

DEPARTMENT OF ZOOLOGY
STSN GOVT. DEGREE COLLEGE, KADIRI.

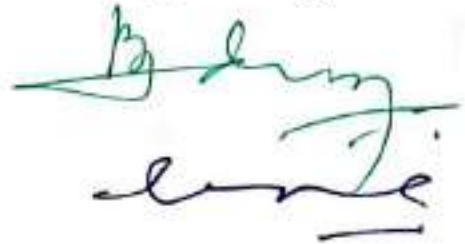
CERTIFICATE COURSE
IN
CLINICAL PATHOLOGY

RESOLUTION

DATE:01-09-2020

It is resolved that the department of zoology unanimously decided, to conduct a 30 days certificate Course in clinical pathology for the final year B.sc .B.Z.C&C.Z.S students of this college. The course schedule will be from 1st of sept, 2020 to 30th of sept 2020. After successful completion of course an online examination should be conducted in clinical pathology for both theory & practical and distribution of E-certificates to the students. The course syllabus is attached to this copy.

Faculty of Zoology



**STSN GOVERNMENT DEGREE COLLEGE :: KADIRI
ANANTAPURAMU DISTRICT, AP.
DEPARTMENT OF ZOOLOGY
CERTIFICATE COURSE IN CLINICAL PATHOLOGY**

Department of Zoology prestigiously introduced one month certificate course in clinical pathology during COVID-19 pandemic period. This course may be useful for students about practical aspects of clinical pathological techniques. The Student will get exposure of handling and processing pathology, clinical pathology, immunology, microbiology, 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 able to learn the hematological parameters and their standard values.
- > Students can inculcate 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 clinical pathology.
- Identify pathological processes 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.
- Develop awareness among all the people /society.
- Apply this knowledge to their future studies.

STSN GOVERNMENT DEGREE COLLEGE KADIRI

DEPARTMENT OF ZOOLOGY

CERTIFICATE COURSE IN CLINICAL PATHOLOGY

Duration: 1 month

Unit: 1

6 hours

రక్త అనుఘటనం- రక్త వ్యాధులు- అనీమియా- లుకేమియా -థాలిసీమియా-రక్త సముదాయాలు-రక్త సముదాయాల అనువంశికత -వివిధ రక్త పరీక్షలు- రక్త దానం- బ్లడ్ బ్యాంకులు-నిర్వహణ-రక్తం నిల్వ చేసే విధానం- రక్త స్పందనం

Unit: 2

6 hours

పరాన్నజీవులు -రకాలు -మలేరియా- మలేరియా పరాన్నజీవి తవిత చరిత్ర - చికిత్స- బోధకాలు-పువరేరియా తవిత చరిత్ర- చికిత్స -టీనియా సోలియం- ఫాషియాలా హాపాటిక-అస్కారిస్

Unit: 3

6 hours

బాక్టీరియా వ్యాధులు- వైరల్ వ్యాధులు- ప్రోటోజోవస్ వ్యాధులు-అనువంశిక వ్యాధులు- కాన్సర్లు- రకాలు- లక్షణాలు- కరోనా వ్యాప్తి- సంక్రమణ- అవగాహన- ఎయిడ్స్- సంక్రమణ- అవగాహన

Unit: 4

6 hours

PCR టెక్నిక్ - ఎలిసా- వెస్ట్రన్ బ్లాట్ - సదరస్ బ్లాట్- ఎలక్ట్రోఫోరీసిస్- ప్రథమ చికిత్స-భారతీయ వైద్య విదానాలు- పద్ధతులు

Unit: 5

6 hours

వ్యాధి నిరోధక వ్యవస్థ- వ్యాధి నిరోధక వ్యవస్థ లోని కణాలు- స్వీయ అసాంక్రామ్యత-టీకాలు-హైపర్ సెన్సిటివిటీ

LIST OF RESOURCE PERSONS.

1)Prof .J.S.Prakash

Prof. of Biotechnology
University of Hyderabad
Hyderabad .T.S

2).G.L.N.Prasad

HOD,Dept.of Zoology
Govt. College(A)
Ananthapuramu.

3).Dr.B.Sreedevi

Lecturer in Zoology
Govt.College(A)
Ananthapuramu

4).Dr.B.Prabhavathi

Lecturer in Zoology
Govt.College(A)
Ananthapuramu.

5).Dr.G.Rajasekhar

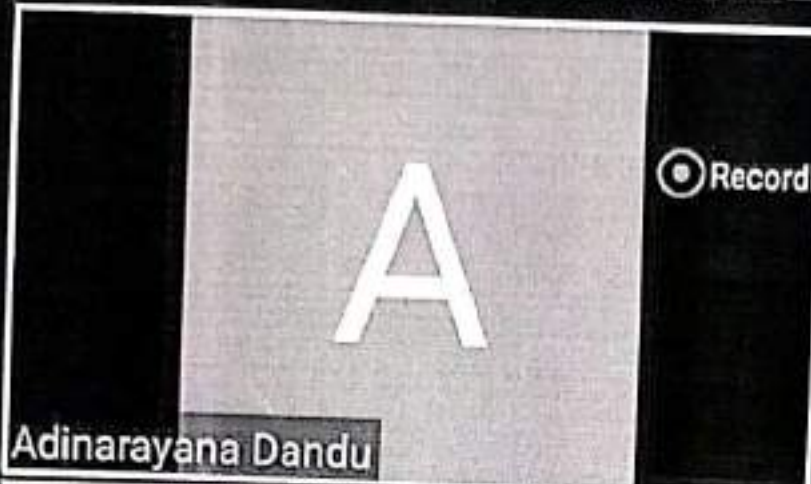
Lecturer in Zoology
Govt.college(A)
Ananthapuramu

6).Dr.P.Giridhar

Lecturer in Zoology
Govt.Degree college
Kalyandurg

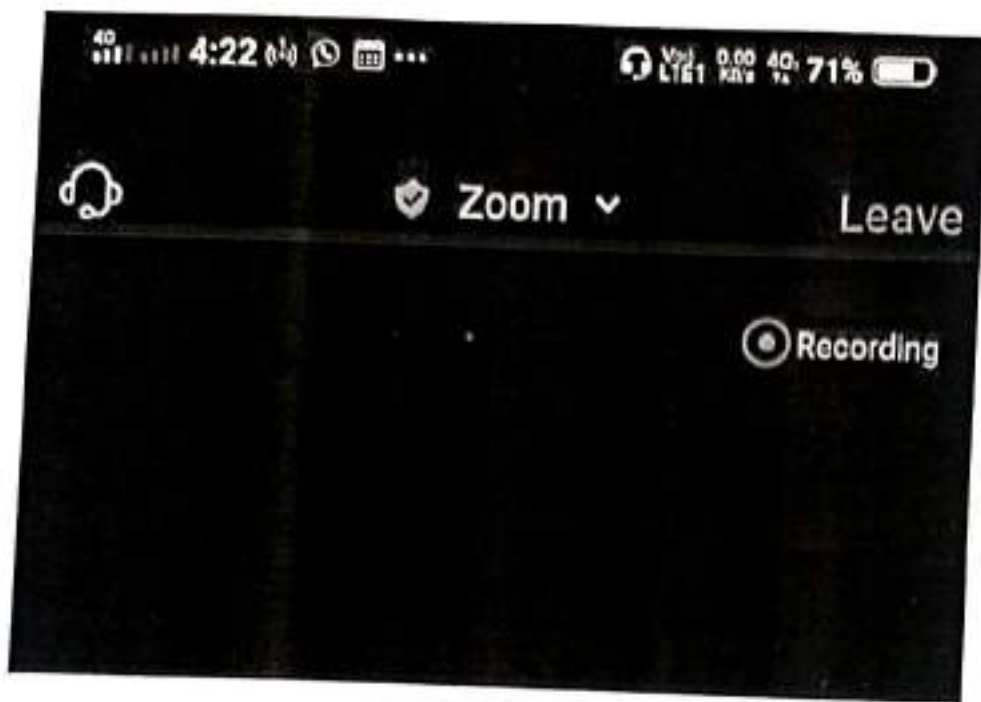
Certificate course-Timetable.

S.no	Date	Topic covered	Name of the Resource person
1	01.09.2020	Composition of Blood	Sri. G.L.N. Prasad
2	02.09.2020	Blood diseases	Sri. G.L.N. Prasad
3	03.09.2020	Blood groups -Inheritance	Sri. G.L.N. Prasad
4	04.09.2020	Blood tests and blood banks	Sri. G.L.N. Prasad
5	07.09.2020	Blood coagulation	Sri. G.L.N. Prasad
6	08.09.2020	Types of parasites,Lifecycle of Plasmodium and Clinical importance	Dr.P. Giridhar
7	09.09.2020	Wuchereria,Taenia solium	Dr.P.Giridhar
8	10.09.2020	Fasciola hepatica lifecycle and Clinical importance	Dr.P.Giridhar
9	11.09.2020	Bacterial diseases	Dr.B.Prabhavathi
10	14.09.2020	Virus and Protozoan diseases	Dr.B.Prabhavathi
11	15.09.2020	Genetical diseases and types of cancer	Dr.B.Prabhavathi
12.	16.09.2020	Corona and AIDS - Contamination and awareness	Dr.D.Adinarayana
13	17.09.2020	P C R	Prof.J.S.Prakash
14	18.09.2020	ELISA	Prof.J.S.Prakash
15	21.09.2020	Western blot ,Electro phoresis	Dr.G.Rajasekhar
16	22.09.2020	First aid- Indian medical treatment methods	Dr.G.Rajasekhar
17	23.09.2020	Types of immunity	Dr.B.Sreedevi
18	24.09.2020	Cells of immune system	Dr.B.Sreedevi
19	25.09.220	Organs of immune system	Dr.B.Sreedevi
20	26.09.2020	Auto immune diseases	Dr.B.Sreedevi
21	29.09.2020	Types of vaccines-functions	Dr.B.Sreedevi
22	30.09.2020	Hypersensitivity	Dr.B.Sreedevi

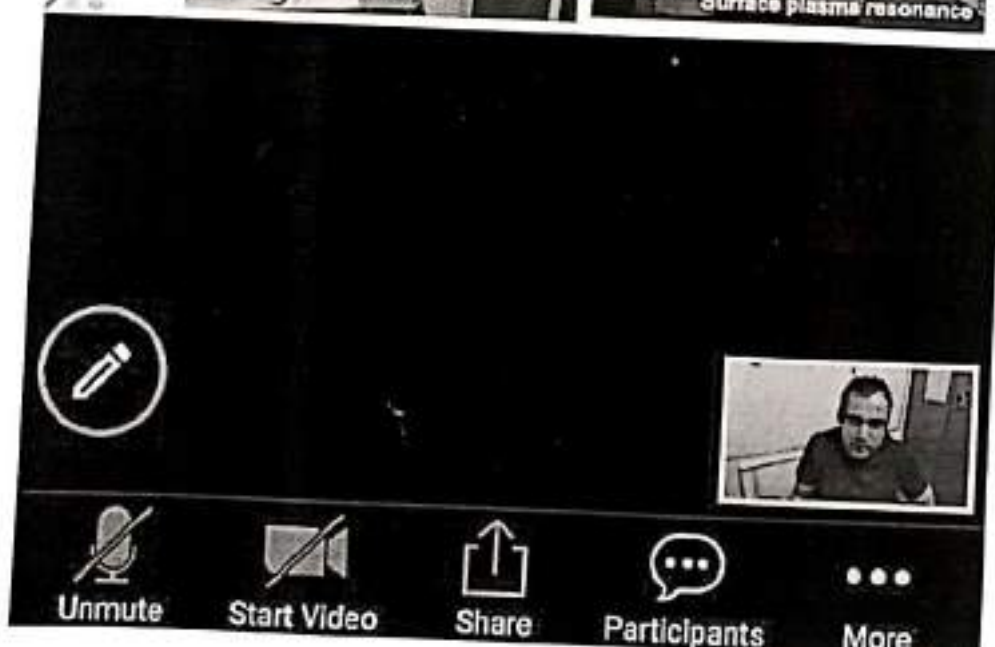


Recording





Genomics / Proteomics / metabolomics facility in School of Life Science

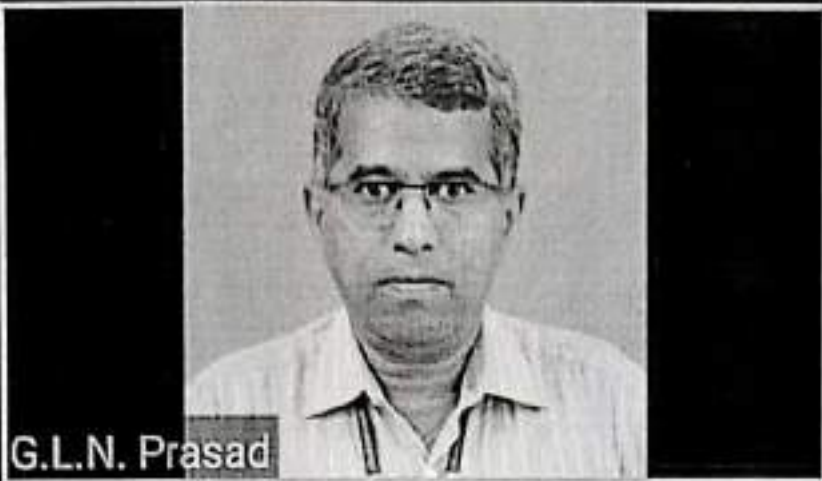


Close Participants (29)

Search

- A** Adinarayana Dandu (me)   >
-  G.L.N. Prasad (host)   >
- OA** OPPO A5s   >
- 7** 76725737370   >
- 7** 7DNUMG   >
- AL** A. Lakshmidevi   >
- AK** Anusha kalvapalli   >
- AA** Anwar Anwar   >
- BS** B. Sivanandini   >
- BS** Bandi Sravani   >
- C** Bhagya   >
- HY** Haritha vadav   >

Invite



A

Adinarayana Dandu



sreedevi basireddy



Pr Viswa



Narasimhulu



Lakshmi prasanna



Murali BOGE



K.swarna



Pr Viswa



Zoom

Leave

A

Adinarayana Dandu



prabhavathi B



OPPO A5S



B. Sivanandini



Unmute

Start Video

Share

Participants

More



STSN GOVERNMENT DEGREE COLLEGE
Kadiri, Anantapuramu Dt. AP.

Re-Accredited With 'B' Grade By NAAC
DEPARTMENT OF ZOOLOGY


CERTIFICATE OF COURSE COMPLETION



This is to certify that Kiran Kumar, Degree 2 year, SKU government college has successfully completed 30 days online certificate course on "Clinical pathology" Organised by Department of Zoology, STSN Government Degree College, Kadiri from 01.09.2020 to 30.09.2020.


Dr. D. Adinarayana
HOD, Dept. of Zoology
Course coordinator


C. Lakshmi Reddy
Lecturer in Zoology


K. Aravinda Reddy
Lecturer in Zoology


Dr. S. Smitha
PRINCIPAL

STSN GOVT DEGREE COLLEGE :: KADIRI, ANANTAPURAMU DIST. AP. DEPARTMENT OF ZOOLOGY- QUIZ

Dr. D. ADI NARAYANA
Lecturer in Zoology.

Certificate course on clinical pathology

* Required

Email address *

Your email

Name of the participant *

Your answer

Class / Designation *

Your answer

Name of the College *

Your answer



1. Study of Blood is called *

2 points

- Hematology
- Genetics
- Physiology
- Cytology

2. Life span of red blood cells *

2 points

- 120 hrs
- 120 days
- 100 days
- 110 days

3. Metal in the human blood. *

2 points

- Cu
- Ag
- Hg
- Fe

4. Following is the example for blood disease *

2 points

- Anemia
- Thyroidism
- Typhoid
- none

5. Blood cells which helps in blood coagulation *

2 points

- RBC
- WBC
- Platelets ✓
- None

6. Which parasite causes Malaria *

2 points

- Plasmodium ✓
- Entamoeba
- Taenia
- None

7. Larva of Wucheraria *

2 points

- Redia
- Microfilaria ✓
- Both A&B
- None

8. Symptoms of Ameobiasis *

2 points

- Ameobic Dysentery
- Watery & Bloody stools
- Severe stomachache
- All ✓

9. Diagnosis tests for corona / covid-19 *

2 points

- RT-PCR
- Anti body test
- Both A&B ✓
- None

10. Medicines/Drugs used for covid-19 *

2 points

- Hydroxy chloroquine
- Azithromycin
- Paracetamol
- All the above ✓

11. Symptoms of corona *

2 points

- Fever
- Dry cough
- Sore throat
- All ✓

12. Screening test for HIV /AIDS *

2 points

- ELISA ✓
- Western blot
- PCR
- None

13. Which of the following is bacterial disease *

2 points

- Small pox
- Cholera
- Mums
- All

14. Who invented PCR *

2 points

- Crick
- Darwin
- Thomson
- Kary mullis

15. Father of immunology *

2 points

- Lamark
- Mendel
- Edward Jenner
- None

16. Cells of immune system *

2 points

- B-lymphocytes
- T-lymphocytes
- NK-Cells
- All Of the above

17. Which vaccine is used for Tuberculosis *

2 points

- BCG ✓
- Polio
- Hepatitis
- DPT

18. Find the Genetical disease(s) *

2 points

- Sickle cell anemia
- Haemophilia
- Both A&B ✓
- Taeniasis

19. Use of SDS-PAGE Electrophoresis *

2 points

- Protein Separation ✓
- DNA Separation
- RNA separation
- None

20. Which type of hyper sensitivity reaction causes rapid anaphylaxis in response to allergen *

2 points

- Type-I ✓
- Type-II
- Type-III
- Type-IV

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ONLINE CERTIFICATE COURSE

Certificate issue register

Departement of Zoology

SNO	STUDENT NAME	GROUP	YEAR	SEMESTER	SIGNATURE
1.	Shaik. Roshini	B2c	<u>III</u>	<u>V</u>	S. Roshini
2.	A. Himasekhar	B2c	<u>III</u>	<u>V</u>	A. Himasekhar
3.	C. Malleswari	B2c	<u>III</u>	<u>V</u>	C. Malleswari
4.	D. Swetha	B2c	<u>III</u>	<u>V</u>	D. Swetha
5.	K. Anush	B2c	<u>III</u>	<u>V</u>	K. Anush
6.	P. Mounika	B2c	<u>III</u>	<u>V</u>	P. Mounika
7.	U. Vanaja	B2c	<u>III</u>	<u>V</u>	U. Vanaja
8.	S. Aysha	B2c	<u>III</u>	<u>V</u>	S. Aysha
9.	S. Venugopal	B2c	<u>III</u>	<u>V</u>	S. Venugopal
10.	V. Bhaskar	B2c	<u>III</u>	<u>V</u>	V. Bhaskar
11.	D. Prema latha	B2c	<u>III</u>	<u>V</u>	D. Prema latha
12.	C. Sai Teja	B2c	<u>III</u>	<u>V</u>	C. Sai Teja
13.	J. Hareetha	B2c	<u>III</u>	<u>V</u>	J. Hareetha
14.	J. Lavanya	B2c	<u>III</u>	<u>V</u>	J. Lavanya
15.	K. Jyothi	B2c	<u>III</u>	<u>V</u>	K. Jyothi
16.	U. Kiran Kumar	B2c	<u>III</u>	<u>V</u>	U. Kiran Kumar
17.	P. Chaitra	B2c	<u>III</u>	<u>V</u>	P. Chaitra
18.	V. Chandrakala	B2c	<u>III</u>	<u>V</u>	V. Chandrakala
19.	V. Reddamma	B2c	<u>III</u>	<u>V</u>	V. Reddamma
20.	M. Prasanthi	B2c	<u>III</u>	<u>V</u>	M. Prasanthi

B. D. M. J.

ONLINE CERTIFICATE COURSE
Certificate issue register

SNO	STUDENT NAME	GROUP	YEAR	SEMESTER	SIGNATURE
21	Shaik. Sahel	B2C	<u>III</u>	<u>V</u>	S. Sahel
22	K. Vijay Kumar	B2C	<u>III</u>	<u>V</u>	K. Vijay Kumar
23	K. Sai nath	B2C	<u>III</u>	<u>V</u>	K. Sai nath
24	P. Balu	B2C	<u>III</u>	<u>V</u>	P. Balu
25	J. Jyothi	B2C	<u>III</u>	<u>V</u>	J. Jyothi
26	N. Shilpa	B2C	<u>III</u>	<u>V</u>	N. Shilpa
27	N. praveenkumar	B2C	<u>III</u>	<u>V</u>	N. Praveen
28	N. Lakshmi prasanna	B2C	<u>III</u>	<u>V</u>	N. Lakshmi Prasanna
29	Y. Haritha	B2C	<u>III</u>	<u>V</u>	Y. Haritha
30	T. Purnashobham	B2C	<u>III</u>	<u>V</u>	T. Purnashobham
31	A. Varalakshmi	B2C	<u>III</u>	<u>V</u>	A. Varalakshmi
32	N. Kalpana	B2C	<u>III</u>	<u>V</u>	N. Kalpana
33	N. Lakshmi prasanna	B2C	<u>III</u>	<u>V</u>	N. Lakshmi Prasanna

B. J. J.



**S.T.S.N. Govt. Degree College
KADIRI - 515591
Ananthapuramu Dt.**



Minutes of the Meeting

Date: 11.12.2020

Time: 10 AM

Location: S.T.S.N. GDC, Kadiri.

Names of Attendees: Dr. K.Sreedevi, HOD, Lecturer in Botany.

Kum. V.Roja rani, Guest Faculty in Botany.

Agenda:

1. Discussion on the Certificate Course in "Aloe vera Gel Preparation" at the Department of Botany, STSN GDC, Kadiri.
2. Planning and coordination of activities related to the course.
3. Setting objectives and expectations for the course.
4. Allocation of responsibilities among the team members.
5. Deciding on the schedule and dates for the course (from 16.12.2020 to 08.01.2021).

Certificate Course in "Aloe vera Gel Preparation"

Objective of the Course: The objective of the course is to provide participants with comprehensive knowledge and practical skills in the cultivation, processing, and quality control of Aloe vera gel.

Planning and Coordination: The team discussed the overall plan for the course, including lecture schedules, practical sessions, and field visits.

Setting Objectives and Expectations: Participants should gain a thorough understanding of Aloe vera cultivation, gel extraction, quality control measures, and business aspects. Emphasis on hands-on experience during practical sessions.

Responsibilities: Responsibilities were assigned to team members for various aspects of the course, including lectures, practical sessions, and administrative tasks.

Schedule and Dates: The course will run from 16.12.2020 to 08.01.2021, with specific modules and activities planned for each day.

Course Modules: The course modules and topics was discussed and finalized.

Materials and Resources: Ensuring availability of required materials, including Aloe vera plants, processing equipment, and documentation.

Evaluation and Certification: The team discussed the evaluation criteria for participants and the certification process upon completion of the course.

S. Sathya Sai

PRINCIPAL
STSN Govt. DEGREE COLLEGE
KADIRI - 515 591

K. Sree Devi

Dr. K. Sreedevi
HOD, Dept. of Botany
STSN GDC, Kadiri




Letter

To
The Principal,
STSN GDC,
Kadiri.

Subject: Request for Permission to Conduct Certificate Course in "Aloe Vera Gel Preparation"

Respected Madam,

I am happy to request your kind permission to conduct a Certificate Course in "Aloe Vera Gel Preparation" at STSN Government Degree College, Kadiri. The course will be organized by the Department of Botany, from 16.12.2020 to 08.01.2021. The primary objective of this course is to provide participants with a comprehensive understanding of Aloe Vera cultivation, processing, and the preparation of high-quality Aloe Vera gel.

Thank you for your time and consideration. We look forward to your positive response.

K. Sree Devi

Dr. K. Sreedevi,
Head of the Department,
Lecturer in Botany.

3
Date:11-12-2020

CIRCULAR

The prestigious Botany Department of STSN GDC, Kadiri proudly announces the novel launch of add-on certificate course on "*Aloe-Vera Gel Preparation*" and its medical importance.

Use of aloe vera

Two substances from Aloe vera – a clear gel and its yellow latex – are used to manufacture commercial products. Aloe gel typically is used to make topical medications for **skin** conditions, such as **burns**, wounds, frostbite, rashes, psoriasis, cold sores, or dry **skin**.

Hence the interested students of all groups can contact Dr. K.Sree Devi, Head of the Department of Botany on or before 15-12-2020.

Dr. K. Sree Devi
Signature

Signatures

1) V. Roja Rani III BZC

2) 

3) 

4)

5)

6)

7)



Time Time – Action Plan

Every Day Two Hours: Morning Session: 9-10 AM ; Evening Session: 4-5 PM

S.No.	Date	Topic
1	15.12.2020	Registration
2	16.12.2020 FN	Introduction to the <i>Aloe vera</i> plant
3	16.12.2020 AN	Classification and family - Key botanical features
4	17.12.2020 FN	Morphology of Plant
5	17.12.2020 AN	Geographical Distribution and Cultivation
6	18.12.2020 FN	Native regions and global distribution
7	18.12.2020 AN	Ideal climate conditions for cultivation
8	19.12.2020 FN	Traditional uses of <i>Aloe Vera</i>
9	19.12.2020 AN	Nutritional Composition
10	21.12.2020 FN	Analysis of key nutrients in <i>Aloe vera</i>
11	21.12.2020 AN	Health benefits of <i>Aloe Vera</i> consumption
12	22.12.2020 FN	Role of <i>Aloe vera</i> in wellness
13	22.12.2020 AN	Overview of different <i>Aloe vera</i> varieties
14	23.12.2020 FN	Selecting suitable varieties for cultivation
15	23.12.2020 AN	Propagation Techniques - Vegetative propagation techniques
16	24.12.2020 FN	Crop Management - Watering and irrigation strategies
17	24.12.2020 AN	Pest and disease management in <i>Aloe vera</i> cultivation
18	28.12.2020 FN	Determining the right time for harvesting
19	28.12.2020 AN	Harvesting techniques to preserve plant health
20	29.12.2020 FN	Post-harvest handling and transportation
21	29.12.2020 AN	Cleaning and washing leaves
22	30.12.2020 FN	Importance of hygiene in processing
23	30.12.2020 AN	Gel Extraction Methods - Techniques for extracting high-quality gel
24	02.01.2021 FN	Filtration and purification processes
25	02.01.2021 AN	Filleting methods for gel extraction
26	04.01.2021 FN	Natural preservatives for <i>Aloe vera</i> gel
27	04.01.2021 AN	Blending <i>Aloe vera</i> with other ingredients - Practical Session
28	05.01.2021 FN	Gel Preparation session 1 - Practical Session
29	05.01.2021 AN	Gel Preparation session 2 - Practical Session
30	06.01.2021 FN	Gel Preparation session 3 - Practical Session
31	07.01.2021 FN	Gel Preparation session 4 - Practical Session
32	08.01.2021 FN	Assessment and Feedback collection



STSN Govt. Degree College, Kadiri
Anantapuram, Andhra Pradesh



Certificate Course in "Aloe vera Gel Preparation" Syllabus

Module 1: Introduction to *Aloe vera* Plant

- Introduction to the *Aloe vera* plant
- Classification and family - Key botanical features
- Geographical Distribution and Cultivation
- Native regions and global distribution
- Ideal climate conditions for cultivation

Module 2: Uses and Significance

- Traditional uses of *Aloe Vera*
- Nutritional Composition
- Analysis of key nutrients in *Aloe vera*
- Health benefits of Aloe Vera consumption
- Role of *Aloe vera* in wellness

Module 3: *Aloe vera* Cultivation and Harvesting

- Overview of different *Aloe vera* varieties
- Selecting suitable varieties for cultivation
- Propagation Techniques - Vegetative propagation techniques
- Crop Management - Watering and irrigation strategies
- Pest and disease management in *Aloe vera* cultivation

Module 4: Harvesting *Aloe vera* Leaves

- Determining the right time for harvesting
- Harvesting techniques to preserve plant health
- Post-harvest handling and transportation
- Cleaning and washing leaves
- Importance of hygiene in processing

Module 5: *Aloe vera* Gel Processing

- Gel Extraction Methods - Techniques for extracting high-quality gel
- Filtration and purification processes
- Filleting methods for gel extraction
- Natural preservatives for *Aloe vera* gel
- Blending *Aloe vera* with other ingredients

STSN Government Degree College, Kadiri
Department of Botany

Sl.no	Name	Course	Mobile No.	Signature
1	N. Lakshmi Prasanna	III B.ZC	6304789719	N. Lakshmi Prasanna
2	V. Chandrakala	III B.ZC	9392464103	V. Chandrakala
3	K. Jagadeesh	III B.ZC	6304907602	K. Jagadeesh
4	V. Bhaskar	III B.ZC	9505804211	V. Bhaskar
5	S. Sahel	III B.ZC	8919762858	S. Sahel
6	V. Reddamma	III B.ZC	8374408942	V. Reddamma
7	K. Anusha	III B.Z.C	9182877130	K. Anusha
8	P. Bhuvaneswari	III B.Z.C	9154446053	P. Bhuvaneswari
9	P. Sai Lakshmi	III B.Z.C	8919769097	P. Sai Lakshmi
10	D. Suetta	III B.Z.C	7382138600	D. Suetta
11	N. Kalpana	III B.Z.C	9502905640	N. Kalpana
12	A. Varalakshmi	III B.ZC	7674013648	A. Varalakshmi
13	M. Prashanthi	III B.ZC	9618668682	M. Prashanthi
14	P. Chaitra	III B.Z.C	7204303831	P. Chaitra
15	U. Kiran Kumar	III B.ZC	9966134433	U. Kiran Kumar
16	B. Niranjan Neelidra	III B.Z.C	7569545914	B. Niranjan Neelidra
17	C. Sai Teja	III B.ZC	9398631606	C. Sai Teja
18	T. Purushottam	III B.Z.C	6303807699	T. Purushottam
19	P. Balu	III B.Z.C	9346194931	P. Balu
20	K. Vijay Kumari	III B.Z.C	8919633228	K. Vijay Kumari

Assessment: Each Question carries 2 Marks

Multiple Choice Questions (MCQs) for Certificate Course in "Aloe Vera Gel Preparation"

1. What is the key botanical feature used for the classification of Aloe vera?
 - a) Leaf color b) Flower characters c) Stem thickness d) Geographical distribution
2. What are the ideal climate conditions for Aloe vera cultivation?
 - a) Cold and frosty b) Humid and tropical c) Arid and sunny d) Wet and rainy
3. Which of the following is NOT a traditional use of Aloe Vera?
 - a) Skin burns and wounds b) Digestive disorders c) Hair coloring d) Skin moisturization
4. What is the primary role of Aloe vera in wellness, based on its nutritional composition?
 - a) Boosting energy levels b) Enhancing skin elasticity c) Supporting digestion d) Strengthening bones
5. What is a key consideration when selecting suitable varieties for Aloe vera cultivation?
 - a) Leaf color b) Climate adaptability c) Flower size d) Stem thickness
6. Which propagation technique is commonly used for Aloe vera?
 - a) Offsets or pups b) Air layering c) Grafting d) Leaf cuttings
7. What is an essential aspect of crop management in Aloe vera cultivation?
 - a) Excessive watering b) Infrequent watering c) Watering without consideration for soil type d) Ignoring irrigation altogether
8. When is the optimal time for harvesting Aloe vera leaves?
 - a) Midday b) Late afternoon c) Night d) Early morning
9. Why is maintaining hygiene during the cleaning and washing of Aloe vera leaves crucial?
 - a) To enhance leaf color b) To prevent contamination c) To improve flavor d) To decrease harvesting time
10. What is a common method for Aloe vera gel extraction?
 - a) Boiling leaves in water b) Sun drying leaves c) Blending leaves with soil d) Crushing leaves manually
11. What is the purpose of filtration and purification processes in Aloe vera gel processing?
 - a) Increase shelf life b) Enhance flavor c) Remove impurities d) Decrease viscosity
12. Which of the following is commonly used as a natural preservative for Aloe vera gel?
 - a) Artificial colorings b) Sodium benzoate c) Vinegar d) Citric acid
13. Why is blending Aloe vera with other ingredients important in gel preparation?
 - a) To decrease shelf life b) To limit consumer choices c) To improve taste and aroma d) To simplify the production process
14. What is the primary advantage of vegetative propagation in Aloe vera cultivation?
 - a) Increased genetic diversity b) Faster plant growth c) Resistance to pests and diseases d) Enhanced flower size
15. Why is proper post-harvest handling essential for Aloe vera leaves?
 - a) To decrease transportation costs b) To preserve plant health c) To increase leaf color d) To limit processing time
16. What is the purpose of blending Aloe vera with other ingredients in gel formulation?
 - a) To decrease shelf life b) To improve product color c) To limit consumer choices d) To enhance product properties

17. Why is the cleaning and washing of Aloe vera leaves an important step in gel preparation?

a) To increase leaf color b) To prevent contamination c) To decrease harvesting time d) To simplify processing methods

18. What is the significance of using proper harvesting techniques for Aloe vera leaves?

a) Decrease in gel quality b) Preservation of plant health c) Increase in processing time d) Limitation of gel extraction methods

19. Which nutrient in Aloe vera contributes to its role in supporting digestion?

a) Vitamin C b) Enzymes c) Fiber d) Amino acids

20. Why is selecting suitable Aloe vera varieties crucial for cultivation success?

a) To limit genetic diversity b) To decrease crop yield c) To enhance flower size d) To adapt to specific growing conditions

21. Which health benefit is associated with Aloe vera consumption?

a) Increased cholesterol levels b) Improved skin hydration c) Decreased energy levels d) Weakened immune system

22. Why is proper watering and irrigation important in Aloe vera crop management?

a) To induce plant dormancy b) To enhance flower size c) To prevent overhydration and root rot d) To decrease pest resistance

23. What is a characteristic feature used in selecting suitable Aloe vera varieties for cultivation?

a) Leaf color b) Flower size c) Stem thickness d) Geographical distribution

24. Aloe vera belongs to which family?

a) Apiaceae b) Agavaceae c) Asphodelaceae d) Apocynaceae

25. Aloe vera gel is known for providing relief from sunburns due to the presence of:

a) Caffeine b) Lignins c) Alcohols d) Phosphates

Answers:

1. b, 2. c, 3. c, 4. c, 5. b, 6. a, 7. b, 8. d, 9. b, 10. b, 11. c, 12. c, 13. c, 14. c, 15. b, 16. d, 17. b, 18. b, 19. b, 20. d, 21. b, 22. c, 23. a, 24. c, 25. b

Model Certificate:

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STSN GDC, KADIRI.
DEPARTMENT OF BOTANY

**CERTIFICATE**

This is to certify that, Mr./Miss. _____ has participated and completed a Certificate Course on "*Aloe vera* Gel Preparation" organized by the Department of Botany, S.T.S.N Govt. Degree College, Kadiri., Ananthapuramu Dist., A.P.

Course conducted from Dec 16th, 2020, to Jan 08th, 2021; (30 hours)

K. Sree Devi

**Co-ordinator
Head, Department of Botany**

Principal

Photos:

Aloe vera Gel Preparation



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