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CERTIFICATE COURSE UNDER INITIATIVE OF THE INSTITUTE

PGDCA PROGRAMME RECOGNIZED BY DIBRUGARH UNIVERSITY

LIST OF ADD ON/ CERTIFICATE/VALUE ADDED PROGRAMS OFFERED DURING THE LAST FIVE YEARS

ADD ON COURSE UNDER DIBRUGARH UNIVERSITY
❖ LED bulb repairing technician
❖ Vermi- Compost Production Training Course
❖ Soft Skill Course
❖ Life Skill Course
❖ Tea Processing with special emphasis on Green & Specialty Tea
❖ Computer basis with special knowledge on MS office and Internet Susceptibility
❖ Sustainable Development of Solid Waste Management Course
❖ Certificate Course in Bioinformatics
UNDER NATIONAL SKILL DEVELOPMENT CORPORATION (NSDC)
❖ Vermicompost Producer (PMKVY 3.0 SCHEME)
❖ LED Light repairing technician (PMKVY 3.0 SCHEME)
UNDER COMMUNITY COLLEGE, JKM(NSDC sponsored)
❖ Horticulture in Nursery Management(
❖ Diploma in Tea Plantation and Management
❖ Bachelor of Vocation in Small Tea Garden Management and Plantation
INTIATIVE OF THE INSTITUTE
❖ Cutting and Embroidery
❖ Spoken English
PGDCA Programme recognized by Dibrugarh University

ADD ON COURSE UNDER DIBRUGARH UNIVERSITY

APPROVAL LETTER



DIBRUGARH OFFICE OF THE REGISTRAR :: DIBRUGARH UNIVERSITY Date: 20/4/2022 Ref. No. DU/DR-A/6-1/22/417

NOTIFICATION

Under Report to the Under Graduate Board and Academic Council, Dibrugarh University, the Hon'ble Vice Chancellor i/c, Dibrugarh University is pleased to approve the following subjects as Addon-Courses to be offered by Jorhat Kendriya Mahavidyalaya, Jorhat w.e.f. the Academic Session 2021-2022.

SI No	Title of the Add-on-course	Duration	Department
1	LED bulb repairing technician	3 months	Physics Department in collaboration with Community College.
2	Vermi-compost Production Training Course	3 months	Zoology Department in collaboration with Community College.
3	Soft Skill Course	3 months	English & Assamese.
4	Life Skill Course	3 months	Education & Sociology
5	Tea Processing with special emphasis on Green & Specialty Tea	3 months	Botany Department in collaboration with Community College.
6	Computer basics with special knowledge on MS office and Internet Susceptibility.	3 months	Computer Science
7	Sustainable Development of Solid Waste Management Course.	3 months	Chemistry
8	Certificate course in Bioinformatics.	6 months	Botany

Issued with due approval.

(Dr. B.C. Borah) Joint Registrar (Academic) Dibrugarh University

Copy to:

- The Hon'ble Vice Chancellor i/c, Dibrugarh University for favour of information.
- The Deans, Dibrugarh University, for favour of information.
- The Registrar, Dibrugarh University, for information.

- The Controller of Examinations, Dibrugarh University, for favour of information.

 The Inspector of Colleges i/e, Dibrugarh University, for information.

 The Principal, Jorhat Kendriya Mahavidyalaya, Jorhat Assam for information.

 The Joint Controller of Examinations "C", Dibrugarh University, for information.

 The Deputy Controller of Examinations "A" & "B"i/c, Dibrugarh University, for information.
- The Academic Officer, Dibrugarh University, for information and needful.
 The Programmer, Dibrugarh University for kind information and with a request to upload the Notification in the University website.
- 11. File.

(Dr. B.C. Borah) Joint Registrar (Academic) Dibrugarh University

Three months add on certificate course on "LED bulb repairing technician" introduced by Physics Department, JKM in collaboration with Community College Jorhat Kendriya Mahavidyalaya.

Course Syllabus of Three month Add on certificate course on "LED bulb repairing technician" Total Credit: 9

Unit	Element	Topic	
1.	Basics of Electronics and LED	 Differentiate between various electronic and electrical components, materials and their specific properties, types and usages. Differentiate between alternating current (AC) and direct current (DC). Identify the types of solder and flux List the function of the different. Components of a soldering iron. Identify the selection criteria of a suitable tip. Demonstrate the LED working principle List the parameters which affect the overall life of LED. Categorise LED into its various types such as indicator, illuminator and Chip on Board (COB). List the advantages of LED light products. List the basic parameters of LEDs and their importance in an LED products. Distinguish between the different types of power sources used in LED lighting and their characteristics. 	3
2.	LED Luminary Repair and Assembly	List the major components of an LED luminary such as LED light engine, LED Driver, LED heat sink and thermal pads. Identify the tools required for LED product assembly. List the materials used in LED product assembly. Demonstrate basic knowledge of assembly of products such as spot light, LED bulb and LED tube light.	2
3.	Safety Standards and Procedures	Identify electrostatic discharge (ESD) causes and safety gear. Identify and implement safety rules and company policy on personal protective equipment (PPE). Use eye, respiratory and hearing protection as per company policy.	

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Practical Classes on Led bulb repairing

- Electric circuit components such as diode, transistor, IC, LED, transformer, resistor, capacitor, thermistor, inductor, timer, motor, starter, connector, switch, PCB, relay.
- 2. Multimeter, power source.
- 3. Ammeter, voltmeter Soldering Iron, soldering ware, desoldering pump.
- 4. LED light, multimeter, tester, LCR meter and power analyser.
- 5. Stripper, cutter, screw driver set, plier, soldering pump, soldering iron.

Ber

(Rajib Bordoloi) HOD Dept. of Physics, JKM

(Arup Saikia)
Faculty
Dept. of Physics, JKM

(Amrit Dutta)
Faculty
Dept. of Physics, JKM

(Priyanus Kalita) Guest Faculty Sibsagar College, JKM

Doniti

SYLLABUE

Three month certificate course on Vermicomposting Technology by Zoology Department in collaboration with community college, Jorhat Kendriya Mahavidyalaya.

Course syllabus of three months certificate course on Vermicomposting technology

Total credit -9

UNIT	ELEMENT	TOPIC	CREDIT
	General:	Introduction, definition, meaning, history, economic importance	
I	Vermiculture/ Vermicompost	Role in bio transformation, role as four r's of recycling: reduce, reuse, recycle, restore.	2
		The matter and humus cycle, transformation process in organic matter.	
		 Choosing the right worm. Useful species of earthworms. Local species of earthworms. Exotic species of earthworms. 	
		Key to identify the species of earthworms	
П	Earthworm Biology and Rearing	2. Biology of Eisenia fetida.// Eudrilus eugeniae a) Taxonomy ,Anatomy, physiology and reproduction. b) Vital cycle: alimentation, fecundity, annual reproducer potential and limit factors (gases, diet, humidity, temperature, PH, light, and climatic	2
		Small Scale Earthworm farming for home gardens - Earthworm compost for home	
		Conventional commercial composting Composting larger scale	2
	Vermicompost Technology (Methods and Products)	Earthworm Farming (Vermiculture), Extraction (harvest), vermicompost harvesting, packaging and storage	
	-	Nutritional Composition of Vermicompost for plants, comparison with other Fertilizers	
	-	wash collection, composition &use	
		Sickness and worm's enemies. Frequent problems. How to prevent and fix them. Complementary activities of auto evaluation.	

PRACTICAL

Topics	Credit
Key to identify different types of earthworms	
Study of Systematic position, habit, habitat & External characters of Eisenia fetida/ Eudrilus eugeniae	
Comparison of morphology & life stages of Eisenia fetida & Eudrilus eugeniae	3
Study of Vermiculture, Vermiwash & Vermicompost equipments, devices	
Preparation of vermibeds, maintenance of vermicompost & climatic conditions.	
Harvesting, packaging, transport and storage of Vermicompost and separation	

8hm 15/03/2022

Mrs. Ely Phukan Academic Vice Principal, Jorhat Kendriya Mahavidyalaya (Someron Ports)

Mr. Someswar Borah HOD, Department of Zoology Jorhat Kendriya Mahavidyalaya

Notable Book 15. 3. 2022

Dr. Nilakshi Borah Assistant Professor, Department of Zoology Jorhat Kendriya Mahavidyalaya

<u>Certificate course in Soft Skills</u> An initiative of dept. of English and Assamese

Course layout

Objective: This course aims at enhancing the skill of communication, and other soft skills like leadership, positive attitude, emotional intelligence, self motivation etc. for the development of personality as well as carrier development of the learner.

Duration - 3 months

Total credit - 09

Unit	Topic	Credit
1.	Introduction to Soft Skills; Aspects of soft skills; Effective communication skills; classification of communication, personality development;	
2.	Haptics: The language of touch; listening skills; types of listening; effective listening.	1
3.	Letters; types of formal letters; Business letters: types; format and style; Effective resume.	
4.	Report writing : types and strategies; proceeding writing	
5.	Synopsis; Research paper; Project;	
6.	Corporate writing: email, face book, whatsapp, twitter	1
7.	Preparation for personal interviews; speeches for various occasions; effective presentation.	
S.	Practical: details of practicals are listed below	2

Details of Practical:

Group discussion.

Power point presentation on specific topics. Demonstration of Listening Skill

4. Report writing & Conduction of meeting

Reference

Butterfield, Jeff. Soft Skills for Everyone. New Delhi: Cengage Learning. 2010.
 Kumar, Sanajy and Pushp Lata. Communication Skills. New Delhi: OUP. 2011.
 Lucas, Stephen E. The Art of Public Speaking. McGraw-Hill Book Co. International Edition,

11th Ed. 2014.

Sharma, R.C. and Krishna Mohan. Business Correspondence and Report Writing. New Delhi: TMH. 2016.

5. Turk, Christopher. Effective Speaking. South Asia Division: Taylor & Francis. 1985.

বেজবৰা, ড: নীৰাজনা মহন্ত, ব্যক্তিত্ব ,সুকুমাৰ কৌশল আৰু যোগাযোগ, অসম বুক ট্টাষ্ট

7. গোষামী, গোলোক ৮ন্দ্ৰ, অসমীয়া ব্যাকৰণ প্ৰৱেশ, বীণা লাইৱেৰী, গুৱাহাটী

Ratramoni Dutta 10/3/22

Co ordinator Soft Skill

18 com2506122 Bishnuram Nath HoD, Assamese Dept.

Bhagyashree Shyam

Co ordinator

D21-10/2012022 Dr. Arunima Borah HoD, English Dept

(Dr. Dulen Principal Jorhat Kendriya Mahavidyalaya

Principal Jorhet Kendriya Mahavidyalaya Kenduguri, Jorhat 10

Certificate course in Life skills

An initiative of Dept. of Education and Sociology

Course syllabus of three months Add on certificate course on Life skills

Total credit: 14

Unit	Topic	Credit
1.	Introduction to Life Skills and Life Skills Education Conceptual Basis of Life Skills: Definition, Need and Significance Evolution and Development of the concept of Life Skill Education	
2.	Leadership skills, understanding leadership and its importance. Traits and models of Leadership Basic leadership skills.	1
3.	Effective use of social media, introduction to social media websites Advantages of social media, Ethics and Etiquettes of social media How to use google search better, effective use of social media.	1
4.	Social Influence Theory: Herbert Kelman Core Life Skills: Social & Negotiation Skills Self-esteem - Defination, Importance, how to build positive self-esteem	1
5.	1.Methods and Strategies for nurturing Self- awareness 2. Exploration: Johari Window, SWOT Analysis 3.Empathy: Sympathy, Empathy & Altruism	1
6.	Effective Communication: Assertiveness, Effective Listening, Negotiation Techniques & Process, Barriers of Communication, Presentation Skills. Interpersonal Relationship: Defination, Factors Affecting Relationships Thinking Skills: Critical Thinking: Analytical Thinking, Strategies to enhance Critical Thinking	1
7.	Creative Thinking: Out of the box thinking, stages of Creative Thinking, Factors hindering creative thinking, Characteristics of Creative thinkers Problem Solving: Definition, Steps in Problem Solving Decision Making: Definition, Informed Decision Making, Consequences of Decision making and Models of Decision	1
3.	Coping with Emotions: Basic Emotions, Models of Emotion Coping with Stress: Definition, Types, Sources of Stress,	1

Orange Karada & San anathras

	Strategies to Manage Stress Day 3. Emotional Intelligence : definition. Types. Ways to manage emotional intelligence.	
9.	Life Skills for Personal Effectiveness Values: Punctuality, Honesty, Loyalty, Dependability, Reliability Skill of building Self Confidence and Self Motivation	1
10.	Skill of Goal Setting; Types, Steps, Personal Vision and goal Skill of time management Study Skills and Memory Techniques	1
11.	Resume skill: preparation and presentation Interview skill: preparation and presentation Group discussion skills and exploring career opportunity	1
12.	Skill to Overcome Eating Disorders and Obesity, Skills to prevent Abuse- physical, sexual and emotional Application of Life Skills in day-to-day life Life skill for Adolescents and youth.	1
13.	Practical: details of practical are listed below	2

Details of practical :-

- 1. Group discussion
- 2. Power point presentation on specific topics.
- 3. Problem solving techniques.
- 4. Resume writing
- 5. Practise on use of different social media.

Dr. Padabi Mali Co ordinator Life skill

Prof. Moonmoni Borkoch Co ordinator Life skill

Ranka, Prof. Ranjumoni Saikia HoD Dept. of Education

Dr. Rajen Borah HoD

Dept. of Sociology

(Dr. Dulen Saikia) Principal Jorhat Kendriya Mahavidyaliya

Principal Inrhat Kandriya Mahadoyalaya Kenduguri, Jornat-10

Three months Add on certificate course on "Tea Processing with special emphasis on Green and Specialty Tea" by Botany Department in collaboration with Community CollegeJorhat KendriyaMahavidyalaya

Course Syllabus of Three months Add on certificate course on "Tea Processing with special emphasis on Green and Specialty Tea" Total Credit: 9

Unit	Element	Topic	Credit
1.	History and Scope of Tea	Cultivars of tea Energy of tea Cultivars of tea Energy of tea Composition and important physical and chemical properties Mineral Nutrition in tea Symptoms of nutrient deficiency and its correction Corganic matter management (FYM).	
2.	Tea soil and Integrated nutrient management		
3.	Young tea management	Land preparation Layout of the field Bringing up of Young tea Post care in the young tea plantation area.	
4.	Integrated pest and disease management Integrated pest and disease management Integrated pest and disease management 2. Major pestin tea and its impact on tea plants. 3. Control measures of pest and diseases. 4. MRL problem in tea		1
5.	Physiology and Biochemistry of tea.	Growth behavior of tea Physiological and biochemical attributes of tea plant Source and sink relationship	
6.	Tea chemistry Tea manufacturing techniques 2.1. Different types of tea 2.2. Processing techniques of black tea (CTC and Orthodox)		1

Manufact Mahavidyalaya Kendugan, Jorhat-10

Unit	Element	Topic	Credit
7.	Green Tea manufacturing	What is green tea? Difference between green tea and other types of tea Manufacturing technique of green tea Packaging and Marketing Risk involved in green tea manufacturing in Assam condition	1
8.	Practical Classes		2

Practical Classes on Tea Processing.

Credit: 2

- 1. Soil sample collection and soil testing
- 2. Fine leaf count
- Identification of different machineries used in tea processing.
 Processing technique of green tea
- 5. Visit to Tocklai Tea Research Institute
- 6. Asssignments

(Pinaki Hazarika)

HOD

Dept. of Botany, JKM

(Rashmi Rekha Bora) Faculty

Dept. of Botany, JKM

(Bingd Hazarika) Faculty

Dept. of Chemistry, JKM

Guest Faculty

Community College, JKM

Three Months Add on Certificate course on "Computer Basics with Special Knowledge on MS Office and Internet Susceptability" in collaboration with Computer Science Department of Jorhat Kendriya Mahavidyalaya.

Course Syllabus of Three Months Add on Certificate course on "Computer Basics with Special Knowledge on Microsoft Office and Internet

Unit	Element	Topic	Credit
1	History of Computer	I.Introduction to Computer C.Generation of Computers Hardware and Software Performance Measurements of Computer Classification of Computer	1
2	Operating System and its Types	1.OS Directory Structure 2.Importance of Operating System 3.MS- DOS, WINDOWS, LINUX, UNIX Operating System	1
3	Microsoft Word	1.Working With Tables 2.Using Mail Merge 3.Modifying Page Layout 4.Previewing and Printing a document	1
4	Microsoft Excel	1.Formulas and Functions 2.Types of Cell Referencing 3.Cell Reference to another Worksheet 4.Rules to enter a function 5.Common Functions and Formula Errors 6.Charts, Components of Charts and its Types 7.Printing a Worksheet 8. Report generation for EMIS	
5	Microsoft Powerpoint	Watermark in Powerpoint Animating Text, Inserting Sounds	1

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		Grouping and rotating Objects A.Slide Transition and animation Effects	
6	Introduction to Internet	1. What is network 2. Types of Internet 3. Cyber Crime, Software Piracy 4. Recent Development in IT	1
7	Electronic Mail	1.Components of E-mail 2.Chart and Video Conferencing 3.Basic of Mobile cloud Computing	1
8		1.Practical Classes	2

Practical Classes

Credit :2

- 1.Preparing your Bio-data in MS-WORD
- 2.Generating a Excel Sheet of calculating BILL ENTRY.
- 3. Creating a Powerpoint Presentation using Animation.
- 4.Creating a Brochure for your institute using MS-WORD
- 5. Creating G-mail Account, Google Classrooms
- 6.Preparing Data Entry report using MS-EXCEL

(Sewali Hazarika)

HOD

Dept.of Statistics,JKM

(Bonjit Bondon Buragohain)

Faculty

Dept.of Mathematics, JKM

Annina Rahman 11/03/2022 (Armina Rahman)

Faculty

Dept.of Computer Science, JKM

Total Kandriya Mahayidyalayu Kenduguri, Jorhat-10

CERTIFICATE COURSE IN

SUSTAINABLE DEVELOPMENT OF SOLID WASTE MANAGEMENT

"LET'S GO GREEN TOGETHER"

AN INITIATIVE OF DEPARTMENT OF CHEMISTRY

(JORHAT KENDRIYA MAHAVIDYALAYA)

DURATION: 3 MONTHS TOTAL CREDIT: 9

Unit	Topic	Credit
Unit 1 : Municipal Solid Waste; Its Sources and Composition	Introduction, Sources of solid waste, Types of solid waste, Composition of solid waste and its determination, Effects of Undisposed or Unattended Garbage Physical, Chemical and Biological properties of Municipal Solid Waste, Transformation of Municipal Solid Waste	1
Unit II: Solid Waste Generation and Collection of Waste	Quantities of solid Waste, Measurements and methods for waste quantities, Solid waste generation and collection of waste, Factors affecting solid waste generation rate	1
Unit III : Waste Management and Segregation	Processing of solid waste at residence (Storage, conveying, compacting, Shredding, pulping, granulating etc.,) Processing of solid waste at Commercial and industrial fields Combustion and energy recovery of municipal solid waste, landfill processes, Differentiate sanitary land fill and incineration as final disposal system for solid waste	1

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Unit IV: Hazardous Solid Waste and Laboratory Waste Management	Definition, identification and classification of hazardous solid waste, Characteristics Hazardous waste toxicity, reactivity, infectiousness, flammability, corrosiveness, management and disposal. Laboratory waste, its sources, generation, storage management and disposal	1
Dissertation, Project Work and Hands on Training		5

Parianita Bancah Mrs Parinita Baruah

Department of Chemistry

Coordinator

Solid Waste Management

JEBOOR. Mrs Jyoti Sikha Bora Assistant Professor Department of Chemistry Sinki Kolita 15/03/22 Dr Sinki Kolita 15/03/22

Coordinator

Solid Waste Management

Dr Dulen Salkia

Principal

Jorhat Kendriya Mahayidyalaya

tool for the property of the

Six months Add on certificate course on "Bioinformatics" introduced by Botany Department, Jorhat Kendriya Mahavidyalaya

Course Syllabus

Total Credit: 18

Unit	Element	Topic	Credi
1.	Fundamentals of bioinformatics	Introduction History and scope of bioinformatics. Branches of Bioinformatics Sources of information Internet world wide web and web browsers Genomics Transcriptomics.	2
2.	Introduction to Biological Databases Classification of biological database Basic concepts of primary secondary databases		2
3.	Biological sequence database	National Center for Biotechnology Information (NCBI): Tools and Databases of NCBI, Database Retrieval Tool, Sequence Submission to NCBI. EMBL Nucleotide Sequence Database (ENA): Introduction, Sequence Retrieval, Sequence Submission to EMBL, Sequence analysis tools. DNA Data Bank of Japan (DDBJ): Introduction, Resources at DDBJ, Data Submission at DDBJ. Swiss-Prot: Introduction and Salient Features. Small molecule databases (Chemspider, Drug Bank, ZINC)	2
4.	Basic concept of Sequence Alignments	Introduction, Concept of Alignment Pairwise sequence alignment (PSA) Multiple Sequence Alignment (MSA), MSA by CLUSTALW Methods of Sequence Alignment. Tools of sequence alignment – FASTA and BLAST	2
5.	Phylogenetic analysis	Basic concept Phylogenetic tree	2

Principal Principal Principal Principal Principal Mahavidyalay Sorhat Kendriya Mahavidyalay Principal Prin

Unit	Element	Topic	Credit
OIIII_	Brement	Steps in evaluation of phylogeny and constructing phylogenetic trees. Mehods of phylogenetic tree Construction.	
5.	Applications of Bioinformatics	Application of bioinformatics Drug design and development Molecular Docking, Application in plant science Pharmacology (ADME and Toxicity prediction)	2
-	7 Practical Classes		6

Practical Classes on Tea Processing.

Credit: 6

- Retrieval of nucleotide and protein sequences from the databases
 Pair-wise alignment of sequences (BLAST)
 Multiple sequence Alignment (CLUSTALW)
 Phylogenic tree Construction
 Predict of 3-D structure of protein

Molecular docking ADMET Prediction

Mrs Pinaki Hazarika

Department of Botany

Bharrott Kalita Mr Bhaskor Kolita

Coordinator

Bioinformatics

REB 1

Mrs Rashmi Rekha Borah

Assistant Professor

Department of Botany

Simply Bord

Coordinator

Bioinformatics

Jorhat Kendriya Mahavidyalaya

Principal Torhat Kendriya Mahavidyalaya Kenduguri, Jorhat-10

UNDER NATIONAL SKILL DEVELOPMENT CORPORATION (NSDC)

mcbvoccs@gmail.com, coolsunil_yadav@rediffmail.com, Sanjay Sen <sanjaysenmrc@gmail.com>, intogeria_college@rediffmail.com>, SUBHENDU KUNDU <b.voc18hlpc@gmail.com>, ANANTA MOHAN Mishra anantamohanmishra@gmail.com>, info@ramnagarcollege.in, principal@salesiancollege.net, eothadathi@yahoo.com.au, ctborainfo68@gmail.com, principal.college@gmail.com, vv. kardile@tccollege.org, ardilev@gmail.com, opchanu@gmail.com, jugindor 1958@gmail.com, Principal Chandikhole principal_bbm_ckl12@yahoo.ln>, ar.rajni@gmail.com. Apeejay College of Fine Arts <acfa.jlm@apj.edu>, avchsp@gmail.com, uger1926@davchsp.org.in, ns_kalra@yahoo.co.in, sdcbnl@gmail.com, "S.D. College Barnala" sdcbnl@yahoo.com>, principalkew@gmail.com, alirumalesh@gmail.com, Svmc Nagaram <info@svmc.edu.ln>, hbcollege@rediffmail.com, Mousmi Saikia <mousmisaikia@gmail.com, symbethnozoology@rediffmail.com, Furkating ollege <furthering to the companient of the companient of

iank you for the information.

ith reference to the Onboarding of the institutions in SIP under the Skill Hub Initiative program

NSDC vide an email communication has requested UGC to collect certain information from the Skill Hub institutions. Accordingly, we are requesting you to provide the relevant information in a google form. The link to the google form is:

https://forms.gle/P7iJmquY0r19AZhMA

Kindly note the following:

In case an entity is selecting for more than one job roles then data to be filled in two row items as there is no option of selecting two job roles in one cell.

All the institutions to select NOT MORE than TWO job roles

District name to be filled correctly- choose from the drop down only
Only ONE email Id to be provided for TP and another ONE mail for TC. Please avoid giving multiple
mail id against TP and or TC. mail id against TP and or TC.

Mobile number to be of 10 digits, entities should avoid providing details with prefixes like +91, 0, 09.

No field to be left BLANK

QP list is also attached. You need to mention the QP codes and job roles from the QP list only. In case of any queries, please write to wear, nemadorntia arg

(Institutions which have already provided the information are again requested to share the same via the google form)

You are requested to share the information by 6th January, 2022.

Mriganka Sekhar Sarma Education Officer University Grants Commission

ediffmail

Mailbox of jkmprincipal

Subject: Fwd: Skill Hub

From: UGCNERO Guwahati <ugcnero2019@gmail.com> on Mon, 14 Mar 2022 11:19:50

Cc: mrigankasekharsarma@gmail.com

1 attachment(s) _110_UGC_Colleges.xlsx (24.21KB)

Please refer the email from Dr. Mriganka Shekhar Sarma, Deputy Secretary, UGC, New Delhi, forwarded below and you are requested to share the updated status of colleges in respect of Skill Hub classes by today 2.30 PM positively. The status report may be forwarded to Dr. Mriganka Shekhar Sarma, Deputy Secretary, UGC, New Delhi and UGC-NERO, Guwahati.

This may kindly be treated as MOST URGENT.

With Regards

UGC-NERO, Guwahati

Subject: Skill Hub
To: gopi chand <gopi_merugu@yahoo.com>, <ugcnero2019@gmail.com>, Dr Amol Andhare <andharea@gmail.com>,
cugcero_kolkata@yahoo.in>, Shalini Singh <sindim ugc@gmail.com>, prashant dwivedi
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cyrashantdwivedi24@gmail.com>, Salil Sahadevan <sili ugc@gmail.com>, ugc sero <ugcsero@gmail.com>,
cyrougc@gmail.com>, Dr. Latha KC <lathake ugc@gmail.com>, Salil Sahadevan <findsalil@gmail.com>,
cysharma3310@gmail.com>

Madam / Sir.

As you are aware, the deadline for registration and commencement of classes under Skill Hub Initiative is 15.03.2022. As you are aware, the deadline for registration and commencement of classes under skill Hub Initiative is 15.03.2022. As we need to submit a status report to the Ministry shortly, I would request you to kindly share the updated status of the colleges which come under your region. We actually need to know which college has started courses / completed colleges which come under your region. We actually need to know which college has started courses / completed registration and will commence classes by 15th March, 2022. Some of the institutions are facing registration related issues. We are taking them up separately with NSDC. I shall be grateful if you kindly share the status by today evening.

Best regards, Dr. Mriganka Sekhar Sarma Deputy Secretary University Grants Commission

		TD Tune	TC ID	TC Name	TC Category	TC Type UGC Colleges
TP ID		TP Type Government Institute	STATE OF THE PARTY	Sonapur College	Skill Hub under Frank v. 315	UGC Colleges
	Sonapur College			Tonga	Skill Fidd diloci	UGC Colleges
TP104874		Government Institute		IC A AL SCIONED D	2KIII LIAD ALIACI	UGC Colleges
TP104781	Video Pratishthan'S Arts, Science And	Government Institute	TC162603	Vidya Pratishthan's Arts, Science P Shri Vyankatesh Arts Commerce &	2kili Linn auger	UGC Colleges
TP104812	Shri Vyankatesh Arts Commerce & S	Government Institute		Englishmon	ZKIII LIND OLIVE	UGC Colleges
TP104777	St. Francis College For Women.	Government institute		St. Francis College For Women. Anandaram Dhekial Phookan Colle	Skill Hub under Frank v. 5.5	UGC Colleges
TP104808	Anandaram Dhekial Phookan Colleg	Government Institute				UGC Colleges
TP104685	Madras Christian College	Government Institute	TC162596	Mcc-Community College Late B.S. Arts Prof, N. G. Science &	Skill Hitt direct tite.	
	Late B.S. Arts Prof, N. G. Science & A	Government Institute				UGC Colleges
TP104805	- 11	Government Institute		St. Thomas Community College St Josephs College Autonomous, C	Skill Hub under PMKVY 3.0	UGC Colleges
TP104776	- " // taramour!	Government Institute				UGC Colleges
TP105241	i e II /Autonomoi	s Government Institute	I CAULS.	Apssdc Lady Doak College, Madurai	Skill Hub under PMKVY 3.0	UGC Colleges
TP104730		Government Institute		Lady Doak College, Madural Kre Society'S Karnatak Arts, Scien	Skill Hub under PMKVY 3.0	UGC Colleges
TP105105	To the Late Cripper	e Government Institute		Vimala College (Autonomous)	ZKIII L'ON DUAL	UGC Colleges
TP104775		Government Institute	TC162558	Nabagram Hiralal Paul College	Skill Hub under PMKVY 3.0	UGC Colleges
TP10476	All relational College	Government Institute	TC162555		Skill Hub under PMKVY 3.0	UGC Colleges
TP10476	u. c. II Vaniiranally	Government Institute	TC162541	Sdc Skill Hub Jorhat Kendriya Mahavidyalaya	Skill Hub under PMKVY 3.0	UGC Colleges
TP10472	- Labor Kondriva Mahavidyalaya	Government Institute		Jorhat Kendriya Mahavidyalaya Tuljaram Chaturchand College, Ba	or Skill Hub under PMKVY 3.0	UGC Colleges
TP10471	at a selected College Of	Ari Government Institute	TC162537	The state of the s	SKIII FIGU Grider	UGC Colleges UGC Colleges
TP10500	se-basidualaya	Government matrice		au III Davielopment Ce	n Skill Hub under PMKVY 3.0	
TP10470	And Science Colle	ge Government Institute	TC162512	" " College For Wom	61 2KIII HUD UNGEL THAM	UGC Colleges
TP10489	whales College For Wome	n 1Government matroce			26 2KIII HOO DIIGEI	UGC Colleges
TP10472	And Science Colle	ge, Government matter		e dellare	Skill Hub under France	UGC Colleges
TP10473	Collogo (University	Of Government matter		a II Imphal	Skill Hub under PMKVY 3.0	UGC Colleges
TP10474	a it tanaka	Covernincist marre		Labelmour College Auton	on Skill Hub under PMKVY 3.0	UGC Colleges
TP1046	College Autono	mo Government Institut	e TC162484	Dhackari	30 2KIII HUD UNGEL LIMITA	UGC Colleges
TP1046	Rhackarra	0 2 GOVERNING IN THE			Skill Hub under Pivik v 1 3.0	UGC Colleges
TP1046	- Marian (Autono)	nus Government macro		10.0	Skill Hub under PMKVY 3.0	UGC Colleges
TP1048		Government			Skill Hub under PMKVY 3.0	UGC Colleges
TP1046	4 11	Government Institut		the state of the s	Skill Hub under PMKVY 3.0	UGC Colleges
TP1046	A STATE OF THE PARTY OF THE PAR	Government Institut		a n	Skill Hub under PMKVY 3.0) UGC Colleges
TP1049	- 11	Government Institu		- " Of total O Cel	ence Skill Hub under PMKVY 3.	UGC Colleges
TP1049	of A de O Crionce	Government Institu	te TC16243	7 Psgcapsg College Of Arts & Sec.		
TP1050	18 Aze conede or vira a con					









This course encompasses 5 out of 5 National Occupational Standards (NOS) of "Vermicompost Producer" Qualification Pack issued by "Agriculture Skill Council of India".

N	lo. Module	Key Learning Outcomes Equipment Required
1	Introduction Theory Duration (hh:mm) 05:00 Practical Durat (hh:mm) 00:00 Corresponding Bridge Module	Understand General Discipline in the class room (Do's & Don'ts) Study the Scope & importance of Organic farming in India Understand the usage & market demand for vermicompost Understand the Role of a Vermicompost Producer' Laptop, white board, marker, projector Laptop, white board, marker, projector Vermicompost Producer
2	Identify approgrammer bed vermicompost Theory Duration (hh:mm) 15:00 Practical Duration (hh:mm) 20:00 Corresponding AGR/N1212	vermicompost unit Construct vermicompost structure Prepare vermibed as per the specifications Identify & source appropriate type of organic wastes Ensure proper coverage & appropriate moisture level Comply with the occupational health & safety requirements relevant to work vermicompost unit marker, projector, Audio-visual aids sheet Showels, spades crowbars, iron baskets dung fork, buckets bamboo baskets trowel, Plumbing and fitting tools, Powe
3	Inoculate earth prepared unit 8 vermicomposti process Theory Duratio (hh:mm) 15:00 Practical Durati (hh:mm) 30:00 Corresponding AGR/N1213	earthworm from authentic source Ensure favourable thriving condition prior to releasing earthworms into bed loculate earthworms into vermicomposting units Ensure proper moisture and aeration in the vermibed Prepare feed and manage vermicomposting unit Control predator attacks- birds, animals & insects, diseases such as sour crop etc earthworm from authentic source marker, projecto Audio-visual aid: earthworms, plastic crowbars, iron basket dung fork, bucket bamboo basket trowel, Power operate shredder, Sievin machine with wire mesh sieves, Culture mesh sieves and control programment of the control production prior to releasing earthworms into bed earthworms into bed earthworms into bed earthworms into bed earthworms, plastic crowbars, iron basket dung fork, bucket bamboo basket trowel, Power operate shredder, Sievin machine with wire mesh sieves, Culture mesh sieves, Culture mesh sieves, Culture mesh sieves, Culture mesh sieves and control production prior to releasing earthworms into bed earthworms into bed earthworms, plastic crowbars, iron basket dung fork, bucket bamboo basket trowel, Power operate shredder, Sievin machine with wire mesh sieves.
4	Identify maturi	of Identify maturity of prepared Laptop, white boar

Vermicompost Producer

108-1









Sr. No.	Module	Key Learning Outcomes	Equipment Required
	vermicompost and harvest using approved procedures Theory Duration (hh:mm) 15:00 Practical Duration (hh:mm) 30:00 Corresponding NOS Code AGR/N1214	vermicompost Harvest mature vermicompost at appropriate stage using tub method, container etc Collect & store the vermicompost in shady place Harvest earthworms using appropriate technique- trapping method, sieving method, manual method, self-harvesting method etc Segregate the vermiculture collected into cocoons, juveniles, adults etc as per the work requirements Collect worms in containers, weigh, sort, grade, transfer in ready bed or prepare for sale Recycle the process by refilling the bed with required materials	marker, projecto Audio-visual aid Shovels, spade crowbars, iron basket dung fork, bucket bamboo basket trowel, Weighing scale Weighing machin (platform type), Gunn bags, Bag sealin machine, Culture tray (plastic), Wheel barrow
5	Undertake basic entrepreneurial activities for small enterprise X Theory Duration (hh:mm) 30:00 Practical Duration (hh:mm) 20:00 Corresponding NOS Codex AGR/N9908	Assess demand & supply of vermicompost in the market Seek information regarding subsidies/loan available through govt institutions Avail loan from the financial institutions Identify & develop appropriate marketing channels Track prices prevailing in the market and formulate competitive pricing mechanism Maintain book of accounts Calculate B:C ratio Comply with relevant regulations in marketing & sale of the produce	Laptop, white board marker, projecto Audio-visual aids, per paper
6	Maintain Health & Safety at the work place Theory Duration (hh:rmm) 10:00 Practical Duration (hh:mm) 10:00 Corresponding NOS Code AGR/N9903	Maintain a clean & efficient workplace Render appropriate emergency procedures On Time Reporting to appropriate person. Practice General safety and first aid	Laptop, white board, marker, projector, , Personal protective equipment Like: Helmet / head gear, Cotton / woolen safety gloves, Safety boots, Safety Harness; First Aid Kit: Bandages, Betadine Solution / ointment, Pain relief spray / ointment, Antiseptic liquid; Phone directory, Search lights, fire extinguisher

Vermicompost Producer









Sr. No.	Module	Key Learning Outcomes	Equipment Required
	Theory Duration (hh:mm) 90:00 Practical Duration (hh:mm) 110:00	spades, crowbars, iron baskets, du trowel, Plumbing and fitting tools, machine with wire mesh sieves. Weighing scale, Weighing machine, Culture trays (plastic), W pipe/ dripper	Power operated shredder, Sievin , power operated with motor ine (platform type), Bag sealin

Grand Total Course Duration: 200 Hours, 0 Minutes

(This syllabus/ curriculum has been approved by Agriculture Skill Council of India)

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Vermicompost Producer









This course encompasses <u>03</u> out of <u>03</u> National Occupational Standards (NOS) of "<u>LED Light Repair Technician</u>" Qualification Pack issued by "<u>Electronics Sector Skills Council of India</u>".

Sr. No.	Module	Key Learning Outcomes	Equipment Required
1.	Basics of Electronics and LED Theory Duration (hh:mm) 60:00 Practical Duration (hh:mm) 40:00 Corresponding NOS Code ELE/N9302	 Differentiate between various electronic and electrical components, materials and their specific properties, types and usages Calculate resistance by identifying the colour codes Define capacitance of a capacitor List and define the parameters of an electric circuit such as voltage, current and resistance Define Ohm's law and implement it for calculations Differentiate between alternating current (AC) and direct current (DC) Measure power and energy using relevant formula Identify the basics of power electronics and its usages in lighting controls or LED power supplies and LED drivers Identify the types of solder and flux List the function of the different components of a soldering iron Identify the selection criteria of a suitable tip Demonstrate the LED working principle List the parameters which affect the overall life of LED. Categorise LED into its various types such as indicator, illuminator and Chip on Board (COB) List the advantages of LED light products List the basic parameters of LEDs and their importance in an LED products Distinguish between the different types of power sources used in LED lightling and their characteristics 	Electric circuit components such as diode, transistor, IC, LED, transformer, resistor, capacitor, thermistor, inductor, timer, motor, starter, connector, switch, PCB, relay and circuit breaker Multimeter, power source Ammeter, voltmeter Soldering Iron soldering ware desoldering pump

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LED Light Repair Technician

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		 Illustrate the different ways LEDs can be connected in a circuit and list the advantages and disadvantages of each 	
		 Identify the steps of heat transfer procedure in an LED 	
		 List the components of passive thermal designs to maintain low junction temperature such as adhesive and heat sinks 	
		 Identify the use of constant current LED Driver 	
2.	LED Luminary Repair and Assembly	 List the major components of an LED luminary such as LED light engine, LED Driver, LED heat sink and thermal pads 	LED light, multimeter, tester, LCR meter and power analyser
	Theory Duration (hh:mm)	 Identify the tools required for LED product assembly 	Stripper, cutter, screw driver set, plier, soldering pump,
	V.	 List the materials used in LED product assembly 	soldering iron
	Practical Duration (hh:mm)	 Demonstrate basic knowledge of assembly of products such as spot light, LED bulb and LED tube light 	
	70:00 Corresponding NOS Code	 Analyse the Importance of IP rating in Led products and its requirement for different products based on the product area of use 	
	ELE/N9302	 Categorise LED drivers into different types as per the type of LED 	
		Demonstrate driver selection according to the LED	
		Follow the steps of driver selection according to the LED	
		Identify the function and characteristics and application of a constant current LED driver and a constant voltage driver	
		Assess the reason for LED failure including hot environment, incorrect LED driver and incorrect polarity	
		 Identify and analyse the LED luminaire failure types such as LED failure modes, secondary optics failure modes, thermal management system failure and LED driver failure 	

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LED Light Repair Technician

Page 3









	 Follow the steps to diagnose and repair fault in an LED light both at the component level and the strip level Demonstrate the process of soldering if loose, de-soldered wires and connections are found Check the LED light engine with DC supply as per the voltage / current requirements of the product Check the supply unit with AC supply / multimeter to find out the voltage / current output in case LED light engine is not found defective Check voltage / current output at different sections of the supply unit in case of no voltage / current Check the components with multimeter individually of the section where voltage output is found to be less than desired / no output Perform repair / replacement of the damaged components / SMPs Check and replace the burnt out / damaged LED strips Identify 5S work standards Perform repair as per productivity and quality standards Report faults found in the LED lights document the fault diagnosis and repair process as per SOP 	
3. Safety Standards and Procedures Theory Duration (hh:mm) 30:00 Practical Duration (hh:mm) 30:00 Corresponding NOS	Identify electrostatic discharge (ESD) causes and safety gear Identify and implement safety rules and company policy on personal protective equipment (PPE) Categorise hazards into different types Identify and report potential hazards on time Use eye, respiratory and hearing protection as per company policy	Apron, safety shoe, wrist band, wire strap, rubber gloves and safety clothes Respirator, mask, skul caps, googles, jacket

LED Light Repair Technician

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	ELE/N9921	 List the reasons for a health and safety policy 	
		 Comply with standard health and safety procedures followed in the company while handling an equipment and hazardous materials and tools or situations 	
		 Apply electrical safety measures such as adequate wiring, proper insulation, grounding and no standing water 	
		 Identify and follow standard safety procedures including daily safety instructions, before starting work, when working and after completion of work 	
		Follow emergency procedures during dangerous situations such as a fire	
		List the key points of a fire drill	
		 Apply first aid as per the injury 	l)
	-	 Follow the incident reporting procedure 	
		 Implement disposal of hazardous chemicals, tools and materials by following prescribed environmental norms or as per company policy 	
4.	Soft Skills Theory Duration	 Identify work requirement and targets as per drawings, job sheets or work orders from supervisor 	Projector, PPT
	(hh:mm) 30:00 Practical Duration	 Use the tools and equipment to as per the work instructions and deposit the faulty ones 	_
	(hh:mm)	 Work as per the standard operating procedure (SOP) 	
	40:00 Corresponding NOS Code	 Assess work related issues and queries for solutions or escalate them to the supervisor 	
	ELE/N9919	 Report work completed and receive feedback on work done 	
		 Rectify errors as per feedback and minimise mistakes to zero in future 	
		 Report about process flow improvements, quality of output and repairs and maintenance of tools and machinery as required 	

LED Light Repair Technician

Page 5









	Follow the reporting structure to resolve issues
	 Implement the skills required for working with peers such as proper yerbal and non-verbal communication, active listening and appropriate problem solving abilities
	 Demonstrate reading skills to understand values on components, job sheets, work orders, manuals, warnings and so on
ě	Perform documentation of reports, customer complaints, solution provided and so on
	Demonstrate healthy interpersonal relationship by carrying resolving conflict
	Demonstrate team building skills to work effectively in a team
	 Implement the principles of work ethics by resolving personnel issues, delivering quality work and reporting hazards to superior
	 Identify and explain different policies and rules of the company to achieve quality, productivity and safety standards
	 Implement critical thinking skills to improve work processes and spot disruptions
	Identify the points to be considered to facilitate decision making as per the standard operating procedure
Total Duration	Unique Equipment Required:
360:00 Theory Duration	Ac Power Source, Allen Key Set, Connecting Wires, Digital Multimeter, ESD Gloves, ESD Mat, ESD Wrist Band, 7 Watt LED Lights, 9 Watt LED Lights, 12 Watt LED Lights, 3 Watt LED Lights, 5 Watt LED Lights, 6 Watt LED Lights, 6 Watt LED Lights, 8 Watt LED Lights,
180:00 Practical Duration 180:00	Power Supply, Safety Helmet, Safety Shoes, Screw Driver Set, Soldering Flux, Soldering Station, LED Street Light, Wire Stripper

Grand Total Course Duration: 360 Hours 0 Minutes
(This syllabus/ curriculum has been approved by <u>Electronics Sector Skills Council of India</u>)

LED Light Repair Technician

Page 6

UNDER COMMUNITY COLLEGE, JKM(NSDC sponsored)

HORTICULTURE IN NURSERY MANAGEMENT

₹ _{rediffmail}

Mailbox of jkmprincipal

Subject: UGC Colleges & Courses approved_2020-21

From: Priyanka Bali

bali.priyanka@asci-india.com> on Fri, 18 Sep 2020 17:22:49

2 attachment(s) - 6646045_NSQF-2020.pdf (690.75KB) , UGC_Agriculture_Colleges_2020-21.xlsx (34.77KB)

The list of Agriculture approved colleges and courses has been released from UGC.

please find the attached list for your reference. Also extended timelines till 30th Sep 2020 have been attached.

Thanks.

Priyanka Bali

Head- Educational Initiatives, DDUGKY and World Skills





"Sowing Skills, Harvesting Opportunities"

6th Floor, GNG Building, Plot No. 10, Sector 44, Gurgaon-122004
Ph: 0124-4670029/ 4814673/ 4814659; Ext-16 | M: 98734 65671







Prade			Tenali, 522 20	District Guntur, - 2	ploma	Food Processing/Food and Agricultural Commodities	
Maha	Jalna Education Society's R.G. Bagdia Arts, S.B. Lakhotia Commerce & R.Bezonji Science		Jalna, District Jalna - 431 203		iploma	Agriculture	
Tami	l Nadu	adu Jamal Mohammed College		No.7, I	Race Course Road,	iploma	Agriculture/Aquaculture
1						iploma	Agriculture/Horticulture
Language Tool 15		Jawah Kaval			Peddapavani Rd, Vaddi Palem, Kavali, Andhra	Advanced Diploma	Agriculture/Dairy Technology
1						Advanced Diploma	Agriculture/Fish Hatchery Management
+						M.VOC. Degree	Agriculture/Commercial aqua culture and Fisheries
	ly .		3 B 8			Advanced Diploma	Agriculture/Sportmanagent
83	Uttar Prad	esh Jh	unjhunwala P.G. College		arika Puri, Hansapur, trict Faizabad - 224 133	Diploma	Agriculture/Nursery and Horticulture of Management
			1 1 2		10	Diploma	Management and Entrepreneurship/Agri- Business
84	Assam		orhat Kendriya Mahavidyalaya	and the same	hat, District Jorhat	Diploma	Agriculture/Horticultural Nursery Management
85	Karnatak	a (C.L.E. Society's Arts and Commo College	Ca	italageri Naka, KLE mpus, Gadag-Betgeri –	Certificate	Agriculture/Agri-horticulture Science
		11	K.R.T. Arts, B.H. Commerce and	1	122 002	0.410	V 18 X X 1 X 1 X 1
86	Maharas	nira i	A.M. Science College	- 4	122 002	Certificate	Agriculture/Sericulture Technology -
86	Maharas	intra		Sa Bi	alempur, Sohsarai, harsharif (Nalanda)	Diploma	Agriculture/Sericulture Technology Agriculture/HORTICULTURE
		ntra	A.M. Science College	Sa Bi Ka	olempur, Sohsarai, iharsharif (Nalanda) akching Khunou, District houbal		
87	Bihar Manipu	r	A.M. Science College K.S.T. College Kakching Khunou College Kamakhya Pemton College	Sa Bi Ka Ti	alempur, Sohsarai, iharsharif (Nalanda) akching Khunou, District houbal iyanghemg, Manipur	Diploma	Agriculture/HORTICULTURE
87	Bihar Manipu Manipu	r r	A.M. Science College K.S.T. College Kakching Khunou College Kamakhya Pemton College Kamla Nehru Institute of Phys and Social Sciences	Sa Bi Ka TI H	olempur, Sohsarai, iharsharif (Nalanda) akching Khunou, District houbal	Diploma B.VOC. Degree	Agriculture/HORTICULTURE Agriculture/Fishery
87 88 89	Bihar Manipu Manipu Uttar Pr	r r radesh	A.M. Science College K.S.T. College Kakching Khunou College Kamakhya Pemton College Kamla Nehru Institute of Phys	Sa Bi K& TI H Hical V	elempur, Sohsarai, iharsharif (Nalanda) akching Khunou, District houbal iyanghemg, Manipur illage-Ratanpur, Post- (NI, District-Sultanpur Bidar, Dist. Bidar - 585 40	Diploma B.VOC. Degree B.VOC. Degree B.VOC. Degree 1 B.VOC. Degree	Agriculture/HORTICULTURE Agriculture/Fishery Agriculture/Floriculture
87 88 89 90	Bihar Manipul Manipu Uttar Pr	r r radesh	A.M. Science College K.S.T. College Kakching Khunou College Kamakhya Pemton College Kamla Nehru Institute of Phys and Social Sciences Karnataka Arts, Science and	Sa Bi KA TI H Hical V	elempur, Sohsarai, iharsharif (Nalanda) akching Khunou, District houbal iyanghemg, Manipur fillage-Ratanpur, Post- INI, District-Sultanpur Bidar, Dist. Bidar - 585 40 (akching, District Thouba	Diploma B.VOC. Degree B.VOC. Degree B.VOC. Degree 1 B.VOC. Degree	Agriculture/HORTICULTURE Agriculture/Fishery Agriculture/Floriculture Agriculture/Herbal Science Agriculture/Horticulture Agriculture/Fishery
87 88 89 90	Bihar Manipur Manipu Uttar Pr Karnata Manipu	r r radesh	A.M. Science College K.S.T. College Kakching Khunou College Kamakhya Pemton College Kamla Nehru Institute of Phys and Social Sciences Karnataka Arts, Science and Commerce College	Sa Bi Ka TI H Hical V K	elempur, Sohsarai, iharsharif (Nalanda) akching Khunou, District houbal iyanghemg, Manipur illage-Ratanpur, Post- (NI, District-Sultanpur Bidar, Dist. Bidar - 585 40	Diploma B.VOC. Degree B.VOC. Degree B.VOC. Degree 1 B.VOC. Degree	Agriculture/HORTICULTURE Agriculture/Fishery Agriculture/Floriculture Agriculture/Herbal Science Agriculture/Horticulture

Syllabus for Diploma in Horticultural Nursery Management Semester 1

FUNDAMENTALS OF HORTICULTURE

Course outlines

Theory

Horticulture-Its definition and branches, Importance and scope of horticulture, Horticultural and botanical classification, Climate and soil for horticultural crops, Plant propagation-methods (sexual & asexual), propagating structures; separation, division, grafting, budding, layering), High density planting; Use of rootstocks; Orchard establishment; (Principles & Layout) Principles and methods of training and pruning, Juvenility and flower bud differentiation; Unfruitfulness: pollination, pollinizers and pollinators; fertilization and parthenocarpy; Vegetable gardens & ornamental garden types and parts; Lawn making, Use of plant bio-regulators in horticulture, Irrigation methods in horticulture crops, Fertilizers application-methods.

Practical

Identification of garden tools. Identification of horticultural crops, Preparation of seed bed/nursery bed. Practice of sexual and asexual methods of propagation, Layout and planting of orchard plants. Training and pruning of fruit trees, Transplanting and care of vegetable seedlings. Making of herbaceous and shrubbery borders, Preparation of potting mixture, potting and repotting. Fertilizer application in different crops, Visits to commercial nurseries/orchard.

Lecture outlines

Theory

- Horticulture Definition Divisions of horticulture with suitable examples.
- Scope and importance of horticulture Importance of horticulture in terms of income, employment generation, industry, religious, aesthetic, food & nutritive value and export.
- Horticultural classification based on soil, climate and botanical classification.
- Climate and soil for horticultural crops Influence of environmental factors on horticultural crop production - Temperature, humidity, wind, rainfall and solar radiation - Influence of soil factors - Soil type, pH, EC.
- 5. Propagating structures- Plant propagation- Methods Sexual and asexual Propagation by cuttings Definition of cutting Stem cuttings Leaf cuttings Root cuttings.
- Propagation by Layering Types of layering (tip, simple, compound, mound, trench, air layering) - Natural modifications of layering (runners, suckers, stolon, offset)-

- Propagation by separation Bulbs, corms; division (rhizome, stem tuber, tuberous roots).
- 7. Grafting, budding -Rootstock and scion selection Grafting methods Attached scion methods of grafting, simple or approach grafting, detached scion methods of grafting (side grafting Veneer grafting, apical grafting- epicotyl grafting, double, soft wood grafting, cleft grafting, tongue grafting, whip grafting) Graft incompatibility Types Translocated and localized incompatibility; Budding Methods of budding T-budding, inverted T-budding, patch budding and ring budding Top working.
- 8. Principles of orchard establishment Points to be kept in mind while selecting site for the establishment of orchards - Principles and steps in orchard establishment - Layout of orchards – Systems of planting - Square, rectangle, quincunx, hexagonal and contour systems of planting-their merits and demerits.
- 9. Principles and methods of training and pruning Definition of training, objectives and training, principles and methods of training of fruit crops Open centre, closed centre and modified leader systems their merits and demerits Definition of pruning, objectives of pruning, principles and methods of pruning of fruit crops.
- 10. Juvenility and flower bud differentiation Methods for shortening juvenility Application of growth regulators (Gibberellins, Auxins, cytokinins, Abscissic acid, Ethylene), environmental methods (photoperiod, temperature) Cultivation techniques (grafting, pruning, girdling, irrigation, nutrition) Bearing habits of fruit trees.
- Unfruitfulness, factors (physiological, phylogenical, management, parasitical, climatological) pollination - Self and Cross pollination, pollinizers and pollinators -Fertilization and parthenocarpy - Types.
- 12. Types of vegetables Gardens Kitchen Garden, market garden, truck garden, vegetable forcing, garden for processing, seed production garden and floating garden. Ornamental garden types Formal Informal Wild Garden Parts/ features of an ornamental garden.
- 13. Lawn making Selection of Grass Bermuda grass Korean grass Poa grass Fescue grass Kentucky blue grass Grasses for shady areas Site Selection Soil Preparation of soil Drainage Digging Manuring and grading Methods of planting Sowing of seeds Dibbling Turfing Maintenance of lawn Mowing Rolling Sweeping Scraping Raking Weeding Irrigation Top dressing with compost and fertilizers Diseases and other problems Fairy ring Pale Yellow
- 14. Use of plant bio-regulators (PBR) in horticulture Introduction Applications of PBR in fruit crops.
- 15. Irrigation methods in horticulture crops Different methods followed in horticultural crops (check basin, furrow, ring basin, basin, flood, pitcher, funnel, drip and sprinkler).
- 16. Fertilizer application- Different methods of application to horticultural crops, Broad casting, top dressing, localized placement, contact placement Band placement, row placement, pellet, foliar application, starter solution, fertigation.

Practical

- 1. Identification of garden tools.
- Identification of horticultural crops.
- Layout of different planting systems.
- Layout of kitchen garden.
- Preparation of nursery bed (raised and flat beds) and sowing of seeds.
- Practice of different asexual methods by divisions.
- Practice of different asexual methods by cuttings.
- 8. Practice of different asexual methods by grafting.
- Practice of different asexual methods by budding.
- 10. Practice of different asexual methods by layering.
- 11. Training and pruning of fruit trees.
- 12. Transplanting and care of vegetable seedlings.
- 13. Making of herbaceous and shrubbery borders.
- 14. Preparation of potting mixture, potting and repotting.
- 15. Fertilizer application in different crops.
- 16. Visits to commercial nurseries/orchard.

Diploma in Tea Plantation and Management

APPROVAL LETTER





)विश्वविद्यालय अनुरान आयोग University Grants Commission

(पानद संसाधन दिवास पंताबद, पान्य सरका) Minnery of Homes Recourse Development, Govt. of India)

प्यादुरकार ज्ञार कर्ग, गई रिम्मी-110002 Bohoder Sheh Zofer Mong, New Delhi-119002 green Phone | wretwo Off : 611-2323 9597 Grave Fex: 001-2325-6347, e-mail. lepsingk.ups@nic.in

0.0.No.F.1-14(2015)CCC

By Speed Post

E58838

140,27

8 unter 2018/115 Received Butte Ber

Dear Sir/Madam.

Godfy refer to the proposal of your institute for starting/adding courses under the scheme of Community Colleges from the academic session 2015-16. In the connection, this is to infant you that the UGC has approved your proposal for startingladding courses under the scheme of Community College in the specialization and as per the intake given below:

Specialization/Trade	Intake	,
Diploma in Too Plantation & Management	50	

Further, UGC has also approved a grant of Rs 69.56 (Sixty Nine Laktis Fifty Six Tricusands) to the institute for a period of two years for running the course as per the details given below

		Amount (Rup	enu in lakts)
St No.	Eludget Head	Year I	Yearll
	Grant-in-aid General - 35 (Non-ro	curring)	
		7.00	3.00
	Equipments		9772
FR.	REPORT COMMENT OF LINES I INCRESTIGUE FORESTOOMS	11.00	E 60
		7.80	3.83
\$1.	Total (year-wise)	1.40	
	Grant-in-aid General - 31 (Recu	ming)	
The state of	Honorarium to existing / visiting / adjunct faculty	6.00	6.00
W.	Honorarium to Principal and Nodal Officer	1.08	1.05
W.	Hiring charges for Lab Attendant(s)	2.40	2,40
VE.		0.50	3.50
	Faculty training	1.50	1.50
16.	Consumables	1.00	-
180	Curriculum Devolupment	1.50	1.50
	Transifindustrial visits	1.50	1.50
30.	Seminars	200000	2.00
NL	Admission/Examination/Assessment including Assessment Fee of Sector Skill Council for Skill	2.00	2.00
	Component	6.00	8.00
xtil.	Scholarship to students	6.00	8.00
XIV	Operating Expenditure including hiring of office	1 4 5 7	
	staff on contract basis	29.40	28.48
	Total (year-wise)		House
		- T. St. of Section 1998	

Grand total for first year =Rs 7.80 (NR) + Rs 29.48 (R) = Rs 37.26 (Rupees only)
Grand Total for second year =Rs 3.80 (NR) + Rs 28.48 (R) = Rs 32.26 (Rupers only)
Total for Two Years: Rs 69.56 (Stary Nine Lakhs Fifty Sta Thousands)





JORHAT KENDRIYA MAHAVIDYALAYA

KENDUGURI, JORHAT-785 010, ASSAM

Phone # 0376-2350009, e-mail: jkmprincipal@rediffmail.com. Fax # 0376-2350009

Re-accredited by NAAC with Grade B++

Website # http/www.jorhatkendriyamahavidyalaya.edu.in

Def Ma	
Ref No.	Date

Course Syllabus (Skill Component) Of Diploma Course in 'Tea Plantation and Management'. 1st Semester: NSQF (Level 4). Total Credit: 18

Unit	Element	Performance Criteria (PC)	Credit	Classes
1	History & Scope of Tea	PC1. Aims and objectives of tea plantation and management PC2. Origin and history of Tea plant PC3. Classification and distribution of tea PC4. Factors responsible for tea cultivation PC5. Field works under tea plantation and management	1	15
2	Management of Shade tree	PC1. Early history of shade tree introduction in tea plantation of N.E. India PC2. Importance, morphology and classification of shade tree in tea PC3. Selection of shade tree for seed and establishment of shade tree nursery PC4. Treatment of seed, time and method of sowing and other maintenance of shade tree nursery PC5. Method of transplanting, time, spacing, size of pit and pit mixture for planting in the field PC6. Importance of shade mixture and rotation in the tea plantation	1	
3	Details about soil for tea cultivation	PC1. Definition and physio- chemical properties of soils PC2. Soil type, soil pH, soil temperature and soil moisture content for tea cultivation	1	15

		PC3. Methods of soil sampling for physical and chemical constituents of soil PC4. Soil amendment and its importance PC5. Adoption of cultural practices to improve soil nutrient contents PC6. Soil conservation, drainage and Irrigation in tea cultivation.		
4	Selection of Area and land preparation	PC1. Measures required to prepare land before plantation PC2. Levelling the area by mechanical and manual means after Plaughing and sub – soiling. PC3. Construct drains and other outlets for easy flowing of water PC4. Layout of the field PC5. Prepare the field for planting		15
5	Establishment of Tea Nursery	PC1.Choice of planting materials for Plantation PC2. Prepare Nucleus plot for VP (vegetative propagation)cuttings PC3. Preparation polythene begs for VP cuttings and seed propagation PC4. Preparation of bed for seed and VP cuttings PC5. Post care for nursery Plants before taking to field for plantation PC6. Importance of grafting in tea	1	15
6	Transplantation of nursery plant to field	PC1.Staking for planting pit for tea and shade tree saplings PC2. Initial measures for plantation in planting pit PC3. Arrangement for shade, irrigation and mulching material as required for field practices PC4. Weed control measures and infilling of vacancy PC5. Other post care in the young Plantation area.	1	15
7	Framing of young tea / Bringing up of young tea	PC1.Importance of framing of young plant under commercial plantation of tea PC2. Application of Decentering /Thumb pruning/ Debudding and its importance PC3. 1 ST Frame Formation Prune (FFP1) and 2 nd Frame Formation Prune (FFP2) PC4. Schedule for young tea management in plains and in the hills of N.E. India PC5. Manuring schedule for young tea.	1	15

8	Importance of Pruning and Skiffing in tea	PC1. Principles of pruning and skiffing in tea PC2. Types of pruning, timing and it's implication in tea PC3. Importance of skiffing in yield and quality in tea PC4. Pre and post care of pruning and Skiffing PC5. Importance of pruning/skiffing for growth, yield and quality of tea PC6. Control measures for pests and diseases before and after pruning	1	15
9	Management of weeds in tea	PC1. Definition, classification and distribution of weeds in tea plantation PC2. Morphology, physiology and reproductive strategies of weeds PC.3 Harmful and beneficial effects of Weed PC4. Control measures for wee control in tea PC5. Classification, toxicity symptoms and precautions for the use of herbicides in tea PC6. Use of bio-control measures for weed and its impact	1	30
10	Integrated management strategies of Pests in tea	PC1.Life History and classification of Pests in tea plantation in N.E India. PC2.Life history of major leaf-eating Pests and the nature of damages PC3. Life history of leaf-rollers, bark-Eating pest, stem and root-borer and their nature of damages PC4. Life history of Red spider and other mites and their nature of damaged caused PC5.Life history of leaf and stem sucking bugs, scale insects, mealy bugs and fruit-sucking bugs and their nature of damage PC6. Life history of leaf and flower Thrips and their nature of damage acused PC7.Life history of Grasshoppers, crickets and termites and their nature of damage caused PC8. Integrated management to control different pests in tea	1	15
11	Integrated management strategies of diseases in tea	PC1. Major diseases of tea and their impact on the ecology and the Economy of tea plantation of N.E. India.	1	15

		PC2. Primary and secondary diseases of tea root and their mode of infection PC3. Stem diseases of tea and their mode of infection PC4. Leaf and flower diseases of tea and their mode of infection PC5. Diseases in young tea and their mode of infection PC6. Parasitic and non- parasitic diseases in tea and their mode of infection PC7. Control measures of diseases through synthetic chemicals and Bio- pesticides in tea		
otal		Bio- pesticides in tea	12	180
OLGI			44	100
	actical classes		6	180
	actical classes		6	180
	ractical classes		6	180
	ractical classes		6	180

Bachelor of Vocation in Small Tea Garden Management and Plantation

APPROVAL LETTER

Je Solm

OFFICE OF THE REGISTRAR: DIBRUGARH UNIVERSITY: DIBRUGARH
Ref. No. DU/DR-A/6-1/19/24

Dated: 07.01.2019.

NOTIFICATION

The Hon'ble Vice-Chancellor, Dibrugarh University is pleased to approve the syllabi of the B.Voc Programme on Small Tea Garden Management (STGM) under the National Skill Qualification Framework (NSQF) Schemes of University Grants Commission (UGC) to be conducted by Jorhat Kendriya Mahavidyalaya, Jorhat, Assam under report to the Under Graduate Board and Academic Council, Dibrugarh University. The syllabus is available in the website-www.dibru.ac.in.

The above shall come into effect from the Academic Session 2018-2019.

Issued with due approval.

(Dr. B.C. Borah)
Joint Registrar (Academic),
Dibrugarh University

Copy to:

- 1. The Vice-Chancellor, D.U. for favour of information.
- The Deans, Dibrugarh University for favour.
- 3. The Registrar, D.U. for favour of information.
- The Controller of Examinations, DU, for favour of information and necessary action.
 The copy of the Syllabus is enclosed herewith.
- The Principal, Jorhat Kendriya Mahavidyalaya, Jorhat, for favour of information and necessary action.
- Sri Gunadeep Chetia, Programmer, Dibrugarh University for kind information and with a request to upload the Notification along with the syllabus urgently in the University website.

7. File

(Dr. B.C. Bbrah)
Joint Registrar (Academic),
Dibrugarh University.

APPROVAL DOCUMENTS

elecome to Rediffmail: Inbox







To The Principal Jorhat Kendriya Mahavidyalaya Keduguri, Jorhat-785010, Assam.

Sub: Approval of Course Syllabus for B.Voc programme in STGM

Sir, With reference UGC sanction letter of NSQF and your mail, we herewith approve the designed curriculum as per Qualification Packs of ASCI and UGC guidelines. Moreover, as per your request, we will act as certification authority for assessing skill component credits of B Voc programmes in Small Tea Garden Management under UGC scheme. We will charge Rs. 800/- per appeared candidate as assessment fee under the said programme

Warm regards

Shrinkhala Singh

ASCI



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6th Floor, GNG Tower, Plot No.-10, Sector-44, Gurgaon, Haryana -122004 Tel.: +91-124-4814659, Email: info@asci-india.com, Website: www.asci-india.com

1st SEMESTER

Paper: 5 1.3; Plantation Management (6 credits)

Overview & key learning as per NOS:

The units under this paper help the students to know about how to pluck leaves from young tea as well as matured tea bushes, able to learn how plucking to be done under various situation, able to determine the plucking standard, caring in green leaves handling, help in understanding the tipping as well as determine the height of tipping for different types of prune & skiff tea bushes, further, the students develop the skill of supervising plucking. Again in regards to pruning & skiffing, this paper helpsto skill up the students how pruning operation is carried out, before pruning what are the criteria to be followed, what are the safety measures one should take before pruning /skiffing of a tea bushes, also it helps in identifying recommended height of different types of prune/skiff. This unit also includes drainage system and Young tea management practices in Tea.

Total Marks: 75

Theory-40+ Practical-20 +Internal Assessments-15

UNIT-1

Drainage in Tea Plantation

1 Credit (10 marks)

Importance of water in growth and development of Tea Plant , Importance and Management of Irrigation and Drainage system practices in Tea.

UNIT-II

Young Tea Management 1

1 Credit (10 marks)

'Methods of bringing up of young tea plant, Objectives of formative prunes. Schedule of operations for bringing - up of youngtea, nutrient management in young tea.

UNIT-III

1 credit (10 marks))

Pruning &Skiffing

What is pruning? Why pruning is necessary & when the operations followed. Training on different types of Pruning to develop pruning skills, What is the Pruning cycle followed in Garden & what height is considered in different types of pruning what is the percentage maintained for different types of pruning & Why?

UNIT-IV

1 credit (10 marks)

Plucking & Tipping

Methods of Plucking & Tipping in Young Tea Plants & Matured tea, Methods of plucking for maintenance of plant canopy, maintenance of Plucking Table of the Tea plants for getting maximum yield as well as Quality, Plucking round management.

Practical

20 marks

- 1. Pruning and Skiffing operation carried out in field.
- Plucking and Tipping practices in the garden.
- 3. Preparation of different types of drainage system.

Internal Assessment

15 marks

Assessment on the basis of theory.

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2ND SEMESTER Paper: S 2.2: Plant Protection (6 Credits)

Overview & key learning as per NOS:

After going through this paper, the students will acquire the meaning of IPM (minimum ETL), which ultimately reduced the affect in the ecology. It also helps in developing the skill in identification of major pests, diseases and different species of weeds attacking on tea bushes along with their control measures by means of using inorganic chemical, organic and biological methods of control. The students will also able to know about PPC; as well as the TBI recommended chemicals, which have a very low residual effect on made tea & ultimately does not affect in the health of tea consumed peoples of the world.

Total Marks: 75

Theory-40+ Practical-20 +Internal Assessments-15

UNIT-1

Pest Management in Tea

1 Credit (10 marks)

Identification, symptoms and control measures by various synthetic chemical, organic chemicals, biological trap, Integrated Pest control measures.

UNIT-II

Disease Management

1 Credit (10 marks)

Identification, symptoms and control measures by various synthetic chemical, organic chemicals, Integrated disease control measures.

UNIT- III

Weed management

1 Credit (10 marks)

Identification, symptoms and control measures by various synthetic chemical, organic chemicals. Methods of collar weeding.

UNIT-IV

Stress Management in Tea

1 Credit (10 marks)

How the drought management overcome, Management in water logged condition, Rain water Harvest methods and procedure, Climate changeand Climate Resilient in Tea, Use of Mulching with a proper thickness, proper use of Growth regulators, use of lime /pyrite, if the soil is too acidic or alkaline.

Practical

20 marks

- 1. Identification of different pest & diseases &their symptoms.
- 2. Identification of different stress symptoms .

Internal Assessment

15 marks

Assignment on the basis of theory. Submission of herbariums on weeds,

Collection of Pests and Diseases.

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2nd SEMESTER

soil nutrients and shade.

Paper: S2.1: Soil Nutrient Management (6 credits)

Overview and key learning as per NOS:

After studying these units of 2nd Semester, the students will be able to learn maintenance and importance of Shade trees, management of Infills, Nutrition management and their functions, foliar application and deficiency symptoms of nutrients.

Total Marks: 100

Theory-40+ Practical 40 +Internal Assessments-20

UNIT-1

1 credit (10 marks)

Shade Tree & Maintenance of Shade tree

Advantage of Shade tree, what are the plants used as shade tree, spacing of shade tree, treatment of shade tree to become free from disease & Pest.

UNIT-II

1 credit (10 marks)

Management of Infills

Causes and Objectives of Infilling. Different situations for infilling, infilling operations, manuring of infills.

1 credit(10 marks)

Soil Nutrients Management in Tea Plantation

Soil conservation, role of soil nutrient in the growth and development of tea, study on nutrients deficiency symptoms and it improvement practices for growth and development for tea plantations in terms of maximum production.

UNIT- IV

Mineral Nutrition of Tea

11Grentitt (10 marks)

Function of major & micro nutrient in Tea, Soil fertility & crop productivity, Use of Lime and Iron Pyrite why & when needed. Nutrient management in young tea, nutrient management in mature tea, foliar application of nutrients and deficiency symptom of nutrients.

Practical

40 marks

Field visit and Laboratory works

- 1 .Visit to nearby tea estates to study the shade trees and nutrient deficiency symptoms.
- 2. Calculation of YTD and manuring policy of mature tea.

20 marks

Internal Assessment

Preparation of report on field visit and submission of herbarium.

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INTIATIVE OF THE INSTITUTE

- **Cutting and Embroidery**
- **❖Spoken English**

The syllabus of the course was designed by the faculty for a period of three
months.
☐ Syllabus for Cutting
o Peticoat
o Simple Blouse
o Pillow case
o Chaili Blouse
o Line Forck
o Design forck
o Round cut forck
o Ladies kurta
o Sallwar
o Bel Salawar.
o Churidar
o Apron
o Simple pyjama
o Baba suit
o Nighty
Syllabus for Embroidery:
1. Running stitch
2. Line work.
3. Bakul phool.
4. Curly barly.

5. Glass work
6. Lachhi stitch
7. Long and short stitch
8 .Open work
9. Round stitch
10. Applique work
11. Eyelet and cut work
12. Needle work
13. Chumki work
14. Bihu dance.
15. Wool work.
16. Kashmiri stitch
17. Buttonhole work
18. Applique and fancy stitch on net
19. Hem stitch
20. Silver or golden thread work

SYLLABUS FOR SPOKEN ENGLISH

MODULE

1. The IPA: 20 Vowel sounds -- Symbols and Words 3 hours 🗸

24 consonant sounds

2. Words/Sentences -- Speaking Practice 2hours

3. Stress/Accent/Tone/Intonation do

4. Some aspects of Grammar 6 hours -- The Sentence

> --Framing negatives --Framing questions

--Question Tags

-- Exclamatory sentences

--Passives

--Using Indirect questions

--Narrating

--Using to forms and ing forms

--Verbs

-- Using do does and did

--Use of helping verbs

--Modal auxiliaries

--Use of Past Participle

--Tense

--Adverbials

--Linking words etc.

-- Making requests 5 hours Communicating

-- Greeting/leave taking

-- Expressing gratitude.

-- Apologising/accepting an apology.

-- expressing necessity/obligation

--Stating preferences

-- Making suggestions

--Asking for information (Questions)

6. Communicating

-- Complaining

8 hours

-- Giving opinions

-- Expressing probability

--Hesitating

--Persuading

--Expressing a purpose

--agreeing or disagreeing

--expressing intentions etc.

-- Imagining situations

7. Common Errors

2 hours

8. Vocabulary

5 hours

9. Words/sentences

--Listen and repeat

5 hours

sound/intonation.

10. Conversation

--Given topics

6 hours

-- Practice in groups

11. A demonstration by the students of the course

1hour.

Total Secretary Party of the Secretary

PGDCA Courses Approved by Dibrugarh University



ARH UNIVERSITY :: DIBRUG REGISTRAR

ORDER

As authorized by the Affiliation Committee, D.U. held on 02.06.2022, the Hon'ble Vice-Chancellor, D.U. is pleased to accord provisional permission to Jorhat Kendriya Mahavidyalaya, P.O- Chengali Gaon, Dist: Jorhat, Assam, to introduce PGDCA Programme w.e.f the academic session (2022-2023) under CBCS mode as per the Dibrugarh University Syllabus under report to the Executive Council, D.U. Subject to fulfillment of following conditions,

- 1. The Maximum intake shall be 20 (Twenty)
- Required software shall be procured commencement of Second Semester.
- Text books for PGDCA as per the University syllabus shall be procured.
- 4. One 6 K.V.A online UPS shall be procured and installed.
- 5. The College shall submit Compliance report.

30/2/2 Regist Dibrugarh

Dibrugarh

Dibrugarh Dibrugarh Spe

Copy to:

- The Hon'ble Vice-Chancellor , D.U. for favour of information please
- 2 The Secretary to the Govt. of Assam, Department of Higher Education, Dispur, Guwahati, for information please.
- The Director of Higher Education, Assam, Kahilipara, Guwahati, for information please The Dean, Faculty of Science & Engineering, D.U for kind information please
- The Chairperson, Centre for Computer Science & Application, DU for information please The Controller of Examinations, D.U. for information

- The Controller of Examinations, D.U. for information

 The Joint Controller of Examinations -C, D.U for information

 The Deputy Controller of Examination B(ic), D.U for information

 The Deputy Controller of Examination A, D.U for information

 The Joint Registrar (Academic), D.U. for information

 The Principal, Jorhat Kenstriya Mahavidyalaya, P.O- Chengal Amam, 785010

 The Section Officer, Exam-B, D.U. for information and necessary action. P.O. Chengali Gaon, Dist: Jorhat,
- 13. File.

Registrar i/c Dibrugarh University

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POST GRADUATE DIPLOMA OF COMPUTER APPLICATION (P.G.D.C.A.) COURSE

FIRST SEMESTER

Course No.	Subject	Ma	ırks
	-	Theory	Practical
Course 101	Fundamental of Computers	60	40
Course 102	Programming with C	60	40
Course 103	Relational Database Management System	40	60
Course 104	Data Communication and Computer Network	40	60
Course 105	Project I	1	00

SECOND SEMESTER

Course No.	Subject	M	arks
		Theory	Practical
Course 201	Introduction to Multimedia	60	40
Course 202	Desktop Publishing	40	60
Course 203	Internet & Web Technology	60	40
Course 204	Mobile Technology	60	40
Course 205	Project II	1	00

Course No:	Course Name:	Marks		
101	Fundamental of Computers	Theory: 60	Practical: 40	Total: 100

Objective:

The course is designed with an objective to

- Discuss about computers and their applications,
- Explain the concept of various number systems,
- Explain fundamental concepts of computer hardware and software,
- Discuss the various operating system environments.
- Introduce the various features of Microsoft Office.

Learning Outcome:

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

 Identify computer hardware and peripheral devices,
 - Differentiate various number systems,
 - Distinguish the advantages and disadvantages of various operating systems.
 - Use Microsoft Office suite.

PART - A: Theory (TH:101)

Unit I: Introduction Marks: 12

Basics of computer, Characteristics of computers, Classification of computers. Input, output and storage devices.

Unit II: Number System

Marks: 12

Binary, Decimal, Hexadecimal, and Octal systems, Conversion from one system to the other, representation of characters, integers and fractions, Binary arithmetic, BCD, EBCDIC, ASCII, Unicode, XS-3, Grey Codes.

Marks: 12

Unit III: Computer languages & Software Introduction to machine language, assembly language, high level language, 4GL, Compiler, Interpreter, Assembler, System Software, Application Software.

Unit IV: Operating Systems

Introduction to Operating Systems (Disk Operating System, Windows, Unix, Linux), System Administration, Shell Programming

Unit V: Office Automation Tools

Marks: 12

Introduction to MS Office suite, its features and uses- Word processing, Spreadsheet and Presentation.

PART - B : Practical (PR:101)

- Basics of DOS and Unix commands
- Basic Windows and Linux operations MS Office package (Word processing, Spreadsheet and Presentation)
- System Administration
- Shell Programming

Course No:	o: Course Name: Marks				
102	Programming with C	Theory: 60	Practical: 40	Total: 100	

Objective:

The course is designed with an objective to

- Explain the fundamental concepts of C programming language.
- Demonstrate C coding.
- Explain the skills for problem solving using C Program.

Prerequisite:

Basic reasoning ability.

Learning Outcome:

On completion of the course, students will be able to

- Comprehend fundamental concepts of C program.
- Develop C code for different problems.

PART - A: Theory (TH:102)

Unit I: C fundamentals

C fundamentals, variables, data types, operator & expression, I/O functions and statements, basic structure of a C program, simple programming examples.

Unit II: Control Statements and Loop Control Structures.

Marks: 12

Marks: 12

if-else, nested if-else, switch, for loop, while loop, do-while loop, goto statement, break statement, continue statement, exit() function, programming examples.

Unit III: Arrays and String Manipulation

Marks: 12

Defining an array, array initialization, processing an array, multidimensional array, strlen() function, strcat() function, strcmp() function, strcpy() function, programming examples.

Unit IV: Functions and Pointer

Marks: 12

Overview of a function, defining a function, accessing a function, call by value, recursion, Storage classes, pointer declarations, expressions using pointers, pointers as function argument, call by reference, programming examples.

Unit V: Structures and File Management

Marks: 12

Structures, Declaration and Initializing Structure, Accessing Structure members, Defining and opening a file, closing a file, input/output operations on files, programming examples.

PART - B : Practical (PR:102)

- Fundamental C Programs.
- Programs using control statements and loop control structures.
- Programs implementing concepts of array and string functions.
- Programs implementing storage classes.
- Programs implementing concepts of functions & pointers.
- Programs using structures and files.

Course No:	Course Name:			Marks			55 ET-10 T
103	Relational Database Management System	Theory:	40	Practical:	60	Total:	100

Objective:

The course is designed with an objective to

- Discuss the concept of database
- Explain data modeling and database design.
- Discuss the use of SQL.

Prerequisite:

Basics of data, information, fact.

Learning Outcome:

On completion of the course, students will be able to

- Define database.
- Explain the advantages of database.
- Construct database model.
- Use RDBMS's back end and front end tools.

PART - A: Theory (TH:103)

Unit I: Database Concept

Data-Base concept: data, meta data, data item, files, Database, DBMS, Concept of Schema, View

Unit II: Relational DBMS Marks:10

RDBMS terminologies, Advantages of RDBMS, Concept of Keys (Primary, Foreign, Composite)

Unit III: Data Modeling

Data Modeling concept, ER modeling, Functional dependency, Database Normalization, Advantages, Different Normalization forms, (Up-to 3NF)

Unit IV: SQL Marks:10

Introduction to Structured Query Language, data types,

DDL, DML and DCL Commands.

Joins, Index, Views

PART - B: Practical (PR:103)

- Introduction to MySQL and any other SQL Tool. Database connectivity through Visual Basic

Course No:	Course Name:	Marks					
104	Data Communication and Computer Network	Theory:	40	Practical:	60	Total:	100

Objective:

The course is designed with an objective to

Introduce basics of Data Communications and Computer Networks.

Learning Outcome:

On completion of the course, students will be able to

- Describe fundamental concepts of data communication and computer networks.
- Illustrate the Layers of ISO/OSI and TCP/IP reference model.

PART - A: Theory (TH:104)

Marks:8 Unit I:

Introduction to computer networks, analog and digital transmission.

Marks:8

Types of transmission: parallel and serial communication, Asynchronous and synchronous communication, modes of communication: simplex, half duplex & full duplex. Multiplexing concept

Marks:8

Marks
Types of networks, Network topologies, Transmission media: guided and unguided media, Introduction to wireless networks.

Unit IV: Marks: 8

Network reference models, ISO/OSI and TCP/IP

Marks: 8

Internetworking devices, Error control & detection mechanisms.

PART - B: Practical (PR:104)

- Familiar with networking devices and transmission media.
- Basic network commands.
- Hands on practice on basic network design.
- Network setup, Monitoring and Administration

Text Books:

- 1. Godbole.S.A," Data Communication and Networking", Tata McGraw Hill , 2nd Edition, 2011
- 2. Bhusan T, "Data Communication and Networks", Oxford University Press 1st Edition, 2016

Reference Books:

- 1. William S, "Data and computer communications", Pearson education Asia, 7th Edition, 2011.
- 2. Forouzan, B. A. "Data Communication and Networking "Tata McGraw Hill, 6th edition, 2014.

Discussion

> Application: FTP, Telnet, Internet

Course No: 105	Course Name: Project I	Project Work	Seminar	Viva	Total
0.00000		60	20	20	100

Objective:

The course is designed with an objective to

- > Explain basics of system analysis and design.
- Implement the concepts of 1st semester courses.

Learning Outcome:

On completion of the course, students will be able to

- > Comprehend fundamental concepts of system analysis and design
- Use and apply the concepts of courses of the 1st semester PGDCA programme.

Course Work on System Analysis and Design:

Basics of System, System element, System Planning and Analysis, SDLC, DFD, DSS, Data and fact gathering techniques, Feasibility study

Project Guidelines:

Students will have to implement a minor project based on the subjects covered in this semester. They have to submit a project report and appear for seminar and viva.

Course No:	Course Name:	Marks		Marks	
201	Introduction to Multimedia	Theory: 60	Practical: 40	Total: 100	

Objective:

The course is designed with an objective to

- Introduce the fundamental elements of multimedia.
- Describe how still images, sound, and video can be digitized on the computer.

Learning Outcome:

On completion of the course, students will be able to

- Summarize the key concepts in current multimedia technology.
- Create quality multimedia software titles.

PART - A: Theory (TH:201)

Unit I: Introduction to Multimedia

Basics of multimedia and its Components, Fonts and hypertext.

Unit II: Audio fundamentals and representations

Marks:10 Marks:15

Digitization of sound, frequency and bandwidth, decimal system, data rate, audio file format, sound synthesis, MIDI, wavetable, compression and transmission of audio on internet, adding sound to multimedia project.

Unit III: Image Fundamentals and representations

Colour science, colour, colour models, colour palettes, Dithering, 2D Graphics, Image compression and File Formats.

Unit IV: Video and Animation

Marks:15

Video Basics, Broadcast Video Standards, Analog video, Digital video, Video Recording and Tape formats, Shooting and Editing Video, Video Compression and File Formats. Video compression .

Marks:10 Unit V: Animation

Cell Animation, Computer Animation, Morphing

PART - B: Practical (PR:201)

> Assignments may be handled using Multimedia tools, such as Flash, Dreamweaver, Photoshop etc. or any other open source multimedia tools.

Text Books:

- 1. Jain S., Singh S., Iyer M. G., "Introduction to Multimedia" BPB, Reprint 2015.
- Parekh Ranjan, "Principles of Multimedia", 2nd Edition, Tata McGraw-Hill, 2012.
 Nahrstedt K., Steinmetz R., "Multimedia", 2nd Edition, Pearson, 2014.

Course No: Course Name:		Marks					
203	Internet & Web Technology	Theory: 60	Practical: 40	Total: 100			

Objective:

The course is designed with an objective to

- Discuss different technology aspects of internet.
- Explain about importance of E-commerce, internet security,
- Explain how an internet works.
- Write program in HTML, java Scripts to design web pages

Prerequisite:

Course 104

Learning Outcome:

On completion of the course, students will be able to

- Develop and publish web sites.
- Resolve Code and troubleshoot HTML web pages, incorporating CSS and JavaScripts.

PART - A: Theory (TH:203)

Unit I: Introduction to Internet

Marks: 15

Basics of internet, Internet protocols, Internet vs Intranet, ISP, URLs, Email, File Transfer Protocol, Internet chatting, Web Servers , Web Browsers and their functions, Search Engines, Internet issues, security. Introduction to E-Commerce, Meaning, Objective, challenges and opportunities.

Unit II: Introduction to HTML
Basics of HTML, HTML Tag, HTML Documents, Head & Body Sections, Building HTML documents, Inserting texts, Images, Hyperlinks, Backgrounds and Color controls, Different HTML tags, Table layout, Use of font size & Attributes, List types and its tags, forms in web pages, CSS definition and application Web publishing

Unit III: Basics of JavaScript

Marks: 15

JavaScript Overview, syntax & conventions. Variables, Expressions, Looping statements, Functions, Arrays Objects, Events - onClick, on Mouse Over, on Submit, on Focus, on Change, on Blur. On Load, onUnload, Alerts, Prompts & Confirms.

Unit IV: Basic of PHP

Introduction to PHP file, Operators and expressions; Conditional statements and iterations in PHP; Connecting to the Database selecting the Database Table, Executing commands and closing the connection to the Database.

PART - B: Practical (PR:203)

- Designing of Web page using HTML, JavaScripts and PHP
- Web application development

Course No: Course Name:		Marks				
204	Mobile Technology	Theory: 60	Practical: 40	Total: 100		

Objective:

The course is designed with an objective to

- Discuss different mobile operating system.
- Discuss different methods for mobile application development.

Prerequisite:

Basic Idea of mobile OS, html.

Learning Outcome:

On completion of the course, students will be able to

- Explain different mobile operating system.
- Discuss various mobile technologies.
- Develop mobile applications.

PART - A: Theory (TH:204)

Unit I: Mobile Terminology Marks:10

Mobile terminology: GSM, CDMA, WAP, GPRS, WCDMA, 3g, 4g, LTE, sensors.

Unit II: Mobile Operating Systems Marks :10

Operating systems concepts, Mobile operating system, Google Android, Apple IOS.

Unit III: Technologies for Mobile Application Development Marks :20

Java, XML, HTML5, J-query, C#.

Unit IV: Application Development Platforms Marks :20

Android studio, Eclipse, App-Builder.

PART - B: Practical (PR:204)

- Android application development
- Hybrid Application Development

Text Books:

- Horton, J, "Android Programming for Beginners", Packt Publishing Ltd, Paperback Edition, 2015
 Shildit, H, "Java: A beginners Guide", McGraw Hill Education, Sixth edition 2014
- 3. Talukder A., Yavagal A., "Mobile Computing", Tata McGraw Hill, 2nd edition 2012

Reference Books:

- 3. Horton J, "Learning Java by Building Android Games", Packt Publishing Ltd, Paperback Edition, 2015
- 4. Schiller J., "Mobile Communication" Pearson education, 2nd edition 2014

Discussion:

Brief mentioning of the following:

BlackBerry OS, Symbian, BADA, Firefox OS, Microsoft's Windows Phone OS, PALM OS, Tizen OS.

Course No: 205	Course Name: Project II	Project Work	Seminar	Viva	Total
		60	20	20	100

Objective:

The course is designed with an objective to

Implement the concepts in real life applications

Learning Outcome:

On completion of the course, students will be able to

Use and apply the concepts of courses of the PGDCA programme.

Project Guidelines:

Students will have to implement a minor project based on the subjects covered in the programme. They have to submit a project report and appear for seminar and viva.