

Semester	AUG 2022
Open to semester	13,21
Course code	<b>BI6382</b>
Course title	<b>Physical Biology - Concepts and Experiments</b>
Credits	/2
Course Coordinator & participating faculty (if any)	Thomas Pucadyil
Nature of Course	Lectures
Pre-requisites	None
Objectives (goals, type of students for whom useful, outcome etc)	This is a PhD-level course for those interested in understanding cell biology from a quantitative and analytical perspective. The emphasis will be to understand core physical principles behind cellular processes.
Course contents (details of topics /sections with no. of lectures for each)	Course content will range from equilibrium binding, partitioning, diffusion, networks, dynamics of proteins and membranes among others.
Evaluation /assessment	End-Sem Examination-50% Mid-Sem Examination-50% Others-%
Suggested readings (with full list of authors, publisher, year, edn etc.)	Physical Biology of the Cell by Rob Phillips, Jané Kondev, Julie Theriot, Hernan Garcia.  Cell Biology by the Numbers by Ron Milo and Rob Phillips  Primary literature