Matrix Map of B.S In Pharmacy(plan 9)

	COURSE	1.1	2.1	2.2	2.3	2.4	2.5	3.1	3.2	3.3	3.4	3.5	3.6	4.1	4.2	4.3	4.4
First Year	General Biological Sciences 1	√						√					√				√
	General Biological Sciences Practical	√						√									√
	Mathematics and pharmaceutical statistics	√						√									√
	General Chemistry 1	√															√
	Practical General Chemistry 1	√															√
	Human Physiology	√															√
	Human Anatomy	√															√
	General Chemistry 2	√															√
second year	Pharmaceutical Organic Chemistry (I)	√						√									√
	Biochemistry for pharmacy (1)	√						√	√					√			√
	Pharmaceutical analytical Chemistry	√															√
	Pharmaceutical analytical Chemistry Practical	√						√					√				√
	Physical Pharmacy and pharmaceutics	√															√
	Physical Pharmacy Practical	√															√
	Pharmaceutical Organic Chemistry (II)	√	√		√	√		√					√	√			√
	Pharmaceutical Organic Chemistry	√						√					√	√	√		√

	Practical																
	Biochemistry for pharmacy (2)	√	√		√	√		√		√				√		√	√
	Pharmaceutical Microbiology and immunology 1	√	√	√	√												√
	Pharmaceutics (I)	√	√	√				√						√	√	√	√
	Pharmaceutics Practical (I)	√	√	√				√						√	√	√	√
	Instrumental analysis	√		√				√									√
	Instrumental analysis Practical	√						√			√		√	√	√		√
Third Year	**phathophysiology for pharmacy**	√	√		√	√		√	√	√	√	√	√	√	√	√	√
	Clinical Biochemistry for pharmacy	√	√		√			√	√	√	√	√	√	√	√	√	√
	Pharmacology (I)	√		√				√					√				√
	Pharmaceutical Microbiology and immunology 2	√	√	√	√	√		√	√		√	√	√	√			√
	Microbiology and Immunology Practical	√	√	√	√	√		√	√		√	√	√	√	√		√
	Pharmaceutics (II)	√	√	√			√	√						√	√	√	√
	Pharmaceutics Practical (I|)	√	√	√			√	√						√	√	√	√
	Simulation pharmacy practical	√	√	√		√		√	√	√	√	√	√	√	√	√	√
	pharmacology (II)	√		√				√					√				√
	Biopharmaceutics and Pharmacokinetics	√															√
	Applications in Pharmacokinetics	√	√	√	√			√			√						√
	Pharmacognosy	√															√
	Medicinal Chemistry (I)	√						√					√				√

	Medicinal Chemistry (II)	√						√					√	√	√	√	√
Fourth Year	Medicinal Chemistry (III)	√						√	√		√		√	√	√	√	√
	Pharmacognosy and Phytochemisty	√							√		√	√	√	√	√	√	√
	Pharmacognosy and Phytochemisty practical	√						√									√
	Clinical Pharmacy and therapeutics (I)	√	√	√	√	√		√	√	√	√	√	√	√	√		√
	Case studies in therapeutics (I)	√	√	√	√	√		√	√	√	√	√	√	√	√	√	√
	Pharmacology (III)	√	√	√	√			√	√		√			√			√
	Industrial Pharmacy	√	√	√			√	√			√			√	√	√	√
	Industrial Pharmacy Practical	√	√	√	√			√			√			√	√	√	√
	Clinical Pharmacy and therapeutics (II)	√	√	√	√	√		√	√	√	√	√	√	√	√		√
	Case studies in therapeutics (II)	√	√	√	√	√		√	√	√	√	√	√	√	√	√	√
	Nonprescription Medication (OTC)	√	√			√		√	√	√	√	√	√	√	√	√	√
	Practical Training in Pharmacy	√	√	√	√	√		√	√	√	√	√	√	√	√	√	√
	Harbal medicine	√						√	√		√	√	√	√	√	√	√
Fifth Year	Pharmaceutical care and pharmacy practice	√	√	√	√	√		√	√	√	√	√	√	√	√	√	√
	Clinical Pharmacy and therapeutics (III)	√	√	√	√	√		√	√	√	√	√	√	√	√	√	√
	pharmacoeconmics	√		√				√			√	√	√	√	√	√	√
	Pharmaceutical quality and regulatory affairs	√								√		√	√	√	√	√	√
	Toxicology for pharmacy	√		√	√			√	√	√	√			√	√	√	√
	Ethics and legislation for pharmacy	√															√

	Pharmaceutical marketing and promotion	√															√
	pharmaceutical biotechnology and pharmacogene	√		√	√		√	√	√		√	√	√	√	√	√	√
Elective courses	Advanced Pharmaceutical marketing and promotion	√															√
	Quality control for Pharmacy	√								√		√	√	√	√	√	√
	Drug Design	√						√						√	√	√	√
	Toxic Medicinal Plants	√	√					√	√				√	√	√	√	√
	Pharmaceutical Technology	√				√	√	√	√			√	√	√	√	√	√
	Cosmetics	√				√	√						√	√	√	√	√
	Specialized Topics in Pharmacy	√								√	√	√	√	√	√	√	√
	Drug delivery	√				√	√		√			√	√	√	√	√	√
	Selected topics in microbiology	√		√					√		√	√	√	√			√
	Selected topics in physical pharmacy	√		√					√		√	√	√	√		√	√
	Parapharmaceuticsals	√	√	√				√	√	√			√	√		√	√
	Cancer : types and therapy	√	√		√	√		√	√	√	√		√	√		√	√
	Hallucinogenic drugs	√															√
	Pharmaceutical intellectual property	√		√						√	√			√		√	√
	Pharmaceutical accounting and management	√															√
	Hematology and immunology	√															√
	Advanced Pharmacy practice	√	√	√	√	√		√	√	√	√	√	√	√	√	√	√

	Advanced research methods	√		√	√	√	√	√	√		√		√	√	√	√	√
	Advanced clinical pharmacy and therapeutice \ pediatric	√	√	√	√		√	√	√		√	√		√	√	√	√
	Advanced clinical pharmacy and therapeutice \Icu	√	√	√	√		√	√	√		√	√		√	√	√	√
	Advanced clinical pharmacy and therapeutice \Surgery	√	√	√	√		√	√	√		√	√		√	√	√	√
	Advanced clinical pharmacy and therapeutice \gynocology	√	√	√	√		√	√	√		√	√		√	√	√	√
	Clinical nutrition	√						√	√	√		√	√	√	√	√	√
	Drug informatics	√				√		√	√	√		√	√	√	√	√	√
	selected topics in pharmacology	√				√		√	√	√		√	√	√	√	√	√
	photochemistry of natural products	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√