

Pharmaceutical Science – TA 321

First Year

Semester 1	Biology 1	Chemistry 1	Physics 1	Laboratory Practice & Procedures	Mathematics
Semester 2	Biology 2	Chemistry 2	Physics 2	PC Applications	Statistics
	1	2	3	4	5

Second Year

Semester 3	Manufacturing Technology I	Organic Chemistry I	Principles of Biochemistry	Industrial Statistics I	Regulatory Affairs	Scientific Communications
Semester 4	Manufacturing Technology II	Pharmaceutical Microbiology	Pharmaceutical Analysis	Computerised Measurement Systems		
	1	2	3	4	5	6

Third Year – Bachelor Degree of Science – Pharmaceutical Science

Semester 5	Aseptic Processing and Utilities	Production Management	Good Manufacturing Practice	Environmental Health and Safety	Bio Pharmaceutics Option Pharmaceutical Biotechnology I Protein Technology	Pharmaceutical Chemistry II Unit Processes 1
Semester 6	Industrial Placement					
	1	2	3	4	5	6

Fourth Year – Bachelor Degree of Science – Pharmaceutical Science

Semester 7	Systems Validation	Project		Bio Pharmaceutical Option Bioprocess Technology Advanced Biopharmaceutical Technology Practical Course	Pharmaceutical Chemistry Option Organic Chemistry III Unit Processes II
Semester 8	Process Control Technology	Industrial Statistics II	Project	Bio Pharmaceutics Option Pharmaceutical Biotechnology II Cell Technology	Pharmaceutical Chemistry Option Manufacturing Technology III Organic IV
	1	2	3	4	5