



**KLE Academy of Higher Education and Research (KAHER)
Reaccredited 'A Grade' by NAAC (2nd cycle), Placed in
Category A by MHRD, GOI**

**Department of Microbiology,
Jagdaguru Gangadhar Mahaswamigalu Moorusaviramath
Medical College and
KLE's Suchirayu Hospital**

**VALUE ADDED COURSE: GOOD LABORATORY
PRACTICES(GLP)**



**KAHER'S JAGDAGURU GANGADHAR MAHASWAMIGALU
MOORUSAVIRAMATH MEDICAL COLLEGE HUBLI-580028**
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DEPARTMENT OF MICROBIOLOGY



COURSE CONTENT

TITLE	“Good Laboratory Practices”
TARGET GROUP	III/II MBBS Students
GOAL & OBJECTIVE OF THE COURSE	<p>Clinical laboratory services play a vital role in patient care, diagnosis, treatment, prevention, and clinical research. NABL accreditation is important to ensure the quality and competence of laboratory testing. Good laboratory practices are the stepwise procedures/guidelines aimed at strengthening the quality of test results to ensure the reliability, integrity and provision of safe working environment for all laboratory personnel.</p> <p>Objectives of the course:</p> <ul style="list-style-type: none"> ➤ To know the importance of NABL in Good clinical laboratory practices ➤ To learn about importance of quality control and Quality assurance. ➤ To understand the pre-analytical examination- steps of sample collection, sample package, sample transport and storage, sample acceptance and rejection criteria ➤ To understand Analytical examination – SOP’s, handling of chemicals and spill management ➤ To understand Post Analytical examination- Reporting results and critical alerts in laboratory <p>Course outcome:</p> <p>At the end of the successful completion of this course the student will be able to understand various factors affecting laboratory results and also will be able to correct interpretation of the laboratory data. The student will also understand how the clinical laboratory helps effectively to meet the requirements of the end users by systematic communication between the clinician and laboratory persons. Certificate will be awarded at end of course.</p>
COURSE CONTENT:	<p>Duration of the Course: The duration of the course will be of 16 hrs.</p> <p>Examination. Theory practical evaluation, skill based, OSPE stations</p>
TEACHING – LEARNING METHOD	Each topic of this course will be introduced with lectures/videos/demonstration. Interactive sessions with the description of role of clinical microbiology laboratory in contribution towards the proper diagnosis, treatment and the follow up in various diseases.
PLANNED METHOD OF ASSESSMENT:	Examination: Theory practical evaluation, skill based, OSPE stations
INFRASTRUCTURE	Lecture hall & Clinical Microbiology laboratory services

TIME	Content	Time duration (in hours)
DAY-1		
9.30 – 10 AM	Pre-test evaluation	30min
10.00 am to 11.00 am	Importance of NABL in Good clinical laboratory practices	1 hr
11.00 am to 12.00 am	Quality control and Quality assurance.	1 hr
12.00 pm to 1.00 pm	Interactive session(Hands on activity)	1 hr
1pm-2pm	LUNCH	
2.00 pm to 4.00 pm	Pre-analytical examination- steps of sample collection, sample package, sample transport and storage, sample acceptance and rejection criteria	2 hr
4.00 pm to 5.30pm	Interactive session-Hands on activity & visit to central laboratory	1 hr
DAY-2		
9.00 am to 11.00 am	Analytical examination – SOP's, handling of chemicals and spill management	2 hr
11.00 am to 12.00pm	Interactive session-Hands on activity	1 hr
12.00 pm to 1.00 pm	Post Analytical examination- Reporting results and critical alerts in laboratory	1 hr
1.00 pm to 2.00 pm	LUNCH	
2.00 pm to 3.00 pm	Post Analytical examination- Reporting results and critical alerts in laboratory	1hr
3.00 pm to 4 pm	Interactive session-Hands on activity	1 hr
4.00 pm to 5.00 pm	Troubleshooting errors	1 hr
5.00 pm to 5.30 pm	Post test Evaluation and certificate distribution	30min
	TOTAL	16 Hours.