

Karnatak Arts, Science & Commerce College, Bidar (Affiliated to Guibarga University)



College With Potential for Excellence

Department of Zoology

Academic Year: 2021-22

Departmental Meeting

Date: 14.12.2021

Notice

All the staff members are hereby informed to attend the meeting conveyed on 15th December 2021 in the Department of Zoology (PG) to start the PG certificate course on "Clinical laboratory Technology". The agenda to be discussed in meeting is given below:

- 1. Board of Studies meeting
- 2. Student enrolment
- 3. Preparation of time table

4. Workload allotment

Department of Zor 's setak Arts Sur & Commerce colle BIDAR-585401

PRINCIPAPEL Karnataka Arts Sci. & Com. Cotlege BIDAR-585401

Departmental Meeting

Date: 15.12.2021

Departmental Meeting is conducted on 15.12.2021 to start the PG certificate course on "Clinical laboratory Technology" the chairman ship of Dr. Ranibai Patil Head of the Department. The following agendas were discussed and resolutions made:

Agenda 1: Board of Studies meeting

Resolution: It is unanimously decided to start the certificate course for PG students on "Clinical laboratory Technology" so we conducted BOS meeting with Dr. Nagbhushan Reddy Asst. Professor Dept. of Zoology(PG) Sri Sharana Basaveshwar Autonomous University, Kalaburgi.

Agenda 2: Student Enrollment

Resolution: It is decided to motivate our students to enroll in Certificate course and decided to give the knowledge about certificate course benefits and its importance in job opportunities.

Agenda 3: Preparation of time Table

Resolution: It is unanimously decided that time table has to be prepared as per the workload prescribed in BOS meeting and by considering the availability of institutional resources.

Agenda 4: Workload allotment

Workload allotment is to be done based on the specializations and experience of the faculty members in the department.

Meeting concluded with vote of thanks presented by Mrs. Renuka Swamy

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Action Taken Report

- 1. BOS meeting conducted successfully.
- 2. 40 plus students enrolled their names for certificate course successfully.
- 3. Time Table has been prepared and approved by Principal.
- 4. Work allotment done for each course based on faculty specialization and experience.

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Date: 22-12-2021

To, The Principal Karnatak Arts, Science & Commerce College, Bidar.

<u>Subject</u>: Request to grant permission to start add-on course for PG students on Clinical laboratory technology for year: 2021-2022:Reg.

Sir,

As per the guidelines issued by IQAC, we would like to start the add-on course for PG students on "Clinical laboratory technology" from the academic year: 2021-2022, with intake of 43 students. Please permit us to start the add-on course and do needful.

Thanking you,

Sincerely,

Dr.Ranibai Patil Department of Zoology

HEAD

Department of Zoology
Karnatak Arts Sci. & Commerce Colle
BIDAR-585401

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Karnatak Arts, Science & Commerce College, Bidar



(Affiliated to Gulbarga University) College With Potential for Excellence

Department of ZOOLOGY

Date: 29/12/2021

BOARD OF STUDIES MEETING

Board of Studies meeting of the Department of Zoology was conducted on 29-12-2021 at 12.15pm in the PG Course, Department of Zoology Karnataka College, Bidar.

AGENDA:

Innovations in the course:

Certificate courses can be started, appreciations courses to enhance student participation.

- 1. Interested students should be select.
- 2. Discussion about Title of certificate course.
- 3. Syllabus setting about theory and practical of add on course.
- 4. Credits/Evaluation.

External Member Board of Studies Zoology:

Dr. Nagbhushan Reddy, Asst. Professor. Dept.Of Zoology (PG), Sharanabasya University, Kalaburgi.

Or NAGBITUSHAN REDDY

Members Present:

Assistan' Professor Department of P.G. Studies in Zoology 1. Dr. Ranibai M Sharnbasva University, Kalaburagi-585103

2. Mrs. Renuka Swamy

3. Miss. Chandrika Deshmukh Ound miles

4. Miss. Pallavi S M

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RESOLUTIONS:

The common Board consisting of the above members have met in the PG Course, Department of Zoology, Karnataka College Bidar, and considered the enclosed agenda. After deliberations and discussions, the Board members have resolved the following:

- 1. For.M.Sc.Post Graduate Zoology students have one of the add on course, those who have interested this course they should apply for admission in "Clinical laboratory Technology"
- 2. The members formulated the syllabus for Certificate Course "Clinical laboratory Technology" this is about 6- Months program.
- 3. The syllabus for practicals of the above certificate course was formulated on par with syllabus model of "Clinical laboratory Technology".
- 4. There should be 4 hours per week for theory paper and 2 hrs for each practical.

5. Marks and credits are allotted to theory and practical papers in each semester.

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BOS meeting held at Shambasava University Kalburgi on 29/12/2021



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College With Potential for Excellence

Department of Zoology

Date: 30/12/2021

NOTICE

All the students are hereby informed that, the Department of Zoology is starting the add-on course for PG students on Clinical laboratory Technology from the 03/01/2022; interested students can enroll their names on or before 06/01/2022 in the Department of Zoology.

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KARNATAK ARTS, SCIENCE & COMMERCE COLLEGE, BIDAR

Certificate course "Clinical laboratory Technology" Time Table for the academic year: 2021-2022

Department: Zoology (PG)

(With effect from 03/01/2022)

my/ Dr. Ranibai rika Deshmukh/

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Department of Zoology

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DEPARTMENT OF ZOOLOGY Value Added Certificate Course - I

CLINICAL LABORATORY TECHNOLOGY

Paper: I Hour: 30

Semester : III Credit : 2

Objectives

To impart basic knowledge on first aid, Haematology, Biochemistry, Microbiology, Pathology and Cytogenetics and the concerning instrumentation.

UNIT- I Basic First Aid +

6 hours

Role and responsibilities of first aider – Unconscious (including seizure) – cardio pulmonary resuscitation (CPR) – Choking – wound and bleeding – injuries due to animal bites – suffering from shock – specific work related injuries.

UNIT - II Haematology

6 hours

Introduction and scope - Rules and regulations followed in Lab - Anticoagulants and its types. **Blood**: Collection of blood (Venous and Capillary) Preservation of blood - Blood bank - ABO Blood grouping Rh typing. Total RBC count - Total leucocytes count - Differential count - Haemoglobin estimation, ESR, PCV - Bleeding and clotting time - Platelet count - Blood clotting.

UNIT-III Biochemistry

6 hours

URINE: Collection, preservation and examinations – Protein – Glucose – Acetone – Bile salts – Bile pigments – Urobilin – Urobilinogen – Microscopical examination of urine. FAECES: Microscopical examination – Intestinal parasites - Helminthes, nematodes, cestodes, trematodes and protozoa.

SEMEN analysis.

UNIT-IV Microbiology & Pathology

6 hours

Classification and Morphology of Bacteria and Virus - Common viral diseases - Viral vaccines and antisera. Mycotoxins - Common fungal diseases.

Symptoms - Diseases and Diagnosis in Human - Common cold, Cholera, Typhoid, Malaria, Elephantiasis, Jaundice, Flu, Measles, Hepatitis B.

UNIT-V Cytogenetics and Instrumentation

6 hours

Introduction to cytogenetics and karyotyping - Basic Instrumentation - Microscope - pH meter, Autoclave, Incubator, Colorimeter, Haemocytometer, Haemoglobinometer, Centrifuge - Principles, Working methodology and applications.

Text Books

1. Kanai L. Mukherjee and Anuradha Chakravarthy. Medical Laboratory Technology, Procedure manual for routine diagnostic tests. 3rd Edition (Volume I - III) Mc Graw Hill, 2017.

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Books for Reference:

- 1. S. Rajan, Manual for Medical Laboratory Technology, Anjana book house Chennai. 2012.
- 2. K. Park, Text Book of Preventive and Social Medicine, M/s Banarsidas Bhanot (Publishers), 1167, Prem Nagar, Jabalpur 482001, India, 2009.
- 3. C.K. Shiha and K.R. Pankaj, Vijay Bhagat., Text Book of Pathology by Scientific Book Company, Ashok Rajpath, Patna 800004, 2005.
- 4. N. Kumar, Text Book of Anatomy, Physiology and Health Education. A.I.T.B.S. Publishers, J- 5/6, Krishan Nagar, Delhi 110 051, India, 2009.
- 5. Clement. I, Text Book on First aid and emergencies. Jaypee publications. 2012.

Web reference

- 1. https://medlineplus.gov/lab-tests/
- 2. https://stanfordhealthcare.org/medical-tests/l/lab-tests/types/urinalysis.html
- 3. https://www.hosco.in/pathology-laboratory-equipments.html
- 4. https://www.tmcc.edu/microbiology-resource-center/lab-protocols/general-biochemical-tests

Course Outcomes

On successful completion of the course, Students will be able to:

- 1. Understand life threatening and non-life threatening health scenario
- 2. Explore the components of Blood and its relative tests
- 3. Highlight the significance of Urine, Stool and Semen analysis
- 4. Acquire knowledge on basic microbes relating to human health
- 5. Familiarize basic instrumentation usage in medical labs

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Department of Zoology(PG)

Academic Year: 2021-22

Certificate Course: "Clinical laboratory Technology" PG Student Enrolment List

Sl.No	Name of the Students	Sign
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	SALMA	oCol .
2	JOEL S	Salma
3		Joels
3	SUSHANTH S	Hards 18
4	VINOD B	easing (ca.
		Mico
5	DURGA THAKUR	Sushanth. Wired Delhalar
6	SANA TABASSUM	100
-	WARRIOWAA DEED	dana
7	KARISHMA DEEP	Barshiva
8	UMESH	Quel
9	PRIYA C	Priya
10	DIVYA P	Nenta
11	SANGEETA D	Loude
12	POOJARANI G	
12		(bota
13	NISHETA B	Nisheta
14	MAHESH	Micha
5	MONICA	Monlea.
6	HEEBA	Nelso
	SHIVANJALI 6	60 A
7	SHITAMONDI	towarjal

18	KAJAL V	(D)
		A
19	BHAVANI	Aug
20	PRAJWAL P	Stophat
21	ANJALI P	Anjali
22	POOJA R	Pot
23	MANALI	Manalt
24	KARANDEEP	Karandeep.
25	NIHARIKA REDDY	Start
26	BASAVAJYOTI	Possajyoti
27	AFREEN	Streen for fine
28	MADHURANI	Madhurani
29	PREM SAGAR	Pay .
30	GURUDEVI	Gernderei
31	SHWETA	Shoope
32	SHREYA	Chreye
33	AISHWARYA	Ashraryes
34	MANIKESHWARI	Maria
35	SUSHASINI	Substitution
36	ANURADHA	Ruhaskei
37	KAVYASHREE	Kurka
38	SNEHA	Suela.
	VANISHREE	Watte
39		20
40	SYEDA MAHBOOB SULTANA	Sul
41	SYEDA MOHSEENA BEGUM	Judison
42	MADIHA HUSSAIN	MAORINA

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Karnatak Arts, Science & Commerce College, Bidar (Affiliated to Gulbarga University)



College With Potential for Excellence

Department of Zoology

Date: 19/06/2022

NOTICE

All the students enrolled in add-on course on Clinical laboratory Technology are hereby informed that, the course examination is scheduled on 26/06/22 from 10.00am to 1200pm(Theory exam) and 2:00pm to 5:00pm(Practical exam), without fail.

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(Affiliated to Gulbarga University) College With Potential for Excellence

Department of Zoology(PG)

Academic Year: 2021-22

CERTIFICATE COURSE THEORY QUESTION PAPER

Subject: "Clinical laboratory Technology"

TIME: 10am-12pm

DATE:26/06/22

MAX.MARKS = 25

Answer any FIVE of the following

5x5 = 25

- 1. Explain the Role and responsibilities of First aider.
- 2. Explain about Anti-coagulants and its types.
- 3. Explain about Blood bank and ABO blood grouping Rh factor.
- 4. Explain protein structure and classification.
- 5. Explain disease and diagnosis of Cholera and typhoid.
- 6. Explain Karyotyping and its significance



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Department of Zoology(PG)

Academic Year: 2021-22

CERTIFICATE COURSE PRACTICAL QUESTION PAPER

Subject: "Clinical laboratory Technology"

TIME: 2Pm-5pm MAX.MARKS=25 DATE: 26/06/22

5x5 = 25

1.	Estimation of Hemoglobin content of human blood.	05
2.	Qualitative test to identify the presence of Protein & Glucose in the given sample.	10
3.	Preparation of Human karyotype of the given case.	10



Karnatak Arts, Science & Commerce College, Bidar (Affiliated to Gulbarga University)

College With Potential for Excellence



Department of Zoology(PG)

Academic Year: 2021-22

Certificate Course: "Clinical laboratory Technology" PG students theory and practical Attendance and Marks List

Sl.No	Name of the Students	Sign	Theory Marks	Practical Marks
1	SALMA		24	21
2	JOEL S		19	20
3	SUSHANTH S		19	21
4	VINOD B		24	20
5	DURGA THAKUR		24	23
6	SANA TABASSUM		22	23
7	KARISHMA DEEP		24	21
8	UMESH		18	23
9	PRIYA C		24	24
10	DIVYA P		24	24
11	SANGEETA D		23	21
12	POOJARANI G		22	22
13	NISHETA B		24	24
14	MAHESH		22	22
15	MONICA		22	24
16	HEEBA		22	21
	SHIVANJALI S		21	22
17	KAJAL V		20	23
18			24	24
19	BHAVANI		24	

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20	PRAJWAL P	19	21
21	ANJALI P	20	21
22	POOJA R	20	23
23	MANALI	22	22
24	KARANDEEP	19	21
25	NIHARIKA REDDY	21	22
26	BASAVAJYOTI	24	24
27	AFREEN	24	23
28	MADHURANI	21	24
29	PREM SAGAR	20	20
30	GURUDEVI	20	23
31	SHWETA	24	24
32	SHREYA	23	21
33	AISHWARYA	20	23
34	MANIKESHWARI	20	21
35	SUSHASINI	22	23
36	ANURADHA	24	23
37	KAVYASHREE	23	21
38	SNEHA	21	22
39	VANISHREE SYEDA MAHBOOB SULTANA	22	23
40	SYEDA MAHBOOD SCETTION SYEDA MOHSEENA BEGUM	23	23
41	MADIHA HUSSAIN	23	21
42	MADITIA MODELLA		

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Karnataka Arts Sci. & Com. College

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NAAC RE-ACCREDIATED WITH 'A' Grade CGPA 3.24



KARNATAK ARTS, SCIENCE & COMMERCE COLLEGE

College with Potential for Excellence Status Awarded by UGC N ISO 9001: 2015

CERTIFICATE

OF ACHIEVEMENT

This Certificate is Proudly Presented to

Ms . Monica Clara

of class M.Sc. Semester IV with register number P2199089, has successfully completed the value added course on "CLINICAL LABORATORY TECHNOLOGY" conducted by Department of Zoology during the year 2021-2022

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HEAD

Department of Zoology
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Karnataka Arts Sci. & Com. College

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Estimation made

by the students-

Clinical Laboration









Estimation of differential WEC Count



Karnatak Arts, Science & Commerce College, Bidar



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Department of Zoology(PG)

Add-on course on Clinical Laboratory Techniques

REPORT

Name of the course

: "Clinical Laboratory Techniques".

Name of the department:

Zoology

Name of the B.O.S

: Dr. Nagabhushan Reddy

[Asst. professor and chairperson

Dept. of Zoology Sharnbasava University Kalaburgi]

Number of Students

: 42

BOS Meeting Date

29/12/2021

Start date of the course : 03/01/2022

End date of the course

: 26/06/2022

Department of Zoology conducted Add-on course on "Clinical Laboratory Techniques". Clinical Laboratory Techniques helps students to improve their laboratory skills. These skills play a significant role in order to perform various experiments and to run various tests. It is very helpful in healthcare laboratories and also helpful in self employment.

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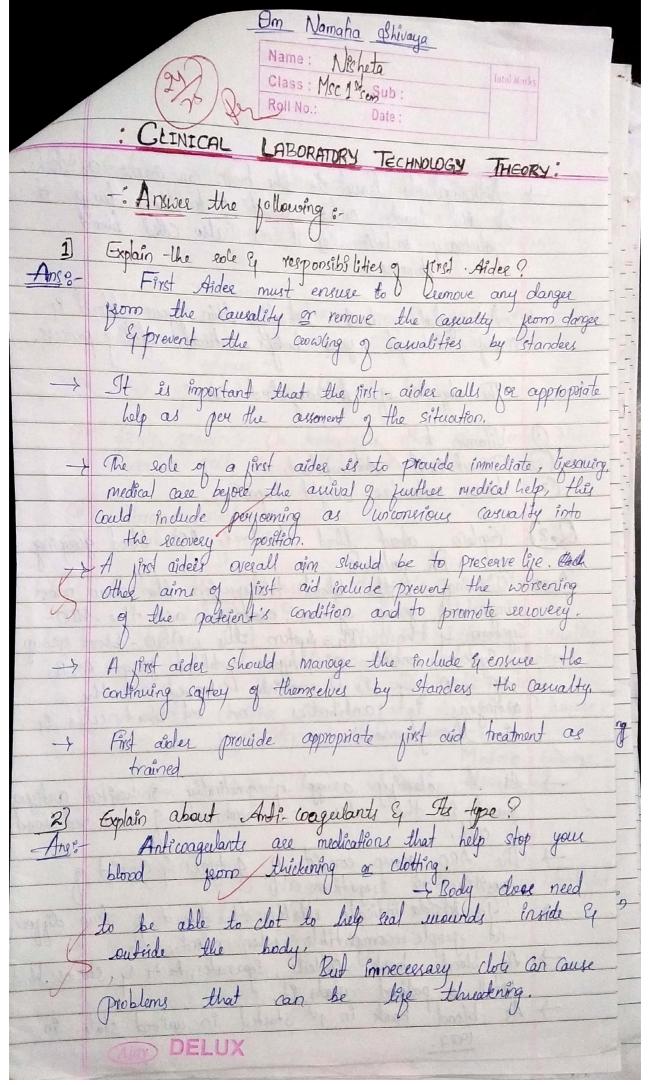
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ADMISSION FORM

Certificate/Value added/Skill Development/Diploma/Advance Diploma Courses IAS/IPS/NET/SET Coaching Classes

Name of the Department Zoology Year 2021-22
Name of the Student Nisheta
Father's/Guardian's Name Baswaraj Kesasi ()
Date of Birth Date Month Year
Address for Correspondence :
H. No!- 18-1-351
Janata Colony Bidas.
Semester/Class: M.sc Ist Sem.
Register No : POHAE21S0044
Percentage of previous semester : 694 -
Contact No : 9035719702,
E-Mail ID : Kesasinisheta @gmail.com.
E-Mail ID: Kesasinisheta@gmail.com. Course to be Joined: Clinical, Laboratory Technology.
Signature of the Student HOD/Coordinator HEAD Department of Zoology Marnatak Arts Sci. & Com. College Karnatak Arts Sci. & Commerce College BIDAR-585401

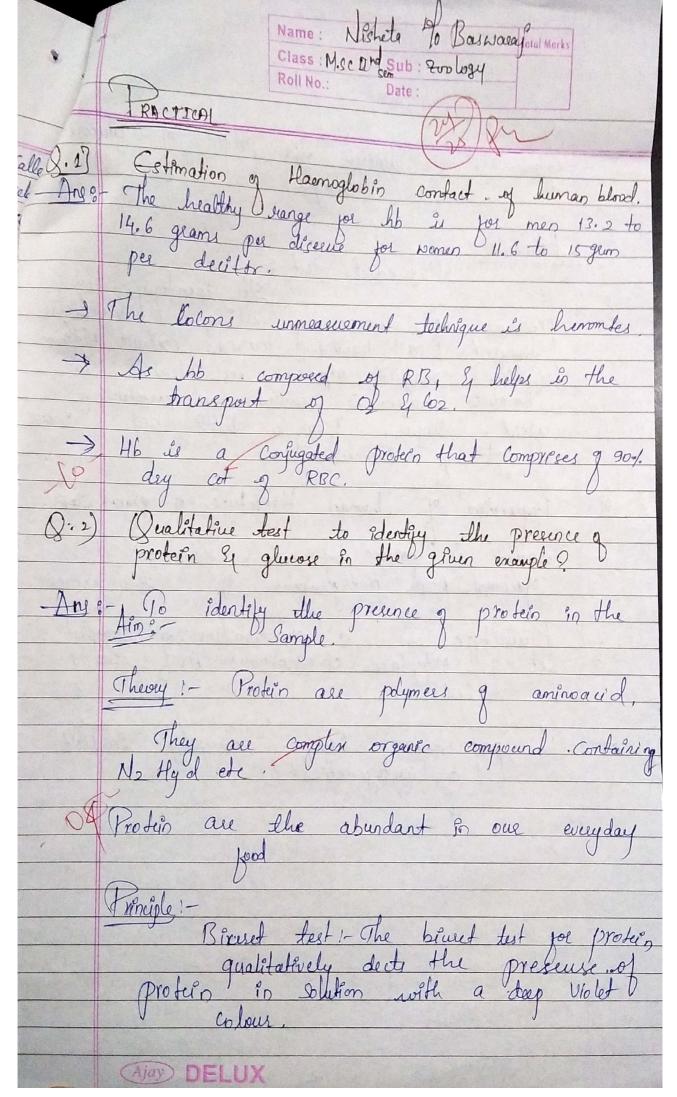


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