

PHSC-509: Principles of Drug Formulation

The course is based on basic knowledge within the pharmaceuticals and broadens and deepens the knowledge regarding formulation and production especially of solid preparations in aim to prepare the students for experimental scientific work and industrial pharmaceutical activities within this topic of pharmaceuticals. In the course, the following subject matter is treated: Characterization of the physical properties of solid material: Solid-state analysis, particle size analysis and particle statistics, form analysis, form factors, surface and pore-size analysis, analysis of mechanical properties and transmission at and modelling of the compression process. Formulation principles of controlled/optimized releasement and absorption of drugs: Systems for nasal, pulmonary and cutaneous drug administration and basic physiological aspects for pharmaceutical formulation. Formulation, stabilization and lyophilization of protein-targeted drugs and optimized administration of these

Credits: 3

Program: Pharmaceutical Science