

### Doctoral Degree Course Title, Course Code and Credits

Course code	Course title	Credits
UE20DR701	Research methodology & technical communication	4
UE20PE701	Research Publications & ethics	2
UP20CHM01	Rational drug design	4
UP20CHM02	Modern pharmaceutical analysis	4
UP22PD844A	Medicinal chemistry	4
PHDCOG01	Essentials Pharmacognosy and Phytochemistry	4
UP20CHM03	Pathophysiology and preclinical screening	4
UP20COG01	Medicinal plant biotechnology	4
UP20COG02	Bioanalytical techniques	4
UP20COG03	Cellular and molecular pharmacology and animal experimental techniques in research	4
UP22PD841A	Controlled and novel drug delivery systems	4
UP20CEU02	Advanced biopharmaceutics and pharmacokinetics	4
UP22PD842A	Pharmaceutical dosage forms and drug delivery systems	4
UP20PPH01	Pharmacotherapeutics	4
UP20PPH02	Hospital, community and clinical pharmacy	4
UP20PPH03	Pharmaceutical formulation	4
UP20COG04	Extraction and isolation techniques	4
UP20COG05	Pharmaceutical analytical techniques	4
UP21COG04	Pathophysiology & pharmacological screening models	4
UP21COG05	Advanced Pharmacognosy and phytochemistry	4
UP23PD841A	Pharmacokinetics and pharmacodynamics	4
UP20COL02	Drug discovery	4
UP20COL03	Advanced pharmacology and toxicology	4
UP21PD841A	Drug Development & Pharmacokinetics	4
UP21PD842A	PK/PD Modeling & Pharmacometrics	4
UP23PD843A	Pharmaceutical dosage form and clinical trial	4
UP23PD842A	Nutraceuticals and Pharmacotherapeutics	4

UP22PD843A	Computer Aided Drug Design	4
UP20COL01	Pharmacokinetics and Pharmacodynamics	4
UP20CEU01	CONTROLLED AND NOVEL DRUG DELIVERY SYSTEMS	4
UP20CEU03	PHARMACEUTICAL DOSAGE FORMS AND DRUG DELIVERY SYSTEMS	4