



# ST. THOMAS COLLEGE PALAI

UGC Approved College with Potential for Excellence

Reaccredited by NAAC with A Grade (CGPA 3.30)

## Syllabus for Vocational Education and Training (VET) Course

### Medical Laboratory Biochemist

Course Code	:	<b>STCVE013</b>
Course Coordinator	:	<b>Dr. Ratheesh M</b> <b>Assistant Professor</b> <b>Department of Biochemistry</b>
Maximum intake	:	<b>15</b>
Eligibility	:	<b><i>Any regular B.Sc. or M.Sc. student of the College, with biochemistry background</i></b>

#### **Objective:**

(1) To mould students to handle medical laboratory test

**Module 1 Carbohydrate Chemistry:**  
Disorders of metabolism; Diabetes Mellitus, Hypoglycemia

**Module 2 Theory (Knowledge) and Practical (Skill) of ORGAN FUNCTION TESTS:**  
i) Liver function tests, ii) Kidney function tests, iii) Gastric function tests, iv) Pancreatic function tests, v) Splenic function tests, vi) Tests for malabsorption, vii) Respiratory function tests, viii) Cardiac function tests, and ix) Endocrine function tests.

**Module 3 Medically important microbes in general.**  
Enterobacteriaceae and other gram negative bacilli like Salmonella, Shigella, E coli etc. Gram-positive cocci & bacilla and Mycobacteria, in particular, their general behavior, life history, metabolism, genetics and mode of infection

Theory: **40%** & Practical: **60%**