

**STSN GOVT DEGREE COLLEGE
KADIRI**



DEPARTMENT OF ZOOLOGY

**Certificate Course
2021-2022**

VERMICOMPOST TECHNOLOGY



CERTIFICATE COURSE IN VERMICOMPOST TECHNOLOGY

Department of ZOOLOGY

STSN Govt Degree College Kadiri 515591 Anantapur (Dist.)

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RESOLUTION

It is resolved that the Department of Zoology unanimously decided, to conduct a 30 days certificate course in "Vermicompost Technology" for the first year B.sc Zoology students of this college. The course schedule will be from 20-11-2021 to 28-12-2021. After successful completion of course an online quiz should be conducted in practicals and distribution of certificates to the students. The course syllabus is attached to this copy.


Faculty of Zoology

Permission letter to conduct Certificate Course – 2021-22

From
Dr.D.ADINARAYANA
Department of Zoology
S.T.S.N GDC,
Kadiri,

To
The Principal,
S.T.S.N GDC,
Kadiri,

Respected Principal,

Subject: Permission to conduct **Certificate Course** on Vermi compost Technology in the academic year- 2021-22

The Department of Zoology at S.T.S.N. Government Degree College, Kadiri, kindly requests your permission to conduct a Certificate Course in Vermi compost Technology in the academic year 2021-22.

The proposed schedule for the Certificate Course is 20.11.2021 to 28.12.2021 and we plan to hold the sessions within the college premises. We seek your approval to utilize the college facilities for this purpose, and we assure you that we will adhere to all college regulations and guidelines.

Thank you for considering our request.

Permitted

Smilal
PRINCIPAL
S.T.S.N. Govt. Degree Coll.
KADIRI

Yours faithfully,

B. S. S.
Head
Department of Zoology
STSN, Govt. U.G & P.G. College
KADIRI - 515 591.
Anantapur Dist. (A.P.)

Notification for Admission

Applications are invited from the eligible candidates for admission into the Certificate Course in Vermi compost Technology for the year 2021-2022.

Eligibility: Graduate in any discipline.

Duration of Course: 30 Hours

Admission Process: The prescribed application form for the Admission is available in the Department. The filled in applications shall be submitted to the Course Coordinator, Certificate course in Vermi compost Technology, Department of Zoology, STSN Govt. Degree College, Kadiri Anantapur (Dist). Defective applications and applications received after the prescribed date will summarily be rejected and fee once paid will not be refunded or adjusted for any other purpose.

The admission schedule:

Last date of receipt of application: 18-11-2021

Class Details: Classes of the course shall be conducted on working days between 20-11-2021

And 28-12-2021, daily one hour from 4.00 pm to 5.00 pm.

STSN GOVT DEGREE COLLEGE KADIRI
ANANTAPUR DISTRICT, AP.
DEPARTMENT OF ZOOLOGY
CERTIFICATE COURSE IN VERMICOMPOST TECHNOLOGY
COURSE PROPOSAL 2021-2022

Aims& Objective:

- ❖ Students will be able to compost in a limited space and describe the decomposing process.
- ❖ The interested students will get the knowledge of composting,
- ❖ Students will get the employment,
- ❖ They can generate employments,
- ❖ They will also turn towards organic farming,
- ❖ Will help to maintain the environment pollution free and
- ❖ Will get the knowledge of biodiversity of local earthworms.

OUTCOMES:

- ❖ Vermicompost is a nutrient-rich organic fertilizer that enhances soil fertility and structure.
- ❖ It contains essential plant nutrients such as nitrogen, phosphorus, potassium, calcium, and micronutrients in a form readily available for plants.
- ❖ Vermicomposting provides a sustainable solution for recycling organic waste, diverting it from landfills and reducing the environmental impact of waste disposal.
- ❖ Vermicomposting is well-suited for community and urban agriculture initiatives, allowing individuals and communities to recycle kitchen waste and produce their own nutrient-rich compost for gardening.
- ❖ Vermicomposting serves as an educational tool, raising awareness about the importance of waste reduction, organic farming practices, and sustainable agriculture.
- ❖ Improved soil structure from vermicompost enhances water retention in the soil, reducing the need for irrigation and contributing to water conservation efforts.

➤ **The detail of the course is as follows:**

Focus:

To convert unwanted, organic matter, particularly food scraps and paper into fertile soil.

Name of the course: Certificate Course in Vermicompost technology

- **Level:** Certificate
- **Stream:** Science or any stream
- **Subject:** Vermiculture/ vermicompost

Eligibility Criteria: Degree

Duration: 30days

Language: English

Intake: 25 seats

Selection /Admission Criteria: First come first serve

Attendance: 90%

Lecture/practical timing: 4:00 PM to 5:00 PM

Available infrastructure: Well equipped laboratory, small & large scale vermiculture units.

Syllabus

UNIT 1

1. Introduction to vermiculture, definition, classification, history, economic important, their value in maintenance of soil structure.
2. Its role in bio transformation of the residues generated by human activity and production of organic fertilizers.
3. Choosing the right worm. Useful species of earthworms. Local species of earthworms. Exotic species of earthworms.
4. Biology of *Pheretima posthuma*. a) Taxonomy Anatomy, physiology and reproduction. b) Vital cycle of *Pheretima posthuma*: alimentation, fecundity, annual reproducer potential.

UNIT 2

5. Limit factors (gases, diet, humidity, temperature, PH , light, and climatic factors).
6. Physio- chemical parameters of Vermicompost.
7. Different Methods of Vermicomposting: Small- and large-scale Bed method, Pit method Small Scale Earthworm farming for home gardens - Earthworm compost for home gardens.
8. Conventional commercial composting - Earthworm composting larger scale.
9. Pest and diseases of earthworms. Frequent problems. How to prevent and fix them. Complementary activities of auto evaluation.
10. Nutritional Composition of Vermicompost for plants, comparison with other fertilizer.

UNIT 3

11. Earthworm Farming (Vermiculture), Extraction (harvest), vermicomposting harvest and processing.
12. Vermiwash
13. Small Scale Earthworm farming for home gardens
14. Conventional commercial composting

15. Harvesting, packaging, transport and storage of Vermicompost and separation

PRACTICAL

- Scientific classification of Earthworm Study of external morphology of Earthworm
- Study of habit and habitat of Earthworm
- Study of Digestive system of earthworm
- Study of Reproduction of earthworm
- 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

Certificate Course – Time Table

S.No	Date	Topic covered
1	20.11.2021	Introduction to vermiculture
2	22.11.2021	Definition, classification
3	23.11.2021	History
4	24.11.2021	Economic important
5	25.11.2021	Value in maintenance of soil structure
6	26.11.2021	Its role in bio transformation of the residues generated by human activity
7	27.11.2021	Production of organic fertilizers
8	29.11.2021	Choosing the right worm
9	30.11.2021	Useful species of earthworms
10	01.12.2021	Local species of earthworms
11	02.12.2021	Exotic species of earthworms
12	03.12.2021	Taxonomy Anatomy, physiology and reproduction
13	04.12.2021	Vital cycle of Pheretima posthuma: alimentation, fecundity, annual reproducer potential
14	06.12.2021	Limit factors (gases, diet, humidity, temperature, PH , light, and climatic factors)
15	07.12.2021	Physio- chemical parameters of Vermicompost
16	08.12.2021	Small- and large-scale Bed method, Pit method
17	09.12.2021	Small Scale Earthworm farming for home gardens - Earthworm compost for home gardens
18	10.12.2021	Conventional commercial composting
19	13.12.2021	Earthworm Composting larger scale.
20	14.12.2021	Pest and diseases of earthworms
21	15.12.2021	Frequent problems. How to prevent and fix them. Complementary activities of auto evaluation
22	16.12.2021	Nutritional Composition of Vermicompost for plants, comparison with other fertilizer
23	17.12.2021	Earthworm Farming (Vermiculture), Extraction (harvest)
24	18.12.2021	Vermicomposting harvest and processing.
25	20.12.2021	Vermiwash

26	21.12.2021	Harvesting, packaging, transport and Vermicompost
27	22.12.2021	storage of Vermicompost and separation
28	23.12.2021	Final Assessment
29	27.12.2021	Viva voce
30	28.12.2021	Certificates distribution

CERTIFICATE COURSE IN VERMI COMPOST TECHNOLOGY

DEPARTMENT OF ZOOLOGY

STSN GOVT DEGREE COLLEGE KADIRI

ANANTAPUR (DIST), AP.

List of Students

Admission Number	Name of the Student	Address	Signature of the Student
1.	B. MAHESH	STSN GDC KADIRI	B. Mahesh
2.	J. APARNA	STSN GDC KADIRI	J. Aparna
3.	J. MANOHAR	STSN GDC KADIRI	J. Manohar
4.	K. THARUN NAIK	STSN GDC KADIRI	K. Tharun Naik
5.	K. SURESH BABU	STSN GDC KADIRI	K. Suresh Babu
6.	M. PAVAN KALYAN	STSN GDC KADIRI	M. Pavan Kalyan
7.	M. MANASA	STSN GDC KADIRI	M. MANASA
8.	N. BHAVANI PRASAD	STSN GDC KADIRI	N. Bhavani Prasad
9.	O. YAMUNA	STSN GDC KADIRI	O. Yamuna
10.	P. DEVENDRA	STSN GDC KADIRI	P. Devendra
11.	P. CHANDANA	STSN GDC KADIRI	P. Chandana
12.	P. ABUBAK SIDDIK	STSN GDC KADIRI	P. Chandana
13.	P. VEERA PRASAD	STSN GDC KADIRI	P. Veera Prasad
14.	P. SAI VINAY	STSN GDC KADIRI	P. Sai Vinay
15.	R. BALAJI NAIK	STSN GDC KADIRI	R. Balaji Naik
16.	S. DURGA PRASDA	STSN GDC KADIRI	S. Durga Prada
17.	U. GIRISH	STSN GDC KADIRI	U. Girish
18.	U. KIRAN BABU	STSN GDC KADIRI	U. Kiran Babu
19.	Y. SURESH	STSN GDC KADIRI	Y. Suresh
20.	Y. RAJU	STSN GDC KADIRI	Y. Raju
21.	Y. BABU	STSN GDC KADIRI	Y. Babu
22.	S. SIDDIK	STSN GDC KADIRI	S. Siddik
23.	C. SADIQ	STSN GDC KADIRI	C. Sadiq
24.	K. SOFIYA	STSN GDC KADIRI	K. Sofiya
25.	M. ANIL KUMAR	STSN GDC KADIRI	M. Anil Kumar

CERTIFICATE COURSE IN VERMICOMPOST TECHNOLOGY
DEPARTMENT OF ZOOLOGY

STSN GOVT DEGREE COLLEGE KADIRI
ANANTAPUR DISTRICT AP

STSN GOVT DEGREE COLLEGE KADIRI NANTAPUR DISTRICT AP																																
S.N	NAME OF THE STUDENT	20-11-2021	22-11-2021	23-11-2021	24-11-2021	05-11-2021	26-11-2021	27-11-2021	29-11-2021	30-11-2021	01-12-2021	02-12-2021	03-12-2021	08-12-2021	09-12-2021	10-12-2021	13-12-2021	14-12-2021	15-12-2021	16-12-2021	17-12-2021	18-12-2021	20-12-2021	21-12-2021	22-12-2021	23-12-2021	24-12-2021	25-12-2021	26-12-2021	27-12-2021	28-12-2021	
1.	B. MAHESH	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2.	J. APARNA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
3.	J. MANOHAR	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
4.	K. THARUN NAIK	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
5.	K.SURESH BABU	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
6.	M PAVAN KALYAN	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
7.	M. MANASA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
8.	N. BHAVANI PRASAD	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
9.	O. YAMUNA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
10.	P. DEVENDRA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
11.	P. CHANDANA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12.	P. ABUBAK SIDDIK	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
13.	P.VEERA PRASAD	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
14.	P. SAI VINAY	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
15.	R. BALAJI NAIK	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
16.	S. DURGA PRASAD	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
17.	U. GIRISH	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
18.	U. KIRAN BABU	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

	19	20	21	22	23	24	25
Y. SURESH							
Y. RAJU							
Y. BABU							
S. SIDDIK							
C. SADIQ							
K. SOFIYA							
M. ANIL KUMAR							

STSN GOVT. DEGREE COLLEGE, KADIRI
DEPARTMENT OF ZOOLOGY
CERTIFICATE COURSE ON VERMICOMPOST TECHNOLOGY
QUESTION PAPER

Duration : 3 Hours

Marks : 100

I. Write a note on any 5 of the following?

5X5 = 25

1. Define Vermiculture?
2. Difference between Vermiculture and vermicomposting?
3. Site selection for vermiculture?
4. Difference between burrowing and non burrowing earth worms?
5. Pest problems in vermiculture and care taken to solve the problems?
6. Climatic conditions required for vermiculture?
7. Importance of Vermiculture?
8. Harvesting methods in vermiculture?
9. Importance of water management in vermiculture?

II. Answer any 5 of the following?

5X10 = 50

1. Explain in detail about earthworm diversity and ecological group of earthworm?
2. Explain in detail about vermiculture techniques with its required materials?
3. Explain about pit methods and types of pit methods with small scale and large scale including heap method.
4. Give the applications of vermicomposting in agriculture and horticulture?
5. Explain in details about the production of vermiwash and methods of usage in agriculture?
6. Explain the nutritive value of vermicompost and also explain how storing and packing of compost will take place?
7. Explain how preparation and usage of vermicompost by the farmers improves their economic position?
8. Explain the Pest and disease control in vermiculture technology?

III. Vivavoce

25

FEEDBACK FROM PARTICIPANTS

Name of the activity: Certificate course on Vermicompost Technology

Date: 28/12/2021

Name of the participant: J. Aparna

Class: IIC23

Phone No. 8309051235

1. How would you rate the quality of the presentations and demonstrations during the event?

- ☐ Excellent
- ☒ Very Good
- ☐ Good
- ☐ Satisfactory

2. What was your level of satisfaction about the activity?

- ☒ Excellent
- ☐ Very Good
- ☐ Good
- ☐ Satisfactory

3. Please rate your overall knowledge level about the topics covered before attending the session.

- ☐ Excellent
- ☒ Good
- ☐ Fair
- ☐ Poor

4. Please rate your overall knowledge level about the topics covered after attending the session.

- ☒ Excellent
- ☐ Good
- ☐ Fair
- ☐ Poor

5. Please write your suggestions / observations for improvement of the programme

This certificate course will be useful for Sugarcane Breeding

FEEDBACK FROM PARTICIPANTS

Name of the activity: Certificate Course in Virtual Support Technology
Date: 28/12/2021

Name of the participant: K. Satya

Class: I B2C

Phone No. 7799 095730

1. How would you rate the quality of the presentations and demonstrations during the event?

- ☒ Excellent
- ☐ Very Good
- ☐ Good
- ☐ Satisfactory

2. What was your level of satisfaction about the activity?

- ☒ Excellent
- ☐ Very Good
- ☐ Good
- ☐ Satisfactory

3. Please rate your overall knowledge level about the topics covered before attending the session.

- ☐ Excellent
- ☒ Good
- ☐ Fair
- ☐ Poor

4. Please rate your overall knowledge level about the topics covered after attending the session.

- ☒ Excellent
- ☐ Good
- ☐ Fair
- ☐ Poor

5. Please write your suggestions / observations for improvement of the programme

It is useful for our employment



S.T.S.N GOVERNMENT DEGREE COLLEGE

KADIRI, SRI SATYA SAI DIST. AP



NAAC Accredited with 'B' Grade

DEPARTMENT OF ZOOLOGY

Certificate of Participation

This is to certify that Sri/Mr./Miss J. Aparna of YII/III B.Sc. (BZC) has successfully completed Certificate Course with 30 hours in VERMICOMPOST

TECHNOLOGY Conducted by the Department/ Wing of ZOOLOGY STSN Govt Degree College

Kadiari, During the Academic Year 2021-2022.

[Signature]
Course

[Signature]
Head of the Department

coordinator

Head

Department of Zoology
STSN Govt. U.G & P.G. College
KADIRI - 515 591,
Anaparthi (Sri Satya Sai Dist. AP)

[Signature]
Principal

PRINCIPAL

STSN GOVT. DEGREE COLLEGE
KADIRI - 515 591

(Dist)

Anaparthi (Sri Satya Sai Dist. AP)

Lab activities of organic fertilizers



STSN GOVT DEGREE COLLEGE, KADIRI

SRI SATHYA SAI DISTRICT,AP

DEPARTMENT OF SERICULTURE



CERTIFICATE COURSE

ON

WASTE RECYCLING INTO VERMICOMPOST

Date:26/11/2021

RESOLUTION

It is resolved that the department of ***Sericulture*** unanimously decided, to conduct a 45 days certificate course in computer basics for the final year B.sc., CZS students of this college. The course schedule will be from 2nd of December, 2021 to 15th of January, 2022. After successful completion of course an examination should be conducted in the Vermi Compost for both theory & practical and distribution of certificates to the students. The course description and objectives along with syllabus are attached to this copy.

Sericulture Faculty

M. Santhoshikumar
B. Sunita

From
Department of Computer Science
STSN Govt Degree College
Kadiri-515 591

To
The Principal
STSN Govt Degree College
Kadiri-515 591

Subject: Request for Permission to Conduct Certificate Course in **WASTE RECYCLING INTO VERMICOMPOST**

Respected Madam,

I trust this letter finds you well. I am writing to seek permission to conduct a certificate course in **WASTE RECYCLING INTO VERMICOMPOST**. as this process in which earthworms convert the organic waste into manure rich in high nutritional content this method will greatly benefit to our students how convert waste materials into can be used in agriculture purpose.

Course Details

Course Name: **WASTE RECYCLING INTO VERMICOMPOST**

Duration: 35 Days (02.12.2020 to 15.01.2021)

Group: I CZS

Course Content:

- Vermiwash Collection
- Study Of Worm Diseases & Enemies
- Benefits Of Microbes

We kindly request your approval for the proposed certificate course. We are more than willing to provide any additional information or address any concerns you may have. Your support in this endeavor is highly valued, and we believe it will significantly enhance the educational offerings at STSN GDC, Kadiri.

Thank you for considering our request. We look forward to your positive response.


PRINCIPAL
STSN GOVT DEGREE COLLEGE
KADIRI - 515 591

M. Santhoshikumar
B. Sunitha

CIRCULAR

27-11-2021

This is to inform that the Department of **Sericulture** is going to conduct a Certificate course in **WASTE RECYCLING INTO VERMICOMPOST**. This course may be useful for students who will get more knowledge about Vermicomposting, which is a natural process whereby earthworms convert waste material with rigid structures into compost. This course may be useful to the students gain knowledge about Composting Conservation. In this regard, enroll their names in the Department of **Sericulture** on or before 30.11.2021.

Department of Sericulture

Course Details

Course Name: *Waste Management Of Vermicomposting.*

Duration: 45 Days (02.12.2021 to 15.01.2022)

Group: I CZS

Course Content:

- Vermiwash Collection
- Study Of Worm Diseases & Enemies
- Benefits Of Microbes

COURSE DESCRIPTION AND OBJECTIVES

COURSE DESCRIPTION

Department of Sericulture prestigiously introduced 45 days of certificate course in **WASTE RECYCLING INTO VERMICOMPOST**. This course may be useful for students will get more knowledge about Vermicomposting is a natural process Whereby earthworms convert waste material with rigid structures into compost. This course may be useful to the students gain knowledge about Composting Conservation

COURSE OBJECTIVES :

- The main objective of vermicomposting project is to produce organic manure of exceptional quality for the organically starved soil.
- Students will get knowledge of how recycling converts organic materials that have traditionally been viewed as waste into a valuable soil amendment for plants and crops.
- Students will be know about different earthworms.
- Students will be get More Knowledge on Composting It promotes better root growth and nutrient absorption.
- Students will be get more knowledge how to Vermicompost can be used in organic farming and small scale sustainable farming. Vermicompost has several excellent properties and has many advantages when applied to the soil. Vermicompost is an excellent nutrient-rich organic fertiliser, which helps plants to grow well and give better yields.

STUDENT LEARNING OUTCOMES

After Successful Completion Of The Course Students Will Have The Knowledge And Skills & Including

- Acquire a critical knowledge on role of earth worms in making organic matter from biodegradable wastes.
- Understand the biology of some important species of earth worms used in vermiculture.
- Acquire skills on production of vermicompost. & Students will be get knowledge on composting less space is need
- Explain benefits and problems with vermiculture and vermicompost
- Students will be get more knowledge how Earthworm gut play a vital role in the process of nutrient solubilization, bioremediation, And fortification of the beneficial microbe population.
- Students will be get knowledge on composting less space is ne

STSN GOVT DEGREE COLLEGE KADIRI

SRI SATHYA SAI DISTRICT, AP.

DEPARTMENT OF SERICULTURE

SYLLABUS ON WASTE RECYCLING INTO VERMICOMPOST

Unit -1: Introduction to vermiculture

1. Definition, meaning, history, economic importance, value in maintenance of soil structure, role as four's of recycling (reduces, reuse, recycle and restore).

2 Role in bio transformation of the residues generated by human activity and production of organic fertilizers.

Unit -2 Worm Species

1. The matter and humus cycle (product, qualities). ground population, transformation process in organic matter

2. Useful species of earthworms, local and exotic species of earthworms; complementary activities of auto-evaluation; key to identify the species of earthworms.

Unit-4 Vermicomposting

1. Small scale earthworm farming for home gardens - earthworm compost for home gardens.

2. Conventional commercial composting - earthworm composting larger scale (pit, brick and, heap systems).

3. Earthworm farming, extraction (harvest), vermicomposting harvest and processing.

4. Vermiwash collection, composition and use.

Unit-5: Applications of vermiculture

1. Benefits of vermicompost, Use of vermicompost in agriculture.

2. Basic characteristics of earthworm suitable for vermicomposting

STSN GOVT DEGREE COLLEGE KADIRI
DEPARTMENT OF SERICULTURE
CERTIFICATE COURSE TIMETABLE

S.NO	DATE	TOPIC
1	2/12/2021	Definition, Meaning, History OF VERMICOMPOST
	3/12/2021	
2	4/12/2021	Economic Importance OF VERMICOMPOST
	5/12/2021	
3	6/12/2021	Value In Maintenance Of Soil Structure,
	7/12/2021	
4	8/12/2021	Role As Four's Of Recycling(Reduces, Reuse, Recycle And Restore).
	9/12/2021	
5	10/12/2021	Role In Bio Transformation Of The Residues Generated By Human Activity
	11/12/2021	
6	12/12/2021	Production Of Organic Fertilizers.
	13/12/2021	
7	14/12/2021	1.The Matter And Humus Cycle (Product, Qualities
	15/12/2021	
8	16/12/2021	Ground Population, Transformation Process In Organic Matter
	17/12/2021	
9	18/12/2021	Useful Species Of Earthworms,
	19/12/2021	
	20/12/2021	
10	21/12/2021	Local And Exotic Species Of Earthworms;
	22/12/2021	
11	23/12/2021	Complementary Activities Of Auto-Evaluation;
	24/12/2021	

12	27/12/2021	Key To Identify The Species Of Earthworms.
	28/12/2021	
13	29/12/2021	.Small Scale Earthworm Farming For Home Gardens -
	30/12/2021	
14	31/12/2021	Earthworm Compost For Home Gardens.
	1/1/2022	
15	2/1/2022	.Conventional Commercial Composting -
	3/1/2022	
16	4/1/2022	Earthworm Composting Larger Scale (Pit, Brick And, Heap Systems).
	5/1/2022	
17	6/1/2022	Earthworm Farming, Extraction (Harvest)
	7/1/2022	
18	8/1/2022	Vermicomposting Harvest And Processing.
	9/1/2022	
19	10/1/2022	Vermiwash Collection, Composition And Use.
	11/1/2022	
20	12/1/2022	Benefits Of Vermicompost,
21	14/1/2022	Use Of Vermicompost In Agriculture.
22	15/1/2022	Basic Characteristics Of Earthworm Suitable For Vermicomposting

STSN GOVT DEGREE COLLEGE KADIRI**DEPARTMENT OF SERICULTURE****LIST OF STUDENTS PARTICIPATED IN CERTIFICATE COURSE**

S.NO	NAME OF THE STUDENT	GROUP	YEAR	SEMESTER	REMARKS
1	B.MAHESH	CZS	I ST YEAR	II ND SEM	CERTIFICATE ISSUED
2	J.APARNA	CZS	I ST YEAR	II ND SEM	CERTIFICATE ISSUED
3	J.MANO HAR	CZS	I ST YEAR	II ND SEM	CERTIFICATE ISSUED
4	K.THARUN NAIK	CZS	I ST YEAR	II ND SEM	CERTIFICATE ISSUED
5	K.SURESH BABU	CZS	I ST YEAR	II ND SEM	CERTIFICATE ISSUED
6	M.PAVAN KALYAN	CZS	I ST YEAR	II ND SEM	CERTIFICATE ISSUED
7	M.MANASA	CZS	I ST YEAR	II ND SEM	CERTIFICATE ISSUED
8	N.BHAVANI PRASAD	CZS	I ST YEAR	II ND SEM	CERTIFICATE ISSUED
9	O.YAMUNA	CZS	I ST YEAR	II ND SEM	CERTIFICATE ISSUED
10	P. DEVENDRA	CZS	I ST YEAR	II ND SEM	CERTIFICATE ISSUED
11	P. CHANDANA	CZS	I ST YEAR	II ND SEM	CERTIFICATE ISSUED
12	P.ABUBAK SIDDIK	CZS	I ST YEAR	II ND SEM	CERTIFICATE ISSUED
13	P. VEERA PRASAD	CZS	I ST YEAR	II ND SEM	CERTIFICATE ISSUED
14	P.SAI V INAY	CZS	I ST YEAR	II ND SEM	CERTIFICATE ISSUED
15	R.BALAJI NAIK	CZS	I ST YEAR	II ND SEM	CERTIFICATE ISSUED
16	S.DURGA PRASAD	CZS	I ST YEAR	II ND SEM	CERTIFICATE ISSUED
17	U.GIRISH	CZS	I ST YEAR	II ND SEM	CERTIFICATE ISSUED
18	U. KIRAN BABU	CZS	I ST YEAR	II ND SEM	CERTIFICATE ISSUED
19	Y. SURESH	CZS	I ST YEAR	II ND SEM	CERTIFICATE ISSUED
20	Y. RAJU	CZS	I ST YEAR	II ND SEM	CERTIFICATE ISSUED
21	Y. BABU	CZS	I ST YEAR	II ND SEM	CERTIFICATE ISSUED

STUDENT SIGNATURE LIST

S.NO	REGISTER NUMBER	STUDENT NAME	STUDENT SIGNATURE
1	2142005622002	B.MAHESH	B. Mahesh
2	2142005622005	J.APARNA	J. Aparna
3	2142005622006	J.MANO HAR	J. Manohar
4	2142005622007	K. SATHISH KUMAR	K. Sathish Kumar
5	2142005622008	K.THARUN NAIK	K. Tharun Naik
6	2142005622009	K.SURESH BABU	K. Suresh Babu
7	2142005622011	M.RAJA SHEKAR	M. Raja Shekar
8	2142005622012	M.PAVAN KALYAN	M. Pavan Kalyan
9	2142005622014	M.MANASA	M. Manasa
10	2142005622016	N.BHAVANI PRASAD	N. Bhavani Prasad
11	2142005622017	O.YAMUNA	O. Yamuna
12	2142005622018	P. DEVENDRA	P. Devendra
13	2142005622019	P. CHANDANA	P. Chandana
14	2142005622020	P.ABUBAK SIDDIK	P. Abubakar Siddik
15	2142005622022	P. VEERA PRASAD	P. Veera Prasad
16	2142005622024	P.SAI VINAY	P. Saiviray
17	2142005622025	R.BALAJI NAIK	R. Balaji Naik
18	2142005622026	S.BHANU PRASAD	S. Bhanu Prasad
19	2142005622027	S.LAVANYA	S. Lavanya
20	2142005622029	S. JAYPAUL	S. Jay Paul
21	2142005622031	S.DURGA PRASAD	S. Durga Prasad
22	2142005622032	T. BALASUBRAMANYAM	T. Balasubramanyam
23	2142005622033	U.GIRISH	U. Girish
24	2142005622034	U. KIRAN BABU	U. Kiran Babu
25	2142005622036	Y. SURESH	Y. Suresh
26	2142005622037	Y. RAJU	Y. Raju
27	2142005622038	Y. BABU	Y. Babu

ATTENDENECE SHEET

ATTENDANCE SHEET

[illegible]

STSN GOVT.DEGREE COLLEGE, KADIRI
DEPARTMENT OF SERICULTURE
MODEL QUESTION PAPER

20M

Write Any Two Questions

5x2=10

1. Benefits & Uses Of Vermicompost
2. Vermicomposting Harvest And Processing

Write Any Five Questions

2x5=10

1. Definition, Meaning Of Vermicompost
2. Types Of Earthworms
3. Use Of Vermicompost
4. Vermicomposting Harvest And Processing
5. Vermiwash Collection
6. Processingbasic Characteristics Of Earthworm

STUDENT FEEDBACK

STUDENT FEEDBACK

Name of the activity: Waste Recycling into Vermicompost

Date: 16-01-2020

Name of the participant: Y. Babu

Class: 5

Phone No. 9493559300

1. How would you rate the quality of the presentations and demonstrations during the event?

- ☒ Excellent
- ☐ Very Good
- ☐ Good
- ☐ Satisfactory

2. What was your level of satisfaction about the activity?

- ☒ Excellent
- ☐ Very Good
- ☐ Good
- ☐ Satisfactory

3. Please rate your overall knowledge level about the topics covered before attending the session.

- ☐ Excellent
- ☒ Good
- ☐ Fair
- ☐ Poor

4. Please rate your overall knowledge level about the topics covered after attending the session.

- ☒ Excellent
- ☐ Good
- ☐ Fair
- ☐ Poor

5. Please write your suggestions / observations for improvement of the programme

I am glad to participate in this course. I learned a lot of knowledge things about Vermicompost and waste recycling management in eco-friendly manner.



STSN GOVT.DEGREE COLLEGE, KADIRI
DEPARTMENT OF SERICULTURE

CERTIFICATE COURSE COMPLETION

*This is to certify that Mr/Miss/**B.MAHESH** has successfully completed 35 days Certificate course in the Department of **SERICULTURE** and has been awarded. day of **JANUARY-26** in the year **2021** He/she is conferred the following award*

Authorized Signatory

Principal

M. Santhoshikumar
B. Switha


PRINCIPAL
STSN Govt DEGREE COLLEGE
KADIRI - 515 591
Dist. Eluru, Andhra Pradesh

ISSUE OF CERTIFICATE



STUDENT PARTICIPATED PICS

BUYING A WORM COMPOST



STUDENTS LINING UP WITH DRIED GRASS AND LEAVES



WATERING THE PIT TWICE A WEEK

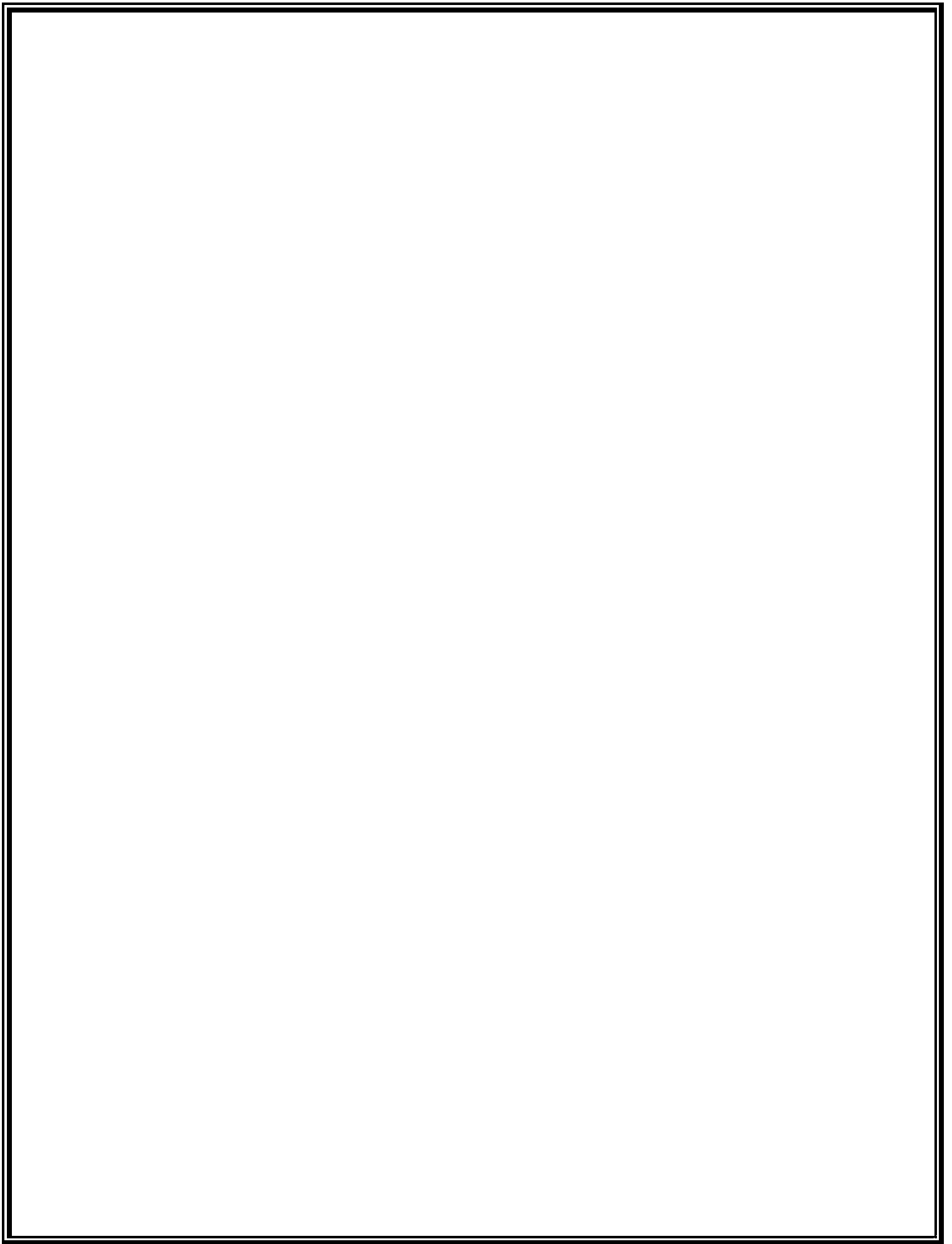


WATERING THE PIT TWICE A WEEK



PREPARE A COW DUNG SLURRY & SPRINKLE

IT ON THE HEAP OF QUICK DECOMPOSITION



STSN GOVT DEGREE COLLEGE, KADIRI

SRI SATHYA SAI DISTRICT,AP

DEPARTMENT OF SERICULTURE



Certificate course

ON

PACKAGE OF PRACTICES IN SERICULTURE

RESOLUTION

It is resolved that the department of *Sericulture* unanimously decided to conduct a 30 days certificate course in ‘ **Package of practices in sericulture**’ for the first year BSC[CZS] Students of this college ,the course schedule will be **01-12-2021** to **07-01-2022**.After successful completion of course for both theory &Practical and distribution of Certificates to the students. The course syllabus is attached to this copy.

Department of Sericulture

M. Sathishkumar
B. Sunita

From

Department of Computer Science
STSN Govt Degree College
Kadiri-515 591

To

The Principal
STSN Govt Degree College
Kadiri-515 591

Subject: Request for Permission to Conduct Certificate Course in *Package of Practices in Sericulture* Respected Madam,

I trust this letter finds you well. I am writing to seek permission to conduct a certificate course in *Package of Practices in Sericulture*. As this process in this course may be useful for students will get more knowledge about mulberry cultivation, silworm rearing & self employment and income generation

Course Details

Course Name: *Package of practices in sericulture*

Duration: 30 Days

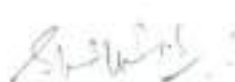
Group: II CZS

Course Content:

We kindly request your approval for the proposed certificate course. We are more than willing to provide any additional information or address any concerns you may have. Your support in this endeavor is highly valued, and we believe it will significantly enhance the educational offerings at STSN GDC, Kadiri.

Thank you for considering our request. We look forward to your positive response.

Yours Sincerely


PRINCIPAL
STSN GOVT DEGREE COLLEGE
KADIRI - 515 591

M. Sathoshikumar
B. Sumitha

CIRCULAR

29-10-2021

This is to inform that the Department of Sericulture is going to conduct a Certificate course in ***Package of Practices in Sericulture***. As this process in this course may be useful for students will get more knowledge about mulberry cultivation, silworm rearing & self employment and income generation. This course may be useful for students will get more knowledge about. In this regard enroll their names in the Department of Sericulture on or before 30.11.2021.

Department of Sericulture

Course Details

Course Name:. ***Package of practices in sericulture***

Duration: 30

Group: II CZS

Course Content:

- Preparation of Mulberry Nursery
- Raising of Mulberry
- Mulberry Nursery Management

M. Sathoshikumar
B. Sumitha

DEPARTMENT OF SERICULTURE

CERTIFICATE COURSE IN PACKAGE OF PRACTICES IN SERICULTURE

OBJECTIVES:

- To introduce the concepts of origin, growth, study of sericulture as science.
- To understand the scientific approach of mulberry.
- To imparting training in mulberry cultivation, silkworm rearing.
- To give scientific knowledge about mulberry cultivation , silkworm rearing techniques to the students.
- To make the students aware about soil to soil concept, sericulture extention and innovation/techniques
- To train the students in comprehensive value added products production techniques
- To make the students understand about various value added products prepared from different wastes generated during various stages of sericulture.
- To provide hands –on training in the preparation of value added products from sericulture wastes obtained during various stages of silk production.

Activities:

- Mulberry cultivation practices in mulberry garden.
- Disinfection of rearing house.
- Chawki rearing .
- Preparation of valued added products i.e mulberry jam preparation, preparation of cocoon hand crafts etc.
- Visiting of mulberry cultivation and silkworm rearing centres.

OUTCOME

After successful completion of this course the student is will be able to

- Apply knowledge and skills of “Package of Practices in Sericulture”.
- Study of introduction of origin and growth and study of sericulture as science.
- Study of scope of mulberry cultivation.

Students got experience in different kinds of activities in mulberry cultivation

DEPARTMENT OF SERICULTURE
PROGRAMME::CERTIFICATE COURSE
COURSE- PACKAGE OF PRACTICES IN SERICULTURE

Unit-I MORICULTURE:-

Introduction and scope of mulberry cultivation- Ecological requirements, land preparation, selection and propagation of mulberry varieties , plantation, irrigation, application of manures, fertilizers , weeding , pruning, harvesting of mulberry .

Unit-II SILKWORM REARING:-

Introduction of silkworm rearing-Rearing house Rearing apparatus, disinfection of rearing house -Chawki & late age rearing, environmental conditions In silkworm rearing house,
Feeds of silkworms, Bed cleaning ,Bed disinfectants, Moulting and Mounting , spinning and harvesting of cocoons

Unit-III VALUE ADDITION IN SERICULTURE:-

General account of by products-value added products of mulberry, value added products of cocoon , value added products of silk.

S.NO	DATE/DAY	TOPICS COVERED	Hour
1	01/11/2022	Introduction and scope of Sericulture	1
2	02/11/2022	Introduction of package of practices in mulberry Cultivation	1
3	03/11/2022	Selection of ecological requirements, Land & site selection	1
4	04/11/2022	Preparation of land	1
5	06/11/2022	propagation of mulberry	1
6	07/11/2022	Plantation,	1
7	08/11/2022	Irrigation	1
	09/11/2022	application of manures, fertilizers	1
9	10/11/2022	pruning, of mulberry	1
10	13/11/2022	harvesting of mulberry	1
11	14/11/2022	Introduction of silkworm rearing	1
12	15/11/2022	Types of Rearing house	1
13	16/11/2022	Rearing apparatus	1
14	17/11/2022	Disinfection of rearing house	1
15	18/11/2022	Chawki & late age rearing	1
16	20/11/2022	environmental conditions In silkworm rearing house	1
17	21/11/2022	Feeds of silkworms	1
18	22/11/2022	Bed cleaning ,Bed disinfectants	1
19	23/11/2022	Moulting	1
20	24/11/2022	Mounting	1
21	25/11/2022	spinning and harvesting of cocoons	1
22	27/11/2022	Value Addition In Sericulture	1
23	28/11/2022	General account of by products	1
24	29/11/2022	value added products of mulberry	1
25	30/11/2022	Mulberry Leaf and Fruit Recipes	1
26	03/01/2023	value added products of cocoon	1
27	04/01/2023	Bio Crafts	1
28	05/01/2023	value added products of silk	1
29	06/01/2023	Group discussion on Sericulture	1
30	07/01/2023	Certificate distribution	1

STUDENT REGISTRATION FORM:BSc-CZS(VI Semester)

S.No	Register Numb	Name of the Student	Remarks
1	2042005081001	A. Siri Chandana	Certificate Issued
2	2042005081002	B.Sai Kiran	Certificate Issued
3	2042005081004	B.Hemanth Kumar Reddy	Certificate Issued
4	2042005081005	B.Venkatramana	Certificate Issued
5	2042005081007	B.Satheeshkumar Naik	Certificate Issued
6	2042005081009	D Mohan Das	Certificate Issued
7	2042005081011	Gangamolla Anil	Certificate Issued
8	2042005081012	H D Akshatha	Certificate Issued
9	2042005081013	H Mahanthesh	Certificate Issued
10	2042005081014	K. Reddisekhar	Certificate Issued
11	2042005081015	K Anil	Certificate Issued
12	2042005081016	K.Raju	Certificate Issued
13	2042005081017	K Narayana Swamy	Certificate Issued
14	2042005081020	K.Jagadeesh	Certificate Issued
15	2042005081021	M. Nowziya	Certificate Issued
16	2042005081022	M. Jagadeesh	Certificate Issued
17	2042005081023	M. Sruthi	Certificate Issued
18	2042005081024	M. Rajani	Certificate Issued
19	2042005081025	M. Tejaswini	Certificate Issued
20	2042005081026	M. Narendra	Certificate Issued
21	2042005081027	M. Balaji Naik	Certificate Issued
22	2042005081028	M. Nagendra Naik	Certificate Issued
23	2042005081030	N. Gayathri	Certificate Issued
24	2042005081035	S. Chandrakala	Certificate Issued
25	2042005081036	S. Narasimha	Certificate Issued
26	2042005081037	T. Akhil	Certificate Issued
27	2042005081038	T. Prathibha	Certificate Issued
28	2042005081039	V. Vijay Kumar Naik	Certificate Issued
29	2042005081040	V. Subramanyam	Certificate Issued
30	2042005081041	V.Haresh	Certificate Issued

DEPARTMENT OF SERICULTURE
Signature List

S.No	Register Number	Name of the Student	Signature
1	2042005081001	Asadi Siri Chandana	A. Sirichandana
2	2042005081002	Badam Sai Kiran	B. Saidkiran
3	2042005081004	Bandaarla Hemanth Kumar Reddy	B. Hemanth Kumar
4	2042005081005	Bandameeda Venkatramana	B. Venkatramana
5	2042005081007	Bhukya Satheeshkumar Naik	B. Satheeshkumar
6	2042005081009	D Mohan Das	D. Mohandas
7	2042005081011	Gangamolla Anil	G. Anil
8	2042005081012	H D Akshatha	H. D. Akshatha
9	2042005081013	H Mahanthesh	H. Mahanthesh
10	2042005081014	Kamatham Reddissekhar	K. Reddissekhar
11	2042005081015	K Anil	K. Anil
12	2042005081016	Kavvaiah Gari Raju	K. Raju
13	2042005081017	K Narayana Swamy	K. Narayana Swamy
14	2042005081020	K. Jagadeesh	K. Jagadeesh
15	2042005081021	M. Nowziya	M. Nowziya
16	2042005081022	M. Jagadeesh	M. Jagadeesh
17	2042005081023	M. Sruthi	M. Sruthi
18	2042005081024	M. Rajani	M. Rajani
19	2042005081025	M. Tejaswini	M. Tejaswini
20	2042005081026	M. Narendra	M. Narendra
21	2042005081027	M. Balaji Naik	M. Balaji Naik
22	2042005081028	M. Nagendra Naik	M. Nagendra Naik
23	2042005081030	N. Gayathri	N. Gayathri
24	2042005081035	S. Chandrakala	S. Chandrakala
25	2042005081036	S. Narasimha	S. Narasimha
26	2042005081037	T. Akhil	T. Akhil
27	2042005081038	T. Prathibha	T. Prathibha
28	2042005081039	V. Vijay Kumar Naik	V. Vijay Kumar Naik
29	2042005081040	V. Subramanyam	V. Subramanyam
30	2042005081041	Vetti Haresh	V. Haresh

STSN GOVT DEGREE & P.G.COLLEGE, KADIRI,
DEPARTMENT OF SERICULTURE
ASSEMENT EVALUATION FOR CERTIFICATE COURSE

TIME : 2hrs
MARKS: 50.

I Answer any Four of the following question?

4x5=20Mark

1. Mulberry genotypes
2. Plantation methods of Mulberry
3. Chawki Rearing
4. Types Of Rearing Houses
5. Mulberry Leaf Recipes

II Answer any Three of the following question?

3x10=30 Marks

1. Explain Propagation Methods of Mulberry ?
2. Write Note on Disinfection of Rearing house and Apparatus?
3. Writ about Preparation of Mulberry Jam?
- 4.Explain preparation of Cocoon Crafts?

FEEDBACK FROM PARTICIPANTS

Name of the activity: Package of Practices in Sericulture
Date: 07-01-2022

Name of the participant: B. Venkata Ramana

Class: VI Semester BSc CZS

Phone No. 8688895094

1. How would you rate the quality of the presentations and demonstrations during the event?

- ☒ Excellent
- ☐ Very Good
- ☐ Good
- ☐ Satisfactory

2. What was your level of satisfaction about the activity?

- ☐ Excellent
- ☒ Very Good
- ☐ Good
- ☐ Satisfactory

3. Please rate your overall knowledge level about the topics covered before attending the session.

- ☐ Excellent
- ☒ Good
- ☐ Fair
- ☐ Poor

4. Please rate your overall knowledge level about the topics covered after attending the session.

- ☒ Excellent
- ☐ Good
- ☐ Fair
- ☐ Poor

5. Please write your suggestions / observations for improvement of the programme

Happy learning and I learned a lot of Sericulture industry and how to cultivate mulberry garden, how to raising silkworms to produce cocoon. I know the value addition in Sericulture.



STSN GOVT.DEGREE COLLEGE, KADIRI
DEPARTMENT OF SERICULTURE

CERTIFICATE COURSE COMPLETION

*This is to certify that Mr/Miss/A.SIRICHANDANA has successfully completed 35 days Certificate course in the Department of **SERICULTURE** and has been awarded. day of JANUARY-26 in the year 2023 He/she is conferred the following award*

Authorized Signatory

Principal

*M. Santhoshikumar
B. Smita*

[Signature]
PRINCIPAL
STSN GOVT. DEGREE COLLEGE
KADIRI - 515 501

Activities





- Study of difference between chawki rearing and late age rearing.
- Students observed new methods of silkworm rearing-shoot , shelf, tray rearing.



- Study of additional income from by- products.

- Study of value added products in mulberry sector, silkworm rearing sector and silk reeling sector.

Preparation of mulberry jam



Cocoon handcrafts



- Students will be able to identify different types of sericulture wastes.

Vermicompost preparation

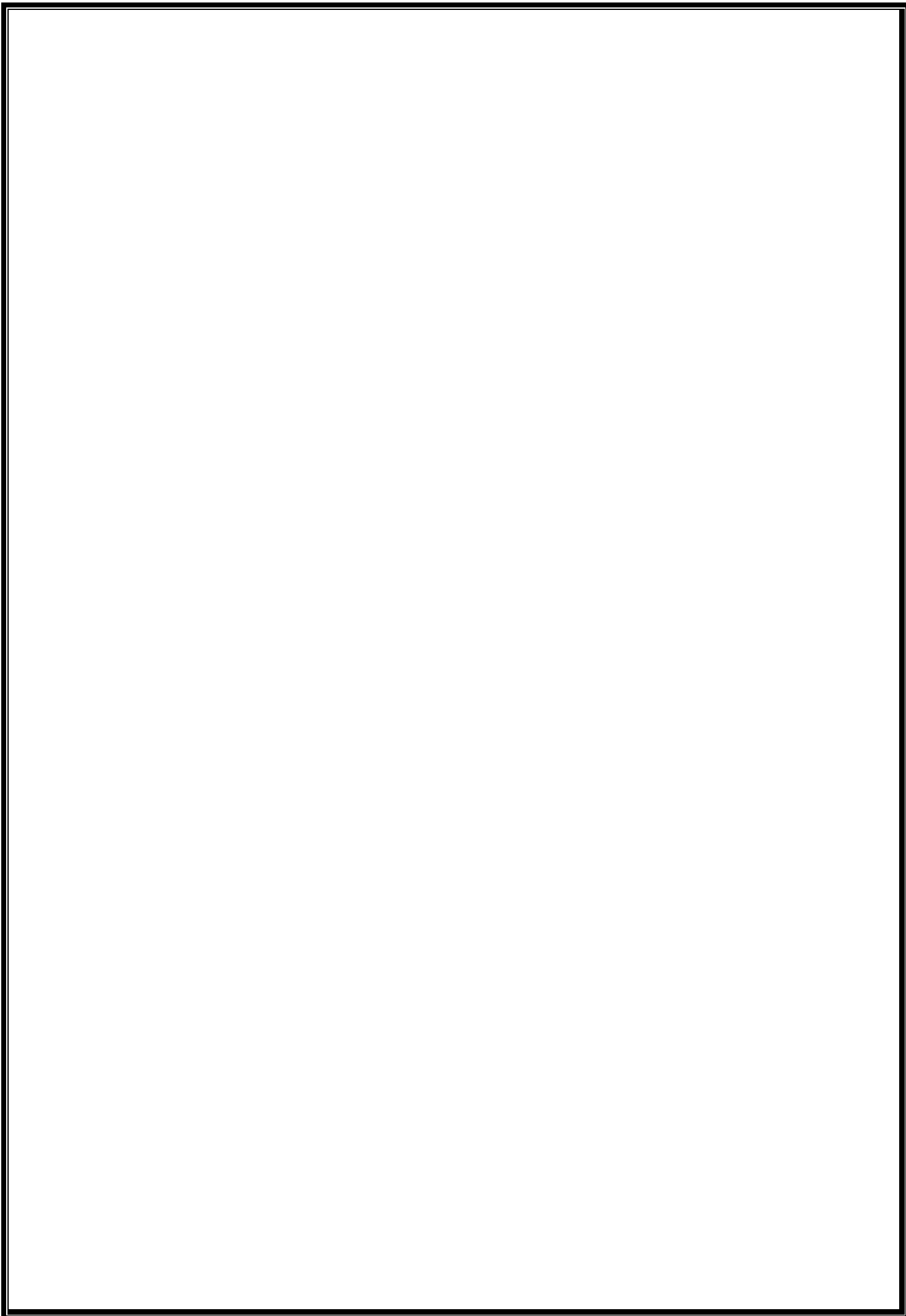


- Apply this knowledge to their future studies and how to learn self employment and earn income in sericulture.



Interacting with sericulture farmers and learning about selfemployment in sericulture





S.T.S.N. GOVT. DEGREE COLLEGE, KADIRI
DEPARTMENT OF PHYSICAL EDUCATION



Certificate course on constable coaching
(From 04-12-2021 to 12-01-2022)

THE AIM & OBJECTIVES OF THIS STUDY ARE

- To show the kind of training policemen need
- To show the difficulties to be met in giving them this training; and
- To present a plan which will meet their needs and overcome as many of the difficulties as possible? Before one can outline the training demanded by this vocational group, a study must be made of the tasks involved in the profession and the kind of men to be trained.
- The difficulties to be met can be learned by a study of those encountered in police training already under way. Additional light will be thrown on difficulties by an analysis of the job and of the qualifications of the men engaged in it.
- If policemen are dealing with social and individual problems with little specialized training or with training poorly adapted to their needs studies will show this condition and point to a solution.

AN HISTORICAL SURVEY

An historical survey the 100 years since the establishment in London of the first municipal police force reveals changes in our civilization of a technical and social nature which profoundly affect police procedure and police training.

EXECUTIVE SUMMARY THE GOOD PRACTICES IN BASIC POLICE TRAINING:

Curricula Aspects guide provides police educators with a core curriculum for basic police training for recruits aiming to become uniformed police personnel in democratic societies. A companion piece to the Guidebook on Democratic Policing, it details the topics uniformed police personnel must master to enable them to serve effectively in the field, ensuring public security and order while respecting the law and human rights. Uniformed police are predominantly responsible for maintaining order and safety in public places and at public events. In particular, the competencies of the uniformed police might include:

- To maintain law and order in public areas
- To act as a traffic authority and control traffic and transport
- To provide the best possible policing service to the local community to ensure people's safety and to protect their life and property, taking into consideration the different needs of different groups (for example, ethnicity, language, sex and age);
- To co-operate with local society to prevent, detect and suppress crimes
- To ensure the first response to the crime scene as soon as a crime is reported to the police; to secure the crime scene before police investigators and technical experts arrive.
- To act according to the law, recognize unlawful acts, detect offenders and properly use police powers
- To exercise authority and available powers to resolve cases of minor offence

- To contribute to the prevention and investigation of minor offences
- To exercise authority powers in cases of production, sale and use of certain devices and materials that poses a threat to public security.
- To aid and assist in emergencies of all kinds and in the event of a major threat
- To provide protection against acts that imminently endangers or harms the life or bodily integrity of persons or the security of property.

VALUES AND ETHICS:

Uniformed police members are given the responsibility by a democratic government to protect the rights of citizens and enforce the law of the state. Their daily policing should be based on democratic values. Those values ensure fair and impartial treatment of all individuals, sensitivity to racial, ethnic, sexual, gender and religious factors, with an awareness of cultural diversity and discrimination. They reflect a respect for fundamental human rights, integrity and police codes of conduct.

Values and Ethics in Action The police are the most visible manifestation of government authority responsible for public security, with front-line personnel – such as the patrol service, traffic, community or protection police service – in day-to-day contact with citizens. The skill with which they perform their duties will determine the public perception – positive or negative – of the national police service. 9 Their on-the-job decision-making and actions should reflect sound judgment guided by the values and ethics already discussed. This section explores how ethical and value-based decision-making should look in practice in different, and often sensitive, settings, such as in working with juveniles, victims or in cases of civil disturbance.

POLICING SKILLS BASIC POLICE TRAINING:

Policing skills basic Police training must include practical skills. Developed professional skills equip uniformed police members to meet and respond more automatically to typical challenges and situations by consistently using proven techniques. These skills also prepare them to follow a reasonable course of action in emergencies and under non-standard conditions.

From
Principal
S.T.S.N. Govt. Degree College,
KADIRI, Anantapur Dist.

To
The Deputy Superintendent of Police,
Kadiri Division,
KADIRI, Anantapur Dist.

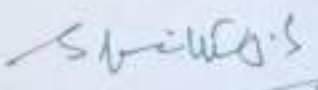
Respected Madam

With all best wishes for your endeavor in future we privileged to invite you to inaugurate the Spl. Coaching camp on 04-12-2021 for employment of Police Constables vide the Govt. notification to be released shortly.

We shall highly be thankful to you if you could address and provide necessary suggestions for the better future of the students.

Thanking you

Yours Sincerely,


PRINCIPAL 3/12/21
STSN GOVERNMENT DEGREE COLLEGE
KADIRI-515 591

CIRCULAR

第 103 页

22-10-2021

உத்தரவிட்ட உத்தரவுகள் கீழ்க் குறிப்பிட்டுள்ளபடி
கட்டாயம் நிறைவேற்றம் செய்ய வேண்டிய
பொது உத்தரவுகள் போன்றவை உத்தரவுகளை
வாசித்து பூர்த்தி செய்ய வேண்டிய application
form, P.11 போன்றவற்றை பற்றிய விவரங்களை
உத்தரவுகளைப் பற்றி தெரிந்துகொள்ள
வேண்டியது.

* 8511100; 9530 24-11-2021 to 24-12-2021 5850

* Application: 25-10-2021 నాటి P.D నోట్స్ చూడాలి.

PRINCIPAL
STEN GOVT. DEGREE COLLEGE
KADIRI-515 591
Anantapuramu (Dist.)

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pills~~

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Reading Café

III B.Sc. P-2

III B.Sc. H22
B.Com. CAG Gen. Guwahati

II Bcom CAG Gen
III BA EHP

6.52

Drinking

INNAGURATION OF THE PROGRAMME



Inviting and briefing of this function by Dr. R. Narasimhachari, Lecturer in Physical Education on 04-12-2012



Our Beloved Principal Madam Dr.S.Smitha Garu given importance of this programme



D.S.P. Madam Smt. Bhavya Kishore Garu Inaugurate the Programme and given importance of the programme and Appreciation of the programme.



Sri. G.L.N. Prasad Garu, Lecturer in Zoology, Govt. Degree College, Kalyandurg. Motivating the students



Felicitation of our Guests



Felicitation of our Guests

ఆత్మస్థైర్యంతో ముందుకెళ్ళాలి



మాట్లాడుతున్న డీఎస్పీ భవ్యకిశోర్

కదిరి అర్బన్: యువత ఆత్మస్థైర్యంతో ముందు కెళ్తే ఉన్నత లక్ష్యాలకు చేరుకోవచ్చని డీఎస్పీ భవ్యకిశోర్ అన్నారు. శనివారం స్థానిక ఎస్టీఎస్ఎన్ ప్రభుత్వ డిగ్రీ కళాశాలలో పీడీ నరసింహాచారి ఆధ్వర్యంలో పోలీసు ఉద్యోగాలకు దరఖాస్తు చేసుకున్న అభ్యర్థులకు ఒక నెల పాటు ఉచిత శిక్షణా కార్యక్రమం ఏర్పాటు చేశారు. కార్యక్రమానికి ముఖ్య అతిథులుగా డీఎస్పీతో పాటు ప్రిన్సిపాల్ డా.స్మిత, సీఐ సత్యబాబులు హాజరై మాట్లాడారు.

కష్టపడి చదివి ఉన్నత ఉద్యోగాలు సాధించాలి : డిఎస్పీ



మాట్లాడుతున్న డిఎస్పీ భవ్య కిషోర్

కదిరి. డిసెంబర్ 4(ప్రభుత్వ) కష్టపడి చదివి ఉన్నత ఉద్యోగాలు సాధించాలని విద్యార్థులను ఉద్దేశించి కదిరి డిఎస్పీ భవ్య కిషోర్ పేర్కొన్నారు. శనివారం పట్టణంలోని ప్రభుత్వ డిగ్రీ కళాశాలలో వ్యాయామ శాల ఆధ్వర్యంలో నెలరోజు లపాటు పోలీస్ ఉద్యోగాలకు పోటీ పడే అభ్యర్థులకు ఉచిత శిక్షణ కార్యక్రమాన్ని ప్రారంభించారు. ఈ కార్యక్రమానికి హాజరైన డిఎస్పీ మాట్లాడుతూ కళాశాలలో ఉచితంగా పోలీస్ ఉద్యోగాలకు పోటీ పడే అభ్యర్థులకు శిక్షణ కార్యక్రమం ఇవ్వడం హర్షించదగ్గ విషయమన్నారు. ప్రతి ఒక్కరు చక్కగా ఈ అవకాశాన్ని సద్వినియోగం చేసుకొని ఉద్యోగాలు సాధించాలని ఆకాంక్షించారు. ఈ కార్యక్రమాన్ని ఏర్పాటు చేసినందుకు వ్యాయామ అధ్యాపకులు నరసింహాచారిని పలువురు అభినందించారు. కళాశాల ప్రిన్సిపాల్ డాక్టర్ స్మిత ,వైస్ ప్రిన్సిపల్ శివప్రసాద్ ,టౌన్ సివి సత్యబాబు, అధ్యాపకులు డాక్టర్ హైదర్ వలి ,సిబ్బంది తదితరులు పాల్గొన్నారు.

DEPARTMENT OF PHYSICAL EDUCATION, S.T.S.N. GOVT. DEGREE COLLEGE, KADIRI.
FREE COACHING FOR CONSTABLE SELECTIONS -2021 (MEN & WOMEN)

PROGRAMME SCHEDULE FOR PHYSICAL ACTIVITIES

DATE	MORNING SECESSION 6.30am To 8.00 am			EVENING SECESSION 3.30 pm to 5.00 pm				
04-12-2021	Inaugural function at 11.00 am			Warming up	1600 mts.	100 mts.	GYM	Long Jump
06-12-2021	Warming up	1600 mts.	Long jump	Warming up	1600 mts.	100 mts.	GYM	Long Jump
07-12-2021	Warming up	1600 mts.	Long jump	Warming up	1600 mts.	100 mts.	GYM	Long Jump
08-12-2021	Warming up	1600 mts.	Long jump	Warming up	1600 mts.	100 mts.	GYM	Long Jump
09-12-2021	Warming up	1600 mts.	Long jump	Warming up	1600 mts.	100 mts.	GYM	Long Jump
10-12-2021	Warming up	100 mts.	Long jump	Warming up	100mts.	1600 mts	GYM	Long Jump
11-12-2021	Warming up	100 mts.	Long jump	Warming up	100mts.	1600 mts	GYM	Long Jump
13-12-2021	Warming up	100 mts.	Long jump	Warming up	100mts.	1600 mts	GYM	Long Jump
14-12-2021	Warming up	100 mts.	Long jump	Warming up	100mts.	1600 mts	GYM	Long Jump
15-12-2021	Warming up	100 mts.	Long jump	Warming up	100mts.	1600 mts	GYM	Long Jump
16-12-2021	Warming up	100 mts.	Long jump	Warming up	100mts.	1600 mts	GYM	Long Jump
17-12-2021	Warming up	100 mts.	Long jump	Warming up	1600 mts	100 mts.	GYM	Long Jump
18-12-2021	Warming up	100 mts.	Long jump	Warming up	1600 mts	100 mts.	GYM	Long Jump
20-12-2021	Warming up	100 mts.	Long jump	Warming up	1600 mts	100 mts.	GYM	Long Jump
21-12-2021	Warming up	100 mts.	Long jump	Warming up	1600 mts	100 mts.	GYM	Long Jump
22-12-2021	Warming up	100 mts.	Long jump	Warming up	1600 mts	100 mts.	GYM	Long Jump
23-12-2021	Warming up	100 mts.	Long jump	Warming up	1600 mts	100 mts.	GYM	Long Jump
24-12-2021	Warming up	100 mts.	Long jump	Warming up	1600 mts	100 mts.	GYM	Long Jump
27-12-2021	Warming up	100 mts.	Long jump	Warming up	1600 mts	100 mts.	GYM	Long Jump
28-12-2021	Warming up	100 mts.	Long jump	Warming up	1600 mts	100 mts.	GYM	Long Jump
29-12-2021	Warming up	100 mts.	Long jump	Warming up	1600 mts	100 mts.	GYM	Long Jump
30-12-2021	Warming up	100 mts.	Long jump	Warming up	1600 mts	100 mts.	GYM	Long Jump
31-12-2021	Warming up	100 mts.	Long jump	Warming up	1600 mts	100 mts.	GYM	Long Jump
02-01-2022	Warming up	100 mts.	Long jump	Warming up	1600 mts	100 mts.	GYM	Long Jump
03-01-2022	Warming up	100 mts.	Long jump	Warming up	1600 mts	100 mts.	GYM	Long Jump
04-01-2022	Warming up	100 mts.	Long jump	Warming up	1600 mts	100 mts.	GYM	Long Jump
05-01-2022	Warming up	100 mts.	Long jump	Warming up	1600 mts	100 mts.	GYM	Long Jump
06-01-2022	Warming up	100 mts.	Long jump	Warming up	1600 mts	100 mts.	GYM	Long Jump
07-01-2022	Warming up	100 mts.	Long jump	Warming up	1600 mts	100 mts.	GYM	Long Jump
08-01-2022	Warming up	100 mts.	Long jump	Warming up	1600 mts	100 mts.	GYM	Long Jump
10-01-2022	Warming up	100 mts.	Long jump	Warming up	1600 mts	100 mts.	GYM	Long Jump
11-01-2022	Warming up	100 mts.	Long jump	Warming up	1600 mts	100 mts.	GYM	Long Jump
12-01-2022	Valedictory Function at 11.00am							

SELECTION PROCESS OF STIPENDIARY CADET TRAINEE
(CIVIL/A.R./A.P.S.P.& WARDER.)

Physical Measurements & Qualification for Men & Women

MEN	WOMEN
Height -168 Cm.	Height- 153 Cm.
Chest Measurements – 87 Cm. & 5 Cm. Expansion	Weight- 45.5 Kg.
Age-18-24 years, (Warder)-18-32 years	Age-18-24 years, (Warder)-18-32 years
<u>Qualifications-</u> Inter of OC. & BC. S.S.C. for SC & ST.	<u>Qualifications-</u> Inter of OC. & BC. S.S.C. for SC & ST.

STEP-I Preliminary Exam.

Preliminary Exam	TIME	MARKS	O.C. Qualifying Marks %	B.C. Qualifying Marks %	SC. & ST. Qualifying Marks %
	3.00 Hours.	200	40	35	30

STEP-II Physical Efficiency Test

MEN	WOMEN
100 Meters- 15 Sec.	100 Meters- 18 Sec.
Long Jump-3.80 Mts.	Long Jump-2.75 Mts.
1600 Meters- 8 Minutes	1600 Meters- 10 Minutes & 30 Sec.

STEP- III Main Exam

Main Exam	TIME	MARKS	O.C. Qualifying Marks %	B.C. Qualifying Marks %	SC. & ST. Qualifying Marks %
	3.00 Hours.	200	40	35	30

Written Examination Syllabus: Test of Reasoning & Mental Ability, English, Arithmetic, General Science, History of India, Indian Culture, Indian National Movement, Indian Geography, Polity & Economics, Current Events of National and International Importance.



Principal Madam Garu given suggestions & importance of the programme to the students



Fitness Training



Fitness Training



Measuring the Height of the students



Measuring the Height of the students



Measuring the Height of the students



Shuttle run for fitness



Fitness Training



Running for fitness



Test of Reasoning & Mental Ability, English, Arithmetic, General Science, History of India, Indian Culture, Indian National Movement, Indian Geography, Polity & Economics, Current Events of National and International Importance. Classes taken by Sri. S. Masud Ahammed, Lecturer in Physics.



Certificate distribution to the students who participated in free constable coaching camp at STSN GDC. Kadiri. The Guest of Honour Sri. Isaac, Sub-Inspector of Police, Town Police Station, Kadiri and Our College Principal madam Dr. S. Smitha, & Course Coordinator Dr. R. Narasimhachari , lecturer in Physical Education and other Lecturers .



Certificate distribution to the students who participated in free constable coaching camp at STSN GDC. Kadiri. The Guest of Honour Sri. Isaac, Sub-Inspector of Police, Town Police Station, Kadiri and Our College Principal madam Dr. S. Smitha, & Course Coordinator Dr. R. Narasimhachari , lecturer in Physical Education and other Lecturers .



Certificate Modal

OUT COME THE PROGRAMME

- 92 students participated from all three year courses in our college.
- Encouraged students to enter into Police Department with service motto.
- Free coaching class has brought awareness about career in Police Department.
- Created awareness about the exam pattern and syllabus for A.P. Constable Posts.
- Brought awareness about the Physical test and how to achieve in it.
- The coaching class helped the students to build confidence and positivity in attempting competitive exams.
- This caching also helped the students to focus on other competitive exams along with career in Police Department.
- The coaching classes improved the student's knowledge in general awareness, Quantitative aptitudes, Current affairs, Basic English gram

CERTIFICATE COURSE
ON
INTRODUCTION TO POLITICAL SCIENCE



STSN GOVT.DEGREE COLLEGE, KADIRI
SRI SATHYA SAI DISTRICT
DEPARTMENT OF POLITICAL
SCIENCE

DEPARTMENT OF POLITICAL SCIENCE

SUBJECT RELATED CERTIFICATE COURSE- 2021-22

The faculty members of the Political Science department in the principal chamber to discuss and review the conduct of the certificate course titled " **Introduction to Political Science** " under the chairman ship of the principal and the faculty of the department of on 01.12.2021.

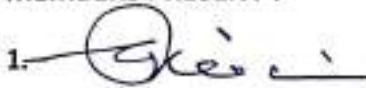
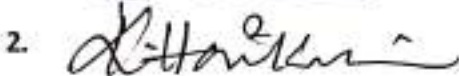
AGENDA :

Starting of certificate course for 3rd B.A., students.

RESOLUTIONS:

- (1) It is resolved to start the certificate course titled "**Department of Political Science**" from 02.12.2021 to 02.01.2022 (30 days) for the academic year 2021-2022.
- (2) It is also resolved to frame the syllabus , regulations for the successful completion of the certificate course . titled " **Introduction to Political Science**".
- (3) Enrolled 18 students in this Certificate course.
- (4) Resolved to conduct classes at 4.00PM.
- (5) Resolved to conduct exam after completion of the course and issue certificates to qualified candidates.
- (6) Qualifying marks in 40 % .

MEMBERS PRESENT :

1. 
2. 



Date:01/12/2021.

To
The Principal,
STSN Government Degree College,
Kadiri,
Dist. Sri Satya sai .

Respected Madam,

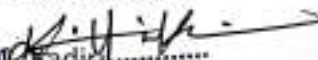
Sub: Request for permission to start a certificate course on An Introduction to
political science. By Department of political science ---Regarding.

With reference to the subject cited above, I wish to submit that Department of
political science, STSN GDC, Kadiri is planning to offer a certificate course on "An Introduction
to political science" from. Duration of this course will be 30 Hrs. Hence, I request your good self
to kindly grant us the permission to start the certificate course.

Thanking you madam.


PRINCIPAL
STSN Govt. DEGREE COLLEGE
KADIRI - 515 591
Sri Sathya Sai (Dist).

Department of Political science


LECTURER IN CHARGE
STSN Govt. DEGREE COLLEGE
KADIRI - 515 591
Sri Sathya Sai (Dist).

STSN GOVT DEGREE COLLEGE, KADIRI

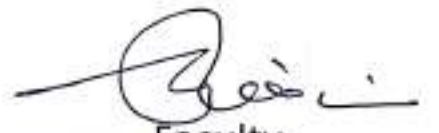
DEPARTMENT OF POLITICAL SCIENCE

CIRCULAR

DATE 01.12.2021.

It is hereby informed to the students of I,II and III Year that a Certificate course will be conducted by department of political science on 01-12-2021 in view of making the learning more Awareness in political science, .Hence I Informed to all the students to enroll your names, and make it success.

Department of Political Science


Faculty
LECTURER IN
STSN Govt.DEGREE COLLEGE
KADIRI - 515 591
Sri Sathya Sai (Dist).



STSN GOVT DEGREE COLLEGE, KADIRI

DEPARTMENT OF POLITICAL SCIENCE

Short term course on Political Science

Objectives of Introduction to Political Science

- Acquire essential knowledge in political science.
- Students can learn Key political science concepts.
- To explore the major tenets of the political system or acquire basic knowledge.
- preceding an election will find this course useful.
- Showcase your proficiency in political science topics to current and future employers.
- Make informed decisions in local, state and national elections.
- Demonstrate to employers your desire to continue your education and explore new topics.
- Enhance your social interactions and conversations with co-workers and peers.
- Choose an appropriate political group for your volunteer activities.
- Meet continuing education requirements.

STSN GOVT DEGREE COLLEGE, KADIRI

DEPARTMENT OF POLITICAL SCIENCE

SYLLABUS FOR CERTIFICATE COURSE

➤ Introduction to Political Science – 3 Hour

➤ Basic Terms and Concepts of Political Science – 3 Hours

Start this course with an overview of key political science concepts, including political power, representation, citizenship, political justice and political socialization.

➤ Civil Liberties- 3 Hour

This chapter explores the origin of civil liberties in the U.S. as well as freedom of speech and religion, the right to privacy and to bear arms and the role of the courts in determining civil liberties.

➤ Civil Rights -3 Hour

You'll learn about the history of civil rights in this chapter and examine civil rights issues for women, Americans with disabilities and minorities.

➤ Political Ideologies and Philosophy- 3 Hour

Discuss different political ideologies in this chapter, including liberalism, conservatism, libertarianism, communism, feminism, fascism and anarchism.

➤ Forms of Government -3 Hours

This chapter outlines the role and functions of the government and democracy and provides an overview of different types of constitutional government.

➤ Electoral Systems -3 Hour

Explore the connection between representation and the electoral system in this chapter and then differentiate between plurality and majority-based elections and direct and indirect elections.

➤ **Types of Legislatures in Government- 3Hours**

In this chapter, learn about the powers and functions of legislatures and see examples of different forms of legislatures.

➤ **Presidential Elections & Powers - 3Hours**

Find out about the presidential nomination and election process and factors that influence voters.

➤ **The Federal Judicial System -3 Hour**

This chapter identifies the structure of the state and federal court system. You'll see the steps involved in judicial decision making and the process for selecting Supreme Court Justices and federal judges.


LECTURER IN
STSN Govt.DEGREE COLLEGE
KADIRI - 515 591
Sri Sathya Sai (Dist).

STSN GOVT DEGREE COLLEGE, KADIRI
Department of Political Science
Certificate Course on Introduction to Political Science

TIME TABLE

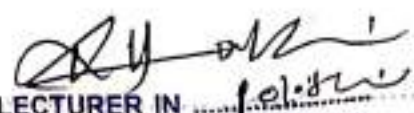
Day	Time
MON	4PM To 5PM
TUE	4PM To 5PM
WED	4PM To 5PM
THU	4PM To 5PM
FRI	4PM To 5PM
SAT	4PM To 5PM


LECTURER IN Pol Science
STSN Govt. DEGREE COLLEGE
KADIRI - 515 501
Sri Sathya Sai (Dist).

STSN GOVT. DEGREE COLLEGE , KADIRI
SUBJECT RELATED CERTIFICATE COURSE- 2021-22

ENROLLED STUDENTS LIST

S.No.	YEAR	HALLTICKET No.	NAME OF THE STUDENT	SIGNATURE
1	BA	2142005036002	A.KEERTHANA	A.Keerthana
2		2142005036003	A.KALYANI	A.Kalyani
3		2142005036004	B.JAYASREE	B. Jayasree
4		2142005036005	B.SUJATHA	B. Sujatha
5		2142005036006	B.VENU	B. Venu
6		2142005036007	B.GURU BASHA	B. Guru Basha
7		2142005036009	B.SOMA SEKHARA	B. Soma Sekhar
8		2142005036010	B.BADRI NAIK	B. Badri Naik
9		2142005036011	C.SESI KUMAR	C. Sesi kumar
10		2142005036012	D.GOVARDHAN	D. Govardhan
11		2142005036013	D.NAGA MUNENDRA	D. Nagamunendra
12		2142005036014	D.SOMA SEKHAR	D. Soma Sekhar
13		2142005036015	G.REDDY KUMAR	G. Reddy Kumar
14		2142005036016	G.MADHU KUMAR	G. Madhukumar
15		2142005036018	G.RAJESH	G. Rajesh
16		2142005036019	J.LAKSHMI PATHI	J. Lakshmi pathi
17		2142005036020	K.SREE HARI	K. Sreehari
18		2142005036021	K.SOWNDARYA	K. Sowjanya


 LECTURER IN
 STSN Govt. DEGREE COLLEGE
 KADIRI - 515 101
 Sri Sathya Sai (Dist).

STSN GDC KADIRI,
DEPARTMENT OF POLITICAL SCIENCE

He He He He He He He He He He He He He He He He

LECTURER IN *POBSCIENCE*
ST. GEORGE'S COLLEGE
St. George's (12/12/15)

STSN GDC KADIRI,

DEPARTMENT OF POLITICAL SCIENCE

List of I BA Political Science Students - Attendance

S.N o	Name of the student	DAY 21.12.2 1	DAY 22.12.2 1	DAY 23.12.2 1	DAY 24.12.2 1	DAY 25.12 .21	DAY 27.12 .21	DAY 28.12.21	DAY 29.12.2 1	DAY 30.12.2 1	DAY 31.12.2 1	DAY 01.12.22
1	A.KEERTHANA	P	P	P	P	g	P	P	P	P	P	g
2	A.KALYANI	P	P	P	P	P	P	P	g	P	P	g
3	B.JAYASREE	P	P	P	P	P	P	P	g	P	P	P
4	B.SUJATHA	P	P	P	P	P	P	P	g	P	P	P
5	B.VENU	g	P	g	g	P	P	P	P	P	P	P
6	B.GURU BASHA	P	P	P	P	P	P	P	P	P	P	P
7	B.SOMA SEKHARA	P	P	P	P	P	P	g	P	P	g	P
8	B.BADRI NAIK	P	g	P	g	P	P	P	P	P	P	P
9	C.SESI KUMAR	P	P	P	g	P	P	P	P	P	P	P
10	D.GOVARDHAN	P	P	P	P	P	P	g	P	P	P	P
11	D.NAGA MUNENDRA	g	P	P	P	P	P	P	P	P	P	P
12	D.SOMA SEKHAR	P	P	P	P	g	P	P	P	P	P	P
13	G.REDDY KUMAR	P	P	g	g	g	P	g	g	g	P	P
14	G.MADHU KUMAR	P	g	P	g	P	P	P	P	P	P	P
15	G.RAJESH	P	P	P	P	P	P	P	P	P	P	P
16	J.LAKSHMI PATHI	P	P	P	P	P	P	P	P	P	P	P
17	K.SREE HARI	g	g	P	P	P	P	P	P	P	P	P
18	K.SOWNDARYA	P	g	g	P	P	g	P	P	g	P	P

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LECTURER IN
STSN Govt DEGREE COLLEGE
KADIRI - 515 f 91
Sri Sathya Sai (Dist).

Model Question Paper

Answer to all questions

20x2=40

1. Who among the following strongly said that "Man is a Political Animal"?
A. Socrates B. Plato C. Aristotle D. None of the Above.
2. Traditional approach give stress on:
A. Values. B. Facts. C. Objectivity. D. Precision.
3. 'Credo of Relevance' Signaled
A. Modernism. B. Behaviouralism. C. Post-Behaviouralism. D. Rationalism.
4. 'The Intellectual God Father' of Behaviouralism is
A. Charles .E.Merriam B. David Easton. C. Laswell. D. None of the above.
5. Hobbes Theory of Social Contract is explained in his book. A. Republic. B. Prince. C. Social Contract. D. Leviathan.
6. 'Two Treatises of Government' Was Written By
A. John Locke. B. J.J Rousseau.
C. Thomas Hobbes. D. Spence
7. Which one of the following is not relevant to Traditional Approach.
A. Philosophical B. Historical. C. Institutional D. Behavioural.
8. Integration of Political Science with other Social Sciences Is a basic principle of
A. Traditionalism. B. Behaviouralism. C. Liberalism. D. Post – Behaviouralism.
9. The success of democracy depends upon
A. Periodic Elections. B. Voting. C. Campaigning in The Elections. D. All of the above
10. Which of the following is a permanent feature of a representative form of government?
A. Voting. B. Decision Making. C. Military Force. D. None of The Above.

11. "A right is a claim recognized by society and enforced by the state" who said this?

A. Laski B. Bosanquet C. Rousseau D. Green

12 Who described democracy as "a form of government in which everyone has a share"?

A. John Seeley B. J.S Mill C. Bryce D. None of The Above

13. Who said "Rights are those conditions of social life without which no man can be his best self"

A. Hobhouse B. Bosanquet C. Laski D. Hege

14. Who wrote the book 'A Grammar of politics'

A. Laski B. Hegal C. J.S Mill D T.H Green

15. The concept of Greek, 'Justice' was

A. Legal B. Moral C. Social D. Political

16. The origin of democracy can be traced back to

A. Ancient Greek City States B. Medieval Period C. Modern Era D. Feudalism

17. Who among the following said "Liberty is the opposite of over government"?

A. Seeley B. Prof. Ramsay Muir C. Laski D. J.S Mill

18. What is meant by Social Justice.

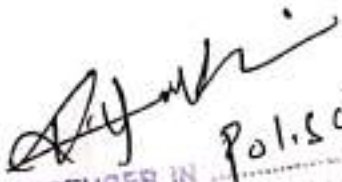
A. All should have same Political Rights. B. All should have same Economic rights. C. All kinds of discrimination and privileges based on caste, colour, creed and sex should be eliminated. D. All should have the right to freedom of religion.

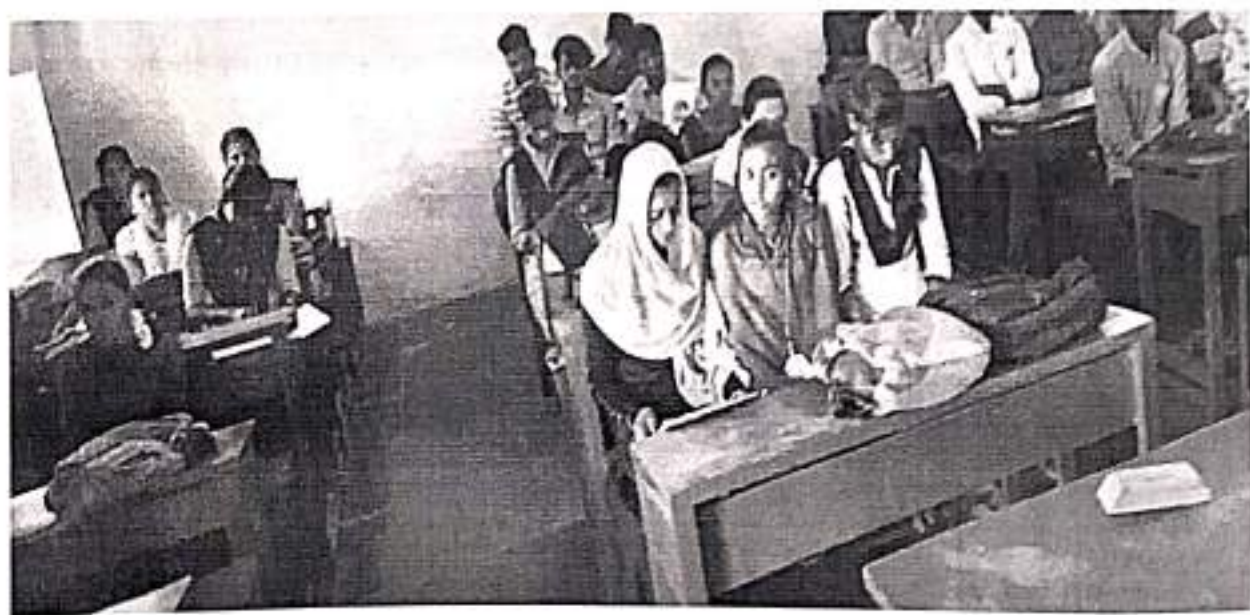
19. A democratic society is one in which

A. Government is popularly elected. B. Liberty is given the highest value. C. The spirit of equality and fraternity prevails. D. All of the above.

20. Who wrote the book 'Politics'

A. Socrates B. Plato C. Aristotle D. Rousseau


LECTURER IN POLITICAL SCIENCE
STSN GOVT DEGREE COLLEGE
KADIRI - 515 691
Sri Sathya Sai (Dist)



STSN GOVT DEGREE COLLEGE, KADIRI

DEPARTMENT OF POLITICAL SCIENCE

CERTIFICATE OF COMPLETION

This is to certify that B. Soma Sekhara

of this college has successfully completed the 30 days short term

Certificate Course on "AN INTRODUCTION TO POLITICAL SCIENCE" from

02/12/21 To 02/01/22 organized by the Department of political science

and secured.....grade

Coordinator *[Signature]*
LECTURER
STSN Govt. COLLEGE
KADIRI
Sri Sathya Sai (Dist).



[Signature]
Principal
STSN Govt. DEGREE COLLEGE
KADIRI - 517 101
Sri Sathya Sai (Dist).

STSN GOVERNMENT DEGREE COLLEGE

CERTIFICATE COURSE ON MUSHROOM CULTIVATION



Dr.A.Narayana swamy
Course Co-ordinator
Lecturer in Botany
Department of Botany
STSN Government Degree College
KADIRI -515591

2021-2022

1. Title of the Course : **MUSHROOM CULTIVATION.**
2. Name of Institution : S.T.S.N Government Degree College, Kadiri
3. Co-ordinator : A.Narayana swamy; Department of Botany.
4. Duration / Hours : Jan 3rd to Feb 28th 2022 (30 Working days) (30 Hours)
5. Eligibility of the Course : Intermediate (Science subjects with Biology)



Minutes of the Meeting

Date: 01.01.2022

Time: 10 AM

Venue: Department of Botany, STSN GDC Kadiri

Attendees:

1. Dr. A. Narayana Swamy, Head of Department (HOD), Botany
2. Kum. V. Rojarani, Guest Faculty, Department of Botany.

Agenda: Planning for the Certificate Course on "Mushroom Cultivation"

1. Purpose of the Meeting:

The main agenda of the meeting was to discuss and plan the upcoming Certificate Course on Mushroom Cultivation.

2. Overview of the Certificate Course:

- Dr. A. Narayana Swamy provided a brief overview of the importance of the certificate course and its relevance to the students and community.

3. Curriculum Design:

- The curriculum for the Mushroom Cultivation course was discussed, considering the basics, cultivation techniques, and hands-on training components.

3. Course Co-ordinator: Dr. A. Narayana Swamy, Head of Department (HOD), Botany.

4. Duration and Schedule:

- The duration of the certificate course was discussed, and a tentative schedule was proposed. Jan 3rd to Feb 28th 2022 (30 Working days) (30 Hours). The team agreed to have a mix of theory and practical sessions.

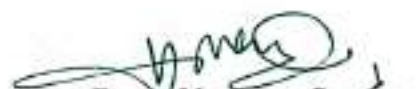
5. Venue and Facilities:

- The availability of classrooms, laboratories, and necessary equipment for practical sessions was confirmed. Any additional requirements were discussed.

Meeting minutes prepared by:


PRINCIPAL
STSN Govt. DEGREE COLLEGE
KADIRI - 515 591
Sri Sathya Sai




Dr. A. Narayana Swamy,
Head of Department (HOD),
Department of Botany.

Permission Letter

01.01.2022,
STSN GDC,
Kadiri.

To
Principal,
STSN GDC,
Kadiri.

Subject: Request for Permission to Conduct a Certificate Course on "Mushroom Cultivation"

Respected Principal

I am happy to request your kind permission to conduct a Certificate Course on "**Mushroom Cultivation**" for the interested students of our college. This course aims to equip students with the necessary knowledge and skills to cultivate mushrooms successfully.

Course Details:

- Course Title: Certificate Course on Mushroom Cultivation
- Duration: 30 Working days (Jan 3rd to Feb 28th, 2022)
- Total Hours: 30 Hours
- Course Coordinator: Dr. A. Narayana Swamy, Head of the Department (HOD), Botany.

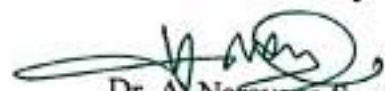
I kindly request your permission to conduct this certificate course under the auspices of STSN GDC, Kadiri. We believe this course will be a valuable addition to our academic offerings and will benefit a significant number of students. We are confident that we can successfully organize and conduct this course and ensure its high quality and relevance.

We would be grateful if you could consider our request and grant us the necessary permission to proceed with the course. We are available to discuss the course details further at your convenience.

Thank you for your time and consideration

Yours Sincerely


PRINCIPAL
STSN Govt DEGREE COLLEGE
KADIRI - 515 591
Sri Sathya Sai (Dist).


Dr. A. Narayana Swamy,
Head of the Department (HOD),
Department of Botany,
STSN GDC, KADIRI.

Circular

01.01.2022
STSN GDC,
Kadiri.

Dear Students,

I am happy announce that a Certificate Course on "**Mushroom Cultivation**" will be conducted at STSN Government Degree College, Kadiri. The course is scheduled to take place from January 3rd to February 28th, 2022, and will span 30 working days, with a total of 30 hours of instruction.

The course will be coordinated by Dr. A. Narayana Swamy, Head of the Department of Botany. Dr. Swamy is an expert in the field of botany and has extensive experience in mushroom cultivation. The course will cover the following topics:

- Introduction to mushroom cultivation
- Types of mushrooms and their cultivation
- Composting and substrate preparation
- Mushroom harvesting and post-harvest handling
- Marketing and economics of mushroom cultivation

The course will be held every day from 4-5 PM for one hour. We encourage all students who are interested in learning about mushroom cultivation to attend this course. It will be a great opportunity to gain valuable knowledge and skills that will serve you well in your future careers.

Thank you for your attention.

TH BZC
(Signature)

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Dise
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↓

Sincerely,

(Signature)
Dr. A. Narayana Swamy,
Head of the Department (HOD),
Department of Botany,
STSN GDC, KADIRI.

STSN GOVERNMENT DEGREE COLLEGE; KADIRI
CERTIFICATE COURSES IN BOTANY (2021-2022)
(Mushroom cultivation - Theory Syllabus)

SYLLABUS OF THE COURSE

UNIT I

History and introduction: Edible mushrooms and Poisonous mushrooms.

Systematic position, morphology, distribution, structure and life cycle of *Agaricus* and *Pleurotus*.

6 H

UNIT II

Nutritional value, medicinal value and advantages – types - milky, straw, button mushrooms,

Equipment for mushroom cultivation

5 H

UNIT III

Cultivation Technology: button mushrooms mushroom – substrate, spawn making. Methods – bed method.

6 H

UNIT IV

Oyster mushroom cultivation –Substrate, spawning, pre-treatment of substrate.

Maintenance of mushroom Cultivation of milky mushroom – Spawn, composting, spawning, harvesting

5 H

UNIT V

Diseases - Common pests, disease prevention and control measures.

Processing - Blanching, steeping, sun drying, canning, pickling, freeze drying.

Storage – short term and long-term storage.

8 H

Field Study: Visiting the mushroom cultivating Laboratory or Farm

REFERENCES:

1. Pandey B P 1996. A textbook of fungi. Chand and company, New Delhi.
2. Kaul T N 2001. Biology and conservation of mushrooms. Oxford and IBH publishing company N.Delhi
3. Gupta P.K. Elements of Biotechnology. Teaching and Practical session will be 90 working periods
4. Harander Singh. 1991. Mushrooms- The Art of Cultivation- Sterling Publishers.
5. Indian Journal of Mushrooms. Published by I.M.G.A. Mushroom Research Laboratory. College Agriculture, Solan

STSN GOVERNMENT DEGREE COLLEGE; KADIRI
CERTIFICATE COURSES IN BOTANY (2021-2022)
(Mushroom cultivation - Theory Syllabus)

Certificate Course in Mushroom Cultivation

Course Objectives:

- 1.Understanding Mushroom Diversity:** To provide students with a comprehensive understanding of edible and poisonous mushrooms, exploring their systematic position, morphology, distribution, structure, and life cycle, with a focus on *Agaricus* and *Pleurotus*.
- 2.Nutritional and Medicinal Value:** To elucidate the nutritional and medicinal value of mushrooms, emphasizing the types such as milky, straw, and button mushrooms.
- 3.Cultivation Technology for Button Mushrooms:** To equip students with practical knowledge of button mushroom cultivation, covering aspects like substrate preparation, and cultivation methods, specifically the bed method.
- 4.Oyster Mushroom Cultivation:** To provide insights into the cultivation of oyster mushrooms.
- 5.Disease Prevention and Control:** To educate students on common pests and diseases affecting mushroom cultivation, and to impart knowledge on preventive measures and control strategies, and healthy mushroom farming practices.
- 6.Post-Harvest Processing and Storage:** To familiarize students with post-harvest processing techniques.
- 8.Field Study:** To provide practical exposure to students through a field study, allowing them to visit a mushroom cultivating farm. This hands-on experience aims to reinforce theoretical knowledge and enhance practical skills.

Course Outcomes:

Upon completion of the course, students should be able to:

- Identify and differentiate between edible and poisonous mushrooms.
- Evaluate the nutritional and medicinal value of various mushroom types.
- Demonstrate proficiency in button mushroom cultivation techniques, including substrate preparation and spawn making.
- Apply knowledge to successfully cultivate oyster and white button mushrooms.
- Identify, prevent, and control common pests and diseases affecting mushroom cultivation.
- Execute post-harvest processing techniques for mushrooms.
- Gain practical experience through a field study, integrating theoretical knowledge into real-world applications.

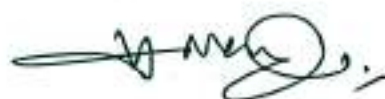
The course aims to empower individuals with the knowledge and skills necessary for successful mushroom cultivation, fostering an understanding of the entire cultivation process, from growth to post-harvest processing.

S.T.S.N GOVERNMENT COLLEGE KADIRI
CERTIFICATE COURSES IN BOTANY
(Mushroom cultivation)

Time Table (Action Plan) – Day wise Topics

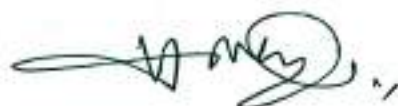
Course Dates: Jan 3rd to Feb 28th 2022 (30 Working days) (30 Hours). Every day 4-5 PM

S.No.	Date	Topic
1	03.01.2022	History and introduction: Mushroom cultivation
2	04.01.2022	Edible mushrooms
3	05.01.2022	Poisonous mushrooms.
4	07.01.2022	Systematic position, morphology, distribution, structure of <i>Agaricus</i>
5	17.01.2022	Life cycle of <i>Agaricus</i>
6	18.01.2022	<i>Agaricus</i> gill structure
7	19.01.2022	Systematic position, morphology, distribution, structure of <i>Pleurotus</i>
8	22.01.2022	Nutritional value, medicinal value and advantages of mushrooms
9	24.01.2022	Types of mushrooms – milky mushrooms
10	25.01.2022	Types of mushrooms - straw, button mushrooms
11	28.01.2022	Morels mushrooms
12	29.01.2022	Equipment for mushroom cultivation
13	01.02.2022	Compost preparation
14	02.02.2022	Cultivation Technology: Button mushrooms – Spawn Preparation
15	04.02.2022	Button mushrooms – substrate preparation - requirements
16	07.02.2022	Button mushrooms cultivation methods
17	08.02.2022	Oyster mushroom cultivation –Substrate, spawning,
18	09.02.2022	Oyster mushroom cultivation pre-treatment of substrate.
19	11.02.2022	Maintenance of mushroom Cultivation of milky mushroom – Spawn, composting, spawning, harvesting
20	14.02.2022	Students activity related to Mushroom cultivation
21	15.02.2022	Mushroom – Diseases - Common pests,
22	16.02.2022	Mushroom disease prevention and control measures.
23	18.02.2022	Processing - Blanching, steeping, sun drying,
24	19.02.2022	Canning, pickling, freeze drying.
25	21.02.2022	Storage – short term and long-term storage.
26	22.02.2022	Practicals - Compost preparation
27	23.02.2022	Practicals – <i>Agaricus</i> , <i>Pleurotus</i> specimens study
28	25.02.2022	Practicals - Paddy straw bed preparation
29	26.02.2022	Practicals - Mushroom cultivation-1
30	27.02.2022	Practicals - Mushroom cultivation-2
31	28.02.2022	Assignment - Feedback collection



Participants (List of the students)

S.No	Student Name	Signature of the student
1	A PRIYANKA	A. Priyanka
2	S APSANA	S. APSANA
3	A MADHU	A. MADHU
4	B JAGADEESH	B. Jagadeesh
5	B SHIREESHA	B. Shireesha
6	B HARITHA BAI	B. Haritha Bai
7	B JYOTHI	B. Jyothi
8	B SAI KRISHNA	B. Sai Krishna
9	B THRIVENI	B. Thriveni
10	B RAVI KUMAR	B. Ravi Kumar
11	B.RAVI TEJA NAIK	B. Ravi teja Naik
12	B GANESH	B. Ganesh
13	C LAVANYA	C. Lavanya
14	C REDDY SEENU	C. Reddy Seenu
15	D SAI VARDHINI YADAV	D. Saivardhini yadav
16	J ANITHA	J. ANITHA
17	J ASWANI	J. Aswani
18	K ADI KESAVULU	K. Adi kesavulu
19	K PRAVEEN KUMAR	K. praveen kumar
20	M ANITHA	M. Anitha
21	N CHANDHRA KALA	N. Chandrakala
22	OGETI VINOD	O. Vinod
23	P RUHINAJ	P. Ruhinaj
24	P HARSHIYA	P. Harshiya
25	S NASEEMA	S. Naseema
26	S RUBIYA	S. Rubiya
27	S AYESHA	S. Ayesha
28	T GOWTHAMI	T. Gowthami
29	VANKADOTH MAHESH NAIK	V. Mahesh Naik.
30	Y AMRUTHA	Y. Amrutha



REGISTER OF ATTENDANCE

Name of the Institute S.T.S.N. Govt Degree College, Kadur.

[illegible]

NO. ON ROLL AT THE BEGINNING OF THE MONTH	No. of Boys Present	A.M.
ADMITTED DURING THE MONTH	No. of Girls Present	A.M.
	Teacher's Initial	
LEFT NO. ON ROLL AT THE END OF THE YEAR	No. of Boys Present	P.M.
ADMITTED DURING THE MONTH	No. of Girls Present	P.M.

Mushroom Cultivation 03.01.2022 to 28.02.2022

FOR THE MONTH OF 20

Class BCC (B2C) Section I 10 days

2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Present Days	Date of Birth	Remarks
P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	31/3/21	100%	
P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	31/3/21	100%	
P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	31/3/21	100%	
P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	29/3/21	93%	
P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	29/3/21	93%	
P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	28/3/21	90%	
P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	29/3/21	93%	
P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	3/3/21	100%	
P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	3/3/21	100%	
P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	31/3/21	100%	
P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	3/3/21	100%	
P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	31/3/21	100%	
P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	31/3/21	100%	
P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	31/3/21	100%	
P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	31/3/21	100%	
P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	26/3/21	83%	
P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	3/3/21	100%	
P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	3/3/21	100%	
P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	3/3/21	100%	
P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	26/3/21	83%	
P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	31/3/21	100%	
P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	31/3/21	100%	
P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	3/3/21	100%	
P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	3/3/21	100%	
P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	29/3/21	93%	
P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	31/3/21	100%	

 Dr. A. Narayana Swamy Lecturer in Botany STSN Govt. Degree College KADUR-515 521, B.M. Swamy Salu Rd		No. of Working Days Average attendance During the month
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STSN GOVERNMENT COLLEGE KADIRI
Model Question paper of theory
(Certificate Course: *Mushroom cultivation*)

Time: 1 H

EXTERNAL EXAM

Max. Marks:40

Assessment:

Theory	40 Marks (20 MCQS)
Practicals (Hands on Training)	10 Marks
Total Marks	50 Marks

STSN GOVERNMENT COLLEGE KADIRI
Model Question paper of theory
(Certificate Course: *Mushroom cultivation*)

Time: 1 H

Each question carries 2 Marks : 40 Marks

పుట్టగొడుగుల పెంపకం ఆన్‌లైన్ సర్టిఫికేట్ కోర్సు - 2021-22

1. మన దేశంలో పెంచే పుట్టగొడుగులలో మొదటి స్థానం గుండి ఆయిస్టర్ వరిగడ్డి పాల
2. పుట్టగొడుగుల ఉత్పాదకతను ప్రభావితం చేసేది ఉష్ణోగ్రత సాపేక్ష ఆద్రత బొగ్గుపులుసు వాయువు (CO₂) మూడూ
3. పుట్టగొడుగు ఫార్మ్ లో ముఖ్యమైన భాగాలు స్పాన్ యూనిట్ కంపోస్టు యూనిట్ పంట యూనిట్ మూడూ
4. స్వచ్ఛమైన పుట్టగొడుగుల విత్తనాన్ని కంపోస్టుతో కలపడాన్ని ---- అంటారు స్పానింగ్ కేసింగ్ స్టీమింగ్ రపలింగ్
5. విషపూరితమైన ముత్యపుచిప్ప పుట్టగొడుగు ప్రజాతి రకం అగారికస్ ఫ్లిరోటస్ అమానిటా వాల్వేరియెల్లా
6. వాల్ వేరియల్ల జాతి పుట్టగొడుగుల జాతి ---- గుండి ఆయిస్టర్ పాల వరిగడ్డి
7. కంపోస్టులో ఉండే హానికరమైన సూక్ష్మజీవులను నాశనం చేయటం మాయిక్సరైజేషన్ పాక్యరైజేషన్ సోలరైజేషన్ ఏదీకాదు
8. కేసింగ్ పదార్థాల నాణ్యతను పెంచేది తక్కువ బరువు మృదువైన అక్కతి అధిక నీరు ఇముడ్చుకొనే సామర్థ్యం అన్నీ
9. పుట్టగొడుగులలో కోత అనంతరం నిర్వహణ పద్ధతులు కడగటం ప్యాకింగ్ క్యానింగ్ మూడూ

10. పుట్టగొడుగు జాతికి చెందినది -----

ట్యాక్టీరియా వైరస్ ఫంగస్ ఏదీకాదు

11. పంటగదుల్ని కుభం చేయడానికి వాడే రసాయనం

పెపిండి పార్మలైన్ ఆగార్ పై ఎవీ కావు

12. కంపోస్టు తయారీలో గడ్డి అన్నింట కన్నా అనుకూలమైనది -----

రాగి గడ్డి జొన్నగడ్డి గోధుమ గడ్డి వరిగడ్డి

13. వాణిజ్య స్పాన్ తయారీకి వాడే ధాన్యాలు

గోధుమ వరి జొన్న పై వన్నీ

14. శీలీంధ్రజాలం పెరిగిన కంపోస్టుపై 3-4 సెంమీల మందు కల్గిన మట్టి పొరను ఏమంటారు.

రఫ్టింగ్ కపింగ్ స్పానింగ్ పాక్చరైజేషన్

15. పాల పుట్టగొడుగుల కాస్త్రీయ నామం

కాల్ సైటా ఇండికా అగారికస్ ట్రిస్పోరస్ వాల్వారియోల్లా వాల్వేసియా పైపేవికాదు

16. పుట్టగొడుగుల పెంపకంలో అవసరమైన విత్తనాన్ని ఏమంటారు

కంపోస్టు సబ్ స్ట్రేట్ స్పాన్ పైపేవి కావు

17. పుట్టగొడుగుల పెంపకం వల్ల లాభాలు

తక్కువ కాలవ్యవధిలో పెంచవచ్చు వ్యవసాయ వ్యర్థపదార్థాల పై పెంచవచ్చు

పుట్టగొడుగుల వ్యర్థాన్ని ఎరువుగా వాడవచ్చు పై వన్నీ

18. పుట్టగొడుగులలోని భాగాలు

టోపి / cap కాడ / stipe మొప్పులు / Gills పై వన్నీ

19. గుండీ పుట్టగొడుగు కాస్త్రీయ నామం

కాల్ సైటా ఇండికా అగారికస్ ట్రిస్పోరస్ వాల్వారియోల్లా వాల్వేసియా

20. పుట్టగొడుగులలో అధికంగా ఉండే పోషకాలు

ప్రోటీన్లు విటమిన్లు వరస్ క్యార్బియం



Feedback form:

FEEDBACK FROM THE PARTICIPANTS

Name of the activity:

Date:

Name of the participant:

Class:

Phone No.

1. How would you rate the quality of the presentations and demonstrations during the event?

- ☐ Excellent
- ☐ Very Good
- ☐ Good
- ☐ Satisfactory

2. What was your level of satisfaction about the activity?

- ☐ Excellent
- ☐ Very Good
- ☐ Good
- ☐ Satisfactory

3. Please rate your overall knowledge level about the topics covered before attending the session.

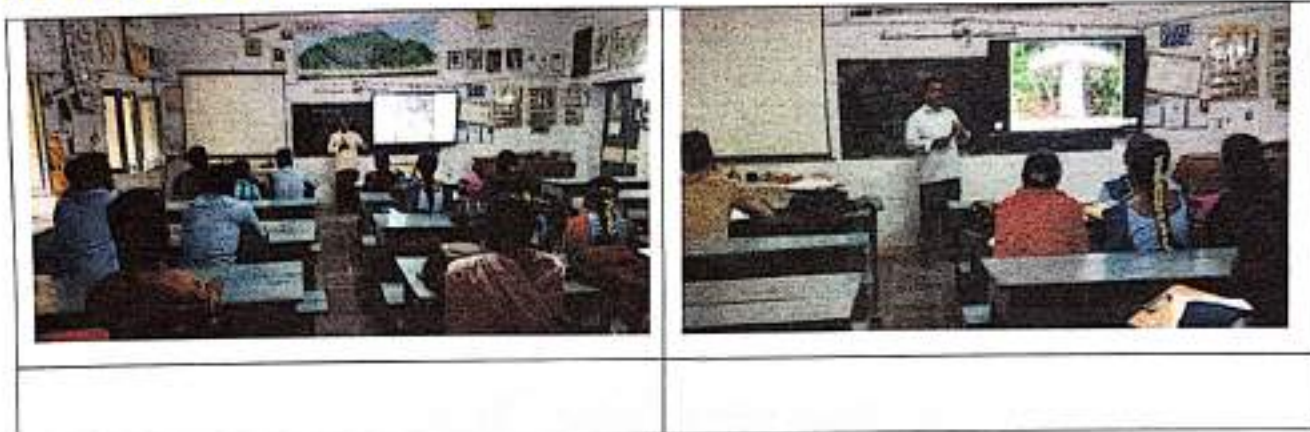
- ☐ Excellent
- ☐ Good
- ☐ Fair
- ☐ Poor

4. Please rate your overall knowledge level about the topics covered after attending the session.

- ☐ Excellent
- ☐ Good
- ☐ Fair
- ☐ Poor

5. Please write your suggestions / observations for improvement of the programme

Photographs:



Model Certificate:

	S.T.S.N. Govt. Degree College KADIRI - 515591 Sri Sathya Sai Dist., A.P. Affiliated to Sri Krishnadevaraya University (SKU), Ananthapuramu	
<u>Certificate</u>		
This is to certify that, Mr./Miss. _____ has participated and successfully completed a Certificate Course on "Mushroom cultivation" organized by the Department of Botany, S.T.S.N Govt. Degree College, Kadiri., Ananthapuramu Dist., A.P.		
Course conducted from Jan 3rd to Feb 28th 2022 (30 Hours).		
Co-ordinator Head, Department of Botany	Principal	

S.T..S. N GOVT. DEGREE COLLEGE, KADIRI

DEPARTMENT OF COMMERCE

Minutes of the Department meeting for the conduct of the Certificate Course for the AY 2021-22

The Department of Commerce, the pioneer in catering to the needs of the students, has decided to be the pathfinder for the outgoing students of our college. In the job market, especially Certificate Course in **Cyber Security and Ethical Hacking** is generally covers the combined study of the concepts of IT, and Computer. The course imparts sound knowledge in the fields of IT, Commerce, Management, Finance, Economics, etc. During the course, candidates are introduced to various aspects of Computers applied in the business. So, the E-Commerce course is very essential for the outgoing students. Department of Commerce has taken these initiatives.

The Department of Commerce conducted a meeting on 02-04-2022. The faculty members of commerce designed the certificate program structure for 30 days. All the faculty members are accepted to run the certificate program in **Cyber Security and Ethical Hacking**.

Board of Studies Department of Commerce:

- Dr.S.Smitha-Principal : Chairman
- Dr. P .M. Siva Prakash : Member
- N. Pushpa Latha : Member
- S. Shabbir : Member
- K. Ashok : Member
- M. Ravi Naik : Member

Permission Letter for Certificate Course

To
The Principal
S.T.S.N Government Degree College
KADIRI

Date: 03-04-2022

Sir,

Sub: - S.T.S.N Government Degree College, Kadiri seeking permission to -Certificate Course

Certificate Course in Cyber Security and Ethical Hacking in Computers-30 day's duration-no fee-accord -permission -request -Reg

We submit that permission may kindly be accorded for the above-mentioned courses vide subject.

The duration of the course will be 30 days and the majority of stakeholders are marginalized sections, hence we request that the fee will be exempted for the students who pursue this course.

Kindly accord permission

With regards



[Signature]
PRINCIPAL
S.T.S.N GOVT. DEGREE COLLEGE
KADIRI-515 591

[Signature]
PRINCIPAL
S.T.S.N GOVT. DEGREE COLLEGE
KADIRI - 515 591
Sri Sathya Sai (Dist).

Yours Faithfully

(N. Pushpa Latha)

[Signature]

S.T.S.N GOVERNMENT DEGREE COLLEGE:: KADIRI

DEPARTMENT OF COMPUTERS SCIENCE

CIRCULAR

Date: 03-04-2022

Dear students,

This is to inform you that, the Department of Commerce is going to conduct a certificate course in Cyber Security and Ethical Hacking; the duration of the course is 30 days. So, we are informing the IIIrd year B.com; (C.A) students. Those who are interested can enroll their names with N. Pushpa Latha, Lecturer in Commerce on or before 07.04.2022. The classes will commence from 16.04.2022.

In-charge

Principal



Copy to Library Notice Board.

Copy to the Notice Board.

Circulate to Computer Science Students.

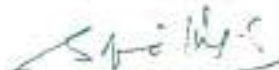
RESOLUTION

It is resolved that the department of Commerce unanimously decided, to conduct a 30 days certificate course on Cyber Security for the First year B.Com, Computer Applications students of this college. The course schedule will be from 16-03-2022 to 16-04-2022. After successful completion of course an online quiz, PPT Presentation, Group Discussion should be conducted for both theory and practical and distribution of certificates to the students. The course syllabus is attached to this copy.



Faculty

Department of Commerce


PRINCIPAL
BTSH Govt. DEGREE COLLEGE
KADIRI - 515 591
Sri Sathya Sai (Dist).

Course objectives:

The course is designed in a way that a candidate can identify, analyze and remediate computer security breaches by learning and implementing the real-world scenarios in Cyber Investigations Laboratory, Network Security Laboratory and in Security and Penetration Testing Laboratory.

- Exhibit knowledge to secure corrupted systems, protect personal data, and secure computer networks in an Organization.
- Practice with an expertise in academics to design and implement security solutions.
- Understand key terms and concepts in Cryptography, Governance and Compliance
- Develop cyber security strategies and policies
- Understand principles of web security and to guarantee a secure network by monitoring and analyzing the nature of attacks through cyber/computer forensics software/tools.

Course outcomes:

Upon successful completion of the programme, candidates will be familiar with cyber security landscapes and able to

- Analyze and evaluate the cyber security needs of an organization.
- Determine and analyze software vulnerabilities and security solutions to reduce the risk of exploitation.
- Measure the performance and troubleshoot cyber security systems.
- Implement cyber security solutions and use of cyber security, information assurance, and cyber/computer forensics software/tools.
- Comprehend and execute risk management processes, risk treatment methods, and key risk and performance indicators
- Design and develop security architecture for an organization.
- Design operational and strategic cyber security strategies and policies

SYLLABUS

UNIT I INTRODUCTION

Introduction to Cyber Security - Importance and challenges in Cyber Security - Cyberspace - Cyber threats - Cyber warfare - CIA Triad - Cyber Terrorism - Cyber Security of Critical Infrastructure - Cyber security -Organizational Implications.

UNIT II HACKERS AND CYBER CRIMES

Types of Hackers - Hackers and Crackers - Cyber-Attacks and Vulnerabilities - Malware threats - Sniffing - Gaining Access - Escalating Privileges - Executing Applications - Hiding Files - Covering Tracks - Worms - Trojans - Viruses - Backdoors

UNIT III ETHICAL HACKINGAND SOCIAL ENGINEERING

Ethical Hacking Concepts and Scopes - Threats and Attack Vectors - Information Assurance - Threat Modeling - Enterprise Information Security Architecture - Vulnerability Assessment and Penetration Testing - Types of Social Engineering - Insider Attack - Preventing Insider Threats - Social Engineering Targets and Defence Strategies.

UNIT IV CYBER ETHICS AND LAWS

Introduction to Cyber Laws - E-Commerce and E-Governance - Certifying Authority and Controller - Offences under IT Act- Computer Offences and its penalty under IT Act 2000 - Intellectual Property Rights in Cyberspace.

Certificate course – Time table

S.No	Date	Topic covered
1.	16-03-2022	Introduction about certificate course In Cyber Security
2.	18-03-2022	Introduction of Cyber Security
3.	19-03-2022	Importance and challenges in Cyber Security
4.	21-03-2022	Cyberspace - Cyber threats
5.	22-03-2022	Cyber warfare - CIA Triad
6.	23-03-2022	Cyber Terrorism - Cyber Security of Critical Infrastructure
7.	24-03-2022	Cyber security -Organizational Implications.
8.	25-03-2022	Malware threats - Sniffing
9.	26-03-2022	Gaining Access - Escalating Privileges - Executing Applications
10.	28-03-2022	Hiding Files - Covering Tracks - Worms
11.	29-03-2022	Trojans - Viruses - Backdoors
12.	30-03-2022	Ethical Hacking Concepts and Scopes - Threats and Attack Vectors
13.	31-03-2022	Enterprise Information Security Architecture
14.	01-04-2022	Vulnerability Assessment and Penetration Testing - Types of Social Engineering
15.	04-04-2022	Insider Attack - Preventing Insider Threats
16.	05-04-2022	Social Engineering Targets and Defense Strategies.
17.	06-04-2022	Introduction to Cyber Laws
18.	07-04-2022	E-Commerce and E-Governance
19.	08-04-2022	Certifying Authority and Controller
20.	09-04-2022	Offences under IT Act
21.	11-04-2022	Computer Offences and its penalty under IT Act 2000
22.	12-04-2022	Intellectual Property Rights in Cyberspace
23.	13-04-2022	Applications with PPT Presentation
24.	14-04-2022	Applications with PPT Presentation
25.	16-04-2022	Group Discussion on Cyber Security

DEPARTMENT OF COMMERCE

Students Registered

S.NO	ROLL NUMBER	NAME OF THE STUDENT	GROUP	SEMESTER
1	200055081	D CHARAN KUMAR	B.COM-C.A	VI
2	200055082	B REDDAPPA	B.COM-C.A	VI
3	200055086	P YUNUS KHAN	B.COM-C.A	VI
4	200055087	S KHALEEL	B.COM-C.A	VI
5	200055091	B SONY	B.COM-C.A	VI
6	200055093	B KAVITHA	B.COM-C.A	VI
7	200055101	G SUKANYA	B.COM-C.A	VI
8	200055102	J BALAJI KUMAR	B.COM-C.A	VI
9	200055104	J SRAVANI	B.COM-C.A	VI
10	200055106	J CHENNA KRISHNA	B.COM-C.A	VI
11	200055107	K BAYYAPPA	B.COM-C.A	VI
12	200055109	K MAHENDRA REDDY	B.COM-C.A	VI
13	200055110	K PRASANTHI	B.COM-C.A	VI
14	200055114	K RAMANJANEYULU	B.COM-C.A	VI
15	200055115	K KANCHANA	B.COM-C.A	VI
16	200055119	M SHALINI	B.COM-C.A	VI
17	200055122	M SREENATH	B.COM-C.A	VI

18	200055131	P SHANTHI	B.COM-C.A	VI
19	200055132	P MANJUNATH	B.COM-C.A	VI
20	200055135	P GOWTHAMI	B.COM-C.A	VI
21	200055136	P TEJA	B.COM-C.A	VI
22	200055137	P HARISH	B.COM-C.A	VI
23	200055138	S SAI KRISHNA	B.COM-C.A	VI
24	200055139	S SRAVANI	B.COM-C.A	VI
25	200055144	S VIJAY KUMAR	B.COM-C.A	VI
26	200055145	S SAI KUMAR	B.COM-C.A	VI
27	200055146	S ANUSHA	B.COM-C.A	VI
28	200055153	T PRASANTH	B.COM-C.A	VI
29	200055159	C MISBAH SULTHANA	B.COM-C.A	VI
30	200055160	S IMAM KHASIM	B.COM-C.A	VI

Attendance Sheet:-

S.NO	ROLL NUMBER	NAME OF THE STUDENT	16/3	18/3	19/3	20/3	21/3	22/3	23/3	24/3	25/3	26/3	28/3	29/3	30/3
1	200051081	DAVANAM CHIRAN KUMAR	/	/	/	a	/	/	/	/	/	/	/	/	/
2	200051082	BODIPONDULA REDDAPPA	a	/	a	/	/	/	a	/	/	a	/	/	/
3	200051086	PATAN VINUS KHAN	/	/	/	/	/	/	/	/	/	/	/	/	/
4	200051087	SHAKH KHALEEL	/	a	/	a	/	/	/	/	/	/	a	/	/
5	200051091	BITRA SONU	/	/	/	/	/	/	/	a	/	/	/	/	a
6	200051093	ABDOU KAVITHA	/	/	/	/	/	/	/	/	/	/	/	/	/
7	200051101	GUREM SUKANTHA	/	/	/	a	/	/	/	/	/	/	a	/	/
8	200051102	JARIPATI BALAJI KUMAR	a	/	/	/	/	/	a	/	/	/	/	/	/
9	200051104	JARIPATI SRIVANI	/	/	a	/	/	/	/	/	a	/	/	/	/
10	200051106	JETTICHENNA KRISHNA	/	/	/	a	/	/	/	/	/	/	/	/	/
11	200051107	KARAYALA BHAPPA	/	/	/	a	/	/	/	/	/	/	/	a	/
12	200051109	KATKAM MAHENDRA REDDY	/	/	/	/	/	/	a	/	/	/	/	/	/
13	200051110	KONDEDOY PRASANTHI	/	/	a	/	/	/	/	/	/	a	/	/	/
14	200051114	KRISHNAPURBA RAMAKRISHNUTULU	/	/	/	/	/	/	a	/	/	/	/	/	/
15	200051115	KONDALA KANCHANA	/	/	/	/	/	/	/	/	a	/	/	/	a
16	200051119	MANCHALLA BHARINI	a	/	/	/	/	/	a	/	/	/	/	/	/
17	200051122	MOPURI SREENATH	/	a	/	/	/	/	/	a	/	/	/	/	/
18	200051111	PELLE SHANTHI	/	/	/	/	/	/	/	/	/	/	/	/	/
19	200051112	POOLA KUNTA MANJUNATH	/	/	/	a	/	/	/	a	/	/	/	/	/
20	200051115	PULIDELA GOVTHARI	/	a	/	/	/	/	/	/	a	/	/	/	/
21	200051116	PUTLA TEJA	/	/	a	/	/	/	/	/	/	a	/	/	/
22	200051117	PUTTALA HARISH	/	/	/	/	/	/	/	a	/	/	/	/	/
23	200051118	SADONALA SAI KRISHNA	/	a	/	/	/	/	/	/	/	/	/	/	/
24	200051129	SAMPANGI SRIVANI	/	/	/	/	/	/	a	/	/	/	/	/	a
25	200051144	SINGAMALA VIJAY KUMAR	a	/	/	/	/	/	/	/	/	/	/	/	/
26	200051145	SORIVU SAI KUMAR	/	/	a	/	/	/	a	/	/	a	/	/	a
27	200051146	SUNANDA ANUSHA	/	/	/	/	/	/	/	/	/	/	/	/	/
28	200051155	THALANI PRASANTHI	/	a	/	/	/	/	a	/	/	/	/	/	/
29	200051159	CHITTEL MIBBAH SUTANA	/	/	/	/	/	/	/	/	/	/	a	/	/
30	200051160	SHAIK SHAMSHAM	/	/	/	/	/	/	/	/	/	/	/	/	/

16-03-2022 To 16-04-2022

ATTENDANCE SHEET

S.T.S.N GOVERNMENT DEGREE COLLEGE, KADIRI
DEPARTMENT OF COMMERCE

S.T.S.N Govt. Degree College, Kadiri

Department of Commerce

Examination on Certificate course

Time: 1Hour

Max.Marks: 20

I. Answer the following questions

5X3=15

1. What are common Cyber Attacks?
2. What is Fire Wall?
3. What is VPN?
4. Define DNS?
5. What are different sources of Malware?

II. Fill up the blanks

5X1=5

1. _____ is used in the Process of Wi-Fi Hacking
2. _____ is a type of Anti- Virus Program
3. _____ Software is designed to detect Viruses and avoid them
4. _____ is Considered as the unsolicited commercial email
5. _____ is Considered as the Class of Computer Threats

Feed back

1. The course content was highly relevant to current situation. like how to protect computer operating system, networks and data from cyber attacks.
2. The practice is used by companies to protect against phishing, schemes, ransomware attacks, identity theft, data breaches & financial losses.
3. The three goals of cyber security are Confidentiality, Integrity & Availability
4. The course material are well-organized & presented in an engaging manner.
5. While the instructor was knowledgeable, a bit more interaction during lectures would have enhanced the learning experience.
6. More opportunities for questions & discussion could have helped clarify certain concepts.

This course was valuable addition to our under graduate curriculum.

Photos Of Course Conducted:





S.T.S.N GOVERNMENT DEGREE COLLEGE
KADIRI, SRI SATHYA SAI DIST. AP



NAAC Accredited with 'B' Grade

DEPARTMENT OF COMMERCE

Certificate of Participation

This is to certify that Sri/Mr./Miss _____ of
I B COM CA has successfully completed Certificate Course with 30 hours in CYBER
SECURITY AND ETHICAL HACKING Conducted by the Department/ Wing of
COMMERCE S.T.S.N Govt. Degree College, Kadiri During the Academic Year: 2021-22.

Course coordinator

Head of the Department

Principal





STSN GOVERNMENT DEGREE COLLEGE

KADIRI-515591, SRI SATHYA SAI DISTRICT. (A.P)

NAAC Accredited with 'B' Grade

PRAPOSAL FOR

CERTIFICATE COURSE IN PARASITOLOGY

DEPARTMENT OF PARAMEDICAL TECHNOLOGY

2021-2022

CERTIFICATE COURSE IN PARASITOLOGY

Department of Paramedical Technology

STSN Govt Degree College Kadiri 515591 Sri Satya Sai (Dist.)

2021-2022

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RESOLUTION

It is resolved that the Department of Paramedical Technology unanimously decided, to conduct a 30 days certificate course in "Parasitology" for the first and second year B.sc ZCPMT students of this college. The course schedule will be from 16-03-2022 to 22-04-2022. After successful completion of course an online quiz should be conducted in clinical microbiology for both theory and practical and distribution of certificates to the students. The course syllabus is attached to this copy.

Faculty of

Paramedical Technology

C. Nandu

LECTURER IN *Paramedical Technology*
STSN Govt DEGREE COLLEGE
KADIRI - 515 591
Sri Sathya Sai (Dist).

Permission letter to conduct Certificate Course – 2021-22

From
C. Naresh
Department of Paramedical
Technology
S.T.S.N GDC,
Kadiri,

To
The Principal,
S.T.S.N GDC,
Kadiri,

Respected Principal,

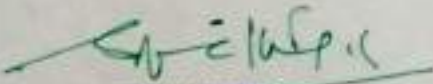
Subject: Permission to conduct **Certificate Course** on **PARASITOLOGY** in the academic year- 2021-22

The Department of Paramedical Technology at S.T.S.N. Government Degree College, Kadiri, kindly requests your permission to conduct a Certificate Course in Parasitology in the academic year 2021-22.

The proposed schedule for the Certificate Course is 16.3.2022 to 22.4.2022, and we plan to hold the sessions within the college premises. We seek your approval to utilize the college facilities for this purpose, and we assure you that we will adhere to all college regulations and guidelines.

Thank you for considering our request.

Permitted


PRINCIPAL
STSN GOVT DEGREE COLLEGE
KADIRI - 515 591
SRI SATHYA SAI(Dist)

Yours faithfully,

C. Naresh
LECTURER IN Paramedical
STSN GOVT DEGREE COLLEGE
KADIRI - 515 591
Sri Sathya Sai (Dist)

CERTIFICATE COURSE IN PARASITOLOGY
DEPARTMENT OF PARAMEDICAL TECHNOLOGY
STSN GOVT DEGREE COLLEGE KADIRI
SRI SATHYA SAI DISTRICT, AP.

Notification for Admission

10/3/2022

Applications are invited from the eligible candidates for admission into the Certificate Course in Parasitology for the year 2021-2022

Eligibility: Intermediate/Graduate in any discipline.

Duration of Course: 30 Hours

Admission Process: The prescribed application form for the Admission is available in the Department. The filled in applications shall be submitted to the Course Coordinator, Certificate course in Parasitology, Department of Paramedical technology, STSN Govt. Degree College, Kadiri Sri Sathya Sai (Dist). Defective applications and applications received after the prescribed date will summarily be rejected and fee once paid will not be refunded or adjusted for any other purpose.

The admission schedule:

Last date of receipt of application: 15-11-2022

Class Details: Classes of the course shall be conducted on working days between 16-3-2022 and 22-4-2022, daily one hour from 4.00 pm to 5.00 pm.

C. Naresh
LECTURER IN Paramedical Technology
STSN GOVT DEGREE COLLEGE
KADIRI-519 501
Sri Sathya Sai (Dist).

STSN GOVT DEGREE COLLEGE KADIRI

SRI SATHYA SAI DISTRICT, AP.

DEPARTMENT OF PARAMEDICAL TECHNOLOGY

CERTIFICATE COURSE IN PARASITOLOGY

COURSE PROPOSAL 2021-2022

Department of Paramedical technology prestigiously introduced one month of certificate course in Parasitology. This course may be useful for students will get exposure of handling and processing of clinical pathology, immunology, microbiology and biochemistry and transfusion medicine samples with knowledge. This course may be useful to the students in their daily life and health aspects.

Course objectives:

- Students will get knowledge of clinical pathology practices required for diagnosis of various ailments.
- Students will be capable of pursue clinical and laboratory based practical's.
- Students can include the importance of health and hygienic in their daily life.
- To give in-depth knowledge about blood parasites and causing diseases and remedies.
- Students can select suitable diagnostic tools / tests for particular disease.

Course outcomes:

After completion of the course student will be able to do:

- Apply knowledge and skills of parasitology.
- Identify pathological process and correlating these with the clinical symptoms and signs.
- Demonstrate skills for effective communication of the diagnosis to the medical professionals as well as to patients.
- Verifying the accuracy of laboratory results.
- Apply this knowledge to their future studies.

STSN GOVT DEGREE COLLEGE KADIRI
DEPARTMENT OF PARAMEDICAL TECHNOLOGY
CERTIFICATE COURSE IN PARASITOLOGY
Duration: 1 Month

Unit: 1

Medical Parasitology: Introduction of parasites, Transmission infections and causing diseases, identification of parasites, prevention of parasitic diseases, clinical importance of parasites.

Unit: 2

Protozoan parasites: laboratory tolls for parasites – collection preservation, identification of parasites, intestinal protozoan parasites, (*Entamoeba histolitica*, *Geordiae*), malarial parasites (*plasmodium* species)

Unit: 3

Helminth parasites: laboratory techniques for blood parasites, sample collection, preparation and staining, observation and blood films.
Cestodes (*teniasaginata*, *teniasolium*, *wuchereria bancrofti*)

Unit: 4

Lab diagnosis of parasitic infections: serological diagnosis of parasites, urine, sputum, urogenital swabs, parasitic infections, and helminthic infections.

C. Nandu

LECTURER IN Paramedical
STSN Govt. DEGREE COLLEGE
KADIRI - 515 001
Dist Gathya Sai (Dist),

Certificate course – Time table

S.No	Date	Topic covered
1.	16-03-2022	Introduction of parasites
2.	18-03-2022	Parasites transmission, infections
3.	19-03-2022	Parasites transmission, infections and causing diseases
4.	21-03-2022	Identification of parasites
5.	22-03-2022	Prevention of parasitic diseases
6.	23-03-2022	Clinical importance of parasites
7.	24-03-2022	Quiz assignment on Unit-1
8.	25-03-2022	Introduction in protozoan parasites
9.	26-03-2022	Laboratory tools for parasites -collection preservation
10.	28-03-2022	Identification of parasites
11.	29-03-2022	Intestinal protozoan parasites
12.	30-03-2022	Malarial parasites (plasmodium species)
13.	31-03-2022	Quiz assignment on Unit-2
14.	01-04-2022	Introduction in helminthes parasites
15.	04-04-2022	Laboratory techniques for blood parasites
16.	05-04-2022	Sample collection Preparation and staining
17.	06-04-2022	Observation of blood films <i>Tenia saginata</i>
18.	07-04-2022	<i>Tenia solium</i>
19.	08-04-2022	<i>Wuchereria bancrofti</i>
20.	09-04-2022	Quiz assignment on Unit-3
21.	11-04-2022	Serological diagnosis of parasites
22.	12-04-2022	Urine test
23.	13-04-2022	Sputum test
24.	14-04-2022	Identification Urogenital swabs
25.	16-04-2022	Urogenital swabs analysis
26.	18-04-2022	Quiz assignment on Unit-4
27.	19-04-2022	Virtual videos on parasites movements

28.	20-04-2022	Observation of Various cytological slides in parasitology
29	21-04-2022	Virtual videos on parasites movements
30.	22-04-2022	Final assessment and issue of certificates

C. Nandu
 LECTURER IN Parasitology
 STSN Govt. DEGREE COLLEGE
 KADAPA-515 001
 Sri Sathya Sai (Dist).

CERTIFICATE COURSE IN PARASITOLOGY
DEPARTMENT OF PARAMEDICAL TECHNOLOGY
STSN GOVT DEGREE COLLEGE KADIRI
SRI SATHYA SAI DISTRICT, AP.

List of Students

Admission Number	Name of the Student	Address	Signature of the Student
1.	B. PRAVEEN KUMAR	STSN GDC Kadiri	B. Praveen Kumar
2.	J. SAI KIRAN	STSN GDC Kadiri	J. Sai Kiran
3.	K. AMRUTHA	STSN GDC Kadiri	K. Amrutha
4.	K. AKHILA	STSN GDC Kadiri	K. Akhila
5.	P. DANUNJAYA	STSN GDC Kadiri	P. Danunjaya
6.	S. SRI HARI	STSN GDC Kadiri	S. Srihari
7.	V. ANITHAMMA	STSN GDC Kadiri	V. Anithamma
8.	V. RAMAMURTHY NAIK	STSN GDC Kadiri	V. Ramamurthy Naik
9.	B. SHIVA PRASAD	STSN GDC Kadiri	B. Shiva Prasad
10.	D. KRISHNA VENI	STSN GDC Kadiri	D. Krishna Veni
11.	G. RAJESWARI	STSN GDC Kadiri	G. Rajeswari
12.	I. PAVAN KUMAR NAIK	STSN GDC Kadiri	I. Pavan Kumar Naik
13.	K. MOUNIKA	STSN GDC Kadiri	K. Mounika
14.	K. VISWANATH	STSN GDC Kadiri	K. Viswanath
15.	G. SOMASEKHAR	STSN GDC Kadiri	G. Somasekhara
16.	G. GANESH	STSN GDC Kadiri	G. Ganesh
17.	G. PALLAVI	STSN GDC Kadiri	G. Pallavi
18.	C. CHARANTEJA	STSN GDC Kadiri	C. Charanteja
19.	A. ROOPA	STSN GDC Kadiri	A. Roopa
20.	B. SUJATHA	STSN GDC Kadiri	B. Sujatha
21.	A. VIJAY KUMAR	STSN GDC Kadiri	A. Vijay Kumar

CERTIFICATE COURSE IN PARASITOLOGY
DEPARTMENT OF PARAMEDICAL TECHNOLOGY
STSN GOVT DEGREE COLLEGE KADIRI
SRI SATHYA SAI DISTRICT, AP.

STUDENT ATTENDANCE

S.N o	Name of the Student	16/3	17/3	18/3	19/3	21/3	22/3	23/3	24/3	25/3	26/3	27/3	28/3	29/3	30/3	31/3	1/4	4/4	5/4	6/4	7/4	8/4	9/4	11/4	12/4	13/4	14/4
1.	B. PRAVEEN KUMAR	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2.	J. SAI KIRAN	/	/	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	/	/
3.	K. AMRUTHA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	/	/	/	/
4.	K. AKHILA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	/	/	/	/
5.	P. DANUNJAYA	/	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
6.	S. SRI HARI	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
7.	V. ANITHAMMA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
8.	V. RAMAMURTHY NAIK	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
9.	B. SHIVA PRASAD	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
10.	D. KRISHNAVENI	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
11.	G. RAJESWARI	/	/	/	/	/	a	a	/	/	/	/	/	/	/	/	/	/	/	/	a	a	/	/	/	/	/
12.	I. PAVAN KUMAR NAIK	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	/	a	a	/	/	/	/	/
13.	K. MOUNIKA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
14.	K. VISWANATH	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
15.	G. SOMASEKHAR	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
16.	G. GANESH	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
17.	G. PALLAVI	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
18.	C. CHARANTEJA	/	/	/	/	/	/	/	/	/	/	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/
19.	A. ROOPA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
20.	B. SUJATHA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
21.	A. VIJAY KUMAR	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

STUDENT ATTENDANCE

C. Nakhla
LECTURER IN PROBABILITY
STN CON. PRADE COLLEGE
KADUNA - 51500

CERTIFICATE COURSE IN PARASITOLOGY
DEPARTMENT OF PARAMEDICAL TECHNOLOGY
STSN GOVT DEGREE COLLEGE KADIRI
SRI SATYA SAI DISTRICT, AP.
MODEL QUESTION PAPER

I. Write a note on any 2 of the following questions

2x2=10M

1. Define Parasitology?
2. Types of Blood parasites?
3. Importance of Parasites?

II. Write a note on any 3 of the following questions

3x5=15M

4. Transmission infections and causing diseases?
5. Collection and identification of parasites?
6. Malarial parasites?
7. Laboratory techniques for blood parasites?

III. Write all of the following questions?

2x10=20M

8. Write a brief note on serological diagnosis parasites?
9. Write a brief note on sample collection preparation, and staining of blood films.

IV. VIVA VOICE

5Marks

FEEDBACK FROM PARTICIPANTS

Name of the activity:

Certificate Course in Parasitology

Date:

22/4/22

Name of the participant:

K. Amrutha

Class:

II year C2pmt

Phone No.

76758 466 82

1. How would you rate the quality of the presentations and demonstrations during the event?

- ☐ Excellent
- ☒ Very Good
- ☐ Good
- ☐ Satisfactory

2. What was your level of satisfaction about the activity?

- ☐ Excellent
- ☐ Very Good
- ☒ Good
- ☐ Satisfactory

3. Please rate your overall knowledge level about the topics covered before attending the session.

- ☐ Excellent
- ☒ Good
- ☐ Fair
- ☐ Poor

4. Please rate your overall knowledge level about the topics covered after attending the session.

- ☐ Excellent
- ☒ Good
- ☐ Fair
- ☐ Poor

5. Please write your suggestions / observations for improvement of the programme

The certificate course on parasitology is very useful to
in our future studies and awareness about course

K. Amrutha
II C2pmt

FEEDBACK FROM PARTICIPANTS

Name of the activity: Certificate course in parasitology

Date: 22/4/2022

Name of the participant: B. Shiva prasad

Class: II CPMT

Phone No. 9347774932

1. How would you rate the quality of the presentations and demonstrations during the event?

- ☒ Excellent
- ☐ Very Good
- ☐ Good
- ☐ Satisfactory

2. What was your level of satisfaction about the activity?

- ☐ Excellent
- ☒ Very Good
- ☐ Good
- ☐ Satisfactory

3. Please rate your overall knowledge level about the topics covered before attending the session.

- ☐ Excellent
- ☒ Good
- ☐ Fair
- ☐ Poor

4. Please rate your overall knowledge level about the topics covered after attending the session.

- ☐ Excellent
- ☒ Good
- ☐ Fair
- ☐ Poor

5. Please write your suggestions / observations for improvement of the programme

The certificate course about parasitology is very useful in laboratories



S.T.S.N GOVERNMENT DEGREE COLLEGE KADIRI, SRI SATHYA SAI DIST. AP



NAAC Accredited with 'B' Grade

DEPARTMENT OF PARAMEDICAL TECHNOLOGY

Certificate of Participation

This is to certify that Sri/Mr./Miss K. Amrutha of I/II/III B.Sc. (CZPMT) has successfully completed Certificate Course with 30 hours in PARASITOLOGY Conducted by the Department/ Wing of PARAMEDICAL TECHNOLOGY STSN Govt Degree College Kadiiri, During the Academic Year 2021-2022.

C. Narasimha
Course
coordinator
LECTURER IN Paramedical
STSN Govt. DEGREE COLLEGE
KADIRI - 515 591
Sri Sathya Sai (Dist).

B. Narasimha
Head of the Department
Head
Department of Zoology
STSN. Govt. U.G & P.G. College
KADIRI - 515 591.
Sri Sathya Sai Dist. (A.P.)

S. Narasimha
Principal
PRINCIPAL
STSN GOVT DEGREE COLLEGE
KADIRI - 515 591
SRI SATHYA SAI(Dist)

LAB ACTIVITIES ON PARASITOLOGY



Identification of parasites in Electron microscope



Centrifuge process in blood samples



Sample collection, preparation and staining

C. Nandi

LECTURER IN ~~parasitology~~
STSN GOVT DEGREE COLLEGE
KADIRI - 515 591
Sri Sathya Sai (Dist).

STSN GOVT DEGREE COLLEGE KADIRI



DEPARTMENT OF ZOOLOGY

CERTIFICATE COURSE

IN

IMMUNOLOGY HEALTH AND DISEASE

DURATION: 45 DAYS

ACADEMIC YEAR : 2021-2022

CERTIFICATE COURSE IN IMMUNOLOGY HEALTH AND DISEASE

Department of Zoology

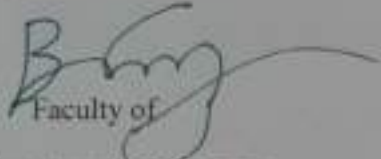
STSN Govt Degree College Kadiri 515591 Anantapur (Dist.)

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6.	List of students	10
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RESOLUTION

It is resolved that the department of Zoology unanimously decided, to conduct a 45 days certificate course in Immunology – health and disease for the III year B.sc (Bzc & Czs) students of this college. The course schedule will be from 16-03-2022 to 11-05-2022. After successful completion of course an online quiz and assignments should be conducted in Immunology – health and disease for both theory and practical and distribution of certificates to the students. The course syllabus is attached to this copy.


Faculty of
Department of Zoology

Permission letter to conduct Certificate Course – 2021-22

From
Dr.D.ADINARAYANA
Department of Zoology
S.T.S.N GDC,
Kadiri,

To
The Principal,
S.T.S.N GDC,
Kadiri,

Respected Principal,

Subject: Permission to conduct **Certificate Course** on Immunology –Health and Disease in the academic year- 2021-22

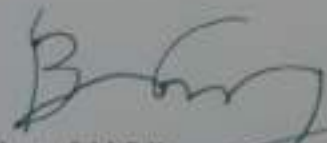
The Department of Zoology at S.T.S.N. Government Degree College, Kadiri, kindly requests your permission to conduct a Certificate Course in Immunology –Health and Disease in the academic year 2021-22.

The proposed schedule for the Certificate Course is 16.3.2022 to 11.05.2022, and we plan to hold the sessions within the college premises. We seek your approval to utilize the college facilities for this purpose, and we assure you that we will adhere to all college regulations and guidelines.

Thank you for considering our request.

Permitted

PRINCIPAL
S.T.S.N. Govt. Degree Coll.
KADIRI


Yours faithfully,
Head
Department of Zoology
S.T.S.N. Govt. U.G & P.G. College
KADIRI - 515 501.
Amrinder Singh (A.P.)

NOTIFICATION FOR ADMISSION

Applications are invited from the eligible candidates for admission into the Certificate Course in for the year 2021-2022

Eligibility: Graduate in any discipline.

Duration of Course: 45 Hours

Admission Process: The prescribed application form for the Admission is available in the Department. The filled in applications shall be submitted to the Course Coordinator, Certificate course in: Immunology - Health and disease, Department of Zoology, STSN Govt. Degree College, Kadiri Anantapur (Dist). Defective applications and applications received after the prescribed date will summarily be rejected and fee once paid will not be refunded or adjusted for any other purpose.

The admission schedule:

Last date of receipt of application: 11-3-2022

Class Details: Classes of the course shall be conducted on working days between 16-3-2022 and 11-05-2022, daily one hour from 4.00 pm to 5.00 pm.

STSN GOVT DEGREE COLLEGE KADIRI

ANANTAPURAMU DISTRICT, AP.

DEPARTMENT OF ZOOLOGY

CERTIFICATE COURSE IN IMMUNOLOGY – HEALTH AND DISEASE

Department of Zoology prestigiously introduced 45 days of certificate course in immunology – health and disease. This course may be useful for students will get exposure of handling and processing of immunology, organs and cells of immune system, types of anti bodies and functions, immunohematology, hypersensitivity, vaccination, immunization. This course may be useful to the students in their daily life and health aspects.

Course objectives:

- Students will get knowledge of immunity- health and diseases
- Students will be capable of pursue immunohematology based practical's.
- Students can inculcate the importance of health and hygiene in their daily life.
- To give in-depth knowledge about blood grouping and estimation of hemoglobin.
- Students can select suitable diagnostic tools for particular tests.

Course outcomes:

After completion of the course student will be able to do:

- Students will get knowledge on immunity and how it works in our body.
- Students will get skill on doing blood grouping and hemoglobin determination techniques and gain practical knowledge on it.
- Students can gain the knowledge on importance of immunity in their daily life.
- Verifying the accuracy of laboratory results.
- Apply this knowledge to their future studies.

STSN GOVT DEGREE COLLEGE KADIRI
DEPARTMENT OF ZOOLOGY
CERTIFICATE COURSE IN IMMUNOLOGY –HEALTH AND DISEASE
Duration: 45 days

Unit: 1 12hr

Introduction of immunology, Types of immunity, Innate and adaptive immunities, Active and passive immunities, Organs of immune system, Primary lymphoid organs, Secondary lymphoid organs, Cells of immune system.

Unit: 2 10hr

Humoral immunity, structure of antibody, classes and functions of antibodies, monoclonal anti bodies and their applications.

Unit: 3 11hr

Immuno hematology: Blood grouping system, ABO blood groups, Rh- factor, Blood group inheritance, Blood transfusion, procedure of blood grouping and estimation of hemoglobin.

Unit: 4 12hr
Immune system in health and disease, auto immune diseases, classification and types of hypersensitivity, Role of food and exercise in immunity.
Types of vaccines and mechanism of vaccines.

Certificate course – Time table

S.No	Date	Topic covered
1.	16-03-2022	Introduction of immunology
2.	18-03-2022	Types of immunity, Innate immunity
3.	19-03-2022	Innate immunity
4.	21-03-2022	Acquired immunity
5.	22-03-2022	Active and passive immunities
6.	23-03-2022	Organs of immune system
7.	24-03-2022	Primary lymphoid organs
8.	25-03-2022	Secondary lymphoid organs
9.	26-03-2022	Cells of immune system
10.	28-03-2022	Cells of immune system
11.	29-03-2022	Quiz assignment on unit-1
12.	30-03-2022	Humoral immunity
13.	31-03-2022	Structure of antibody
14.	01-04-2022	Classes and functions of antibodies
15.	04-04-2022	Classes and functions of antibodies
16.	05-04-2022	Monoclonal anti bodies
17.	06-04-2022	Monoclonal anti bodies and their applications
18.	07-04-2022	Quiz assignment on unit-2
19.	08-04-2022	Introduction on Immuno hematology
20.	09-04-2022	Blood grouping system
21.	11-04-2022	ABO blood groups
22.	12-04-2022	Rh- factor
23.	13-04-2022	Blood group inheritance
24.	16-04-2022	Blood transfusion
25.	18-04-2022	Procedure of blood grouping
26.	19-04-2022	Estimation of hemoglobin.
27.	20-04-2022	Quiz assignment on unit-3
28.	21-04-2022	Immune system in health and disease
29.	22-04-2022	Auto immune diseases

30.	23-04-2022	Classification and types of hypersensitivity
31.	25-04-2022	Classification and types of hypersensitivity
32.	26-04-2022	Type – I Hypersensitivity
33.	27-04-2022	Type – I Hypersensitivity
34.	28-04-2022	Type – II Hypersensitivity
35.	29-04-2022	Type – II Hypersensitivity
36.	30-04-2022	Type – III Hypersensitivity
37.	02.05.2022	Type – IV Hypersensitivity
38.	03.05.2022	Role of food and exercise in immunity
39.	04.05.2022	Types of vaccines
40.	05.05.2022	Immunization and Mechanism of vaccines
41.	06.05.2022	Estimation of Hemoglobin
42.	07.05.2022	Estimation of Blood Groups
43.	09.05.2022	Final assessment
44.	10.05.2022	viva voce
45.	11.05.2022	Issue of certificates

STSN GOVT DEGREE & P.G. COLLEGE KADIRI

DEPARTMENT OF ZOOLOGY

CERTIFICATE ISSUE REGISTER

S.NO	STUDENT NAME	GROUP	SEM	SIGNATURE OF THE STUDENTS
1	ASADI PRIYANKA	BZC	VI	A. Priyanka
2	RANGANI MOUNIKA	BZC	VI	R. Mounika
3	SHAIK APSANA	BZC	VI	S. Apasana
4	A.CHANDRA KALA	BZC	VI	A. Chandrakala
5	AKKANNIMAGARI MADHU	BZC	VI	A. madhu
6	RANDLA PALLI SHIREESHA	BZC	VI	B. Shireesha
7	B.HARITHA BAI	BZC	VI	B. Haritha Bai
8	B.RAVI KUMAR	BZC	VI	B. Ravikumar
9	BUKYA RAVITEJA NAIK	BZC	VI	B. Raviteja
10	B.GANESH	BZC	VI	B. Ganesh
11	C.LAVANAYA	BZC	VI	C. Lavanya
12	C.REDDY SEENU	BZC	VI	C. Reddy Seenu
13	J.ANITHA	BZC	VI	J. Anitha
14	J.ASWINI	BZC	VI	J. Aswini
15	K.ADIKESAVA	BZC	VI	K. Adikesava
16	MADDE ANITHA	BZC	VI	M. Anitha
17	M.NAVIEN SAI KUMAR	BZC	VI	M. Navien Sai Kumar
18	N.CHANDRAKALA	BZC	VI	N. Chandrakala
19	N.LAKSHMI SAI ROOPA	BZC	VI	N. Lakshmi Sai Roopa
20	P.RUHINAJ	BZC	VI	P. Ruhinaj
21	P.HARSHIYA	BZC	VI	P. Harshiya
22	S.NASEEMA	BZC	VI	S. Naseema
23	S.RUBIYA	BZC	VI	S. Rubiya
24	Y.AMRUTHA	BZC	VI	Y. Amrutha
25	H.JAYALAKSHMI	CZS	VI	H. Jayalakshmi
26	K.BHANU PRAKASH	CZS	VI	K. Bhanu Prakash
27	M.NARESH	CZS	VI	M. Nareesh
28	N.O.SANGEETHA	CZS	VI	N. O. Sangeetha
29	O.MAHALAKSHMI	CZS	VI	O. Mahalakshmi
30	V.MAHESWARI	CZS	VI	V. Maheswari

		16-3-2022	17-3-22	18-3-22	19-3-22	20-3-22	21-3-22	22-3-22	23-3-22	24-3-22	25-3-22	26-3-22	27-3-22	28-3-22	29-3-22	30-3-22	31-3-22	4-4-22	5-4-22	6-4-22	7-4-22	8-4-22	9-4-22	10-4-22	11-4-22	12-4-22	13-4-22	14-4-22	15-4-22	16-4-22	17-4-22	18-4-22	19-4-22	20-4-22	21-4-22	
18.	N.CHANDRAKALA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
19.	N.LAKSHMI SAI	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
20.	P.RUHINAJ	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
21.	P.HARSHIYA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
22.	S.NASEEMA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
23.	S.RUBIYA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
24.	Y.AMRUTHA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
25.	H.JAYALAKSHMI	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
26.	K.BHANU PRAKASH	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
27.	M.NARESH	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
28.	N.O.SANGEETHA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
29.	O.MAHALAKSHMI	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
30.	V.MAHESWARI	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

STSN GOVT DEGREE COLLEGE KADIRI

[illegible]

STSN GOVT. DEGREE COLLEGE, KADIRI
DEPARTMENT OF ZOOLOGY
CERTIFICATE COURSE ON IMMUNOLOGY- HEALTH AND DISEASE
QUESTION PAPER

Duration : 3 Hours

Marks : 100

I. Write a note on any 5 of the following?

5X5 = 25

1. Define Immunology?
2. IgA Antibody?
3. IgM Antibody?
4. IgE Antibody?
5. Write about the Importance of Vaccines?
6. Rh Factor?
7. Importance of Haemoglobin?

II. Answer any 5 of the following?

5X10 = 50

1. Write about the Innate Immunity?
2. Define Primary Lymphoid organs?
3. Explain Cells of Immune System?
4. Write about Antibody Structure and Functions?
5. Explain ABO Blood group System?
6. Explain about Procedure of Estimation of Haemoglobin??
7. Write about the Auto-immune Diseases?
8. Explain the classification of Hypersensitivity?

III. Vivavoce

25

FEEDBACK FROM PARTICIPANTS

Name of the activity:

Certificate course in Immunology - Health & Society

Date:

Name of the participant:

S. Rubiya

Class:

III year B2C

Phone No.

6302955965

1. How would you rate the quality of the presentations and demonstrations during the event?

- ☒ Excellent
- ☐ Very Good
- ☐ Good
- ☐ Satisfactory

2. What was your level of satisfaction about the activity?

- ☐ Excellent
- ☒ Very Good
- ☐ Good
- ☐ Satisfactory

3. Please rate your overall knowledge level about the topics covered before attending the session.

- ☐ Excellent
- ☒ Good
- ☐ Fair
- ☐ Poor

4. Please rate your overall knowledge level about the topics covered after attending the session.

- ☐ Excellent
- ☒ Good
- ☐ Fair
- ☐ Poor

5. Please write your suggestions / observations for improvement of the programme

This Certificate course is very highly useful for the
hemoglobin estimation.

FEEDBACK FROM PARTICIPANTS

Name of the activity:

Certificate course in Semiology - reading & discussion

Date:

Name of the participant:

B. Banerjee

Class:

VI BSc

Phone No.

7019150554

1. How would you rate the quality of the presentations and demonstrations during the event?

- ☐ Excellent
- ☒ Very Good
- ☐ Good
- ☐ Satisfactory

2. What was your level of satisfaction about the activity?

- ☐ Excellent
- ☒ Very Good
- ☐ Good
- ☐ Satisfactory

3. Please rate your overall knowledge level about the topics covered before attending the session.

- ☐ Excellent
- ☒ Good
- ☐ Fair
- ☐ Poor

4. Please rate your overall knowledge level about the topics covered after attending the session.

- ☐ Excellent
- ☒ Good
- ☐ Fair
- ☐ Poor

5. Please write your suggestions / observations for improvement of the programme

It is very useful for blood group determination



S.T.S.N GOVERNMENT DEGREE COLLEGE

KADIRI, ANANTAPUR DIST. AP

NAAC Accredited with 'B' Grade

DEPARTMENT OF ZOOLOGY



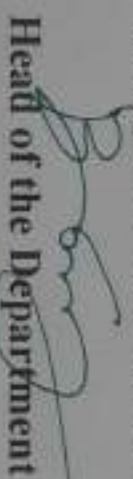
Certificate of Participation

This is to certify that Sri/Mr./Miss B. Ganesh of III/III B.Sc. (BZC) has successfully completed Certificate Course with 45 hours in IMMUNOLOGY -

HEALTH AND DISEASE Conducted by the Department/ Wing of ZOOLOGY STSN

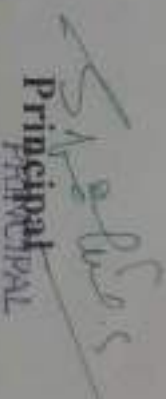
Govt Degree College Kadiiri, During the Academic Year 2021-2022.


Course


Head of the Department

coordinator

Head
Department of Zoology
STSN Govt. U.G & P.G. College
KADIRI - 515 301.
Anantapur (A.P.)


Principal
STSN Govt. Degree Collr
KADIRI

STSN GOVERNMENT DEGREE COLLEGE KADIRI
DEPARTMENT OF ZOOLOGY
BLOOD GROUPING AND HEMOGLOBIN ESTIMATION
KUMMARAVANDLA PALLI, KADIRI MANDAL.



STSN GOVERNMENT DEGREE COLLEGE KADIRI
DEPARTMENT OF ZOOLOGY
BLOOD GROUPING AND HEMOGLOBIN ESTIMATION
KUMMARAVANDLA PALLI, KADIRI MANDAL



IMMUNO HEMATOLOGY- CERTIFICATE COURSE
IMMUNOLOGY- HEALTH AND DISEASE

STSN GOVERNMENT DEGREE COLLEGE KADIRI
DEPARTMENT OF ZOOLOGY
BLOOD GROUPING AND HEMOGLOBIN ESTIMATION
KUMMARAVANDLA PALLI, KADIRI MANDAL



Kadiri

Date: 14/3/2022

From
Department of Mathematics
STSN Govt. Degree College
Kadiri.

To
The Principal
STSN Govt. Degree College
Kadiri.

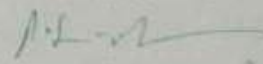
Sir/Madam,

Sub: Requisition to conduct Add-on Course on Number Theory permission-Reg.

We, the Department of Mathematics, requesting you to give permission to conduct add-on course on Number Theory from 17.3.2022 to 16.4.2022 to the second year M.P.Cs students.

Thanking you Madam

Yours faithfully


(P. Sathya Sai)

Permitted
Sathya Sai
14/3/22
PRINCIPAL
STSN Govt. DEGREE COLLEGE
KADIRI - 515 501
Sri Sathya Sai (Dist)

Kadiri,

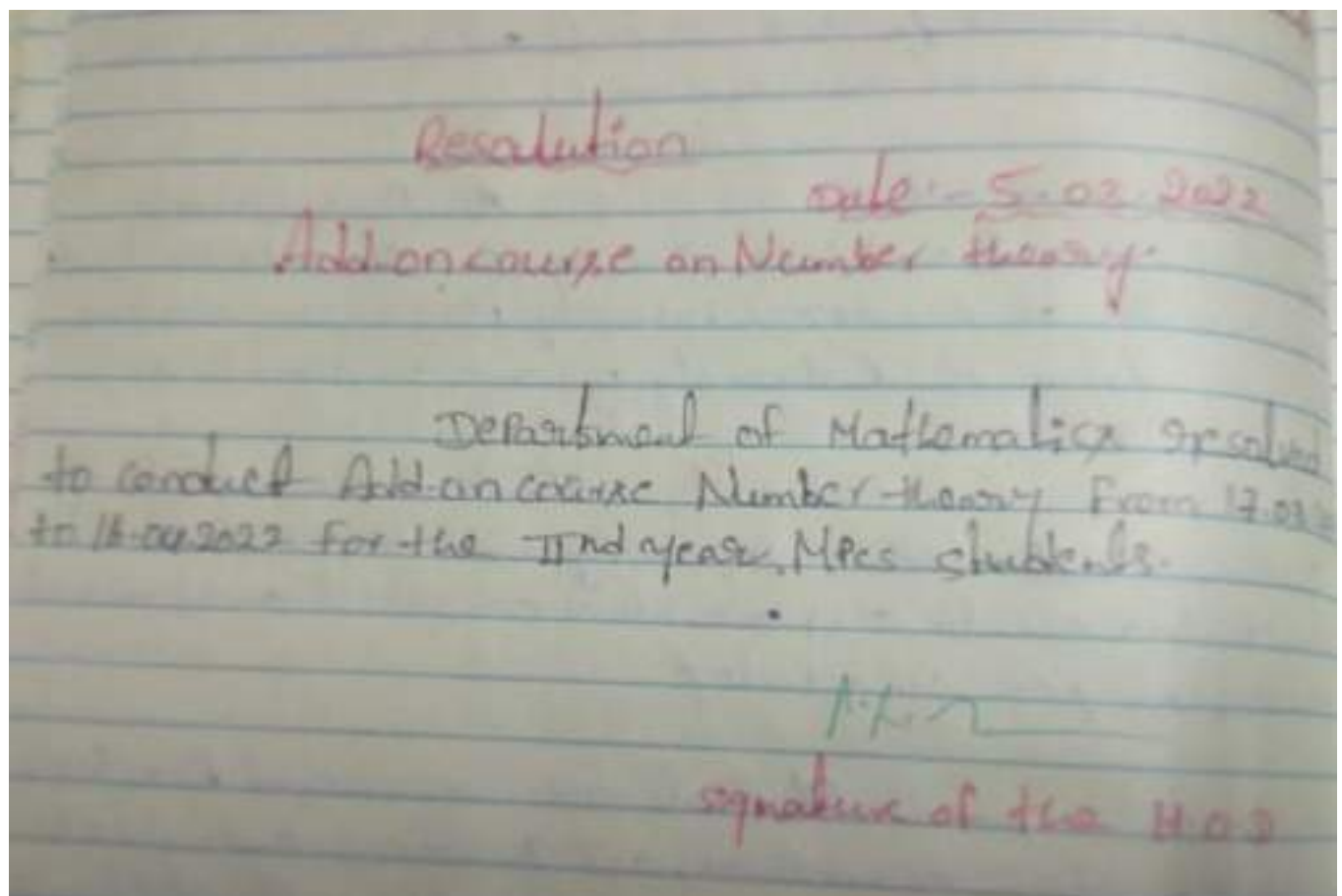
Date: 14/3/2022

Circular

The Department of Mathematics decided to conduct add-on Course on Number Theory from 17/3/2022 to 16/4/2022 (Total 30 hours, Every Day Timing 04.00 P.M. to 05.00 P.M.) to the B.Sc. IInd year (M.P.Cs) students. The II Year Mathematics Students are instructed to enroll their names in this course to P. Sivaprasad, Lecturer in Mathematics.



Signature of the Lecturer



STSN Govt. Degree College Kadiri, Ananthapuramu
Department of Mathematics
Syllabus of add-on course on Number Theory

Course Objectives:

To present a rigorous development of Number Theory using axioms, definitions, examples, theorems and their proofs.

Topical Outline of the Course Content:

Module 1: Divisibility and Primes – 1:

Well-ordering Principle – Division algorithm, Euclid's algorithm, linear Diophantine equation.

Module 2: Divisibility and Primes – 2 :

Prime numbers, fundamental theorem of arithmetic.

Module 3: Congruences – 1:

Congruence, Properties of Congruence, Linear Congruence, Simultaneous Linear Congruences, Chinese Remainder Theorem.

Module 4: Congruences – 2:

Fermat's Little Theorem, Wilson's theorem, Pseudo-primes.

Module 5: Number theoretic functions:

Greatest Integer Function, Euler's ϕ -function, Arithmetic Functions, Mobius Function, Dirichlet product.

Student Learning Outcomes. Students will be able to :

- 1) effectively express the concepts and results of Number Theory.
- 2) construct mathematical proofs of statements and find counter examples to false statements in Number Theory.
- 3) collect and use numerical data to form conjectures about the integers.
- 4) understand the logic and methods behind the major proofs in Number Theory.
- 5) work effectively as part of a group to solve challenging problems in Number Theory.

Reference Books:

1. K. Rosen, Elementary Number Theory and its Applications (5th Edition), Addison-Wesley (2005).
2. T. Koshy, Elementary Number Theory with Applications, Harcourt/Academic Press (2002)
3. G. Andrews, Number Theory, Dover Publications (1994)

STSN Govt. Degree College Kadiri, Sri Satya Sai (Dist)

Department of Mathematics

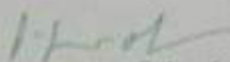
2nd MPCs (Course on Number Theory)

STSN Govt. Degree College Kadiri, Sri Satya Sai (Dist)

Department of Mathematics

2nd MPCs (Course on Number Theory)

S.No	Name of the Student	Signature of the Student
1.	Abba Gangotri	A. Gangotri
2	Bayamuthaka Balaji	B. Balaji
3	Bokula Haritha	B. Haritha
4	Chinnakotla Gowthami	C. Gowthami
5	Deringula Keerthi	D. Keerthi
6	Gadugu Raju	G. Raju
7	Gulime Manohar	G. Manohar
8	Kowlepalli Uday Kiran	K. Uday Kiran
9	Kutala Sreenivasulu	K. Sreenivasulu
10	Naariki Pravallika	N. Pravallika
11	Desigari Chamanthi	D. Chamanthi
12	Mude Balaraju Naik	M. Balaraju Naik
13	Shaik Allabakash	S. Allabakash
14	Antharala Raju	A. Raju
15	Nadimpalli Nandini	N. Nandini
16	Yerragodula Thejeshwari	Y. Thejeshwari
17	Shaik Salma	S. Salma
18	Shaik Neha Bhanu	S. Neha Bhanu
19	Vellasiri Tharun	V. Tharun
20	S.Thabasum	S. Thabasum


Signature of the Lecturer

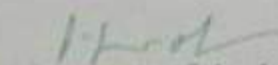
Brief Report

Number theory is a branch of pure mathematics devoted to the study of the natural numbers and the integers. As it holds the foundational place in the discipline, Number theory is also called "The Queen of Mathematics". The number theory helps discover interesting relationships between different sorts of numbers and to prove that these are true.

The Students of Mathematics should know about the Fundamentals in Number Theory in addition to the regular domain courses. Taking this fact in view Department of Mathematics has planned to conduct an add-on course on Number Theory. In this course, we discussed about Divisibility, Primes, Congruences, Number theoretic functions etc. The faculty member P.Sivaprasad, Lecturer in Mathematics has conducted this add-on course for 30 hours from 17-03-2022 to 16-04-2022 for 20 enrolled students from II MPCs . Class timings were 4:00 PM to 5:00 PM, and the faculty member P.Sivaprasad have acted faculty for this course.

STSN Govt. Degree College Kadiri, Sri Satya Sai (Dist)
Department of Mathematics
2nd MPCs (Course on Number Theory)

S.No	Name of the Student	Signature of the Student
1.	Abba Gangotri	A. Gangotri
2	Bayamuthaka Balaji	B. Balaji
3	Bokula Haritha	B. Haritha
4	Chinnakotla Gowthami	C. Gowthami
5	Deringula Keerthi	D. Keerthi
6	Gadugu Raju	G. Raju
7	Gulime Manohar	G. Manohar
8	Kowlepalli Uday Kiran	K. Uday Kiran
9	Kutala Sreenivasulu	K. Sreenivasulu
10	Naariki Pravallika	N. Pravallika
11	Desigari Chamanthi	D. Chamanthi
12	Mude Balaraju Naik	M. Balaraju Naik
13	Shaik Allabakash	S. Allabakash
14	Antharala Raju	A. Raju
15	Nadimpalli Nandini	N. Nandini
16	Yerragodula Thejeshwari	Y. Thejeshwari
17	Shaik Salma	S. Salma
18	Shaik Neha Bhanu	S. Neha Bhanu
19	Vellasiri Tharun	V. Tharun
20	S.Thabasum	S. Thabasum


Signature of the Lecturer

STSN Govt. Degree College Kadiri, Ananthapuramu
Department of Mathematics
Examination on Number Theory

the student: _____ **Group:** ____

Reg. Number: _____

1. If a and b are two integers, then $\exists$ some integers x and y such that []
 (a) $\gcd(a, b) = ax + by$ (b) $\gcd(a, b) = ax - by$
 (c) $\gcd(a, b) = ax^n + by^n$ (d) $\gcd(a, b) = (ax + by)^n$
2. An efficient way of obtaining the gcd is known as _____. []
 (a) Wellordering principle (b) Division Algorithm
 (c) Euclid's Algorithm (d) None of above
3. Two consecutive terms of a Fibonacci sequence are _____. [] (a) Co-prime
 (b) Composite
 (c) Inverses (d) None of these
4. Which of the congruence statements is false? [] (a) 25
 $\not\equiv 15 \pmod{5}$ (b) $13 \not\equiv 10 \pmod{3}$
 (c) $25 \not\equiv 9 \pmod{4}$ (d) $10 \not\equiv 3 \pmod{2}$
5. For modulus m , if every integer is congruent to an element of set S and S is smallest such set then []
 (a) S is complete residue system (b) S is least residue system (c) S is complete modulo system
 (d) S is least modulo system
6. The representation of a number into product of primes is _____. []
 (a) Separate (b) Unique up to the order of factors
 (c) Not unique (d) Infinite Number
7. Which name matches the statement if $a|bc$ and $(a, b) = 1$, then $a|c$? []
 (a) Euclid's Lemma (b) Fermat's Theorem
 (c) Division Algorithm (d) Euclidean Algorithm
8. Linear congruence is of the form _____. []

(a) $ax \equiv b \pmod{m}$

(b) $ax = b \pmod{m}$

(c) $ax^2 + bx = c \pmod{m}$

(d) Both a and b

9. Which of the following is a valid solution to the congruence $2x \equiv 1 \pmod{5}$? []

(a) $x \equiv 3 \pmod{5}$

(b) $x \equiv 1 \pmod{5}$

(c) $x \equiv 4 \pmod{5}$

(d) $x \equiv 5 \pmod{5}$

10. If $d = (a, m)$, then the congruence $ax \equiv b \pmod{m}$ has a solution if []

(a) $d|b$

(b) $b|d$

(c) $d|b-am$

(d) None of these

11. Suppose that m_j are pair wise relatively prime and a_j are arbitrary integers ($j=1, \dots, k$), then $\exists$ solutions x to the simultaneous congruences $x \equiv a_j \pmod{m_j}$ s.t. the solutions x are__.

[]

(a) Congruent Modulo $M=m_1 \cdot m_2 \dots m_k$

(b) Congruent Modulo $M = \sum_{i=1}^k m_i$

(c) Congruent Modulo m_1

(d) Both a and b

12. Which of the statements is false? []

(a) There is no pattern in prime numbers

(b) No formula exists for prime numbers

(c) Both a and b

(d) None of these

13. Which theorem states that “If p is prime, then $(p-1)! \equiv -1 \pmod{p}$.”? []

(a) Dirichlet’s Theorem

(b) Wilson’s Theorem

(c) Euler’s Theorem

(d) Fermat’s Little Theorem

14. According to fundamental theorem of algebra, every n degree polynomial____. []

(a) At least n roots

(b) At most n roots

(c) Exactly n roots

(d) $n-1$ roots

15. A congruence of the form $x^2 \equiv a \pmod{m}$ is called____. []

(a) Linear congruence

(b) Quadratic congruence

(c) Cubic congruence

(d) Polynomial congruence



**STSN GOVERNMENT DEGREE COLLEGE
KADIRI, SRI SATHYASAI Dt.AP.**

**Re-Accredited With 'B' Grade by NAAC
An ISO 9001:2015 Institution**

**DEPARTMENT OF CHEMISTRY
2021 – 2022**

Certificate course

*-“Detection of Adulterants In Some
Common Food-Stuff.....”*

Permission Letter

From

Date: 20.03.2022.

HOD of Chemistry
STSN GDC,
Kadiri.

To

The Principal
STSN GDC,
Kadiri.

Sub: Issue of permission to conduct certificate course reg...

Respected Madam,

I submit the following few lines for your kind consideration, Chemistry department is going to conduct Certificate course for II Year B.Sc Students from 01.04.2022 to 30.04.2022. Hence grant the permission.

Thanking you Madam

Yours faithfully,

P. J. J. J.


PRINCIPAL
STSN GDC
KADIRI - S.T.S. 199
Sri Satya Sai (Datt).

RESOLUTION

It is resolved that the department of Chemistry unanimously decided, to conduct a 30 days certificate course on **"DETECTION OF ADULTERANTS IN SOME COMMON FOOD-STUFF"** for the second year B.sc students of this college. The course schedule will be from 01-04-2022 to 30-04-2022. After successful completion of course an exam should be conducted in certificate course and distribution of certificates to the students. The course syllabus is attached to this copy.

Faculty of

Chemistry Department


Lecturer in Chemistry
S.T.S.N.Govt. Degree College
KADIRI - 515 591
Sri Sathya Sai Dist.

CIRCULAR

This is to inform that Chemistry department decided to conduct certificate course in **"DETECTION OF ADULTERANTS IN SOME COMMON FOOD-STUFF"** from 01.04.2022 to 30.04.2022 for II B.Sc Students. So enroll their names and pay the Fee 200/- in Department of Chemistry, on or before 26.03.2022.

Date: 25.03.22


Lecturer in Chemistry
S.T.S.N.Govt. Degree College
KADIRI - 515 591
Sri Sathya Sai Dist.

Brief Report

STSN Govt Degree College, KADIRI.
Sri Sathya Sai (Dist)
Department of Chemistry.
(01-04-22 to 30-04-22)
(2021-2022)

- Programme** : Certificate course
- Nature of the Programme** : Apply the knowledge and skills in detection of adulterants in common food
- Class** : II. B Sc (BZC & CZS)
- No of Students participants** : 20
- Incharge Lecturer** : P.Guruprathap Reddy
- Course objectives**
- Students will get knowledge about food adulteration.
 - Students will know how to detect adulterants in common food-stuff by lab based chemicals.

Course Output

- To create awareness among public, regarding food adulteration.
- Students can include the importance of health and hygienic in their daily life.
- Analytical Skills.

Brief Report

II B.Sc students studied different chemical reactions involving in the process of detection of different adulterants in different food items. These experiments were performed for the purpose of detecting various adulterants present in common food. The experiments have been performed by common laboratory methods. Students can include the importance of health and hygienic in their daily life. To build healthy society by consuming unadulterated food.


Lecturer in Chemistry
S.T.S.N.Govt. Degree College
KADIRI - 515 591

Certificate course – Time table

S.No	Date	Topic covered
1.	01-04-2022	Inaugural function for certificate course
2.	04-04-2022	Introduction about certificate course in Adulteration
3.	05-04-2022	Introduction of Adulterants
4.	06-04-2022	Types of Adulterants
5.	07-04-2022	Impact of Adulterants
6.	08-04-2022	Metanil yellow in pulses
7.	12-04-2022	Collection of sample
8.	13-04-2022	Laboratory test for Metanil yellow
9.	16-04-2022	Kesari dal in channa and other dal
10.	18-04-2022	Collection of sample of various dal
11.	19-04-2022	Laboratory test for Kesari dal
12.	20-04-2022	Water in milk
13.	21-04-2022	Collection of samples of various branded milk
14.	22-04-2022	Laboratory test for quality of milk
15.	23-04-2022	Starch in milk
16.	25-04-2022	Collection of samples of various branded milk
17.	26-04-2022	Laboratory test for quality of milk
18.	27-04-2022	Vanaspathy in pure Ghee
19.	28-04-2022	Collection of samples of various branded Ghee in market
20.	29-04-2022	Laboratory test for quality of Ghee
21.	30-04-2022	Chalk in sugar
22.	02-05-2022	Collection of samples
23.	03-05-2022	Laboratory test for quality of sugar
24.	04-05-2022	Yellow dye in turmeric powder
25.	05-05-2022	Collection of samples and Laboratory test
26.	06-05-2022	Evaluation
27.	07-05-2022	Issue of certificates



*STOP
ADULTERATION
NOW!!*



-CONTENTS-

SL.NO.	DESCRIPTION	PAGE NO.
1.	CONTENTS	(i)
2.	CHAPTER-1	2
	• INTRODUCTION	3
	• SOME ADULTERANTS IN COMMON FOOD	4
	• IMPACT OF ADULTERANTS	4
	• DIFFERENT CHEMICAL TESTS FOR DETECTION OF ADUTERANTS	5
3.	CHAPTER-2	6
	• INTRODUCTION	7
	• DETECTION OF STARCH IN MILK	7
	• DETECTION OF YELLOW DIE IN TURMERIC POWDER	8
	• DETECTION OF VANASPATI GHEE IN DESHI GHEE	9
	• DETECTION OF ARGEMONE OIL IN MUSTARD OIL	10
	• DETECTION OF WASHING SODA,CHALK POWDER AND WATER INSOLUBLE SUBSTANCES IN SUGAR	11
	• DETECTION OF RED COLOURED LEAD SALTS IN CHILLI POWDER	12
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CHAPTER- (1)

INTRODUCTION

**SOME ADULTERANTS
INCOMMON FOOD**

**IMPACT OF
ADULTERANTS**

**DIFFERENT
CHEMICAL TESTS FOR
DETECTION OF
ADULTERANTS**

INTRODUCTION

The Objective of this project is to study some of the common food adulterants present in different food stuffs.

Adulteration in food is normally present in its most crude form; prohibited substances are either added or partly or wholly substituted. Normally the contamination/adulteration in food is done either for financial gain or due to carelessness and lack in proper hygienic condition of processing, storing, transportation and marketing. This ultimately results that the consumer is either cheated or often become victim of diseases. Such types of adulteration are quite common in developing countries or backward countries. It is equally important for the consumer to know the common adulterants and their effect on health.

The increasing number of food producers and the outstanding amount of import foodstuffs enables the producers to mislead and cheat consumers. To differentiate those who take advantage of legal rules from the ones who commit food adulteration is very difficult. The consciousness of consumers would be crucial. Ignorance and unfair market behavior may endanger consumer health and misleading can lead to poisoning. So we need simple screening, tests for their detection. In the past few decades, adulteration of food has become one of the serious problems. Consumption of adulterated food causes serious diseases like cancer, diarrhea, asthma, ulcers, etc. Majority of fats, oils and butter are paraffin wax, castor oil and hydrocarbons. Red chilli powder is mixed with brick powder and pepper is mixed with dried papaya seeds. These adulterants can be easily identified by simple chemical tests.

Several agencies have been set up by the Government of India to remove adulterants from food stuffs. Selection of wholesome and non-adulterated food is essential for daily life to make sure that such foods do not cause any health hazard. It is not possible to ensure wholesome food only on visual examination when the toxic contaminants are present in ppm level. However, visual examination of the food before purchase makes sure to ensure absence of insects, visual fungus, foreign matters, etc. Therefore, due care taken by the consumer at the time of purchase of food after thoroughly examining can be of great help. Secondly, label declaration on packed food is very important for knowing the ingredients and nutritional value. It also helps in checking the freshness of the food and the period of best before use. The consumer should avoid taking food from an unhygienic place and food being prepared under unhygienic conditions. Such types of food may cause various diseases. Consumption of cut fruits being sold in unhygienic conditions should be avoided. It is always better to buy certified food from reputed shop.

SOME ADULTERANTS IN COMMON FOOD

Majority of adulterants used by the shopkeepers are cheap substitutes easily available. For example, adulterants in fats,oils and butter are paraffin wax,castor oil and hydrocarbons. Read chili powder is mixed with brick powder ,turmeric powder is mixed with yellow lead salts and pepper is mixed with dried papaya seeds. Similarly sugar is contaminated with washing soda and other insoluble substances, milk is adulterated with starch,argemone oil is used to adulterate mustard oil,vanaspati ghee is mixed with deshi ghee,beson is mixed with khesari dal etc.These type of adulterants makes a food stuff inferior.

IMAPACT OF ADULTERANTS

Every day we hear and watch live on television sets how the food items are being adulterated and this spurious, unhygienic and harmful food is entering our houses. We have seem how milk and milk products are being made from urea, soapand other harmful chemicals. We all know that vegetables are being given injections to make them grow faster and overnight. The other day we saw how steroids were being injected to chickens to make them into a hen in a very short span of time. We have also come across evidence as to how the fruits are being ripened with the use of harmful chemicals.

Adulteration of food causes several heath problems in humans. Some of the health hazards include stomach ache, body ache, anemia, paralysis, and increase in the incidence of tumors, pathological lesions in vital organs, abnormalities of skin and eyes. Hence food adulteration should be given great importance due to its effect in the health significance of the public. The people are suffering from heart disease, kidney failure, skin diseases, asthma and other chronic diseases. The people are hapless victims of this adulteration industry running in full swing and unchecked.

DIFFERENT CHEMICAL TESTS FOR DETECTION OF ADULTERANTS

Food adulteration has now become a burning problem. The adulterants used are so similar to natural foodstuffs that it becomes very difficult for a commonman to detect them. A few simple tests can be done to detect adulterants found in common foodstuffs.

1. METANIL YELLOW IN PULSES

Shake 5 gms: of the suspected pulses with 5 ml of water. Add a few drops of hydrochloric acid. A pink colour shows the presence of metanil yellow.

2. KESARI DAL IN CHANNA OR OTHER DALS

Add 5 ml of normal hydrochloric acid to a small quantity of dal in a glass. Keep the glass in simmering water for 15 minutes. Development of pink colour indicates the presence of Kesari dal. By visual detection-shape of dal. The kesari dal is wedge shaped.

3. WATER IN MILK:

Measure the specific gravity with a lactometer. The normal values will fall between 1.030 and 1.034. Milkmen are wise to the test and may dilute the milk only to the right density, so this is only a rough test.

4. STARCHES IN MILK:

Add a drop of iodine solution to a small quantity of milk. Milk containing starch turns blue. Pure milk turns a coffee shade.

5. VANASPATI IN PURE GHEE

Take about one teaspoonful of melted butter with an equal quantity of concentrated hydrochloric acid in a test tube. Add 2 or 3 drops of furfural solution. Shake it well for one minute and let it stand for five minutes. Appearance of pink colour in the lower layer of acid means that vanaspati is present in pure ghee/butter as an adulterant.

6. ARGEMONE OIL IN MUSTARD OIL

Heat the mixture of oils with a little amount of nitric acid for two to three minutes. A red colour will appear if argemone is present

7. CHALK OR ANY OTHER DUST OR DIRT IN SUGAR

Dissolve sugar in water, the impurities will settle down at the bottom. Etc.

CHAPTER –(2)

- **INTRODUCTION**
- **DETECTION OF STARCH IN MILK**
- **DETECTION OF YELLOW DYE IN TURMERIC POWDER**
- **DETECTION OF VANASPATHI GHEE IN DESHI GHEE**
- **DETECTION OF ARGEMONE OIL IN MUSTARD OIL**
- **DETECTION OF WASHING SODA, CHALK POWDER AND WATER INSOLUBLE SUBSTANCES IN SUGAR**
- **DETECTION OF RED COLOURED LEAD SALTS IN CHILLI POWDER**
- **DETECTION OF KHEASARI DAL IN BESON**

2.1 INTRODUCTION

The Objective of this project is to study some of the common food adulterants present in different common food stuffs. In this project different food items are tested in laboratory by some tests to detect the adulterants present. Moreover, different samples of each food item are also taken and their quality is specially analysed. The batch no, serial no, date of expiry, and date of modification are also noted for the packeted samples of the food items. The way in which the experiments had taken as described in this chapter and result for each sample has been written here.

2.2 DETECTION OF STARCH IN MILK

Along with water, a very common adulterant of milk is starch. Milk consists of three basic components which are water (about 80%), fat (about 3.5%) and solids containing protein, lactose and mineral matters (about 8.5%). Milk is adulterated with starch to maintain the thickness of fat extracted milk or diluted milk. The presence of starch can be detected by adding iodine solution to milk.

Reagent used- Iodine solution or tincture of iodine.

Procedure- At first 5 mL of milk sample is taken in a test tube and is boiled for 3-4 minutes. Then it is cooled and 1-2 drops of iodine solution is added to it and is shaken well.

Detection- Appearance of blue colour indicates the presence of starch in the sample.

Table for different samples-

SL NO	SAMPLES	BATCH NO.	RESULT
1.	Amul TAZA	B5087M	Adulterant absent.
2.	Diary milk	-----	Adulterant present.
3.	Nestle EVERYDAY	127304514A	Adulterant absent.
4.	Amulya	4B8790	Adulterant absent.



Milk samples

DETECTION OF YELLOW DYE IN TURMERIC POWDER

Turmeric(haladhi) powder is a popular natural dye used in cooked food. The powder is often adulterated with rice powder, besan, wheat powder etc. which makes the colour of the turmeric pale. To make the colour bright, often lead chromate, which is a poisonous chemical or coal tar dye is added to turmeric powder.

a) DETECTION OF LEAD CHROMATE –

Reagents: Concentrated HCL and 1% diphenyl carbazide in rectified spirit.

Procedure: 1g of the turmeric powder sample is taken in a test tube and 5ml of concentrated HCL is added to it. The mixture is shaken thoroughly. Now 1ml of 1% diphenyl carbazide reagent is added.

Detection: Appearance of pink to red colour indicates the presence of lead chromate, $PbCrO_4$, in the sample.

b) DETECTION OF COAL TAR DYE-

Reagents: Concentrated HCL and petroleum ether (40-60°C).

Procedure: 5g of the sample is taken in a test tube and 10mL petroleum ether is added to it. The mixture is shaken vigorously and is allowed to stand. 5 mL of conc. HCL is added and is again shaken thoroughly.

Detection: The aqueous acid becomes pink to red in colour if coal tar is present.

Table for different samples-

SL.NO.	SAMPLES	BATCH NO	RESULT
1.	MDH Haldi powder	GN-60	Adulterant absent.
2.	Open sample	----	Adulterant present.
3.	Bharat haldi	KL29	Adulterant present.



Sample-1



sample-2



sample-3

HALDI SAMPLES

DETECTION OF VANASPATI(VEGETABLE)GHEE **INDESHI GHEE(MILK PRODUCT)**

Deshi ghee, which is a milk product is much costlier than vanaspati ghee. So, deshi ghee is often adulterated with vanaspati ghee. Vanaspati ghee contains sesame oil, which is not present in deshi ghee. Sesame oil reacts with the mixture of conc. HCL and furfural solution to produce rose red colour. This test is known as Baudoiu test.

Reagent: Concentrated HCL and 2% solution of furfural in alcohol.

Procedure: 5mL of melted ghee sample is taken in a test tube. 5mL of conc. HCL is added to it. Then 2-3 drops of 2% solution of furfural is added in alcohol. The mixture is shaken and is allowed to stand for about 10 minutes.

Detection: Appearance of rose red colour indicates the presence of vanaspati ghee in the ghee sample.

Table for different samples-

SL. NO.	SAMPLES	BATCH NO.	RESULT
1.	Amul ghee	11N307	Adulterant present.
2.	Annapurna ghee	M907B	Adulterant absent.



GHEE SAMPLES

DETECTION OF ARGEMONE OIL IN MUSTARD OIL

Argemone oil is a non-edible oil which is often used to adulterate vegetable oil or fat. Argemone oil can be easily detected by FeCl_3 solution test.

Reagent: Concentrated HCl, 10% FeCl_3 solution (dissolve 10g of anhydrous FeCl_3 in 10mL concentrated HCl and dilute to 100 mL with distilled water).

Procedure: In a test tube, 5mL of the mustard oil sample is taken and 2mL of conc HCl is added to it. Then it is shaken vigorously and is warmed in a little water bath for 5 minutes. It is shaken intermittently during warming. 1mL of 10% FeCl_3 solution is added and is mixed by rotating the test tube between the palms. The mixture is heated in a boiling water bath for about 10 minutes.

Detection: Reddish brown needle like crystals appear at the junction of the acid and oil, if argemone oil is present.

Table for different samples-

SL. NO.	SAMPLES	BATCH NO.	RESULT
1.	DHARA mustard oil	A3K02	Adulterant absent.
2.	ASSAM VALLEY pure mustard oil	07	Adulterant absent.
3.	Open sample	-----	Adulterant absent.



Sample-1



sample-3

OIL SAMPLES

DETECTION OF WASHING SODA, CHALK POWDER AND WATER INSOLUBLE SUBSTANCE IN SUGAR

Chalk powder is a water insoluble substance which is often used as a common adulterant in sugar. Moreover sugar is usually contaminated with washing soda.

a) Detection of various insoluble substances-

Reagent: concentrated H_2SO_4 , alcoholic solution of α -naphthol, dil HCl.

Procedure: A small amount of sugar is taken in a test tube and is shaken it with little water. Pure sugar dissolves in water but insoluble impurities do not dissolve.

Detection: Insoluble substances appear at the bottom of the test tube if they are present.

b) Detection of chalk powder, washing soda-

Reagent: dil. HCl

Procedure: To a small amount of sugar taken in a test tube, a few drops of dil. HCl is added and observed.

Detection: Brisk effervescence of CO_2 shows the presence of chalk powder or washing soda in the given sample of sugar.

Table for different samples-

SL.NO.	SAMPLES	BATCH NO	RESULT
1.	Open sample	-----	Adulterant present.
2.	Packed sample	-----	Adulterant absent.



Sample-1



sample-2

SUGAR SAMPLES

DETECTION OF RED COLOURED LEAD SALTS IN CHILLI POWDER

Chilli powder often adulterated with red are coloured lead salts n brick powders.

Reagents: dil HNO₃, KI

Procedure: To a sample of chilli powder dil.HNO₃ is added. The solution is filtered and a few drops of potassium iodide solution is added to the filtrate.

Detection: Yellow ppt. indicates the presence of lead salts in chilli powder and insoluble substances indicates the presence of brick powder in the sample.

Table for different samples-

SL.NO.	SAMPLES	BATCH NO.	RESULT
1.	MDH Chilli powder	B 17	Adulterant present.
2.	ADAMS chilli powder	CH 07	Adulterant present.



CHILLI POWDER SAMPLES

DETECTION OF KHESARI DAL IN BESON

Beson powder is usually adulterated with khesari dal which contains butyl oxalylalanine amine(BOAA) which causes lethargy and ultimate paralysis in lower limbs of human body on regular consumption. The detection of BOAA in beson powder indicates adulteration of it with khesari dal.

Reagents: dil. HCl

Procedure: To 1g of the beson sample is taken in a test tube and 10 mL of 70% HCl is added to it. The content is boiled for some time.

Detection: Development of pinkish colour indicates adulteration of beson with khesari dal

Table for different samples-

SL.NO.	SAMPLES	BATCH NO.	RESULT
1.	Open sample	-----	Adulterant present
2.	Packed sample	956G	Adulterant present.

CHAPTER- 3

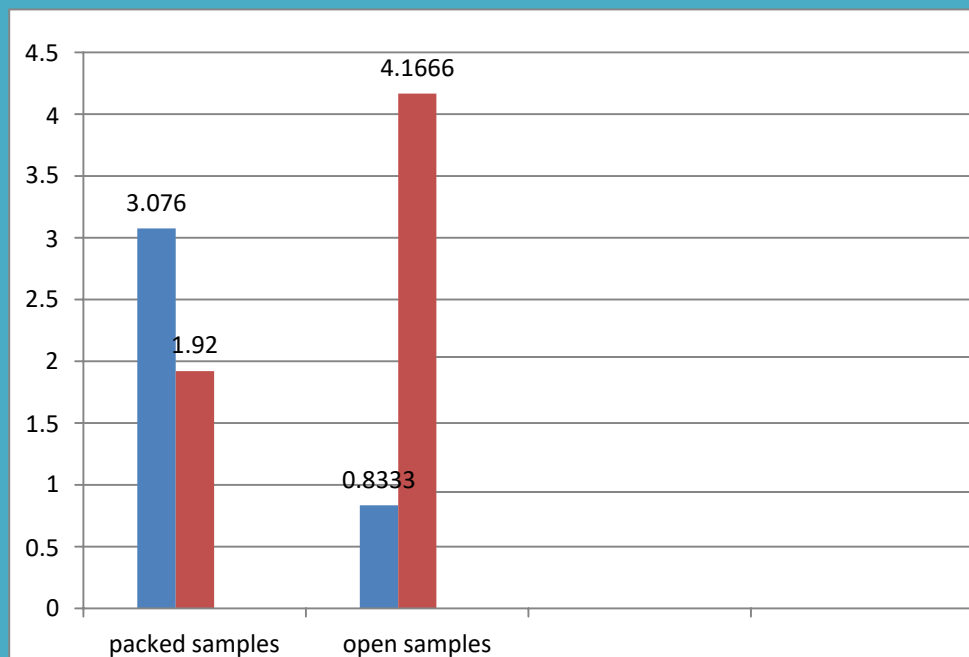
CONCLUSION

STATISTICAL ANALYSIS

CONCLUSION-

I have studied different chemical reactions involving in the process of detection of different adulterants in different food items. These experiments were performed for the purpose of detecting various adulterants present in common food. The results obtained during these experiments have been shown in this project. The experiments have been performed by common laboratory methods.

STATISTICAL ANALYSIS



ADULTERANT PRESENT  ADULTERANT

ABSENT 

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3. A Handbook Of CHEMISTRY PRACTICAL, D. GHOSH, Department of Chemistry, Arya Vidyapeeth College, Guwahati
4. Senior Secondary Practical Chemistry, Dr. KAMALESH CHOUDHURY, Dr. SATYENDRA KUMAR CHOUDHURY, Cotton College Guwahati
5. INTERNET.

Certificate course photos





STSN GOVT DEGREE COLLEGE, KADIRI
DEPARTMENT OF CHEMISTRY
ATTENDANCE SHEET

S.No	NAME OF THE STUDENT	GROUP	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33-35	36-38	39-41	42-44	45-47	48-50
1	A.Girija	2 nd B.ZC	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	B.Devika bai	2 nd B.ZC	/	/	/	/	/	/	/	/	/	/	/	/	/	/
3	J.Rajeswari	2 nd B.ZC	/	/	/	/	/	/	/	/	/	/	/	/	/	/
4	k.Dharani	2 nd B.ZC	/	/	/	/	/	/	/	/	/	/	/	/	/	/
5	G.Lakshmi	2 nd B.ZC	/	/	/	/	/	/	/	/	/	/	/	/	/	/
6	M.Lubna iram	2 nd B.ZC	/	/	/	/	/	/	/	/	/	/	/	/	/	/
7	K.Gangadri	2 nd B.ZC	/	/	/	/	/	/	/	/	/	/	/	/	/	/
8	M.Jagadeesh	2 nd B.ZC	/	/	/	/	/	/	/	/	/	/	/	/	/	/
9	D.saikumar	2 nd B.ZC	/	/	/	/	/	/	/	/	/	/	/	/	/	/
10	P.Karishma	2 nd B.ZC	/	/	/	/	/	/	/	/	/	/	/	/	/	/
11	P.Nagalakshmi	2 nd B.ZC	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12	M.Swetha	2 nd B.ZC	/	/	/	/	/	/	/	/	/	/	/	/	/	/
13	A.Siri chandana	2 nd C.ZS	/	/	/	/	/	/	/	/	/	/	/	/	/	/
14	M.Sruthi	2 nd C.ZS	/	/	/	/	/	/	/	/	/	/	/	/	/	/
15	N.Gayatri	2 nd C.ZS	/	/	/	/	/	/	/	/	/	/	/	/	/	/
16	T.Prathibha	2 nd C.ZS	/	/	/	/	/	/	/	/	/	/	/	/	/	/
17	B.Venkataramana	2 nd C.ZS	/	/	/	/	/	/	/	/	/	/	/	/	/	/
18	K.Raju	2 nd C.ZS	/	/	/	/	/	/	/	/	/	/	/	/	/	/
19	H.Mahantesh	2 nd C.ZS	/	/	/	/	/	/	/	/	/	/	/	/	/	/
20	V.vinaykumar naik	2 nd C.ZS	/	/	/	/	/	/	/	/	/	/	/	/	/	/

STSN GOVT DEGREE COLLEGE, KADIRI

DEPARTMENT OF CHEMISTRY

Student's particulars for the Certificate course

S.No	NAME OF THE STUDENT	GROUP	SIGNATURE	REMARKS
1	A.Girija	2 nd B.Z.C	A. Girija	
2	B.Devika bai	2 nd B.Z.C	B. Devika Bai	
3	J.Rajeswari	2 nd B.Z.C	J. Rajeswari	
4	k.Dharani	2 nd B.Z.C	K. Dharani	
5	G.Lakshmi	2 nd B.Z.C	G. Lakshmi	
6	M.Lubna iram	2 nd B.Z.C	M. Lubna iram	
7	K.Gangadri	2 nd B.Z.C	K. Gangadri	
8	M.Jagadeesh	2 nd B.Z.C	M. Jagadeesh	
9	D.saikumar	2 nd B.Z.C	D. Saikumar	
10	P.Karishma	2 nd B.Z.C	P. Karishma	
11	P.Nagalakshmi	2 nd B.Z.C	P. Nagalakshmi	
12	M.Swetha	2 nd B.Z.C	M. Swetha	
13	A.Siri chandana	2 nd C.Z.S	A. Siri Chandana	
14	M.Sruthi	2 nd C.Z.S	M. Sruthi	
15	N.Gayatri	2 nd C.Z.S	N. Gayatri	
16	T.Prathibha	2 nd C.Z.S	T. Prathibha	
17	B.Venkataramana	2 nd C.Z.S	B. Venkataramana	
18	K.Raju	2 nd C.Z.S	K. Raju	
19	H.Mahantesh	2 nd C.Z.S	H. Mahantesh	
20	V.vinaykumar naik	2 nd C.Z.S	V. Vinay	

21 S. H

22 R

P. S. S. S.

Question Paper

DEPARTMENT OF CHEMISTRY
STSN GOVT DEGREE COLLEGE, KADIRI
Certificate course Examination

Time: 1hr

Max.Marks:20

1. What is an Adulterant?
2. Which adulterants are used in fats, oils and butter?
3. Which adulterant is used in red chilli powder?
4. Which adulterant is used in turmeric powder?
5. Which adulterant is used in sugar?
6. Which adulterant is used in Ghee?
7. Which chemicals are used in detection of yellow dye in turmeric powder?
8. Which colour appears in baudoium test?
9. How can you detect if sugar is mixed with washing soda?
10. Which reagents are used when chilli powder is adulterated with lead salt?
11. How can you identify when papaya seeds mixed with pepper seeds?
12. Milk is adulterate with _____.
13. Adulteration of food causes _____.
14. Milk quality is tested by _____.
15. Adulteration of starch in milk is identified by _____.

REPORT ON COMPLETION OF CERTIFICATE COURSE

A certificate course was conducted by the Department of chemistry on "*Detection of adulterants in some common food stuff*" from 01-04-2022 to 30-04-2022. The course was completed as per the schedule. II B.Sc students (20) have participated in the certificate course. A test was also conducted to all the participants after the completion of the course and certificates were issued.


Lecturer in Chemistry
S.J.S.N.Govt. Degree College
KADIRI - 515 591
Sri Sathya Sai Dist.

Feed back x Report

- > The Certificate Course on "Detection of Adulterants in some common food stuff" is very useful for us
- > The tests are fast and reliable.
- > The Test cost almost nothing
- > Adulterants of the food items are traced out easily at home, even by a layman.
- > This knowledge is useful for further studies
- > students must care about adulteration on taking food stuff.
- > It is very much useful to create awareness among public,
- > It is helpful to build healthy Society by consuming unadulterated food only.

by
A. Giriga x Team

STSN GOVERNMENT COLLEGE, KADIRI
SRI SATYA SAI DISTRICT



DEPARTMENT OF HINDI
‘ONE MONTH SPOKEN-HINDI
CERTIFICATE COURSE ‘ -- 2021-22
1st & 2nd Year BA/BCOM/BSC

Permission Letter

From
Dr. Sat. Kumar
Leahiga Mahal
Dept. of Hindi
STSN GDC, Kadiri

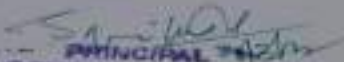
Dt. 25-3-22

To
The Principal
STSN GDC
Kadiri

Respected Madam,

I submit to state that Hindi Dept
is going to conduct Certificate Course on "Spoken-Hindi"
for III Sem. students from [04-04-22 to 07-05-22].
Hence, grant us permission to conduct Certificate
Course in Hindi for the benefit of the students.
Thanking you

Yours faithfully


PRINCIPAL
STSN GOVT DEGREE COLLEGE
KADIRI - 515 591
SRI BATHYA SAI(DNS)

Department of Hindi

Notice

Dt. 25-3-2022

It is hereby informed that Hindi Dept
is conducting one month Spoken-Hindi Certificate
Course from 04-04-2022 to 07-05-2022. Interested
students may enroll the course in Hindi Dept.


SMT. DR. K. CHANDIRA
Leahiga Mahal
STSN GDC
KADIRI, SRI BATHYA SAI(DNS)

List of the Student's Registered in 'One month Spoken-Hindi Certificate Course' are as following :

S.NO.	HALL TICKET NO.	STUDENT NAME	CLASS& GROUP	STUDENT SIGN.
1	2142005037001	B.Guru Basha	2 nd sem. BA[HEP]	B. Gurubasha
2	2142005028031	P.Arshiya	2 nd sem. BA[THP]	P.Arshiya
3	2142005028030	P.Husna Banu	2 nd sem. BA[THP]	P.husnabanu
4	2142005067021	M.Aishwarya	2 nd sem. BCOM[G]	M.Aishwarya
5	2142005066002	A.Somasekhar	2 nd sem. BCOM[CA]	A.Somasekhar
6	2142005066022	G.Venu Gopal	2 nd sem. BCOM[CA]	G.Venugopal
7	2142005066021	G.Rajeshwari	2 nd sem. BCOM[CA]	G.Rajeshwari
8	2142005066075	S.Shabeena	2 nd sem. BCOM[CA]	S.Shabeena
9	2142005066073	S.Vimala	2 nd sem. BCOM[CA]	S.Vimala
10	2142005066031	K.Khadar Basha	2 nd sem. BCOM[CA]	K.Khadar
11	2142005066036	K.Hari	2 nd sem. BCOM[CA]	K.Hari
12	2142005066044	M.Bharath	2 nd sem. BCOM[CA]	M.Bharath
13	2142005066046	M.Santhosh Naik	2 nd sem. BCOM[CA]	M.Santhosh Naik
14	2142005066065	S.Mahammed Irfan	2 nd sem. BCOM[CA]	S.Mahammed Irfan
15	2142005066064	S.Jilan Basha	2 nd sem. BCOM[CA]	S.Jilan Basha
16	2142005066092	V.Murali Naik	2 nd sem. BCOM[CA]	V.Murali Naik
17	2142005066074	S.Mohammad Faizan	2 nd sem. BCOM[CA]	S.Mohammad Faizan
18	2142005049030	S.K.Afrin	2 nd sem. BSC[BZC]	S.K.Afrin
19	2142005049044	S.Tasleema	2 nd sem. BSC[BZC]	S.Tasleema
20	2142005049018	K.Sofiya	2 nd sem. BSC[BZC]	K.Sofiya
21	2142005049037	S.Heena Arshiya	2 nd sem. BSC[BZC]	S.Heena Arshiya
22	2142005049048	T.Uha	2 nd sem. BSC[BZC]	T.Uha
23	2142005049038	S.Jaheda	2 nd sem. BSC[BZC]	S.Jaheda
24	2142005050006	D.Basheera Banu	2 nd sem. BSC[MPCS]	D.Basheera Banu
25	2142005050021	S.Noor Mohammed	2 nd sem. BSC[MPCS]	S.Noor Mohammed
26	2142005062019	P.Chandana	2 nd sem. BSC[CZS]	P.Chandana
27	2142005470019	P.Harshiya	2 nd sem. BSC[PML]	P.Harshiya
28	2142005470011	I.Pavankumar Naik	2 nd sem. BSC[PML]	I.Pavankumar Naik

Smt. Dr. K.CHANDRA
Lecturer in Hindi
STSN Govt. Degree College
KADIRI, Anantapuramu Dt.

S.T.S.N GOVT.DEGREE COLLEGE, KADIRI

DEPARTMENT OF HINDI

One Month Spoken-Hindi Certificate

Course (04.04.2022 to 07.05.2022)

Dt.04.04.22

Class & Group : 1st and 2nd Yr. BA/BCOM/BSC

Student's Participated : 28

Objective : To make student's learn Spoken-Hindi language.

Report : Hindi is National language of our Indian Country. So being of Andhra state, most of the students doesn't know Hindi language. So Hindi Department Conducted One month Spoken-Hindi Certificate Course for the benefit of the students from 04.04.22 to 07.05.22 .

Outcome : All Student's actively participated in the certificate course and they are able to speak and write Hindi.

Syllabus for the Certificate-course

1. Introduction of Hindi language
2. Varnamala
3. Barakhadi
4. Name of the Flowers
5. Name of the Vegetables
6. Name of the Fruits
7. Numbers(1to100)
8. Framing the sentences
9. Self introduction

Conducting the Spoken-Hindi classes.





S.T.S.N GDC, KADIRI

Dept. of Hindi

One Month SPOKEN-HINDI Certificate

Course Examination - May - 2022

Time:02hrs

Marks:50

I Write answers to all the following questions :

05×10=50M

1. Bhasha kise kahate hai ?
2. Rashtra bhasha Hindi ke mahatva ko likhiye .
3. Kinhi 10 fallon ke nam likhiye.
4. Kinhi 10 foollon ke nam likhiye.
5. Paanch vaakyon mein apna parichay dijiye.

Conducted Spoken-Hindi certificate course exam on 07.5.22

Students writing the exam.



Spoken–Hindi Certificate Course Certificate's Distribution by the Principal Dr. S. Smitha





CERTIFICATE COURSE ATTENDANCE SHEET 2021-2022

S.No	Name of the Students	Group / Sem	01/21	02/21	03/21	04/21	05/21	06/21	07/21	08/21	09/21	10/21	11/21	12/21	01/22	02/22	03/22	04/22	05/22	06/22	07/22	08/22	09/22	10/22	11/22	12/22	01/23	02/23	03/23	04/23	05/23	06/23	07/23	08/23	09/23	10/23	11/23	12/23	01/24	02/24	03/24	04/24	05/24	06/24	07/24	08/24	09/24	10/24	11/24	12/24	01/25	02/25	03/25	04/25	05/25	06/25	07/25	08/25	09/25	10/25	11/25	12/25	01/26	02/26	03/26	04/26	05/26	06/26	07/26	08/26	09/26	10/26	11/26	12/26	01/27	02/27	03/27	04/27	05/27	06/27	07/27	08/27	09/27	10/27	11/27	12/27	01/28	02/28	03/28	04/28	05/28	06/28	07/28	08/28	09/28	10/28	11/28	12/28	01/29	02/29	03/29	04/29	05/29	06/29	07/29	08/29	09/29	10/29	11/29	12/29	01/30	02/30	03/30	04/30	05/30	06/30	07/30	08/30	09/30	10/30	11/30	12/30	01/31	02/31	03/31	04/31	05/31	06/31	07/31	08/31	09/31	10/31	11/31	12/31	01/32	02/32	03/32	04/32	05/32	06/32	07/32	08/32	09/32	10/32	11/32	12/32	01/33	02/33	03/33	04/33	05/33	06/33	07/33	08/33	09/33	10/33	11/33	12/33	01/34	02/34	03/34	04/34	05/34	06/34	07/34	08/34	09/34	10/34	11/34	12/34	01/35	02/35	03/35	04/35	05/35	06/35	07/35	08/35	09/35	10/35	11/35	12/35	01/36	02/36	03/36	04/36	05/36	06/36	07/36	08/36	09/36	10/36	11/36	12/36	01/37	02/37	03/37	04/37	05/37	06/37	07/37	08/37	09/37	10/37	11/37	12/37	01/38	02/38	03/38	04/38	05/38	06/38	07/38	08/38	09/38	10/38	11/38	12/38	01/39	02/39	03/39	04/39	05/39	06/39	07/39	08/39	09/39	10/39	11/39	12/39	01/40	02/40	03/40	04/40	05/40	06/40	07/40	08/40	09/40	10/40	11/40	12/40	01/41	02/41	03/41	04/41	05/41	06/41	07/41	08/41	09/41	10/41	11/41	12/41	01/42	02/42	03/42	04/42	05/42	06/42	07/42	08/42	09/42	10/42	11/42	12/42	01/43	02/43	03/43	04/43	05/43	06/43	07/43	08/43	09/43	10/43	11/43	12/43	01/44	02/44	03/44	04/44	05/44	06/44	07/44	08/44	09/44	10/44	11/44	12/44	01/45	02/45	03/45	04/45	05/45	06/45	07/45	08/45	09/45	10/45	11/45	12/45	01/46	02/46	03/46	04/46	05/46	06/46	07/46	08/46	09/46	10/46	11/46	12/46	01/47	02/47	03/47	04/47	05/47	06/47	07/47	08/47	09/47	10/47	11/47	12/47	01/48	02/48	03/48	04/48	05/48	06/48	07/48	08/48	09/48	10/48	11/48	12/48	01/49	02/49	03/49	04/49	05/49	06/49	07/49	08/49	09/49	10/49	11/49	12/49	01/50	02/50	03/50	04/50	05/50	06/50	07/50	08/50	09/50	10/50	11/50	12/50	01/51	02/51	03/51	04/51	05/51	06/51	07/51	08/51	09/51	10/51	11/51	12/51	01/52	02/52	03/52	04/52	05/52	06/52	07/52	08/52	09/52	10/52	11/52	12/52	01/53	02/53	03/53	04/53	05/53	06/53	07/53	08/53	09/53	10/53	11/53	12/53	01/54	02/54	03/54	04/54	05/54	06/54	07/54	08/54	09/54	10/54	11/54	12/54	01/55	02/55	03/55	04/55	05/55	06/55	07/55	08/55	09/55	10/55	11/55	12/55	01/56	02/56	03/56	04/56	05/56	06/56	07/56	08/56	09/56	10/56	11/56	12/56	01/57	02/57	03/57	04/57	05/57	06/57	07/57	08/57	09/57	10/57	11/57	12/57	01/58	02/58	03/58	04/58	05/58	06/58	07/58	08/58	09/58	10/58	11/58	12/58	01/59	02/59	03/59	04/59	05/59	06/59	07/59	08/59	09/59	10/59	11/59	12/59	01/60	02/60	03/60	04/60	05/60	06/60	07/60	08/60	09/60	10/60	11/60	12/60	01/61	02/61	03/61	04/61	05/61	06/61	07/61	08/61	09/61	10/61	11/61	12/61	01/62	02/62	03/62	04/62	05/62	06/62	07/62	08/62	09/62	10/62	11/62	12/62	01/63	02/63	03/63	04/63	05/63	06/63	07/63	08/63	09/63	10/63	11/63	12/63	01/64	02/64	03/64	04/64	05/64	06/64	07/64	08/64	09/64	10/64	11/64	12/64	01/65	02/65	03/65	04/65	05/65	06/65	07/65	08/65	09/65	10/65	11/65	12/65	01/66	02/66	03/66	04/66	05/66	06/66	07/66	08/66	09/66	10/66	11/66	12/66	01/67	02/67	03/67	04/67	05/67	06/67	07/67	08/67	09/67	10/67	11/67	12/67	01/68	02/68	03/68	04/68	05/68	06/68	07/68	08/68	09/68	10/68	11/68	12/68	01/69	02/69	03/69	04/69	05/69	06/69	07/69	08/69	09/69	10/69	11/69	12/69	01/70	02/70	03/70	04/70	05/70	06/70	07/70	08/70	09/70	10/70	11/70	12/70	01/71	02/71	03/71	04/71	05/71	06/71	07/71	08/71	09/71	10/71	11/71	12/71	01/72	02/72	03/72	04/72	05/72	06/72	07/72	08/72	09/72	10/72	11/72	12/72	01/73	02/73	03/73	04/73	05/73	06/73	07/73	08/73	09/73	10/73	11/73	12/73	01/74	02/74	03/74	04/74	05/74	06/74	07/74	08/74	09/74	10/74	11/74	12/74	01/75	02/75	03/75	04/75	05/75	06/75	07/75	08/75	09/75	10/75	11/75	12/75	01/76	02/76	03/76	04/76	05/76	06/76	07/76	08/76	09/76	10/76	11/76	12/76	01/77	02/77	03/77	04/77	05/77	06/77	07/77	08/77	09/77	10/77	11/77	12/77	01/78	02/78	03/78	04/78	05/78	06/78	07/78	08/78	09/78	10/78	11/78	12/78	01/79	02/79	03/79	04/79	05/79	06/79	07/79	08/79	09/79	10/79	11/79	12/79	01/80	02/80	03/80	04/80	05/80	06/80	07/80	08/80	09/80	10/80	11/80	12/80	01/81	02/81	03/81	04/81	05/81	06/81	07/81	08/81	09/81	10/81	11/81	12/81	01/82	02/82	03/82	04/82	05/82	06/82	07/82	08/82	09/82	10/82	11/82	12/82	01/83	02/83	03/83	04/83	05/83	06/83	07/83	08/83	09/83	10/83	11/83	12/83	01/84	02/84	03/84	04/84	05/84	06/84	07/84	08/84	09/84	10/84	11/84	12/84	01/85	02/85	03/85	04/85	05/85	06/85	07/85	08/85	09/85	10/85	11/85	12/85	01/86	02/86	03/86	04/86	05/86	06/86	07/86	08/86	09/86	10/86	11/86	12/86	01/87	02/87	03/87	04/87	05/87	06/87	07/87	08/87	09/87	10/87	11/87	12/87	01/88	02/88	03/88	04/88	05/88	06/88	07/88	08/88	09/88	10/88	11/88	12/88	01/89	02/89	03/89	04/89	05/89	06/89	07/89	08/89	09/89	10/89	11/89	12/89	01/90	02/90	03/90	04/90	05/90	06/90	07/90	08/90	09/90	10/90	11/90	12/90	01/91	02/91	03/91	04/91	05/91	06/91	07/91	08/91	09/91	10/91	11/91	12/91	01/92	02/92	03/92	04/92	05/92	06/92	07/92	08/92	09/92	10/92	11/92	12/92	01/93	02/93	03/93	04/93	05/93	06/93	07/93	08/93	09/93	10/93	11/93	12/93	01/94	02/94	03/94	04/94	05/94	06/94	07/94	08/94	09/94	10/94	11/94	12/94	01/95	02/95	03/95	04/95	05/95	06/95	07/95	08/95	09/95	10/95	11/95	12/95	01/96	02/96	03/96	04/96	05/96	06/96	07/96	08/96	09/96	10/96	11/96	12/96	01/97	02/97	03/97	04/97	05/97	06/97	07/97	08/97	09/97	10/97	11/97	12/97	01/98	02/98	03/98	04/98	05/98	06/98	07/98	08/98	09/98	10/98	11/98	12/98	01/99	02/99	03/99	04/99	05/99	06/99	07/99	08/99	09/99	10/99	11/99	12/99	01/100	02/100	03/100	04/100	05/100	06/100	07/100	08/100	09/100	10/100	11/100	12/100	01/101	02/101	03/101	04/101	05/101	06/101	07/101	08/101	09/101	10/101	11/101	12/101	01/102	02/102	03/102	04/102	05/102	06/102	07/102	08/102	09/102	10/102	11/102	12/102	01/103	02/103	03/103	04/103	05/103	06/103	07/103	08/103	09/103	10/103	11/103	12/103	01/104	02/104	03/104	04/104	05/104	06/104	07/104	08/104	09/104	10/104	11/104	12/104	01/105	02/105	03/105	04/105	05/105	06/105	07/105	08/105	09/105	10/105	11/105	12/105	01/106	02/106	03/106	04/106	05/106	06/106	07/106	08/106	09/106	10/106	11/106	12/106	01/107	02/107	03/107	04/107	05/107	06/107	07/107	08/107	09/107	10/107	11/107	12/107	01/108	02/108	03/108	04/108	05/108	06/108	07/108	08/108	09/108	10/108	11/108	12/108	01/109	02/109	03/109	04/109	05/109	06/109	07/109	08/109	09/109	10/109	11/109	12/109	01/110	02/110	03/110	04/110	05/110	06/110	07/110	08/110	09/110	10/110	11/110	12/110	01/111	02/111	03/111	04/111	05/111	06/111	07/111	08/111	09/111	10/111	11/111	12/111	01/112	02/112	03/112	04/112	05/112	06/112	07/112	08/112	09/112	10/112	11/112	12/112	01/113	02/113	03/113	04/113	05/113	06/113	07/113	08/113	09/113	10/113	11/113	12/113	01/114	02/114	03/114	04/114	05/114	06/114	07/114	08/114	09/114	10/114	11/114	12/114	01/115	02/115	03/115	04/115	05/115	06/115	07/115	08/115	09/115	10/115	11/115	12/115	01/116	02/116	03/116	04/116	05/116	06/116	07/116	08/116	09/116	10/116	11/116	12/116	01/117	02/117	03/117	04/117	05/117	06/117	07/117	08/117	09/117	10/117	11/117	12/117	01/118	02/118	03/118	04/118	05/118	06/118	07/118	08/118	09/118	10/118	11/118	12/118	01/119	02/119	03/119	04/119	05/119	06/119	07/119	08/119	09/119	10/119	11/119	12/119	01/120	02/120	03/120	04/120	05/120	06/120	07/120	08/120	09/120	10/120	11/120	12/120	01/121	02/
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Certificate course – Time Table

S.NO	DATE	TOPIC COVERED
1	04-04.2022	Inauguration of One month Certificate-Course
2	05.04.2022	Introduction & importance of Hindi language
3	06.04.2022	Hindi language- Varnamala
4	07.04.2022	Hindi language- Varnamala
5	08.04.2022	Barakhadi - ka,cha varg
6	09.04.2022	Barakhadi – ta,tha varg
7	11.04.2022	Barakhadi – pa,ya varg
8	12.04.2022	Barakhadi – sha to gya
9	13.04.2022	Writing and saying the names of the Flowers in Hindi
10	16.04.2022	Writing and saying the names of the Flowers in Hindi
11	18.04.2022	Writing and saying the names of the Flowers in Hindi
12	19.04.2022	Writing and saying the names of the Vegetables in Hindi
13	20.04.2022	Writing and saying the names of the Vegetables in Hindi
14	21.04.2022	Writing and saying the names of the Vegetables in Hindi
15	22.04.2022	Writing and saying the names of the Fruits in Hindi
16	23.04.2022	Writing and saying the names of the Fruits in Hindi
17	25.04.2022	Writing and saying the names of the Fruits in Hindi
18	26.04.2022	Writing numbers in Hindi – 1 to 30
19	27.04.2022	Writing by saying numbers in Hindi – 31 to 60
20	28.04.2022	Writing by saying numbers in Hindi – 61 to 80
21	29.04.2022	Writing Numbers in Hindi – 81 to 100
22	30.04.2022	Telling Self-Introduction in Hindi
23	02.05.2022	Writing the self introduction in Hindi
24	04.05.2022	Making the small sentences in Hindi
25	05.05.2022	Making the small sentences in Hindi
26	06.05.2022	Written Exam
27	07.05.2022	Distribution of the Certificate's

Student's Feed Back 2021-22

1. One month Spoken-Hindi Certificate course conducted by Hindi Dept. is very interesting and useful for us.
2. Academically we all benefitted by this programme and learnt Spoken-Hindi.
3. Now we are able to Understand, speak and write Hindi language properly.

by —

B. Gurubacha	Ind Sem. En
M. Atchawastya	Ind Sem. B-com
A. Samikant	Ind Sem. B-com
St. Abhin	Ind Sem. Bze
J. Bashora	Ind Sem. MPES
P. Chandana	Ind Sem. CZE
P. Harshiya	Ind Sem. Law

DEPARTMENT OF POLITICAL SCIENCE

URDU MEDIUM

STSN.GOV'T DEGREE COLLEGE KADIRI.



CERTIFICATE COURSE

IN

URDU CALLIGRAPHY

DEPARTMENT OF POLITICAL SCIENCE
URDU MEDIUM

STSN GOVT DEGREE COLLEGE KADIRI.
SRI SATYA SAI (DIST) A.P

CERTIFICATE COURSE TIME TABLE

S/NO	DATE	TOPIC COURSE	NAME OF THE RESOURCE PERSON
1	01/06/22 To 09/06/22	Meaning and Definition Of Calligraphy (Practice)	N. DILDAR BASHA Lecturer in Political Science Urdu
2	10/06/22 To 20/06/22	Meaning and Nature of Nastaaleeq (Practice)	N. DILDAR BASHA Lecturer in Political Science Urdu
3	21/06/22 To 30/06/22	Meaning and Nature of Qatatee & Types of qat Macci, Madeni, Irani. (Practice)	N. DILDAR BASHA Lecturer in Political Science Urdu

STSN GOVT DEGREE COLLEGE KADIRI.



DEPARTMENT OF POLITICAL SCIENCE URDU MEDIUM

Certificate Course in Calligraphy

Duration 1 month from 01/06/22 to 30/06/22

Along with five units

Unit -I

Nastaliq :- Basic knowledge of calligraphy.

Unit -II

Qatati:- How to use qatatee& various qat.

Unit -III

Unit -III

Types calligraphy :- Macci, Madeni, Irani.



Course outcomes

After completion of the course student will be able to do.

- 1.** Apply knowledge and skills of Calligraphy.
- 2.** He can get the job in press.
- 3.** He can get the job in press.
- 4.** They can write the Holy books like Quraan and Ahadees.
- 5.** Developing the awareness among the people/ society. Apply this knowledge to their future studies



STSN GOVT DEGREE COLLEGE KADIRI SRI SATHYA DIST A.P

DEPARTMENT OF POLITICAL SCIENCE URDU

CERTIFICATE COURSE IN URDU CALLIGRAPHY

Department of Political Science Urdu prestigiously introduced one month certificate course in Calligraphy during the month of 01-june to 30th June. This course may be useful for students about practical aspects of printing press techniques. The student will get exposure of good designer and processing a good calligrapher. This course may be useful to the student in their life.



Course objectives

1. Student will get knowledge of Urdu Calligraphy and use their knowledge in important Institutions.
2. Student will be capable to write Holy books.
3. Student will be able to teach other students who are interested in Urdu Calligraphy.
4. Student will get jobs in Government/private sectors.

Permission Letter

From

Date: 30.05.2023.

Department of Political Science (URDU)
STSN GDC,
Kadiri.

To

The Principal
STSN GDC,
Kadiri.

Sub: Issue of permission to conduct certificate course reg...

Respected Madam,

I submit the following few lines for your kind consideration, Political Science (URDU) department is going to conduct Certificate course for III Year B.A Students from 01.06.2023 to 30.06.2023. Hence grant the permission.

Thanking you Madam

Yours faithfully,

Permitted



CIRCULAR

Date: 31.05.2023.

The is to inform that Political Science(Urdu) Department decided to conduct certificate on "Urdu Calligraphy" from 01.06.2023 to 30.06.2023 for III B.A (UHP) students. So enroll their names and pay the fee 150/- in the Department of Political Science (Urdu) on or before 01.06.2023.

Signature of the Urdu Lecturers



Resolution

Date: 30.05.2023.

It is resolved the Department of Political Science (Urdu) unanimously decided, to conduct a 30 days certificate course on "Urdu Calligraphy" for III B.A students of this college. The course schedule will be from 01.06.2023 to 30.06.2023. After successful completion of course an exam should be conducted in certificate course and distribution of certificates to the students. The course syllabus is attached to this copy.

A handwritten signature in blue ink, consisting of a stylized 'S' followed by 'L' and 'M' with a checkmark, underlined.

STSN Govt. Degree College, Kadiri

Department of Political Science (Urdu)

Attendance sheet

S.No	Name of the student	Group	Signature	Remarks
1	B.S. Salma	UHP	B. S. Salma	
2	G. Rashida	UHP	G. Rashida	
3	S. pyari	UHP	S. Pyari	
4	S. Roohi	UHP	S. Roohi	
5	S. Shabreen	UHP	S. Shabreen	
6	S. Salma	UHP	S. Salma	
7	S. Moulabi	UHP	S. Moulabi	
8	S. Madiha	UHP	S. Madiha	
9	Syeda. Nasreen	UHP	S. Nasreen	
10	R. Samreen Taj	UHP	R. Samreen Taj	
11	K. Raghini	UHP	K. Raghini	
12	S. Afsoza	UHP	S. Afsoza	
13	S. Afsana	UHP	S. Afsana	
14	M. Shabber	UHP	M. Shabber	
15	M. Muskan	UHP	Muskan	
16	S. Md. Shadab	UHP	S. Shadab	
17	S. Azharuddin	UHP	S. Azharuddin	
18	K.S. Arshiya	UHP	K.S. Arshiya	
19	S. Khurama	UHP	K. Khurama	
20	S. Arshiya	UHP	S. Arshiya	

Department of Political Science (Urdu)

[illegible]

G.T.S. N. GDC KADIRI

Department of political Science Uva

Calligraphy

Certificates distribution names.

1. B.S. Salma.
2. Shaik pyavi.
3. Shaik Roohi.
4. Shaik Shabreen bano.
5. G.S. Rasheeda.
6. Shaik Salma.
7. M. Rafiya.
8. Shaik Noorabi.
9. Syeda Nazeen.
10. Shaik Afroz.
11. Shaik Hadika.
12. K. S. Arshiyar.
13. Shaik Khusham.
14. Shaik Arshiyar.
15. Shaik Mohammed Shadab.
16. Shaik Jaffar Sherif.
17. Shaik Dzharuddin.
18. K. Roohini.
19. G. Afroz.
20. R. Samreen Paj.

ضی or ق and Hindi for letters such as □, ^[citation needed]

History

The Urdu language emerged as a distinct register of Hindustani well before the Partition of India, and it is distinguished most by its extensive Persian influences (Persian having been the official language of the Mughal government and the most prominent lingua franca of the Indian subcontinent for several centuries prior to the solidification of British colonial rule during the 19th century). The standard Urdu script is a modified version of the Perso-Arabic script, expanded to accommodate the phonology of Hindustani. Despite the invention of the Urdu typewriter in 1911, Urdu newspapers continued to publish prints of handwritten scripts by calligraphers known as *katibs* or *khush-navees* until the late 1980s. The Pakistani national newspaper Daily Jang was the first Urdu newspaper to use *Nasta'liq* computer-based composition. There are efforts under way to develop more sophisticated and user-friendly Urdu support on computers and the internet. Nowadays, nearly all Urdu newspapers, magazines, journals, and periodicals are composed on computers via various Urdu software programs. Apart from being the more or the less Persianate, Urdu and Hindi are mutually intelligible.

Nasta'liq

The Nasta'liq calligraphic writing style began as a Persian mixture of scripts Naskh and Ta'liq. After the Mughal conquest, Nasta'liq became the preferred writing style for Urdu. It is the dominant style in Pakistan, and many Urdu writers elsewhere in the world use it. Nasta'liq is more cursive and flowing than its Naskh counterpart.

Alphabet

A list of the letters of the Urdu alphabet and their pronunciation is given below. Urdu contains many historical spellings from Arabic and Persian, and therefore has many irregularities. The Arabic letters *yaa* and *haa* both have two variants in Urdu: one of the *yaa* variants is used at the ends of words for the sound [c:], and one of the *haa* variants is used to indicate the aspirated consonants. The retroflex consonants needed to be added as well; this was accomplished by placing a small ٲ (toʔ) above the corresponding dental consonants. Several letters which represent distinct consonants in Arabic are conflated in Persian, and this has carried over to Urdu. This is the list of the Urdu letters, giving the consonant pronunciation. Some of these letters also represent vowel sounds.

ا	ب	پ	ت	ٹ	ث	ج	چ	ح	خ
alif	ba	pa	ta	ṭa	tha	ja	cha	ha	ha
د	ڈ	ز	ر	ڑ	ز	س	ش	ص	ض
da	ḍa	za	ra	ṛa	za	sa	sha	ṣa	ḍa
ط	ظ	ع	غ	ف	ق	ک	گ	ل	م
ṭa	ẓa	ʿa	gha	fa	qa	ka	ga	la	ma
ن	و	ہ	ھ	ی	ے				
na	wa	ha	ha	ya	ya				
۰	۱	۲	۳	۴	۵	۶	۷	۸	۹
0	1	2	3	4	5	6	7	8	9

The Urdu alphabet, with names in the Devanagari and Latin alphabets

No.	Letter	Name of letter	Transcription	IPA
1	ا	alif	ā, ʾ, –	/aː/, /ɪ/, /ʊ/
2	ب	ba	b	/b/
3	پ	pa	p	/p/
4	ت	ta	t	/t/
5	ٹ	ṭa	ṭ	/ʈ/
6	ث	tha	ṭh	/tʰ/
7	ج	ja	j	/d͡ʒ/
8	چ	ca	c	/t͡ʃ/
9	ح	haṣṣ	ḥ	/h/, /ɦ/
10	خ	xa	x	/x/
11	د	da	d	/d/
12	ڈ	ḍa	ḍ	/ɖ/
13	ز	za	z	/z/
14	ر	ra	r	/r/
15	ڑ	ṛa	ṛ	/ɽ/
16	س	sa	s	/s/
17	ش	sha	ṣ	/ʃ/
18	ص	ṣa	ṣ	/s/
19	ض	ḍaḍḍ	ḍ	/ɽ/
20	ط	ṭaṭṭ	ṭ	/tʰ/
21	ظ	ẓaẓẓ	ẓ	/tʰ/
22	ع	ʿa	ʿ	/ʔ/

23	ا	āf	ā	/a/
24	آ	ām	ā, ā, ā, ā	/ā:/, /ā:/, /ā:/, /ā:/, /ā:/
25	ب	bām	gh	/g/
26	پ	pā	f	/f/
27	ق	qāf	q	/q/
28	ک	kāf	k	/k/
29	گ	gāf	g	/g/
30	ل	lām	l	/l/
31	م	mām	m	/m/
32	ن	nām	n	/n/, /ŋ/, /ŋ/ or /g/
33	و	wāf	w, ā, ū, au or ō	/w/, /w/, /w:/, /w:/ or /w:/
34	ہ	hawāf hā	h	/h/ or /h/
35	ھ	hawāf hā	h	/h/ or /h/
36	ی	hamzā	‘, –	/ʔ/, /ʔ/
37	ے	chāf yā	y, i	/j/ or /i/
38	و	baaf yā	ā or ō	/ā:/, /ā:/ or /ā:/

Vowels

Vowels in Urdu are represented by letters that are also considered consonants. Many vowel sounds can be represented by one letter. Confusion can arise, but context is usually enough to figure out the correct sound.

Vowel chart

This is a list of Urdu vowels found in the initial, medial, and final positions.

Romanization	Pronunciation	Final	Medial	Initial
ā	/a/	ا	آ	ا
ā	/ā:/	آ	آ	آ
i	/i/	ی	ی	ی
ī	/ī:/	ی	ی	ی
u	/u/	و	و	و
ū	/ū:/	و	و	و
e	/e/	ے	ے	ے
ē	/ē:/	ے	ے	ے
o	/o/	و	و	و
ō	/ō:/	و	و	و

Urdu alphabet

Urdu alphabet اردو تہجی 	
Example of writing in the Urdu alphabet: <i>Urdu</i>	
Type	Abjad
Languages	Udu, Didi, Burushaski, others
Parent systems	Proto-Sinaitic - Phoenician - Aramaic - Nabataean - Arabic - Perso-Arabic - Urdu alphabet
Unicode range	U+0600 to U+06FF ^[1] U+0750 to U+07FF ^[2] U+FB50 to U+FDFF ^[3] U+FE70 to U+FEFF ^[4]

Urdu alphabet	
آ ا ب پ ت ث ج ح د ڈ ذ ر ز س ش ٹ ظ ط ف ق ک گ ل م ن و ی ء	
Extended Perso-Arabic script	
*	History
*	Diacritics
*	Hamza
*	Numerals
*	Numeration

The **Urdu alphabet** is the right-to-left alphabet used for the Urdu language. It is a modification of the Persian alphabet, which is itself a derivative of the Arabic alphabet. With 38 letters and no distinct letter cases, the Urdu alphabet is typically written in the calligraphic Nasta'liq script, whereas Arabic is more commonly in the Naskh style. Usually, bare transliterations of Urdu into Roman letters (called Roman Urdu) omit many phonemic elements that have no equivalent in English or other languages commonly written in the Latin script. The National Language Authority of Pakistan has developed a number of systems with specific notations to signify non-English sounds, but these can only be properly read by someone already familiar with Urdu, Persian, or Arabic for letters such as **ا** **آ** **پ**.







