



VSPM Academy of Higher Education
Arvindbabu Deshmukh Mahavidyalaya Bharsingi
NAAC SSR 2018-2023



Criterion 1 – Curricular Aspects

Key Indicator – 1.2 Academic Flexibility

QIM – 1.2.1 Number of Certificate/Value added courses offered and online courses of MOOCs, SWAYAM, NPTEL, etc. (where the students of the institution have enrolled and successfully completed during the last five years)

- **Syllabus and outcomes of Certificate courses**



Prakash Pawar
Principal

VSPM Academy of Higher Education

ARVINDBABU DESHMUKH MAHAVIDYALAYA

BHARSINGI, Dist. Nagpur - 441305


NAAC Re-accredited with 'B***' Grade (CGPA 2.81)

Sl. No. : ADM / 2023-24 / 115

Date 21/10/23

This is to declare that the data provided in this file in the form of information, supporting documents, numerical data, and reports are verified by the IQAC and Principal and found correct.


Co-ordinator
IQAC
Arvindbabu Deshmukh
Mahavidyalaya, Bharsingi


PRINCIPAL
ARVINDBABU DESHMUKH MAHAVIDYALAYA
BHARSINGI, DIST. NAGPUR

Session 2018-19

Syllabus and Outcomes:

CC302: Welding and Fabrication



VSPM Academy of Higher Education, Nagpur
Arvindbabu Deshmukh Mahavidyalaya, Bharsingi

Certificate Course

Welding and Fabrication

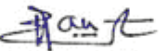
Session- 2018-19

Syllabus

Sr. No.	Topic	Syllabus	Period (Hour)
1	Apply Safe Working practice	1. Importance of trade training. 2. Machinery used in the trade. 3. Introduction to safety equipment and their use. 4. Hack sawing, filling square to dimensions. 5. Safety precautions in Shielding Metal Arc Welding, and Oxy-Acetylene Welding and Cutting	5
2	Join MS sheet by gas welding in different positions.	1. Setting up of Arc welding machine & accessories and striking an arc. 2. Setting of oxy-acetylene welding equipment, lighting and setting of flame.	4
3	Join MS plates by SMAW in different positions.	1. Fusion run without and with filler rod on MS sheet 2mm thick in flat position 2. Edge joint on MS sheet 2mm thick in flat position without filler rod. 3. Marking and straight line cutting of MS plate 10 mm thick by gas	6
4	Perform straight, bevel & circular cutting on MS plate by oxyacetylene	1. Straight line beads on MS plate 10 mm thick in flat positions. 2. Weaved bead on MS plate 10mm thick in flat position	15



		<p>3. Square butt joint on MS sheet 2 mm thick in flat position.</p> <p>4. Fillet 'T' Joint on MS plate 10 mm thick in flat position.</p> <p>5. Beveling of MS plates 10mm thick by gas cutting.</p> <p>6. Open corner joint on MS 2 mm thick on flat position.</p> <p>7. Filler Lap joint on MS sheet 2 mm thick in flat position.</p> <p>8. Single 'V' Butt joint on MS sheet. 12 mm thick in flat position</p> <p>9. Square Butt joint on MS sheet 2mm thick in Horizontal position.</p> <p>10. Straight line beads and multilayer practice on MS plate 10 mm thick in Horizontal position.</p> <p>11. Different type of pipe welding</p>	
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Dr. N. M. Raut
In-charge

Welding & Fabrication Course

VSPM Academy of Higher Education
Arvinbaba Deshmukh Mahavidyalaya, Bharsingi
Tah. Narkhed Dist. Nagpur
Session- 2018-19
Course Name- "Welding and Fabrication"

Outcomes

- Students should be able to establish their own business.
- Students able to apply knowledge of industrial safety standards to both field and factory environments.
- Students should be able to apply knowledge, skills, and modern techniques of welding in welding work.
- Students should be able to conduct visual, destructive, and non-destructive testing methods to determine weld integrity and physical and mechanical properties of metals as related to weldability and satisfy customer requirements.


PRINCIPAL
ARVINBABA DESHMUKH MAHAVIDYALAYA
BHARSINGI, DIST. NAGPUR



VSPM of Higher Education Society, Nagpur
Arvindbabu Deshmukh Mavidyalaya,
Bharsingi Session : 2018-19



Certificate Course In Fashion Designing

Course outcomes

1. 'फॅशन डिझाईनिंग' ही एक प्रकारची कला आहे.
2. लोकप्रिय वस्त्रभूषणांची कलात्मक रचना म्हणून विद्यार्थ्यांना समजले.
3. 'फॅशन डिझाईनिंग' या कोर्समुळे विद्यार्थ्यांनी चित्रकला, हस्तकला व रेखाकृती हे आत्मसात केले.
4. 'फॅशन डिझाईनिंग' या कोर्समुळे विद्यार्थ्यांमधील सर्जनशीलता कलात्मकता आणि चांगले संवाद कौशल्य वाढीस लागले.
5. या अभ्यासक्रमामुळे विद्यार्थ्यांमधील श्रेयकेंद्रीत परिमाणात विचार करण्याची क्षमता व त्यांची कल्पनाशक्ती वाढण्यास मदत झाली.
6. या अभ्यासक्रमामुळे विद्यार्थ्यांमधील सुतगुण व प्रतिभा वाढण्यास मदत झाली.
7. या अभ्यासक्रमामुळे विद्यार्थी आपल्या शिवणकामात नवीन योजना व आराखडा तसेच बदलत्या काळानुसार आधुनिक संस्कृतीनुसार रचनात्मक वस्त्रे शिवायला शिकले.
8. या अभ्यासक्रमामुळे विद्यार्थी आपले कौशल्य आणि नाविन्यपूर्ण कल्पना वापरून वस्त्रांना नवीन व सुंदर रूप देऊ शकेल.
9. या अभ्यासक्रमामुळे विद्यार्थ्यांमधील पैसे कमविण्याची क्षमता वाढण्यास मदत होऊल.
10. 'फॅशन डिझाईनिंग' हा अभ्यासक्रम विद्यार्थ्यांना स्वतःचा व्यवसाय करायला प्रेरित करताना दिसतो.


FACULTY INCHARGE


PRINCIPAL
ARVINDBABU DESHMUKH MAHAVIDYALAYA
BHARSINGI, DIST. NAGPUR

Session 2018-19

Syllabus and Outcomes

CC303: Certificate Course in Vermicompost

Arvindbabu Deshmukh Mahavidyalaya, Bharsingi
Department of Zoology
2018-2019

Title of course: Certificate course in biofertilizers: Vermicomposting

Objective:

- To inculcate concepts of biofertilizers like vermicomposting.
- To understand techniques in Vermicomposting.
- To increase employability of the students.
- To improve the soil quality by promoting the biofertilizers.

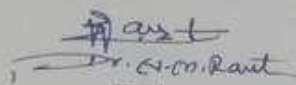
Duration of course : Six months

Course structure :
1) Paper I : Theory
2) Paper II : Practical

Eligibility for admission : H.S.C. or equivalent qualification

Skeleton of the course:

Sr.No	Paper	Name of subject	Teaching hours	Maximum marks allotted			Passing		
				External	Internal	Total	External	Internal	Total
	Paper I	Theory	45	80	20	100	32	08	40
	Paper II	Practical	60	80	20	100	32	08	40


Dr. G. M. Raut
Head
Department of Zoology
Mahavidyalaya


Principal
PRINCIPAL
ARVINDBABU DESHMUKH MAHAVIDYALAYA
BHARSINGI, DISTT.-NAGPUR

Syllabus

Certificate course in biofertilizers: Vermicomposting

Periods 45

Paper I- Theory

Unit-1

- 1.1 Vermicomposting : Introduction and Scope 02
- 1.2 Types of Earthworm and Classification Epigeic, Endogeic, Diageic 02
- 1.3 Life history of Earthworms (Earthworm Species *Eisenia foetida*) 05

Unit-2

- 2.1 Objectives of Vermicompost 02
- 2.2 Vermicompost Production : Establishment of Vermicomposting and Vermiwash unit 05
- 2.3 Different Methods of Vermicomposting: Small and large scale Bed method
- 2.4 Harvesting the Compost 02
- 2.5 Storing and packing of vermicompost 02

Unit-3

- 3.1 Precautions while Vermicomposting 03
- 3.2 Physico- chemical analysis of vermicompost: 03
- 3.3 Physical Parameters of vermicompost 03
- 3.4 Nutrient content of vermicompost and their role in agriculture 03
- 3.5 Benefits of vermicompost 03
- 3.6 Pests and diseases of Earthworms 04

Syllabus

Certificate course in biofertilizers: Vermicomposting

Paper II- Practical

- Scientific classification of Earthworm
- Study of external morphology of Earthworm- *Eisenia foetida*
- Study of habit and habitat of Earthworm- *Eisenia foetida*
- Study of Digestive system of earthworm
- Study of Reproduction of earthworm
- Establishment of vermicomposting unit Pit method
- Establishment of vermicomposting unit Bed method
- Establishment of vermiwash unit
- Vermicompost production, harvesting and packaging.
- Study of cocoon and vermicast
- Study of Pests and diseases of Earthworms

References

- The Textbook of Vermicompost, Vermiwash and Biopesticides : Keshav singh and et al
Publisher: Biotech Books
- The Book Hand Book Of Biofertilizers & Vermiculture
Publisher: Engineers India Research Institute
- Handbook of Organic Farming and Organic Foods With VermicompostingNeem
Publisher: Engineers India Research Institute
- Text Book of Applied Zoology: Vermiculture, Apiculture, Sericulture, Lac Culture,
Agricultural Pests and their Controls: Pradip Jabde
Publisher: Discovery Publishing House

- *The Worm Farmer's Handbook Mid- to Large-Scale Vermicomposting for Farms, Businesses, Municipalities, Schools, and Institutions*: Rhonda Sherman
Publisher: Chelsea Green Publishing
- *Vermiculture Technology: Earthworms, Organic Wastes, and Environmental Management*:
Clive A. Edwards, Norman Q. Arancon, Rhonda L. Sherman
Publisher: CRC Press 2010
- *Commercial Vermiculture: How to Build a Thriving Business in Redworms*: Peter Bogdanov
- *Applied Zoology*: N Arumugam , T Murugan , R Ram Prabhu , J Johnson Rajeshwar.
Publisher: Saras Publication
- *Worm Farming: Setup A Sustainable Vermiculture Earthworm Composting Ranch*; Brian Grant
Publisher: Sparrow Publications.

Arvindbabu Deshmukh mahavidyalaya, Bharsingi
Department of Zoology
2018- 2019

Certificate Course in Vermicomposting

Course Outcomes

- To increase human livelihood opportunities to the rural area people
- To increase the soil quality of the farm
- It makes way for utilization of available organic wastes to produce the rich source of organic manure of high quality, which is superior to other types of organic manures in its physico-chemical and biological properties.
- ¹ The programme provides job opportunities for the unskilled labour force.

The objectives of this project were:

- 1) To determine the optimal vermicompost/soil admixture for growth of *Pelargonium hortorum*.
- 2) To compare the growth of geraniums in the optimal vermicompost/soil admixture to those grown in standard potting soil supplemented with chemical fertilizer. After library research, it was believed that geranium growth would vary among different vermicompost/soil admixtures, and that optimal vermicompost/soil admixture would produce better plant growth than chemical fertilizer. Therefore, the null hypotheses were: i) There would be no significant differences among geranium growth in different vermicompost/soil admixtures; and ii) There would be no significant differences in geranium growth between the optimal vermicompost/soil admixture and those supplemented with chemical fertilizer.


Session 2018-19

Syllabus and Outcomes

CC305: Tally

SYLLABUS OF TALLY ERP 9.0.

- WHAT IS ACCOUNTING
- ACCOUNT BASIC
- TYPES OF ACCOUNT IN TALLY
- PERSONAL ACCOUNTS.
- REAL ACCOUNT
- NOMINAL ACCOUNT.
- RULES OF ACCOUNTS
- CREATING COMPANY IN TALLY.
- LEDGER & GROUP IN TALLY
- CREATING LEDGER IN TALLY
- ALTERING LEDGER and GROUP IN TALLY
- TYPES OF VOUCHER in Tally
- CONTRA VOUCHER IN TALLY
- RECEIPT VOUCHER IN TALLY
- PAYMENT VOUCHER IN TALLY
- JOURNAL VOUCHER.
- SALES
- PURCHASE, MEMO
- VOUCHER CREATION IN TALLY
- RULES OF ENTERING VOUCHER, DISPLAY OF LEDGER & GROUP
- DISPLAY & ALTERING REPORTS IN TALLY
- LIST OF LEDGER IN TALLY
- CASH BOOK IN TALLY
- BANK BOOK,
- PURCHASE BOOK IN TALLY
- SALE BOOK
- JOURNAL BOOK IN TALLY
- FINALIZATION OF ACCOUNTS IN TALLY
- TRADING A/C.
- PROFIT & LOSS A/C
- BALANCE SHEET
- VAT
- PRINTING IN TALLY


Principal
Arvindbabu Deshmukh Mahavidyalaya
Bharsingi, Dist. Nagpur



TALLY.ERP 9 SYLLABUS

1. Basics of Accounting

Types of Accounts, Golden Rules of Accounting, Accounting Principles, Concepts and Conventions, Double Entry System of Book Keeping, Mode of Accounting, Financial Statements, Transactions, Recording Transactions

2. Fundamentals of Tally.ERP 9

- Getting Functional with Tally.ERP 9
- Creation / Setting up of Company in Tally.ERP 9

3: Accounting Masters in Tally.ERP 9

- F11: Features
- F12 : Configurations
- Setting up Account Heads

4: Inventory in Tally.ERP 9

- Stock Groups
- Stock Categories
- Godowns / Locations
- Units of Measure
- Stock Items
- Creating Inventory Masters for National Traders

5: Voucher Entry in Tally.ERP 9

- Accounting Vouchers
- Inventory Vouchers
- Invoicing

6: Advanced Accounting in Tally.ERP 9

- Bill-wise Details
- Cost Centres and Cost Categories
- Voucher Class and Cost Centre Class
- Multiple Currencies
- Bank Reconciliation
- Interest Calculations
- Budgets & Controls
- Scenario Management



ARVINDBABU DESHMUKH MAHAVIDYALAY, BHARSINSI.
DEPARTMENT OF COMMERCE

ADVANCE COURSE TALLY 9.0

SESSION:- 2018-19

Outcomes in Tally

Certificate Course in Tally ERP 9

Name of Course	Certificate Course in Tally ERP 9		
Duration	40Hrs	Modules	4
Course Objective	<ol style="list-style-type: none">To impart knowledge regarding concepts of Financial Accounting. Tally is an accounting package which is used for learning to maintain accounts.This course helps students to work with well-know accounting software i.e. Tally ERP.9.To make students capable to create company, enter accounting voucher entries including advance voucher entries, reconcile bank statement, do accrual adjustment, and also print financial statements, etc. in Tally ERP.9.Accounting with Tally certificate course is not just theoretical program, but it also include continuous practice, to make students ready with required skill for employability in the job market.		
Course outcomes:	<ol style="list-style-type: none">After successfully qualifying practical examination, students will be awarded certificate to work with well-known accounting software i.e. Tally ERP.9.Student by their own will create company, enter accounting voucher entries including advance voucher entries, reconcile bank statements, do accrual adjustments, and also print financial statements, etc. in Tally ERP.9 software.Students will possess required skill and can also be employed as Tally data entry operator.		
Career Prospects:	<ul style="list-style-type: none">Even if you are currently employed, learning Tally and obtaining a certificate will improve your chances for a promotion or you may even land a better job. Tally will give a much-needed boost to your career by enhancing your knowledge in Accounting, Inventory Management, and Taxation. <p>This program opens up various avenues for students. After the completion of the program, as a fresher you can begin your career as:</p> <ul style="list-style-type: none">Accounts executiveJunior accountantData entry operatorAccounts assistantTally operatorAccountant trainee		
Course Contents			
Module-2:	Duration :	15 Hrs.	
10 Hrs Chapter V: Accounts Receivable and Payable Management. Chapter VI: MIS Reports. Chapter VII: Recording Vouchers with TDS			
Module-2:	Duration :	10 Hrs.	
Chapter VIII: Recording Vouchers with TDS (Tax Deducted at Source) Goods and Services Tax (GST) - Introduction Shortcut Keys Practice			

- All the classes will be conducted in the computer lab by the externals.
- Certificate will be awarded by Tally Academy Bangalore after online assessment test.

Arvindbabu Deshmukh Mahavidyalaya
Bharsingi, Dist. Haveri

Session 2018-19

Syllabus and Outcomes

C304: Certificate Course in Communicative English

Arvindbabu Deshmukh Mahavidyalaya, Bharsingi

SYLLABUS

Communicative English Course

Session 2018-2019

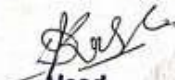
Total Marks : 100

UNIT : I	Grammar and Vocabulary.	Marks	
	1) Article	-	05
	2) Preposition	-	05
	3) Synonyms	-	05
	4) Antonyms	-	05
	5) One word substitution	-	05
UNIT : II	Grammar.		
	1) Tenses	-	15
	2) Voice	-	10
UNIT : III	Grammar and Letter Writing.		
	1) Punctuation	-	10
	2) Transformation	-	05
	3) Letter Writing	-	10
UNIT : IV	Conversational Skills.		
	1) Matching the Dialogue	-	10
	2) Paragraph Writing	-	05
	3) Application along with curriculum vitae	-	10

Reference Books:

- 1) Learner's English Grammar and Composition By N. D. V. Prasad (S. Chand & Company Ltd.)
- 2) English For Practical Purpose by Z. N. Patil, B. S. Walke, Ashok Thorat, Zeenat Merchant (Macmillan)
- 3) Macmillan Foundation English By R. K. Dwivedi & A. Kumar


PRINCIPAL
ARVINDBABU DESHMUKH MAHAVIDYALAYA
BHARSINGI, DIST. NAGPUR


Head
Department of English
Arvindbabu Deshmukh Mahavidyalaya
Bharsingi




VSPM Academy Of Higher Education
ARVINDBABU DESHMUKH MAHAVIDYALAYA, BHARSINGI
Tah. Narkhed, Distt.- Nagpur- 441305 (M.S.)
Programme: **Communicative English**
(Session: 2018-19)



OUTCOMES

At the completion of the course the learner will be able to:

- Develop vocabulary and improve the accuracy in grammar.
- Produce words with right pronunciation.
- Improve LSRW- listening, speaking, reading, and writing skills and related all sub-skills.
- Demonstrate positive group communication exchanges.
- Speak with more confidence and listen carefully to build rapport.
- Analyses and utilize body language to their advantage.
- Steer conversations and influence people.
- Have the confidence to make more of an impact on their audience.
- Enhance their professionalism at work.


Head
Department of English
Arvindbabu Deshmukh Mahavidyalaya,
Department of English

Session 2019-20

Syllabus and Outcomes

CC302: Welding and Fabrication

**VSPM Academy of Higher Education, Nagpur
Arvindbabu Deshmukh Mahavidyalaya, Bharsingi**

Certificate Course

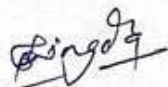
Welding and Fabrication

Session- 2019-20

Syllabus

Sr. No.	Topic	Syllabus	Period (Hour)
1	Apply Safe Working practice	1. Importance of trade training. 2. Machinery used in the trade. 3. Introduction to safety equipment and their use. 4. Hack sawing, filling square to dimensions. 5. Safety precautions in Shielding Metal Arc Welding, and Oxy-Acetylene Welding and Cutting	5
2	Join MS sheet by gas welding in different positions.	1. Setting up of Arc welding machine & accessories and striking an arc. 2. Setting of oxy-acetylene welding equipment, lighting and setting of flame.	4
3	Join MS plates by SMAW in different positions.	1. Fusion run without and with filler rod on MS sheet 2mm thick in flat position 2. Edge joint on MS sheet 2mm thick in flat position without filler rod. 3. Marking and straight line cutting of MS plate 10 mm thick by gas	6
4	Perform straight, bevel & circular cutting on MS plate by oxyacetylene	1. Straight line beads on MS plate 10 mm thick in flat positions. 2. Weaved bead on MS plate 10mm thick in flat position	15

		<p>3. Square butt joint on MS sheet 2 mm thick in flat position.</p> <p>4. Fillet 'T' Joint on MS plate 10 mm thick in flat position.</p> <p>5. Beveling of MS plates 10mm thick by gas cutting.</p> <p>6. Open corner joint on MS 2 mm thick on flat position.</p> <p>7. Filler Lap joint on MS sheet 2 mm thick in flat position.</p> <p>8. Single 'V' Butt joint on MS sheet. 12 mm thick in flat position</p> <p>9. Square Butt joint on MS sheet 2mm thick in Horizontal position.</p> <p>10. Straight line beads and multilayer practice on MS plate 10 mm thick in Horizontal position.</p> <p>11. Different type of pipe welding</p>	
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In-charge

Welding & Fabrication Course



Principal

Arvindbabu Deshmukh Mahavidyalaya
Bharsingi Dist. Nagpur

VSPM Academy of Higher Education
Arvinbaba Deshmukh Mahavidyalaya, Bharsingi
Tah. Narkhed Dist. Nagpur
Session- 2019-20
Course Name- "Welding and Fabrication"

Outcomes

- Students able to demonstrate safe workplace practice by identifying potential by:
 - Identifying personal protective gear for task
 - Practicing safe material handling by using rigging and hoisting equipment properly and safely
 - Performing safe and efficient confined space entries in the workplace.
- Students able to fabricate and assemble a given project according to specifications and specified tolerances using trade-related hand and power tools and equipment by:
 - Describing safety precautions when using trade-related hand and power tools and equipment's.
 - Selecting appropriate trade-related equipment for the job.
 - Safely operating trade-related equipment to complete specified welding process efficiently and correctly.
- Students should able to perform oxyacetylene welding and cutting operations following safe work practice by:
 - Practicing personal and shop safety
 - Performing set-up, adjustment of flame and gas pressure, and shut-down procedures for oxyacetylene welding and cutting equipment.
 - Operating gas welding and cutting equipment to produce part to specifications
 - Manipulating torch at proper angle according to the four basic joints in flat position
- Students should able to perform shielded metal arc welding on tee, lap, corner, and butt joints to trade specifications in the flat, horizontal, vertical and overhead positions.


PRINCIPAL
ARVINBABU DESHMUKH MAHAVIDYALAYA
BHARSINGI, DIST. NAGPUR

Session 2019-20

Syllabus and Outcomes

CC301: Fashion Designing

VSPM of Higher Education Society, Nagpur
Arvindbabu Deshmukh Mahavidyalaya, Bharsingi
Session : 2019-20
Diploma Course in Fashion Designing

अभ्यासक्रम / Syllabus

एकूण गुण - 500

विभाग : पत्रक 1 / Unit-1

- कर्तव्य व शिक्षणकार्याची प्राथमिक माहिती
विशेषज्ञता: किराणाची माहिती, किराणाचे 'मार्केट' याची व्याख्या व विंग, शिक्षणकार्याच्या उपयुक्ततेचा विकास सुलभतेने सादर करणे.

विभाग : पत्रक 2 / Unit-2

- किराणाकारासाठी लागणाऱ्या माहितीची माहिती
विशेषज्ञता: किराणाचा व्यापार (सर्वात व्यापार), मालाचा देव, वेळीस, आकाराची देवता, किराणाची मालाच्या प्रकाराची इतरे व इतरे, किराणाचे, इतरे
करते शुद्ध किराणासाठी वेळीस वापरण्यात येतो ओपेने याचे, वेळीसच्या प्रकारच्या धुणे (वेळीस)

विभाग : पत्रक 3 / Unit-3

- किराणाचे
1. किराणाची माहिती काय?
2. किराणाची माहिती काय?
3. किराणाची माहिती काय? किराणाची माहिती काय?

विभाग : पत्रक 4 / Unit-4

- किराणाची माहिती काय?
किराणाची माहिती काय? किराणाची माहिती काय? किराणाची माहिती काय?

विभाग : पत्रक 5 / Unit-5

- किराणाची माहिती काय?
किराणाची माहिती काय? किराणाची माहिती काय? किराणाची माहिती काय?

विभाग : पत्रक 6 / Unit-6

- किराणाची माहिती काय?
किराणाची माहिती काय? किराणाची माहिती काय? किराणाची माहिती काय?

विभाग : पत्रक 7 / Unit-7

- किराणाची माहिती काय?
किराणाची माहिती काय? किराणाची माहिती काय? किराणाची माहिती काय?

विभाग : पत्रक 8 / Unit-8

- किराणाची माहिती काय?
किराणाची माहिती काय? किराणाची माहिती काय? किराणाची माहिती काय?

विभाग : पत्रक 9 / Unit-9

- किराणाची माहिती काय?
किराणाची माहिती काय? किराणाची माहिती काय? किराणाची माहिती काय?

विभाग : पत्रक 10 / Unit-10

- किराणाची माहिती काय?
किराणाची माहिती काय? किराणाची माहिती काय? किराणाची माहिती काय?

PRINCIPAL
ARVINDBABU DESHMUKH MAHAVIDYALAYA
BHARSINGI, DIST. NAGPUR

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BHARSINGI, DIST. NAGPUR




VSPM of Higher Education Society, Nagpur
Arvinbhabu Deshmukh Mahavidyalaya,
Bharsingi Session : 2019-20



Certificate Course in Fashion Designing
Course outcomes

1. 'फॅशन डिझाईनिंग' ही एक प्रकारची कला आहे.
2. लोकप्रिय वस्तुसुशोभी कलात्मक रचना म्हणून विद्यार्थ्यांना समजले.
3. 'फॅशन डिझाईनिंग' या कोर्समुळे विद्यार्थ्यांनी चित्रकला, हस्तकला व रेखाकृती हे आत्मसात केले.
4. 'फॅशन डिझाईनिंग' या कोर्समुळे विद्यार्थ्यांमधील सर्जनशीलता कलात्मकता आणि चांगले संवाद कौशल्य वाढीस लागले.
5. या अभ्यासक्रमामुळे विद्यार्थ्यांमधील ध्येयकेंद्रीत परिमाणत विचार करण्याची क्षमता व त्यांची कल्पनाशक्ती वाढण्यास मदत झाली.
6. या अभ्यासक्रमामुळे विद्यार्थ्यांमधील सुसंगुण व प्रतिभा वाढण्यास मदत झाली.
7. या अभ्यासक्रमामुळे विद्यार्थी आपल्या शिबणकामात नवीन योजना व आरखडा तसेच बदलत्या काळानुसार आधुनिक संस्कृतीनुसार रचनात्मक वस्त्रे शिवायला शिकले.
8. या अभ्यासक्रमामुळे विद्यार्थी आपले कौशल्य आणि नाविन्यपूर्ण कल्पना वापरून वस्त्रांना नवीन व सुंदर रूप देऊ शकेल.
9. या अभ्यासक्रमामुळे विद्यार्थ्यांमधील पैसे कमविण्याची क्षमता वाढण्यास मदत होऊल.
10. 'फॅशन डिझाईनिंग' हा अभ्यासक्रम विद्यार्थ्यांना स्वतःचा व्यवसाय करायला प्रेरित करताना दिसतो.


FACULTY INCHARGE


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BHARSINGI, DIST. NAGPUR

Session 2019-20

Syllabus and Outcomes

CC303: Vermicomposting

Arvindbabu Deshmukh Mahavidyalaya, Bharsingi

Department of Zoology

2019-2020

Title of course: Certificate course in biofertilizers: Vermicomposting

Objective:

- To inculcate concepts of biofertilizers like vermicomposting.
- To understand techniques in Vermicomposting.
- To increase employability of the students.
- To improve the soil quality by promoting the biofertilizers.

Duration of course : Six months

Course structure :


- 1) Paper I : Theory
- 2) Paper II : Practical

Eligibility for admission : H.S.C. or equivalent qualification

Skeleton of the course:

Sr.No	Paper	Name of subject	Teaching hours	Maximum marks allotted			Passing		
				External	Internal	Total	External	Internal	Total
	Paper I	Theory	45	80	20	100	32	08	40
1	Paper II	Practical	60	80	20	100	32	08	40


Dr. C.M. Raut
Head
Department of Zoology
Mahavidyalaya


Principal
ARVINDBABU DESHMUKH MAHAVIDYALAYA
BHARSINGI, DISTT-NAGPUR

Syllabus

Certificate course in biofertilizers: Vermicomposting

Periods 45

Paper I- Theory

Unit-1

- 1.1 Vermicomposting : Introduction and Scope 02
- 1.2 Types of Earthworm and Classification Epigeic, Endogeic, Diageic 02
- 1.3 Life history of Earthworms (Earthworm Species *Eisemia foetida*) 05

Unit-2

- 2.1 Objectives of Vermicompost 02
- 2.2 Vermicompost Production : Establishment of Vermicomposting and Vermiwash unit 05
- 2.3 Different Methods of Vermicomposting: Small and large scale Bed method
- 2.4 Harvesting the Compost 02
- 2.5 Storing and packing of vermicompost 02

Unit-3

- 3.1 Precautions while Vermicomposting 03
- 3.2 Physico- chemical analysis of vermicompost: 03
- 3.3 Physical Parameters of vermicompost 03
- 3.4 Nutrient content of vermicompost and their role in agriculture 03
- 3.5 Benefits of vermicompost 03
- 3.6 Pests and diseases of Earthworms 04

Syllabus

Certificate course in biofertilizers: Vermicomposting

Paper II- Practical

- Scientific classification of Earthworm
- Study of external morphology of Earthworm- *Eisenia foetida*
- Study of habit and habitat of Earthworm- *Eisenia foetida*
- Study of Digestive system of earthworm
- Study of Reproduction of earthworm
- Establishment of vermicomposting unit Pit method
- Establishment of vermicomposting unit Bed method
- Establishment of vermiwash unit
- Vermicompost production, harvesting and packaging.
- Study of cocoon and vermicast
- Study of Pests and diseases of Earthworms

References

- The Textbook of Vermicompost, Vermiwash and Biopesticides : Keshav singh and et al
Publisher: Biotech Books
- The Book Hand Book Of Biofertilizers & Vermiculture
Publisher: Engineers India Research Institute
- Handbook of Organic Farming and Organic Foods With VermicompostingNeem
Publisher: Engineers India Research Institute
- Text Book of Applied Zoology: Vermiculture, Apiculture, Sericulture, Lac Culture,
Agricultural Pests and their Controls: Pradip Jabde
Publisher: Discovery Publishing House

- The Worm Farmer's Handbook Mid- to Large-Scale Vermicomposting for Farms, Businesses, Municipalities, Schools, and Institutions :Rhonda Sherman
Publisher: Chelsea Green Publishing
- Vermiculture Technology: Earthworms, Organic Wastes, and Environmental Management:
Clive A. Edwards, Norman Q. Arancon, Rhonda L. Sherman
Publisher: CRC Press 2010
- Commercial Vermiculture: How to Build a Thriving Business in Redworms:Peter Bogdanov
- Applied Zoology:N Arumugam , T Murugan , R Ram Prabhu , J Johnson Rajeshwar
Publisher: Saras Publication
- Worm Farming: Setup A Sustainable Vermiculture Earthworm Composting Ranch: Brian Grant
Publisher: Sparrow Publications.

Arvindbabu Deshmukh mahavidyalaya, Bharsingi
Department of Zoology
2019- 2020

Certificate Course in Vermicomposting

Course Outcomes

- To increase human livelihood opportunities to the rural area people
- To increase the soil quality of the farm
- It makes way for utilization of available organic wastes to produce the rich source of organic manure of high quality, which is superior to other types of organic manures in its physico-chemical and biological properties.
- The programme provides job opportunities for the unskilled labour force.

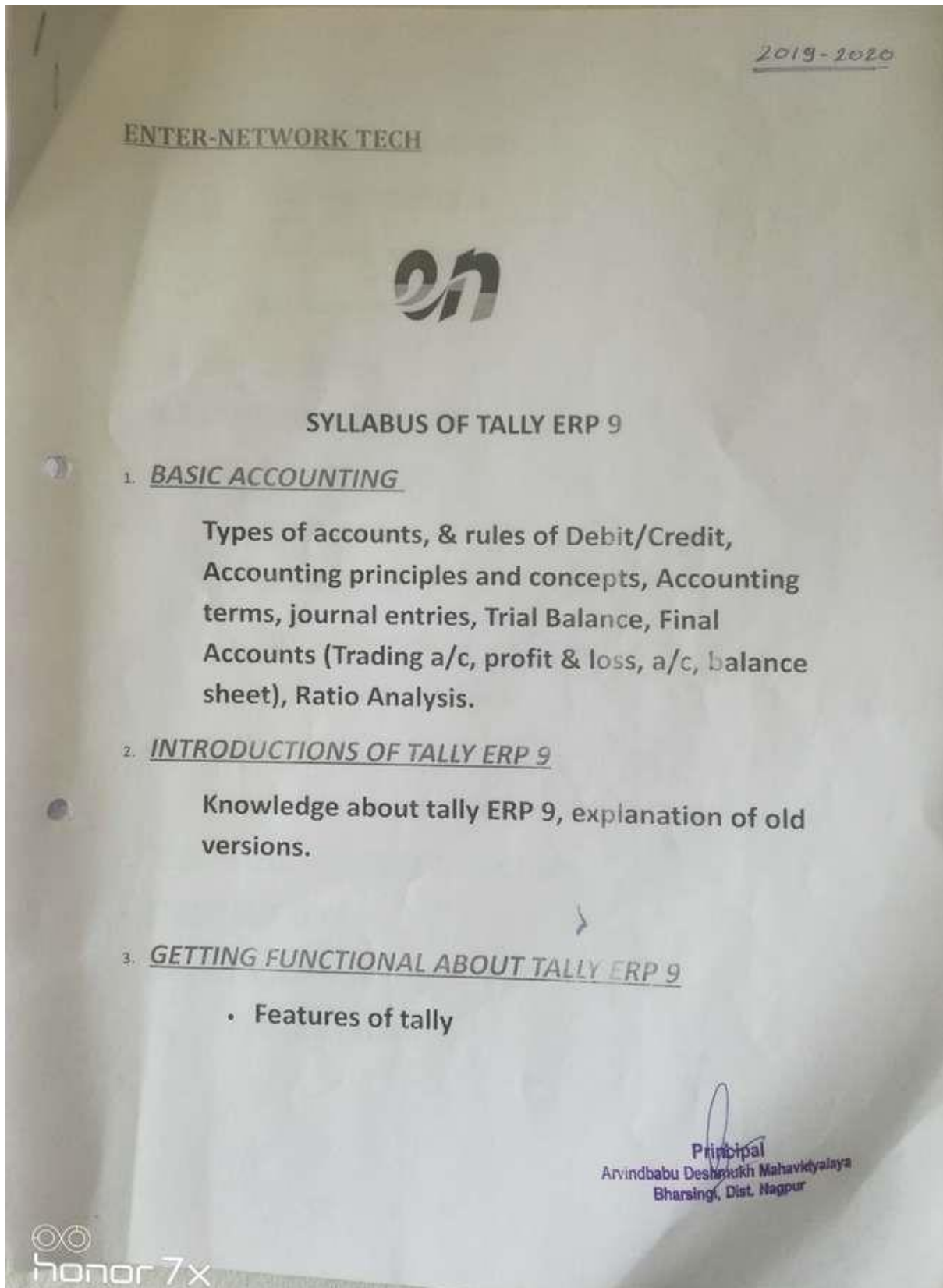
The objectives of this project were:

- 1) To determine the optimal vermicompost/soil admixture for growth of *Pelargonium hortorum*.
- 2) To compare the growth of geraniums in the optimal vermicompost/soil admixture to those grown in standard potting soil supplemented with chemical fertilizer. After library research, it was believed that geranium growth would vary among different vermicompost/soil admixtures, and that optimal vermicompost/soil admixture would produce better plant growth than chemical fertilizer. Therefore, the null hypotheses were: i) There would be no significant differences among geranium growth in different vermicompost/soil admixtures; and ii) There would be no significant differences in geranium growth between the optimal vermicompost/soil admixture and those supplemented with chemical fertilizer.

Session 2019-20

Syllabus and Outcomes

CC305: Tally



- Configuration of tally
- Installation of tally
- Company creation
- Gateway of tally

4. LEDGER CREATION

5. ACCOUNTING VOUCHERS

6. INVENTORY VOUCHERS

- Stock group
- Stock item
- Stock categories
- Unit of measurement

7. STOCK TRANSFER IN TALLY

(Location/godown creation, Transaction)

8. TRADING OF STOCK TRANSACTION

9. SHORTCUT KEYS

10. ADVANCE ACCOUNTING

- Bill wise details

- Cost centre & cost categories
- Multiple currencies
- Interest calculation
- Budget & control
- Scenario management
- Transaction in invoice mode & voucher mode

11. ADVANCE INVENTORY IN TALLY ERP 9

- Purchase and sales order process
- Batch wise details
- Bills of materials
- Price levels and price list
- Stock valuation and stock summary
- Different actual and billed quantity
- Transaction with discount

12. POINT OF SALES (POS)

- Features of pos in tally ERP 9
- Configuration of pos in tally ERP 9

- Activation of pos
- Entries pos transaction
- Pos reports

13. PETTY CASH

- Creations
- Vouchers type
- Entry
- Reports

14. JOB COSTING

- Configuration
- Creations
- Vouchers type
- Recording transaction
- Reports

15. CREDIT NOTE & DEBIT NOTE

- Activation
- Creation
- Pass entry of purchase and sale
- Transactions record
- Report

16. FIXED ASSETS MANAGEMENT (WITHOUT GST)

17. FIXED ASSETS MANAGEMENT (WITH GST)

18. USE OF CALCULATOR

19. TALLY. NET FEATURES

20. ALTERNATING & DELETING IN TALLY

21. BACK UP & RESTORE

22. EXPORT & IMPORT

23. DATA SECURITY

24. PRINTING REPORTS & VOUCHERS

25. SPLIT COMPANY DATA

26. E-MAIL WITH TALLY

27. DRAWING & CAPITAL TRANSACTION

28. PAYROLL ACCOUNTING

- configuration payroll in tally erp 9
- creating payroll masters
- transaction in payroll vouchers
- generating payroll reports

29. Bank reconciliation statement (BRS)

30. GOODS AND SERVICE TAX (GST)

- GST ACTIVATION

31. .KNOWLEDGE ABOUT GST

32. LEDGER CREATION WITH GST

33. CONFIGURATION FOR GST

34. TRANSACTION FOR SERVICE COMPANY WITH GST

35. REVERSE CHARGE MECHANISM

36. TRANSACTION FOR TRADING COMPANY WITH GST

37. TRANSACTION FOR MANUFACTURING COMPANY
WITH GST

38. DEBIT NOTE & CREDIT NOTE & DISCOUNT WITH GST

- 39 GST ADVANCE RECEIPTS & PAYMENT
- 40 CASH PURCHASE AND SALE WITH GST
- 41 ROUND OFF
- 42 MULTIPLE TAX IN SINGLE INVOICE
- 43 OTHER TRANSACTION RECORDING WITH GST

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Anshika Kate


PRINCIPAL
RVINDBABU DESHMUKH MAHAVIDYALAYA
BHARSINGI, DIST NAGPUR



ARVINDBABU DESHMUKH MAHAVIDYALAY, BHARSINSI.
DEPARTMENT OF COMMERCE

ADVANCE COURSE TALLY 9.0

SESSION 20-19-20

Outcomes in Tally

Certificate Course in Tally ERP 9

Name of Course	Certificate Course in Tally ERP 9		
Duration	40Hrs	Modules	4
Course Objective	<ol style="list-style-type: none">1. To impart knowledge regarding concepts of Financial Accounting. Tally is an accounting package which is used for learning to maintain accounts.2. This course helps students to work with well-know accounting software i.e. Tally ERP.9.3. To make students capable to create company, enter accounting voucher entries including advance voucher entries, reconcile bank statement, do accrual adjustment, and also print financial statements, etc. in Tally ERP.9.4. Accounting with Tally certificate course is not just theoretical program, but it also include continuous practice, to make students ready with required skill for employability in the job market.		
Course outcomes:	<ol style="list-style-type: none">1. After successfully qualifying practical examination, students will be awarded certificate to work with well-known accounting software i.e. Tally ERP.9.2. Student by their own will create company, enter accounting voucher entries including advance voucher entries, reconcile bank statements, do accrual adjustments, and also print financial statements, etc. in Tally ERP.9 software.3. Students will possess required skill and can also be employed as Tally data entry operator.		
Career Prospects:	<ul style="list-style-type: none">• Even if you are currently employed, learning Tally and obtaining a certificate will improve your chances for a promotion or you may even land a better job. Tally will give a much-needed boost to your career by enhancing your knowledge in Accounting, Inventory Management, and Taxation. <p>This program opens up various avenues for students. After the completion of the program, as a fresher you can begin your career as:</p> <ul style="list-style-type: none">• Accounts executive• Junior accountant• Data entry operator• Accounts assistant• Tally operator• Accountant trainee		
Course Contents			
Module-2:	Duration :	15 Hrs.	
10 Hrs	Chapter V: Accounts Receivable and Payable Management. Chapter VI: MIS Reports. Chapter VII: Recording Vouchers with TDS		
Module-2:	Duration :	10 Hrs.	
Chapter VIII: Recording Vouchers with TDS (Tax Deducted at Source) Goods and Services Tax (GST) - Introduction Shortcut Keys Practice			

- All the classes will be conducted in the computer lab by the externals.
- Certificate will be awarded by *Tally Academy Bangalore* after online assessment test.

Principal

Arvindbabu Deshmukh Mahavidyalaya
Bharsingi, Dist. Nagpur

Session 2019-20

Syllabus and Outcomes

CC304: Communicative English



VSPM Academy Of Higher Education
ARVINDBABU DESHMUKH MAHAVIDYALAYA,
BHARSINGI

Tah. Narkhed, Distt.- Nagpur- 441305 (M.S.)
Programme: Communicative English
(Session: 2019-2020)

Syllabus for Certificate Course



Unit -I

- 1 Part of speech
- 2 Tense
- 3 Articles, Preposition
- 4 Letters

25 Marks

Unit - II

- 5 Making introductions
- 6 Greeting people
- 7 Inviting, suggesting, accepting, and refusing
- 8 Making requests
- 9 Making offers
- 10 Getting and giving permission

25 Marks

Reference Books:

1. Step Up I Improve Your English by Lovely J. Menachery and Malati Panga (Foundation)
2. English Grammar and Composition by Wern & Martin revised by Dr. N. D. V. Prasada Rao
3. Intermediate English Grammar by Raymond Murphy (Cambridge University Press)
4. Confident English edited by Pradip Raut and published by Sir Sahitya Kendra Nagpur.


COORDINATOR
COMMUNICATIVE ENGLISH - COP
ARVINDBABU DESHMUKH MAHAVIDYALAYA,
Department of English


PRINCIPAL
ARVINDBABU DESHMUKH MAHAVIDYALAYA
BHARSINGI, DIST. NAGPUR



VSPM Academy Of Higher Education
ARVINDBABU DESHMUKH MAHAVIDYALAYA, BHARSINGI
Tah.Narkhed, Distt.- Nagpur- 441305 (M.S.)
Programme: **Communicative English**
(Session: 2019-2020)



OUTCOMES

At the completion of the course the learner will be able to:

- Develop vocabulary and improve the accuracy in grammar.
- Produce words with right pronunciation.
- Improve LSRW- listening, speaking, reading, and writing skills and related all sub-skills.
- Demonstrate positive group communication exchanges.
- Speak with more confidence and listen carefully to build rapport.
- Analyses and utilize body language to their advantage.
- Steer conversations and influence people.
- Have the confidence to make more of an impact on their audience.
- Enhance their professionalism at work.

Head
Department of English
Arvindbabu Deshmukh Mahavidyalaya
Department of English
Bharsingi

Session 2019-20

Syllabus and Outcomes

Value Added Course: Self Defence for Girls



VSPM ACADEMY OF HIGHER EDUCATION
ARVINDBABU DESHMUKH MAHAVIDYALAYA, BHARSINGI
Tah. Narkhed Dist. Nagpur 441305
Session: 2019-2020
Self Defense Corse



Syllabus

1. Physical Fitness: Training imparts physical exercise from toe to eyes for physical and mental development.

(Duration :06hrs)

2. Kicks : Training imparts types of kicks with different levels for defense.

(Duration :06hrs)

3 .Punches and Blocks: Training includes punches and blocks with different levels for attack and self-defense.

(Duration :06hrs)

4 Katas: Training includes "form" (is a Japanese word describing detailed patterns of movements practiced either solo or in pairs.) Karate Kata are executed as a specified series of a variety of moves, with stepping and turning, while attempting to maintain perfect form.

(Duration :06hrs)

5 Techniques of Self Defense: Training imparts foot work , blocking , counter attack , bending and dodging . (Duration :06hr



VSPM of Higher Education Society, Nagpur
Arvindbabu Deshmukh Mahavidyalaya,
Bharsingi Session : 2021-22



Certificate Course in Fashion Designing
Course outcomes

1. 'फॅशन डिझाईनिंग' ही एक प्रकारची कला आहे.
2. लोकप्रिय वस्तुधुषणांची कलात्मक रचना म्हणून विद्यार्थ्यांना समजले.
3. 'फॅशन डिझाईनिंग' या कोर्समुळे विद्यार्थ्यांनी चित्रकला, हस्तकला व रेखाकृती हे आत्मसात केले.
4. 'फॅशन डिझाईनिंग' या कोर्समुळे विद्यार्थ्यांमधील सर्जनशीलता कलात्मकता आणि चांगले संवाद कौशल्य वाढीस लागले.
5. या अभ्यासक्रमामुळे विद्यार्थ्यांमधील ध्येयकेंद्रीत परिमाणात विचार करण्याची क्षमता व त्यांची कल्पनाशक्ती वाढण्यास मदत झाली.
6. या अभ्यासक्रमामुळे विद्यार्थ्यांमधील सुसंगुण व प्रतिभा वाढण्यास मदत झाली.
7. या अभ्यासक्रमामुळे विद्यार्थी आपल्या शिवणकामात नवीन योजना व आराखडा तसेच बदलत्या काळानुसार आधुनिक संस्कृतीनुसार रचनात्मक वस्त्रे शिवायला शिकले.
8. या अभ्यासक्रमामुळे विद्यार्थी आपले कौशल्य आणि नाविन्यपूर्ण कल्पना वापरून वस्त्रांना नवीन व सुंदर रूप देऊ शकेल.
9. या अभ्यासक्रमामुळे विद्यार्थ्यांमधील पैसे कमविण्याची क्षमता वाढण्यास मदत होऊल.
10. 'फॅशन डिझाईनिंग' हा अभ्यासक्रम विद्यार्थ्यांना स्वतःचा व्यवसाय करायला प्रेरित करताना दिसतो.


FACULTY INCHARGE


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BHARSINGI, DIST. NAGPUR

honor 7x

Session 2021-22

Syllabus and Outcomes

CC302: Welding and Fabrication

VSPM Academy of Higher Education, Nagpur
Arvindbabu Deshmukh Mahavidyalaya, Bharsingi

Certificate Course

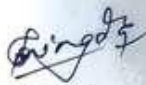
Welding and Fabrication

Session- 2021-22

Syllabus

Sr. No.	Topic	Syllabus	Period (Hour)
1	Apply Safe Working practice	1. Importance of trade training. 2. Machinery used in the trade. 3. Introduction to safety equipment and their use. 4. Hack sawing, filing square to dimensions. 5. Safety precautions in Shielding Metal Arc Welding, and Oxy-Acetylene Welding and Cutting	5
2	Join MS sheet by gas welding in different positions.	1. Setting up of Arc welding machine & accessories and striking an arc. 2. Setting of oxy-acetylene welding equipment, lighting and setting of flame.	4
3	Join MS plates by SMAW in different positions.	1. Fusion run without and with filler rod on MS sheet 2mm thick in flat position 2. Edge joint on MS sheet 2mm thick in flat position without filler rod. 3. Marking and straight line cutting of MS plate 10 mm thick by gas	6
4	Perform straight, bevel & circular cutting on MS plate by oxyacetylene	1. Straight line beads on MS plate 10 mm thick in flat positions. 2. Weaved bead on MS plate 10mm thick in flat position	15

3. Square butt joint on MS sheet 2 mm thick in flat position.
4. Fillet 'T' Joint on MS plate 10 mm thick in flat position.
5. Beveling of MS plates 10mm thick by gas cutting.
6. Open corner joint on MS 2 mm thick on flat position.
7. Filler Lap joint on MS sheet 2 mm thick in flat position.
8. Single 'V' Butt joint on MS sheet. 12 mm thick in flat position
9. Square Butt joint on MS sheet 2mm thick in Horizontal position.
10. Straight line beads and multilayer practice on MS plate 10 mm thick in Horizontal position.
11. Different type of pipe welding



In-charge

Welding & Fabrication Course



Off. Principal
Arvundbabu Deshmukh Mahavidyalaya
Bharsingi Dist. Nagpur

VSPM Academy of Higher Education
Arvindbabu Deshmukh Mahavidyalaya, Bharsingi
Tah. Narkhed Dist. Nagpur
Session- 2021-22
Course Name- "Welding and Fabrication"

Outcomes

- Students should able to demonstrate knowledge in welding and principles of fabrication.
- Students should able to demonstrate safe work by identifying personal protective gears and safe handling of welding materials.
- Students should able to apply knowledge, techniques, and skills of industrial safety standards to both field and factory environments.
- Students should able to develop self-business in welding and fabrication.
- Students able to understand professional, ethical and social responsibilities and their implications related to level and practice of welding and fabrication in global/social context.



Course Coordinator



PRINCIPAL
ARVINDBABU DESHMUKH MAHAVIDYALAYA
BHARSINGI, DIST. NAGPUR

Session 2022-23

Syllabus and Outcomes

CC: Basic English Grammer

RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY
DEPARTMENT OF LIFELONG LEARNING AND EXTENSION
SHORT TERM CERTIFICATE COURSE UNDER
JEEVAN SHIKSHA ABHIYAN

2022-23

ARVINDBABU DESHMUKH MAHAVIDYALAYA, BHARSINGI
DEPARTMENT OF ENGLISH

CERTIFICATE COURSE IN BASIC ENGLISH GRAMMAR
COURSE MODULE

Content:

- Unit-I : Parts of Speech
- Unit II : Sentence Formation
- Unit III : Tense and Affirmative
- Unit IV : Articles and Preposition
- Unit V : Voice and Narration

Module Objectives:

- 1) To enable students to understand Parts of Speech.
- 2) To make students understand structure of sentences.
- 3) To develop capacity among the learners to identify and change the tenses.
- 4) To understand the use of articles and prepositions.
- 5) To trains learners to change to voice and Narration.

Learning Outcomes:

At the end of the course learners will be able to :

- 1) To identify and convert various parts of speech.
- 2) To construct sentences of all types.
- 3) To identify and change tenses of any sentence and also convert sentences negative.
- 4) To fill the blanks with appropriate articles and prepositions.
- 5) To change the voice and narration.



Off. Principal
Arvindbabu Deshmukh Mahavidyalaya,
Bharsingi Dist. Nagpur



VSPM Academy Of Higher Education
ARVINDBABU DESHMUKH MAHAVIDYALAYA, BHARSINGI
Tah. Narkhed, Distt.- Nagpur- 441305 (M.S.)
Programme: **Basic English Gramar**
(Session: 2022-23)



OUTCOMES

At the completion of the course the learner will be able to:

- Develop vocabulary and improve the accuracy in grammar.
- Produce words with right pronunciation.
- Improve LSRW- listening, speaking, reading, and writing skills and related all sub-skills.
- Demonstrate positive group communication exchanges.
- Speak with more confidence and listen carefully to build rapport.
- Analyses and utilize body language to their advantage.
- Steer conversations and influence people.
- Have the confidence to make more of an impact on their audience.
- Enhance their professionalism at work.

Head
Department of English
Arvind Babu Deshmukh Mahavidyalaya,
Bharsingi

Session 2022-23

Syllabus and Outcomes

CC: Agroecconomics



VSPM Academy of Higher Education
Arvinbaba Deshmukh Mahavidyalaya, Bharsing
Certificate Course in Agri. Economics Syllabus



Academic session 2022-23

प्रकरण :1 कृषी अर्थशास्त्र

1. कृषी अर्थशास्त्राच्या अर्थ व व्याख्या
2. कृषी अर्थशास्त्राची वैशिष्ट्ये
3. कृषी अर्थशास्त्राच्या अभ्यास विषय
4. कृषी अर्थशास्त्राचे महत्त्व

प्रकरण :2 भारतीय शेती

1. भारतीय शेतीचे स्वरूप
2. भारतीय शेतीचे वैशिष्ट्ये
3. भारतीय अर्थव्यवस्थेत शेतीचे महत्त्व
4. भारतीय शेतीची उत्पादकता कमी असल्याचे कारणे
5. भारतीय शेतीची उत्पादकता वाढवण्याचे उपाय

प्रकरण : 3 हरितक्रांती

1. हरितक्रांती हरितक्रांतीचे कारणे
2. हरितक्रांती नवीन पिके आणि तंत्रज्ञान
3. हरितक्रांतीच्या भारतीय शेती उत्पादकतेवर झालेल्या परिणाम
4. हरितक्रांतीच्या मर्यादा

प्रकरण 4: सिंचन

1. शेतीला सिंचनाचे महत्त्व
2. सिंचनाची साधने
3. शेती सिंचनाच्या विविध पद्धती


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VSPM Academy of Higher Education
Arvinbabu Deshmukh Mahavidyalaya Bharsingi
Tah. Narkhed Dist. Nagpur
Department of Economics
Certificate course in Agro- Economics



Programme Outcome

1. Students will gain a strong understanding of the principles and concepts of agro-economics, including the economic factors influencing the agricultural sector.
2. Students will develop the ability to critically analyze the economic challenges and opportunities within the agricultural.
3. Students will be able to apply economic theories and models to real-world agricultural issues, contributing to effective problem-solving in this field.
4. Students will appreciate the interdisciplinary nature of agro-economics, recognizing its intersections with agriculture, environmental sustainability, and social development.
5. Upon successful completion of the course, students will receive a certificate, validating their knowledge and competence in the field of agro-economics
6. Students will be encouraged to engage in lifelong learning and stay updated with the latest developments in agro-economics and related fields.

Principal

Arvinbabu Deshmukh Mahavidhyalaya
Bharsingi Dist. Nagpur

Honor 7X

Session 2022-23

Syllabus and Outcomes

CC: Vermicomposting

Honor 7X	Syllabus	
	Certificate course in biofertilizers: Vermicomposting	
	Periods 45	
	Paper I- Theory	
	Unit-1	
	1.1 Vermicomposting : Introduction and Scope	02
	1.2 Types of Earthworm and Classification Epigeic, Endogeic, Diageic	02
	1.3 Life history of Earthworms (Earthworm Species <i>Eisenia foetida</i>)	05
	Unit-2	
	2.1 Objectives of Vermicompost	02
2.2 Vermicompost Production : Establishment of Vermicomposting and Vermiwash unit	05	
2.3 Different Methods of Vermicomposting: Small and large scale Bed method		
2.4 Harvesting the Compost	02	
2.5 Storing and packing of vermicompost	02	
Unit-3		
3.1 Precautions while Vermicomposting	03	
3.2 Physico- chemical analysis of vermicompost:	03	
3.3 Physical Parameters of vermicompost	03	
3.4 Nutrient content of vermicompost and their role in agriculture	03	
3.5 Benefits of vermicompost	03	
3.6 Pests and diseases of Earthworms	04	

Syllabus

Certificate course in biofertilizers: Vermicomposting

Paper II- Practical

- Scientific classification of Earthworm
- Study of external morphology of Earthworm- *Eisenia foetida*
- Study of habit and habitat of Earthworm- *Eisenia foetida*
- Study of Digestive system of earthworm
- Study of Reproduction of earthworm
- Establishment of vermicomposting unit Pit method
- Establishment of vermicomposting unit Bed method
- Establishment of vermiwash unit
- Vermicompost production, harvesting and packaging.
- Study of cocoon and vermicast
- Study of Pests and diseases of Earthworms

References

- The Textbook of Vermicompost, Vermiwash and Biopesticides : Keshav singh and et al
Publisher: Biotech Books
- The Book Hand Book Of Biofertilizers & Vermiculture
Publisher: Engineers India Research Institute
- Handbook of Organic Farming and Organic Foods With Vermicomposting
Publisher: Engineers India Research Institute
- Text Book of Applied Zoology: Vermiculture, Apiculture, Sericulture, Lac Culture,
Agricultural Pests and their Controls: Pradip Jabde
Publisher: Discovery Publishing House

- *The Worm Farmer's Handbook Mid- to Large-Scale Vermicomposting for Farms, Businesses, Municipalities, Schools, and Institutions* ;Rhonda Sherman
Publisher: Chelsea Green Publishing
- *Vermiculture Technology: Earthworms, Organic Wastes, and Environmental Management*:
Clive A. Edwards, Norman O. Arancon, Rhonda L. Sherman
Publisher: CRC Press 2010
- *Commercial Vermiculture: How to Build a Thriving Business in Redworms*:Peter Bogdanov
- *Applied Zoology*:N Arumugam , T Murugan , R Ram Prabhu J Johnson Rajeshwar.
Publisher: Saras Publication
- *Worm Farming: Setup A Sustainable Vermiculture Earthworm Composting Ranch*: Brian Grant
Publisher: Sparrow Publications.

Arvindbabu Deshmukh Mahavidyalaya, Bharsingi

Department of Zoology

2022-2023

Title of course: Certificate course in biofertilizers: Vermicomposting

Objective:

- To inculcate concepts of biofertilizers like vermicomposting.
- To understand techniques in Vermicomposting.
- To increase employability of the students.
- To improve the soil quality by promoting the biofertilizers.

Course structure :

- 1) **Paper I** : Theory
- 2) **Paper II** : Practical

Eligibility for admission : H.S.C. or equivalent qualification

Skeleton of the course:

Sr.No	Paper	Name of subject	Teaching hours	Maximum marks allotted			Passing		
				External	Internal	Total	External	Internal	Total
	Paper I	Theory	45	80	20	100	32	08	40
	Paper II	Practical	60	80	20	100	32	08	40


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Course Coordinator
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Arvinbapu Deshmukh mahavidyalaya, Bharsingi
Department of Zoology
2022- 2023

Certificate Course in Vermicomposting

Course Outcomes

- To increase human livelihood opportunities to the rural area people
- To increase the soil quality of the farm
- It makes way for utilization of available organic wastes to produce the rich source of organic manure of high quality, which is superior to other types of organic manures in its physico-chemical and biological properties.
- The programme provides job opportunities for the unskilled labour force.

The objectives of this project were:

- 1) To determine the optimal vermicompost/soil admixture for growth of *Pelargonium hortorum*.
- 2) To compare the growth of geraniums in the optimal vermicompost/soil admixture to those grown in standard potting soil supplemented with chemical fertilizer. After library research, it was believed that geranium growth would vary among different vermicompost/soil admixtures, and that optimal vermicompost/soil admixture would produce better plant growth than chemical fertilizer. Therefore, the null hypotheses were: i) There would be no significant differences among geranium growth in different vermicompost/soil admixtures; and ii) There would be no significant differences in geranium growth between the optimal vermicompost/soil admixture and those supplemented with chemical fertilizer.

[Handwritten Signature]

Dr. N.M. Raut
Course Coordinator
App. Deshmukh
Mahavidyalaya, Bharsingi

Session 2022-23

Syllabus and Outcomes

CC: Mushroom Cultivation

Syllabus

Short Term Certificate Course in Mushroom Cultivation

Unit-I

(15 Marks)

Introduction: Morphological studies of Mushroom. Life cycle of *Agaricus*. Nutritional and medicinal value of edible mushroom, poisonous mushroom, Edible mushroom, Edible mushroom *Volvariella volvacea*, *Pleraturitrino pileatus*, *Agaricus bisporus*.

Unit-II

(15 Marks)

Tools of mushroom cultivation- Culture media and sterilization techniques, Polythene bags, Vessels, Inoculation hooks, Inoculation loops, Low-cost stove, Sieves, Culture rack, Water sprayer, Tray, Medium.

Unit-III

(15 Marks)

New technology of mushroom cultivation: Inoculation techniques, Spawn production, Compost preparation, Spawning, Spawn running, casing protein, harvesting, yield packaging and storage.

Unit-IV

(15 Marks)

Techniques: Substrate preparation of medium and spawn sterilization multiplication bed preparation bracket paddy straw sugar cane trust banana leaves.

Unit-V

(10 Marks)

Recipes of mushroom and marketing

Books

1. Triloki Nath Kaul (1997) Introduction to Mushroom Science (Systematics) Science publishers, PP 198.
2. Joy Sarkar Krishnendu Acharya, Anirban Roy (2020) Mushroom Cultivation Technology, Techno World.
3. RANJAN S.(2020) Mushroom Technology 2nd Edition 2020 by, CBS Publishers and distributors.
4. N.Revathy, A.Vijayasamundeeswari, V.M.Indumathi, V.Gomathi (2020) Mushroom cultivation, Shanlax, Publications.
5. Dr.Parimal Mandal, Sri Zerald Tiru, Dr.Sanjoy Sadhukhan, Dr.Arka Pratim Chakraborty, Dr.Ayon Pal, Mrs Monalisha Pal Sarkar, 2020, MUSHROOM CULTURE TECHNOLOGY, HSRA PUBLICATIONS.


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(Dr.S.R.Bansod)
Course Co-ordinator
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Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur
Department of Lifelong Learning and Extension
Arvindbabu Deshmukh Mahavidyalaya, Bharsingi, Ta-Narkhed, Dist-Nagpur
Department of Botany
Short Term Certificate Course in Mushroom Cultivation

**OUTCOME OF SHORT TERM CERTIFICATE COURSE IN
MUSHROOM CULTIVATION**

A short term certificate course in mushroom cultivation was conducted with a total of 20 students enrolling in the program. All students successfully completed the course and gained valuable knowledge and skills in mushroom cultivation. The outcome from these students after completion of the short term certificate course in mushroom cultivation can be summarized as follows:

- Able to distinguish the principal differences of mushroom cultivation from the cultivation of other plants.
- Understands edible and poisonous mushroom types.
- Understands nutritional and medicinal values of edible mushroom.
- Can determine the most important species of cultivated edible mushrooms and knows the basic required tools, technology and technique of the cultivation of each of them.
- Understands the climatic requirements of mushroom cultivation.
- Knowing harvesting and post harvesting processes of mushroom
- Knows the most important kinds of substrata for mushroom cultivation, belonging to the agricultural wastes and have skills to prepare media for the mushroom cultivation from these wastes.
- Learning value added products preparation from mushroom and is marketing.
- Having the prospects of commercial mushroom production.


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