plants - Compten, Citronella, Buccelypton, Lavendon, Lamontzman, Wilton, Valmanova, Sandidecod

Analysiusi pharmacogocy- Drug adultomios, Drug chefordury marphringical, microscopic, observed. Thyrachemical investigation, physical, biological evaluation, hepsisposiostres univers, hypothesis univers, antifertility testing.

Drug formulation Pharmacoposist propositions, principles and methods of preparation of scenario metros, spirits, effects, symps, discharc retailor and special preparation of

nements welves, spirits, effects, system district and special geographics of productions.

MSs. III SEMINSTER

Course Code: SEMILE:

Course Thir. Laboratory Control. Hands on EUR VIII

1 Study of matrical plant and type; not used to Eddors medicine.

5 Courseline and Schimber of Newlypins, Lamoranguas, Miles, Southelespool.

5 Executions of white at Laboratory of Lapain.

6 Formation of Authority, Code out that the remain, albedoid, execution, parameters.

6 Execution of Authority, Code out that the remain, albedoid, execution, parameters.

6 Execution of anticional plants by Newlett particle, Distriction method.

7. Drug formatical activity of confidence.

New Course Introduced

Criteria - I (1.2.1)

गुरू घासीदास विश्वविद्यालय दीर निकारिकाल अधिनियम 2000 इ. 25 वे अंतर्गत न्याप्रीत केन्द्रीर किरवीरकाल) कोनी, बिलासपुर - 495009 (छ.ग.)



Guru Ghasidas Vishwavidyalaya

(A Central Trainersky Established by the Central Trainers (See Act 2009 No. 25 of 2009).

Koni, Bilaspur - 495009 (C.G.)

Regardment of thoust Timboutogy Albertal Development Guess Ghandes Victoratidyslam, New Milayon (US) Summing with splintum for PG Course.

Pharmacoppecy - Transe & Pranti.
Promocoppecy - Goldenia, boltet A Pharmia.
Carbivation and Unification of Arterials plants - L.E. Ando RAN Elegen.
Psychosomal Pharmacy - July & Sterma.
Arterials Pharmacy - Latt & Sterma.
Medicinal Pharmacy - Latt & Sterma.
Medicinal Pharmacy - Latt & Sterma.
Arterials Pharmacy - Date S. Nazak, P.P. Act, U. Medicus, A. Joseph and K. Freeph
Companding of Phalmacy Medicinal plants Vol 1.4 S.P. Raskopik B.M. Melecon.

M.S. III SEMIOTEM
Course Color PTW-TC] Crost-4 March. 109
Course Title: GEOSPATEAL TECHNOLOGY AND ITS APPLICATION

On completion of the country, the students will be able to

- Understand the books recognized GPS and GS.
 Court the doctors in a large many system and applications.

Basics of OS: Definition, components of 60% DRMS: data base approach, advantage will devolved any, data model - classic data model, interactional data model, network and relational data models, resting a marginistics techniques.

Types of class structure, rather and secure Partnet, image data forces: — 1900; BH, BHP, advantage and disadvantage of venture, that structure, that imput "displacation and naturalize resolvant, and GH, stop projection, advantage of ratio, introduction to GHS and DGHS in application.

Applicables of meets centring and IES – Magning and machinering of head one hard cover, Sons restores management, principal and approaches of cosp production functioning, and characteristics, surbon hydrology analysis.

Lither set first are planting — when set could are quark and charge detection modes, produces administration into addition around by — performs, transportation inspector system, range and other facilities.

Course Code: #175247 Course Code: #175247 Nigeria: 109 Control Title: Laboratory Conne (Based on REPUTCIS)

Precision tended on Austrillia and OCBS
 To personal replaced buffers only - MANL ROWL HERE, BANK
 The Austrian and Interpolation and death for map Royale

गुरू घासीदास विश्वविद्यालय दीर निकारिकारा अभिनेता 2000 हा 25 वे अंतर्गत न्यारित वेन्द्रीर विश्वतिकार) कोनी, बिलासपुर - 495009 (छ.ग.)



Guru Ghasidas Vishwavidyalaya

(A Central Trainersky Established by the Central Trainershies Art 2009 No. 25 of 2009).

Koni, Bilaspur - 495009 (C.G.)

Reportment of Horse Technology & Social Servicionesis Guern Glassicks, Vicknowsky steps, Koni Educato (C.G.) Sentertor-mini sylladası dar PG Courte

6 Saffan malyda.

April Properties. 6. Creation of personal on I gravitate have

Befermon Books
Foreon Sensing - Principles & interpretation - F.F. Sale on
Digital Sensor Sensing - Dr. P. Vog., Dr. M. Karlest
Principles of Remails Sensing - F.J. Comm.

Course Code: SUPERIOR MASS III SEMENTER FRONT (PC)
Course Code: SUPERIOR CONTRACTOR TEXTS (PC)
Course Title: MESSERGER CONTRACTOR TEXTS (PC)

On completion of the sevens, the renders, will be able for

- Understand the Importance of Single Cell Process
 Laure the construction production of magisteress and its constraining processes.

Imministrat, General therestotistics of Mexicone, biblios of mathetices outliveness, bissings of methodome, Numericanian of enablescent, Numericanian and enablescent Sections and an authorization of the palanting of the methodome and its subdivision in helio and worth.

Califordion technology, infrastructure, equipments and substates in structures; cultivative, maximum unit or studiesmi locat, pure culture, Egypere, propositive of agrees, mis materials for the subfluidos of multimore, Compres metimals most for amount proposition, are post-substancing in mediatoring in mediatoring proposition, Cashing new material, and for cooling, proposition of uning metrics.

Cottendon of transmiss materians. General process for the collisions of Agoreus Rayonus, Plancius coloratio, Calender Johns, 1980/chills reference and Gonzalonia Institute, Plats and Fologram of inclusions and Ball an angiorest.

Storage and Deal proparation from restrictions. Methods of storage of meditories, Long term and start term storage of meditories. Funda/recipes from standardness, bloadcross, storacts, status films: Medical fundami aspiral forms, Multipling of medicories in India and world.

Croft-5 Markettel
(Adamstry-crosse (Rend on RECULE)) Course Circles STREAM Informer Engineer



Separtment of Barat Technology & Social Secretarions Govern Glassica Ved variety (1976), Keel-Disaper (CG) Secretarion of Subar Set Fig. Co. 10

-). Experiment solven and controllers

- Transmission of tadjum analysis and worker culture.
 Proposition of species Covins species. Some group, launched species.
 Proposition of company and known analysis to their behinds
 Code industry procedure. In Algorithm Suppose.
 Code industry procedure for Algorithm Suppose.
 Code industry procedure for Algorithm Suppose.
 Code industry procedure for Algorithm Suppose.
 Code industry and an one-door method for industrian of Followinskin subharmers.
 Code industry for Conscitation Suppose.
 Code industrian procedure for Conscitation Suppose.
 If Notingo and preserved on all meditation.

Reference Baselos
The Mentercon Identifier- David Pagio & S. Spranne
Madroum Cultivation 6. Trigate & S. P. Stok in
Madroum Cultivation 6. Trigate & S. P. Stok in
Madroum Cultivation 6. Trigate
A functional of Distriction

Miss INSPONENTEE Course Codes STREET Marky 500 Course Code: SERVICE CONTROL SERVICE THE SERVICE CONTROL SERVI

On accomplations of the converse, the acciding will be able to:

I fillularisate in accordance representation and applicable benefits of benchmarks.

I fillularisate in accordance representation of the conference and according to the conference and accordance and technologies, and according place in both, transfers of freedompting, knowly the products, extend of market of the products, and one of work, the world of benchmarks to the products, and one of work, the world of benchmarks to the products of the

Serbophing equipments: Fluid could blies, movimie-could lives, normalization graining blies. Besthophing equipments: Fluid could blies, movimie-could lives, moveable-fluins. Illivia, appeal and could reside against the fluid lives better the state of the could be stated be stated by the state of the could be stated be stated by the could be stated be stated by the state of the could be stated by the could be stated by the stated by the stated by the stated be stated by the s

the solution and assumpment Schedist of airs, stading a solution, establishment of a berliev-capacitag a season of loss, parties a participal for colony, using acclosed division of colony, sispecting the low evinery reflect measures, placy measures, placy measurements to have been proposed as the solution of the solution of colonial colorial colonial c

Sorting and protection wasseparanted the broading and sports matting has broading, making if sports being types of sports rearing, being placed brish of sports rearing, being production of most are made, production of being sportly growers, workeds of spoots rearing. Alloy's method, Millar's

a little

गुरू घासीदास विश्वविद्यालय न्द्रीय निकारिकाला अधिनियम 2009 इ. 25 वे अंतर्गत न्याप्रीत केन्द्रीय विकारिकाला) कोनी, बिलासपुर - 495009 (छ.ग.)



Guru Ghasidas Vishwavidyalaya

(A Central Trainersky Established by the Central Trainers (See Act 2009 No. 25 of 2009).

Koni, Bilaspur - 495009 (C.G.)

Bepariment of Borst Trek sebay & Seein Development Gara (Standar Vehrwedyslan, Kon-Bhoper (CTI) Benneter wise syllabor for PG Course

gettet, grafting racked (Declarie method); pure rearring that cable, quare call builder, instanced insertication, replyments, copy, hearfit at the breeding, regarder of the unbrillet, registery buildering problems, various personal document of heary best and their marginiti.

Investing, proceeding and numbering of her produces. Collection of number and hence, burveting of honey, composition of faily shared honey, physical proportion of larger, gradient, of honey, packaging and detailing, sum of honey, invester, homey standards, lattice bows regulations, how wars composition and property, precessing, some of her nate, her reconstructions, production, was a propolle appeals and before technology, proportion and sum-ored pill-proportion, prediction and aust, politer-composition, polite collecting technology, marketing of the products, constraints is leavely gendration, prevenues at themses and politics related to besideeping.

Contro Code \$1993.07 | Confe-1 | Marker 500 |
Contro Code \$1993.07 | Confe-1 | Confe-1

- Identification of bump hos.
 Soidy of epidements used in her keeping.
 Soidy of epidements used in her keeping.
 Soidy of methods of queen reading halfs dyon.
 Soidy of contraction and processing of history.
 Moreovery, all of Dennit ped less.
 Soidy of Officiars deprend conditions of history here.
 Moreovery, and of the bump hos.
 Soidy of Officiars deprend conditions of history here.
 Moreovery, and the history hos.
 Soidy of Officiars deprend conditions of history here.
 Soidy of Denny Leading.

Rothermon Smoker.

Chapman: The Source: caracters and function 94° ed., 1995, IEEE'S)

Lattice A general treal feeds of the smoothings, 2 cold. (1997), Anthr particulating function began for Examinatin Encountings 92791. Collected Units Pressil.

Solventure, A continued of applied antimology, vol. 1,8 and 11(1997). Rothermi publishers/

The Institut S anniel. A stress self-15. S final and

The World of Felousy Ros. A SAGAN.

Rothermy For Source S

गुरू घासीदास विश्वविद्यालय कारत अधिनिक 2000 क. 25 वे अंतर्गत नवतीत केन्द्रीय किर्योगकार) कोनी, बिलासपुर - 495009 (छ.ग.)



Guru Ghasidas Vishwavidyalaya

(A Central Trainersky Established by the Central Trainershies Art 2009 No. 25 of 2009).

Koni, Bilaspur - 495009 (C.G.)

Department of Royal Yerknology & Social Development Gure Gheekhu Vukranidyabyu, Koni Blimper (CL) Sensoter-rein sellulos for PG Course

M.Sc. III SEMESTER Course Code: RTPCTAL CORNE THE INSTRUMENTATION AND TECHNIQUES

On completion of the course, the students will be ablum.

- Understood principle and fundaming of values instrument governity tood is strap evaluations.
- Enhance their technical skills on dish preparation

Principle, tractice, fractioning and againston. Type of natroscopy Light nicroscopy. These courset recreasely, Thereselve natroscopy, Transcontant Electron Microscopy (EEM) and Scanning Electron Microscopy (SEM).

Hadingheresis Principle of elemanhorsis, types of elemanhorsis, finites affecting regarders, standing is gol dischaphorsis, application of electrophorsis.

Certifiagation-Principle of certifiagation, Types of countflate, Types of catery, Caring of colors, Determination of centrifical force, Notice this of column organic

Spectrophotomotry: Noticiple, Translocing and application of estimatory, LTV-Via appearage-tensory, Decimalry and stands absorption spectrophotomotry.

Microscopy and Histology-Handling of datasts for puberhopical studies, Rossay microscope and its working, Filedon and Studieng, Histological booksystem and its significance

Credit-L Cuarta Code ETPCLAT Marks 108 Laboratory course (Based on ATECTAT)

Laboratory member:

- Dependent of Malayan committees and Constitute paper chromosopalty and

electrophonesis

1. Sucherorist markets of samples using open implementate

1. Such control markets of para constraints and it.

Subsection in the properties of para constraints and it.

Subsection in the processing and Charlesgo-VK Stateria

States, frame processing and Charle

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

Instrumental Method of Chemical Analysis- BK Sharma Principles and Techniques of Practical Biochemistry- Keith Wilson and John

Laboratory Techniques-Swaroop and Pathak. Instrumental Analysis for Science and Technology-W Faren Instrumental Method of Analysis- Willard Merritt, Dean and Sottle

M.Sc. III SEMESTER Marks: 50 Course Code: RTPCSA1 Credit-1 Course Title: SEMINAR

32 null Carpen.

गुरू घासीदास विश्वविद्यालय निकारियाला अधिनेतर 2000 हा 25 वे अंतर्गत स्वाहित केन्द्रिय विवाहियाला) कोनी, बिलासपुर - 495009 (छ.ग.)



Guru Ghasidas Vishwavidyalaya

(A Central Trainersky Established by the Central Trainershies Art 2009 No. 25 of 2009).

Koni, Bilaspur - 495009 (C.G.)

Department of Sarul Technology School Development Guern Glassidin Valencidadera, Cari Oliopea (CC) Sententia sele-19 fiches he PS Course

M.St. IV SEMESTER Credit-i Course Into COMPLER APPLICATION Marks 166

the completion of the owerse, the students will be able to

- . Lown basin of Hardware and Sufe
- Use the complete to propore index documents

Elementary (providing of Computer Communists of computers, Commission of Computers, Standards and Application, Landards of computers,

Types of coopelets, Types of Passesses, Input and Caput Devices, Memory, valetin and non-valed is and couch messer?

Umbhase and its mergerant, influence selevels and network begoings, Most reports, see private, ring extreols, his private.

Application, MS offices, Creating, Follow, and sorring that, the or interior transfers and other function, transfers, could video and francisco, industries, power principles.

Computer Applications for East Development constitute. Bole of computer reference to Rand Development.

Ratherman Eurobei
Companium mysioleminer and Aminim-Payl Chandbasi
Companium mysioleminer and Aminim-Payl Chandbasi
Franklusserial of Companium and Aminim-Basic Mediumpias
Franklusserial of Companium and anothermatic Mediumpias
Franklusserial of Companium and Aminima Mediumpias
A March Companium and planting Desirana. Admin. D. Desiran
A March Companium and planting Desirana.

MASS OF SEMESTER Course Code | Course Tole CATEGORIAN CATEGORIA

- Asserting pathonical to control the embeds will be white our to complete of this control to and position of an enterprise in Machanital one parameters in and position of an enterprise in Machanital control of the enterprise of the embeds of the enterprise of the enterprise

part publics of the control of the c

By a channel of Narral Technology 45 and Development Gurn Ghavilla Vickersteilsche, Kone Margary (17) Stransfer-wire ryfiches for PG Course

compromensing Development to Julia History, Deveronsessing development Programme, jugantance of Enterphysicansky Development, Octob of 1229, Physican (1229, Polyholm).

Women Laboration dep-Concept, Factors indicately of Women Enterpresentate, blade vi. Women Enterpresentation, Problems of Women Enterpresentation, Resource Measures, Score and Oppostunities for Women Enterpresents.

Stating a MSMI. Bodinin kits, Proposition of Pediations y Pagest Report, Detailed Respect, Location, Apply for Repidence, Apply for time, Apply the seconds, place order for Machinery, Armagement of Power, Innovation, Georgeone Chemical, Procusation of Serv. Married.

Start Dec. Investation, Start, as Initialized by the removal. Montest, Associations Incidences, Secretal of Finance for start-tipe, Indian, Recording for Secretal, Start-Up-Interesting in India. Press for concenting Sele Propolationing, patternish to expensions.

Believesce Books:

M.D. Shakha i Facesprenousling and Small Business Managament, Kitch Mohall S.S. Kanka: Entragressaulid Development: Presente Chercher Project Phening, Australia, Soloccies, Implementation and Review Tala Moham, H.B. Vasantia Dessi: Optimize of Entragrapmental Development C.B. Ougas & N.P. Somehovan: Entragrammind Development Netted N. Gupte: Small Industry — Challenger and Perspectives.

20, St. DY SEMBOUTER

Credit-15 Sabject Cater #1710C1 Martic em (Filests Evaluation 200+ Viva-tore 200)

Dissertation must be computerly for all analysis. Students will have Electly to complete backer dissertation search other in the Department or any other Department or Institution III students desired to emplote higher dissertation work outside the Reportment backer will have been all opposes.