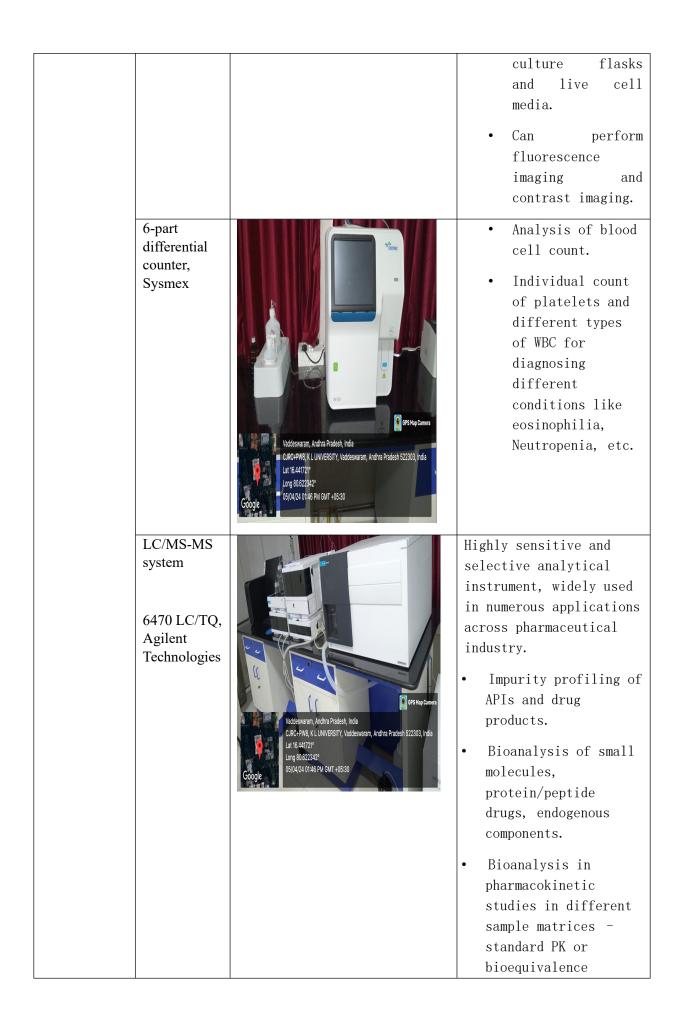
Hyphenated Instruments facility at the University for research

The university has several hyphenated equipment and research facilities that are availed by Life-sciences departments of KLEF including the faculty and students of K L College of Pharmacy.

Notable hyphenated equipment include:

Name of the Laboratory	Available Equipment list	Geo tagged photo	specifications
L001	Emperyan powder XRD	PARatytics Expression	 pXRD instrument has numerous applications in pharmaceutical research, including: To understand crystal structure of the drug and excipients in various formulations. Important QC tool in assessing any changes in the crystallinity of material upon storage or exposure to certain conditions.
	FT- IR(JASCO)	Vadeswaram, Andhra Pradesh, India CuRC-1WJ, KL UNIVERSITY, Vaddeswaram, Andhra Pradesh E2203, India UNIVERSITY, Vaddeswaram, Andhra Pradesh E2203, India E2203, India	 Infrared spectroscopy has a vast number of applications in drug discovery and even in quality control of drug products Fingerprint identification allowing for rapid identification of raw materials, drug substances, and final dosage forms. FT-IR identifies the

			 presence of specific functional groups within a molecule, aiding in structural characterization and potential drug interactions. FT-IR helps ensure quality control by detecting impurities, and monitoring for potential degradation products.
			• Can reveal potential interactions between the drug and excipients in a formulation, ensuring stability and desired functionality.
	3D Holography Microscope Tomocube, Leica	Vaddeswaram, Andhra Pradesh, India Cycogle Vaddeswaram, Andhra Pradesh, India Cycople Vaddeswaram, Andhra Pradesh, India Cycople Vaddeswaram, Andhra Pradesh, India Cycople Vaddeswaram, Andhra Pradesh, India Cycople Vaddeswaram, Andhra Pradesh, India Cycople Vaddeswaram, Andhra Pradesh, India Cycople Vaddeswaram, Andhra Pradesh, India Cycople Vaddeswaram, Andhra Pradesh, India Cycople Vaddeswaram, Andhra Pradesh, India Cycople Vaddeswaram, Andhra Pradesh, India Cycople Vaddeswaram, Andhra Pradesh, India Cycople Vaddeswaram, Andhra Pradesh, India Cycople Vaddeswaram, Andhra Pyradesh, India Cycople Vaddeswaram, Andhra Pyradesh, India Cycople Vaddeswara	Tomocube's leading-edge technology, Holotomography, is the next generation of 3D microscopic imaging technology which is utilized across various research fields. In particular, holotomographic imaging allows for non-invasive, label-free observation of samples, enabling high-resolution data acquisition. As such, it serves as an extremely powerful tool in life science research.
L507			Applications: • Cellular imaging. • Imaging of



Blackman coulter Implementation of the second s		 to detect or measure a specific analyte in a sample of body fluid. It uses the principle of Chemiluminescence to identify/quantify specific analytes in reaction with the specific reagents. Can be used to identify and/or quantify more than 50 different markers and chemicals including proteins, bacterial, or viral toxins, drug concentrations, infectious diseases, allergy and endocrine hormones, cardiac markers, etc., in blood and
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Electronic balance & DSC	
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