



Karnatak University's



Karnatak Science College, Dharwad

Department of Biotechnology

## Certificate Course in "Bio-Chemical Techniques"

2021-2022

### **About the Course:**

Biochemical techniques advance our understanding of the chemical structures and processes that underpin human health and disease, revealing the underlying transformations between them. Bio-Chemical techniques are important of any clinical laboratory. In this certificate course the students analyze fluid, tissues and blood samples to perform a variety of diagnoses. They generally work under the supervision of subject experts.

### **Objective:**

**After the completion of the certificate course, students will be able to:**

- Conduct chemical analysis of body fluids, such as blood or urine, using microscope or to detect abnormalities or diseases.
- Analyze the results of tests or experiments to ensure conformity to specifications, using special mechanical or electrical devices.
- Set up, maintain, calibrate, clean and test sterility of medical laboratory equipment. Collect blood or tissue samples from patients, observing principles of asepsis to obtain blood samples.
- Conduct blood tests for transfusion purposes and perform blood counts. Inoculate fertilized eggs, broths, or other bacteriological media with organisms.
- Consult with a pathologist to determine a final diagnosis when abnormalities are found. Analyze and record test data to issue reports.

**Duration of the Course: 3 Months**

**Syllabus of Certificate Course on Bio-Chemical Techniques**

1. Estimation of blood sugar by anthrone method.
2. Estimation of creatinine of urine.
3. Determination of blood group.
4. Determination of clotting time of blood.
5. Qualitative analysis of urine.
6. Determination of differential leucocyte count.
7. Determination of bleeding time of blood.
8. Preparation of haematin crystals.


**List of Students Enrolled for Certificate Course of  
"Bio-chemical Techniques" 2021-2022**

Sl. No.	Register No.	Name	Subject Combination	Remark
1	19S10016	Akash Angadi	CZBt	Completed
2	19S10045	Anusha Hurali	CBBt	Completed
3	19S10046	Anusha B	CZBt	Completed
4	19S10048	Apoorva Pawar	CZBt	Completed
5	19S10050	Arpita Pujar	CZBt	Completed
6	19S10052	Aruna Patil	CBBt	Completed
7	19S10070	Bhumika S	CZBt	Completed
8	19S10076	Chandrakala	CBBt	Completed
9	19S10719	Chandrakant	CZBt	Completed
10	19S10131	Jyoti Enagi	CBBt	Completed
11	19S10158	Maaz Sandi	CZBt	Completed
12	19S10198	Najneen Y	CBBt	Completed
13	19S10237	Poorvi Patil	CZBt	Completed
14	19S10260	Radhika	CZBt	Completed
15	19S10309	Satyasgree	CZBt	Completed
16	19S10312	Sayam	CZBt	Completed
17	19S10327	Shivakumar	CBBt	Completed
18	19S10329	Shivani Tonne	CBBt	Completed
19	19S10336	Shreeraksha	CZBt	Completed
20	19S10382	Laxmiputra T	CZBt	Completed
21	19S10395	Veena R	CBBt	Completed

  
Coordinator



  
Chief Coordinator

  
Principal  
Principal,  
Karnatak Science College  
Dharwad.



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Department of Biotechnology




## Certificate

Course Title: "Bio-chemical Techniques"  
2021-2022

This is certify that Mr. / Miss. Akash Angadi, UUCMS number / Register number 19S10016 has successfully completed the Certificate Course of "Bio-chemical Techniques" during on ~~11/12~~ to ~~31/3/22~~. His / Her performance is satisfactory.

  
Coordinator

  
Chief Coordinator

  
Principal  
Principal,  
Karnatak Science College  
Dharwad.





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## Certificate

Course Title: "Bio-chemical Techniques"  
2021-2022

This is certify that Mr. / Miss. Chandrakant, UUCMS number / Register number 19S10719 has successfully completed the Certificate Course of "Bio-chemical Techniques" during on 11/2.2. to 31/3.22. His / Her performance is satisfactory.

  
Coordinator

  
Chief Coordinator

  
Principal  
Principal,  
Karnatak Science College  
Dharwad.






## Certificate

**Course Title: "Bio-chemical Techniques"**  
**2021-2022**

This is certify that Mr. / Miss. ....  
UUCMS number / Register number has successfully  
completed the Certificate Course of "Bio-chemical  
Techniques" during on .....to ..... His / Her performance  
is satisfactory.

**Coordinator**

**Chief Coordinator**

  
**Principal**  
Principal,  
Karnatak Science College,  
Dharwad.

