



**BLDE**

**(DEEMED TO BE UNIVERSITY)**

Declared as Deemed to be University u/s 3 of UGC Act, 1956

The Constituent College

SHRI B. M. PATIL MEDICAL COLLEGE, HOSPITAL & RESEARCH CENTRE, VIJAYAPURA

**Department of Biochemistry.**

**Value Added Course ; CLINICAL BIOCHEMISTRY LABORATORY :  
UTILIZATION & INTERPRETATION**

<b>Target group</b>	(UG/ Internees / PG/Ph.D/Allied group courses etc)
<b>Goal &amp; Objective of the Course</b>	<p>Clinical Biochemistry laboratory is accomplished with automated instruments and produces a large amount of numerical data. The scope for the laboratory to give meaning to these data by interpreting the results is limited by a number of factors including;</p> <ol style="list-style-type: none"><li>1. Lack of knowledge of the context in which the tests were requested, i.e. the clinical question.</li><li>2. Lack of knowledge of patient factors which may influence the results e.g. Interference of the medication.</li></ol> <p>At the end of the successful completion of this course in, Clinical Biochemistry Laboratory : Utilization and Interpretation; the student will be able to understand about the details of the various aspects involved in smooth running of the lab and interpret biomedical data in the investigation and diagnosis of disease and discuss the origin and effects of an abnormal biochemical profile.</p> <p>The student will also understand how the clinical biochemistry laboratory helps effectively to meet the requirements of the end users by systematic communication between the clinician and laboratory persons</p> <p><b>Objectives of the course:</b></p> <ol style="list-style-type: none"><li>1. To understand the lab errors (pre-analytical, analytical and post-analytical).</li><li>2. To understand the strategy for the acceptance and rejection of samples.</li><li>3. To learn about importance of quality control.</li><li>4. To learn about role of Automation in clinical Biochemistry laboratory.</li><li>5. To understand the various analytical procedures for routine biochemical parameters.</li><li>6. Reporting and interpretation of results.</li></ol>

Smt. Bangaramma Sajjan Campus, B. M. Patil Road (Sholapur Road), Vijayapura - 586103, Karnataka, India.

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REGISTRAR

BLDE (Deemed to be University)  
Vijayapura-586103, Karnataka



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**SYLLABUS:**

Sl.No.	Content	hours
01	Introduction to Clinical Biochemistry.	01
02	Preparation of the patient, precautionary measures. Acceptance and Rejection of the samples	01
03	Lab errors: Pre-analytical errors	01
04	Analytical errors: Standardization of methods, Calibration, Quality Control.	01
05	Automation in Clinical Biochemistry Laboratory	01
06	ELISA technique	01
07	Analysis of Routine Biochemical Parameters (Blood Glucose, Serum Urea & Creatinine etc)	01
08	Maintenance of the instruments	01
09	Introduction to ABG analysis	01
10	Interpretation of ABG results	01
11	Interference of the Drugs in the biochemical results.	01
12	Interpretation of test results	01
13	Post analytical errors	01
14	Reporting of the biochemical results.	01
15	Clinical Case Discussions	02
<b>TOTAL</b>		<b>16</b>

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SHRI B M PATIL MEDICAL COLLEGE, VIJAYAPUR.

**DEPARTMENT OF BIOCHEMISTRY**  
**VALUE ADDED COURSE**  
**Clinical Biochemistry Laboratory: Utilization and Interpretation**

DATE: 30-11-2020

Sl. No	NAME	REG. NO	TCC (15)	TCA (15)	%	SIGN
01	Mr. Shattar Chetan Savalegeppa	VACBIO001	15	15	100	<i>chetan</i>
02	Dr. Shivaleela Biradar	VACBIO002	15	15	100	<i>Shivaleela</i>
03	Mr. G.V. Naregal	VACBIO003	15	15	100	<i>G.V. Naregal</i>
04	Dr. Jayaraaj Gudi	VACBIO004	15	15	100	<i>Jayaraaj Gudi</i>
05	Dr. R Chandramouli Reddy	VACBIO005	15	15	100	<i>R Chandramouli Reddy</i>

*Nilima Dongre*  
**Dr. Nilima Dongre**  
Specific Course Coordinator

*S S Walvekar*  
**Dr. S S Walvekar**  
Course Coordinator

*B. M. Patil*  
**Prof & HOD**  
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