



Faculty Name : Dr. RENGESH BALAKRISHNAN

Designation : Associate Professor

Specialization :

- Familiar with Upstream and Downstream processing techniques, which includes operation of Batch, Fed-Batch and Continuous fermenters.
- Software proficiency:
 - Design Expert
 - Mini tab - PB, RSM, Box- Behnken
 - MATLAB - ANN / GA, Microbial & Enzyme Kinetics
 - Graphical: OriginPro SigmaPlot,
 - MS Office, iWork
- Instrument Proficiency
 - Bioreactor
 - UV-Vis Spectrophotometer
 - Differential Scanning Colorimeter
 - High Performance Liquid Chromotography
 - Fourier Transform Infrared Spectroscopy
 - Lyophilizer
 - Spray Dryer
 - Rotavapor
 - Inverted Microscope
 - Others: Autoclave, Ultracentrifuge, Ultrafiltration, Sonicator.

About Faculty : Dr. Rengesh Balakrishnan is a academician and researcher with a wealth of experience spanning over a decade. Currently serving as an Associate Professor at K.S. Rangasamy College of Technology, he imparts his expertise to B.Tech. Biotechnology students while also spearheading departmental placements. His tenure at Mahendra Engineering College saw him as a dedicated Associate Professor, where he not only taught B.Tech. Pharmaceutical Technology but also chaired the Board of Studies and played a pivotal role in curriculum framing. With a Ph.D. in optimal bioprocess strategy for D(-) lactic acid production, he showcased his research acumen as a Postdoctoral Researcher at Dublin City University and has contributed significantly to Science Foundation Ireland-funded projects. Driven by a passion for waste valorization and upstream process development, he has excelled in statistical optimization and fermentation techniques. Proficient in software tools like Design Expert and MATLAB, and well-versed in a plethora of instrumentation including bioreactors and HPLC, he combines theoretical knowledge with practical application seamlessly. His commitment to academia, coupled with a strong research foundation, positions him as a dynamic force in the field of biotechnology and waste valorization.

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