

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

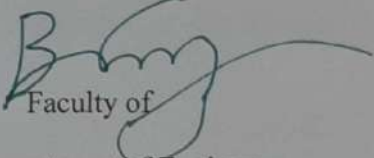
STSN Govt Degree College Kadiri 515591 Anantapur (Dist.)

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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,

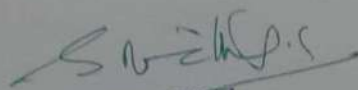
Subject: Permission to conduct **Certificate Course** on Immunology –Health and Disease in the academic year- 2021-22


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
STSN. Govt. U.G & P.G. College
KADIRI - 515 501,
Anantapur. Dist. (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 10h r

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. Apsana
4	A.CHANDRA KALA	BZC	VI	A. Chandrakala
5	AKKAMMAGARI MADHU	BZC	VI	A. Madhu
6	BANDLA 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.NAVEEN SAI KUMAR	BZC	VI	M. Naveen 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. Naresh
28	N.O.SANGEETHA	CZS	VI	N. O. Sangeetha
29	O.MAHALAKSHMI	CZS	VI	O. Mahalakshmi
30	V.MAHESWARI	CZS	VI	V. Maheswari

	16-3-22	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	1-4-22	2-4-22	3-4-22	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
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 & Disease

Date:

Name of the participant:

S. Rubiya

Class:

III year B2C

Phone No.

6302955963

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 Immunology - Health & Disease

Date:

Name of the participant:

B. Ganesh

Class:

III 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. Lavesh of I/II/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 Kadiri, During the Academic Year 2021-2022.

B. Lavesh
Course

B. Lavesh
Head of the Department

coordinator

Head
Department of Zoology
STSN. Govt. U.G & P.G. College
KADIRI - 515 591.
Principal (A.P.)

S. V. S. S.
Principal
S.T.S.N. 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

