

Title of the Course	Human Anatomy and Phys	siology I							
Course Code	BP-101[T]								
& Bloom's Level	human body(BL1-Remem CO2- Describe the various Understand) CO3- Identify the various t Evaluate) CO4- Perform the various system(BL3-Apply)	ber) homeostatic m issues and orga experiments rel	eture and functions of various organs of the nechanisms and their imbalances. <b>(BL2-</b> ans of different systems of human body <b>(BL5-</b> lated to special senses and nervous lymphatic system and immunity in human						
Course Elements	Skill Development ✓ Entrepreneurship × Employability × Professional Ethics × Gender × Human Values × Environment ×								

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	-	2	-	1	-	-	2	-	3	1	3	1	3
CO2	2	1	-	1	-	1	-	-	1	-	2	1	2	1	2
CO3	3	2	-	-	-	1	-	-	2	-	1	1	2	1	2
CO4	3	2	-	1	1	2	-	-	-	-	-	-	1	2	1
CO5	2	1	-	-	1	-	1	-	-	-	-	-	1	2	1
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Pharmaceutical Analysis I	Pharmaceutical Analysis I										
Course Code	BP-102[T]											
Course Outcomes & Bloom's Level	Understand) CO2- To gain knowledge of Remember) CO3- To analyze the techni Apply) CO4- To explain about accu Remember) CO5- To compute analytica	sources of erro ques of volume uracy, precision l results and un	tric and electro chemical analysis( <b>BL2</b> - ors and minimizing techniques.( <b>BL1</b> - etric, gravimetric and gas analysis.( <b>BL3</b> - and significant figure error concepts.( <b>BL1</b> - iderstand the physiochemical concepts of chiometry etc( <b>BL4-Analyze</b> )									
Course Elements	Skill Development ✓ Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG4(Quality education) SDG8(Decent work and economic growth) SDG17(Partnerships for the goals)									

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	-	3	3	-	-	1	1	-	3	1	3	2	1
CO2	2	2	-	2	2	-	-	1	2	-	3	2	2	1	2
CO3	2	2	1	-	1	-	-	2	1	-	2	1	1	1	1
CO4	2	1	3	-	1	-	-	2	1	-	2	1	1	-	1
CO5	3	3	2	-	1	1	-	-	-	-	-	-	1	1	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Pharmaceutics I		
Course Code	BP-103[T]		
	and pharmaceutical calcula CO3- Understand the profe CO4- Preparation of solid a	s of different d ations <b>(BL2-Und</b> ssional way of and liquid dosag	osage forms, pharmaceutical incompatibilities lerstand) handling the prescription(BL2-Understand)
Course Elements	Skill Development ✓ Entrepreneurship X Employability X Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG4(Quality education) SDG8(Decent work and economic growth) SDG17(Partnerships for the goals)

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	3	-	3	2	1	-	-	-	3	2	3	2	2
CO2	3	2	3	-	-	-	-	-	-	-	-	-	3	2	1
CO3	2	2	2	-	-	1	1	2	-	3	3	-	3	1	1
CO4	2	1	1	-	-	-	-	-	-	-	2	1	3	3	-
CO5	2	1	-	1	-	1	-	1	-	-	2	-	1	1	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Pharmaceutical Inorganic	Chemistry										
Course Code	BP-104[T]	2-104[T]										
Course Outcomes & Bloom's Level	Understand) CO2- To know the sources inorganic pharmaceuticals. CO3- To gain knowledge or compounds.(BL1-Rememb CO4- To understand the me Understand)	of impurities ar ( <b>BL1-Rememb</b> n limit tests of d <b>Der)</b> ethod to prepar al importance d	lifferent pharmaceutical inorganic re inorganic pharmaceuticals <b>(BL2-</b> of acidifiers, antacids, cathartics and									
Course Elements	Skill Development ✓ Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG4(Quality education) SDG8(Decent work and economic growth) SDG17(Partnerships for the goals)									

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	1	-	2	1	2	1	3	-	3	-	3	3	-
CO2	3	2	1	2	2	1	1	1	2	-	3	-	2	3	1
CO3	2	2	1	1	2	2	1	1	2	-	3	1	1	2	-
CO4	2	2	1	1	2	1	1	1	1	-	2	-	1	1	-
CO5	3	1	2	1	3	1	2	1	1	-	2	3	1	2	1
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Communication Skills *	ommunication Skills *										
Course Code	BP-105[T]	·105[T]										
	areas of pharmaceutical op <b>CO2-</b> Communicate effectiv	eration. <b>(BL2-U</b> vely (Verbal and ne team as a te skills <b>(BL3-App</b>	d Non-Verbal) <b>(BL3-Apply)</b> am player <b>(BL2-Understand)</b> <b>ly)</b>									
Course Elements	Skill Development ✓ Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG4(Quality education) SDG8(Decent work and economic growth) SDG17(Partnerships for the goals)									

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	-	-	-	-	-	3	-	1	-	-	3	3	-	1	3
CO2	-	-	-	-	-	2	1	1	-	-	2	2	-	1	3
CO3	-	1	-	-	-	1	-	1	-	-	2	2	-	1	3
CO4	-	-	-	1	-	2	1	1	-	-	2	3	-	1	3
CO5	-	-	-	-	-	-	1	1	-	-	1	2	-	1	3
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Remedial Biology *		
Course Code	BP-106RB[T]		
& Bloom's Level	kingdoms(BL1-Remember) CO2- Understand the basic of Understand) CO3- To determine role of ho body and process of oogenes CO4- To elaborate the physic plant/animal tissues(BL3-Ap	components of a prmones in regula sis and spermate plogy, nutrient re <b>ply)</b>	organisms and classification of natomy & physiology of plant( <b>BL2-</b> ation of various organs functioning in the ogenesis( <b>BL2-Understand)</b> quirements for plants and to predict spinal cord, and role of kidney in regulation
Course Elements	Skill Development X Entrepreneurship X Employability X Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG3(Good health and well-being) SDG4(Quality education) SDG17(Partnerships for the goals)

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	1	-	1	1	1	1	-	1	-	3	-	3	-	2
CO2	3	1	-	2	-	-	-	-	1	-	3	-	2	-	2
CO3	2	2	-	1	-	1	-	-	-	-	2	-	2	-	2
CO4	2	2	-	1	-	-	-	-	1	-	2	-	1	-	1
CO5	3	1	-	1	-	-	-	-	1	-	2	-	3	-	1
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Remedial Mathematics *		
Course Code	BP-106RM[T]		
Course Outcomes & Bloom's Level	<b>CO2-</b> Solve the different typ <b>CO3-</b> Appreciate the importa <b>CO4-</b> To adopt both convent mathematical problems. <b>(BL</b>	es of problems ant application of tional and creat <b>4-Analyze)</b> niques effective	es in pharmacy( <b>BL1-Remember</b> ) by applying theory( <b>BL2-Understand</b> ) of mathematics in Pharmacy( <b>BL4-Analyze</b> ) ive techniques to the solutions of ly to solve problems including theory <b>L3-Apply</b> )
Course Elements	Skill Development ✓ Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG4(Quality education) SDG6(Clean water and sanitation) SDG8(Decent work and economic growth)

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	-	2	1	1	1	-	-	-	-	-	2	-	-	1	1
CO2	-	3	1	-	1	-	-	-	-	-	1	-	-	1	-
CO3	-	2	1	-	1	-	-	-	-	-	1	-	-	1	1
CO4	1	2	1	1	1	-	-	-	-	-	1	-	-	-	1
CO5	-	2	-	-	2	-	-	-	-	-	2	-	-	-	1
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Fine art and Music-I *	ine art and Music-I *											
Course Code	BP-113[T]	2-113[T]											
	presentation in free hand dra	awing exercises al perspective, s	ate observation and skills of graphic s from objects and nature to study suggestion of solidity by line, mass, value experiences <b>(BL3-Apply)</b>										
Course Elements	Skill Development ✓ Entrepreneurship ✓ Employability ✓ Professional Ethics × Gender × Human Values × Environment ×	SDG (Goals)	SDG8(Decent work and economic growth) SDG17(Partnerships for the goals)										

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	-	-	1	-	-	-	-	-	-	-	2	-	-	-	-
CO2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Human anatomy and Phys	iology	
Course Code	BP-107[P]		
Course Outcomes & Bloom's Level	tissues.(BL1-Remember) CO2- To summarize the ch Understand) CO3- To identify the bleedin CO4- To analyze the blood	aracteristics of ng/clotting time cells using hea , HR, PR, hemc	roscope and to memorize various animal different bones (skeletal system) <b>(BL2-</b> and blood group <b>(BL2-Understand)</b> mocytometry <b>(BL4-Analyze)</b> oglobin concentration of human blood and
Course Elements	Skill Development ✓ Entrepreneurship X Employability X Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG4(Quality education) SDG8(Decent work and economic growth)

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	-	-	1	2	-	-	-	-	-	3	-	3	-	2
CO2	3	-	-	-	1	-	-	1	-	-	3	-	2	1	3
CO3	3	1	-	1	1	-	-	-	-	-	3	-	3	-	2
CO4	1	-	-	-	2	-	-	1	-	-	3	-	1	-	1
CO5	1	1	-	-	1	1	-	-	-	-	3	-	2	-	1
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Pharmaceutical Analysis I		
Course Code	BP-108[P]		
Course Outcomes & Bloom's Level	burette (BL2-Understand) CO2- To demonstrate standar CO3- To experiment with volu oxidation and reduction react aqueous titration(BL4-Analyz CO4- To analyze gravimetric	rdization of solut umetric analysis ions, iodometry, <b>ze)</b> analytical techni	ation, calibration of weights, pipette and itions with different strengths <b>(BL3-Apply)</b> such as acidimetry and alkalimetry, complexometry, precipitation and non- iques <b>(BL4-Analyze)</b> netry and electrochemical methods <b>(BL5-</b>
	Skill Development ✓ Entrepreneurship X Employability X Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG4(Quality education) SDG8(Decent work and economic growth)

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	-	1	1	-	-	-	-	-	3	-	3	-	2
CO2	3	2	1	-	1	-	-	-	-	-	3	-	3	-	1
CO3	2	3	3	2	-	-	-	-	-	-	2	-	2	-	1
CO4	2	2	2	-	1	-	-	-	-	-	2	-	1	1	1
CO5	2	3	1	1	-	-	-	-	-	-	3	-	1	-	1
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Pharmaceutics I		
Course Code	BP-109[P]		
Course Outcomes & Bloom's Level	dosage forms(BL1-Remem CO2- Understand the profe CO3- To experiment with so external administration.(BL CO4- To formulate Biphasic	i <b>ber)</b> ssional way of h blid and monoph <b>3-Apply)</b> c liquid dosage f	reparation of solid, liquid and semi solid nandling the prescription( <b>BL2-Understand</b> ) nasic liquid dosage forms for internal and form and their evaluation( <b>BL5-Evaluate</b> ) and their evaluation( <b>BL3-Apply</b> )
	Skill Development ✓ Entrepreneurship X Employability X Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG4(Quality education) SDG8(Decent work and economic growth)

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	1	3	1	2	-	-	-	1	2	3	1	3	-	3
CO2	3	2	3	2	-	-	-	-	-	1	3	3	2	-	2
CO3	2	2	3	-	1	-	-	-	1	1	3	2	3	-	2
CO4	3	1	3	3	1	-	-	-	-	-	2	-	3	-	2
CO5	2	1	3	2	1	1	-	-	2	2	1	1	-	-	3
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Pharmaceutical Inorganic	narmaceutical Inorganic Chemistry											
Course Code	BP-110[P]	·110[P]											
Course Outcomes & Bloom's Level	compounds(BL1-Rememb CO2- Understand the med compounds(BL2-Understa CO3- To demonstrate the p CO4- To analyze various ir test(BL4-Analyze)	<b>ber)</b> icinal and pharr and) preparation of ir norganic pharm	reparation and identification of maceutical importance of inorganic norganic pharmaceuticals. <b>(BL3-Apply)</b> aceutical compounds and perform limit eparation of inorganic pharmaceuticals <b>(BL4-</b>										
Course Elements	Skill Development ✓ Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment √	SDG (Goals)	SDG4(Quality education) SDG6(Clean water and sanitation) SDG8(Decent work and economic growth)										

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	-	2	1	-	-	-	2	2	2	-	2	-	3
CO2	2	1	1	3	2	-	-	-	1	1	3	-	2	-	1
CO3	3	2	1	1	2	-	-	-	-	-	3	-	3	1	2
CO4	3	2	1	3	2	-	-	-	1	-	2	-	1	1	1
CO5	3	3	-	1	1	-	-	-	-	1	2	-	3	-	3
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Communication Skills											
Course Code	BP-111[P]	Y-111[P]										
Course Outcomes & Bloom's Level	areas of pharmaceutical opera CO2- To apply the practical sk (BL3-Apply) CO3- To take part in advanced (BL4-Analyze) CO4- To develop the interview	<b>3-</b> To take part in advanced learning on comprehension/direct and indirect speech.										
Course Elements	Skill Development ✓ Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG3(Good health and well-being) SDG4(Quality education)									

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	-	-	-	-	-	3	-	-	1	3	3	1	3	1	1
CO2	-	-	-	-	-	2	-	1	-	3	2	1	2	1	1
CO3	-	-	-	-	-	2	-	1	1	2	2	3	2	2	1
CO4	-	-	-	-	-	1	-	-	1	2	2	2	2	2	1
CO5	-	-	-	-	-	1	-	-	1	1	2	1	2	1	1
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Remedial Biology		
Course Code	BP-112BP[P]		
& Bloom's Level	<b>CO3-</b> To identify various plant <b>Remember)</b> <b>CO4-</b> To assessthe microscop root, leaf, seed, fruit and flowe	ture of cell and its parts, and to org pical study and ider. ( <b>BL1-Rememb</b>	s inclusions. <b>(BL2-Understand)</b> anize their modifications <b>(BL1-</b> entification of tissues pertinent to stem,
Course Elements	Skill Development ✓ Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG3(Good health and well-being) SDG4(Quality education)

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	-	-	-	1	1	-	-	-	3	-	2	-	2
CO2	2	-	1	-	-	-	-	-	-	-	2	-	2	-	2
CO3	2	2	-	-	-	1	-	-	-	-	2	-	1	-	1
CO4	2	2	-	-	-	1	1	-	-	-	2	-	1	-	1
CO5	2	3	1	-	-	-	-	-	-	-	2	-	1	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Remedial Biology *		
Course Code	BP-112RB[P]		
Course Outcomes & Bloom's Level	techniques(BL2-Understan CO2- To understand the str CO3- To identify various pla Remember) CO4- To assessthe microso root, leaf, seed, fruit and flo	nd) ructure of cell a ant parts, and to copical study ar ower.( <b>BL1-Rem</b> s identification, l	and permanent slide preparation nd its inclusions. <b>(BL2-Understand)</b> o organize their modifications <b>(BL1-</b> nd identification of tissues pertinent to stem, member) blood group, blood pressure and tidal volume
	Skill Development X Entrepreneurship X Employability X Professional Ethics X Gender X Human Values X Environment X		SDG1(No poverty) SDG4(Quality education) SDG8(Decent work and economic growth) SDG17(Partnerships for the goals)

-															
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	-	-	-	1	1	-	-	-	3	-	2	-	2
CO2	2	-	1	-	-	-	-	-	-	-	3	-	2	-	2
CO3	2	1	-	-	-	-	-	-	-	-	2	-	1	1	1
CO4	2	2	-	-	-	1	1	-	-	-	2	-	1	1	1
CO5	2	3	1	-	-	1	-	-	-	-	2	-	1	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Human Anatomy and Physio	luman Anatomy and Physiology II										
Course Code	BP201T	201T										
Course Outcomes & Bloom's Level	human body.(BL1-Remember CO2- Describe the various ho Understand) CO3- Identify the various tiss Apply) CO4- Perform the hematolog bleeding/clotting time etc and respiratory volume.(BL3-App	er) omeostatic mech ues and organs ical tests like blo also record bloc ly)	e and functions of various organs of the nanisms and their imbalances( <b>BL2-</b> of different systems of human body( <b>BL3-</b> od cell counts, haemoglobin estimation, od pressure, heart rate, pulse and of different organs of each system( <b>BL2-</b>									
Course Elements	Skill Development ✓ Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG1(No poverty) SDG3(Good health and well-being) SDG4(Quality education) SDG17(Partnerships for the goals)									

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	-	-	-	2	2	-	1	-	-	3	-	3	-	2
CO2	1	-	-	1	-	1	-	1	-	-	3	-	3	-	2
CO3	3	-	-	1	1	1	-	-	-	-	3	-	2	-	2
CO4	1	-	-	1	1	1	-	2	-	-	2	-	2	-	2
CO5	1	-	-	2	1	1	1	1	-	-	2	-	2	-	1
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Pharmaceutical Organic C	Pharmaceutical Organic Chemistry I											
Course Code	BP202T												
& Bloom's Level	organic compounds (BL3-, CO2- To remember the ori Remember) CO3- To apply the knowled CO4- To discuss chemistry Understand)	Apply) entation of reac dge for the iden y and reactions acepts of hybridi	nenclature, properties, reactions and uses of ctions and influence products. <b>(BL1-</b> tification of organic compounds. <b>(BL3-Apply)</b> of various organic compounds. <b>(BL2-</b> ization, electronic and steric effects of organic										
	Skill Development ✓ Entrepreneurship X Employability X Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG3(Good health and well-being) SDG4(Quality education) SDG9(Industry Innovation and Infrastructure)										

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	-	-	-	3	-	2	-	-	-	3	-	3	-	2
CO2	2	-	-	-	3	-	1	-	-	-	3	-	1	-	2
CO3	2	2	-	-	2	-	-	-	-	-	3	-	2	-	2
CO4	2	1	-	-	1	-	1	-	-	-	3	-	1	-	2
CO5	2	1	1	-	1	-	-	-	-	-	3	-	1	-	2
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Biochemistry	iochemistry											
Course Code	BP203T												
	<b>CO2-</b> To understand the metal transport and ATP formation( <b>B</b> <b>CO3-</b> To apply the concept of drugs, diagnostic and theraped	acids, proteins ar bolism of carbohy catalytic activity a utic applications o ss of DNA replica	nd amino acids <b>(BL1-Remember)</b> ydrates and process of electron and enzyme inhibition in design of new of enzyme <b>(BL3-Apply)</b> ation, transcription and translation <b>(BL2-</b>										
Course Elements	Skill Development ✓ Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG3(Good health and well-being) SDG4(Quality education)										

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	-	-	-	1	-	-	-	-	3	-	2	1	3
CO2	2	1	-	-	1	-	-	-	-	-	3	-	2	1	2
CO3	2	2	-	-	-	-	-	-	-	-	3	-	2	1	1
CO4	3	2	-	1	1	-	1	-	-	-	2	-	1	-	1
CO5	3	1	-	1	1	-	-	-	-	-	2	-	-	-	2
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Pathophysiology		
Course Code	BP204T		
Course Outcomes & Bloom's Level	adaptations.(BL2-Understand CO2- To understand the etiopa diseases mentioned.(BL2-Und CO3- To apply the principles of complications of disease states CO4- To explain the etiopathog gastrointestinal, muscular skele diseases.(BL1-Remember)	) hthogenesis of cal e <b>rstand)</b> f pathogenesis in s mentioned. <b>(BL3</b> genesis of hemato etal diseases and	
Course Elements	Skill Development ✓ Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG3(Good health and well-being) SDG4(Quality education)

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	-	-	-	-	1	-	1	-	-	3	-	3	-	3
CO2	3	2	-	-	-	1	-	1	-	-	3	-	2	-	2
CO3	2	-	-	-	-	1	-	1	-	-	3	-	2	-	2
CO4	2	2	-	1	1	-	-	-	-	-	3	-	2	-	2
CO5	3	1	-	1	-	-	-	-	-	-	3	-	1	-	2
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Computer Applications in Pharma	computer Applications in Pharmacy *											
Course Code	BP205T	205T											
& Bloom's Level	<b>CO1-</b> To understand different type databases in pharmacy.( <b>BL2-Und</b> <b>CO2-</b> To illustrate the concept of r <b>CO3-</b> Applications of web technolo languages, Web servers and phar <b>CO4-</b> To evaluate the applications services, pharmacokinetics, mathe pharmacy etc.,( <b>BL5-Evaluate</b> ) <b>CO5-</b> To explain about bioinforma <b>Remember</b> )	lerstand) number system in c ogies such as HTM macy drug databa of computers in pl ematical model in c	computers. <b>(BL2-Understand)</b> IL, XML, CSS, programming se. <b>(BL3-Apply)</b> harmacy such as drug information drug design, hospital and clinical										
Course Elements	Skill Development ✓ Entrepreneurship ✓ Employability ✓ Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG4(Quality education) SDG5(Gender equality)										

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	-	1	-	-	1	1	-	1	-	-	3	2	1	1	1
CO2	-	1	-	-	1	1	-	1	-	-	2	2	1	1	1
CO3	-	1	-	-	1	1	-	1	-	-	2	1	1	1	1
CO4	-	1	-	1	1	-	-	-	-	-	3	1	-	-	-
CO5	-	-	-	1	-	1	-	-	-	-	1	1	-	1	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Environmental sciences <sup>3</sup>	vironmental sciences *										
Course Code	BP206T											
	Remember) CO2- To compare the nat problems associated with CO3- To motivate the lear improvement.(BL3-Apply CO4- To analyze the cond Analyze)	<ul> <li>D2- To compare the natural, renewable and nonrenewable resources and the oblems associated with them.(BL2-Understand)</li> <li>D3- To motivate the learners to participate in environment protection and provement.(BL3-Apply)</li> <li>D4- To analyze the concepts of eco system including structure and functions.(BL4-nalyze)</li> <li>D5- To implement skills in identifying and solving environmental problems.(BL3-</li> </ul>										
	Skill Development X Entrepreneurship X Employability X Professional Ethics X Gender X Human Values √ Environment √	SDG (Goals)	SDG3(Good health and well-being) SDG4(Quality education) SDG7(Affordable and clean energy) SDG11(Sustainable cities and economies) SDG12(Responsible consuption and production) SDG13(Climate action) SDG15(Life on land)									

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	-	-	-	-	-	-	3	-	-	-	2	-	-	-	-
CO2	-	-	-	-	-	-	3	-	-	-	3	-	-	-	-
CO3	-	-	-	-	-	-	3	1	-	-	2	-	-	-	-
CO4	-	-	-	-	-	-	3	-	-	-	1	-	-	-	-
CO5	-	-	-	-	-	-	2	1	-	-	2	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Fine art and Music II *	ne art and Music II *												
Course Code	BP211T	211T												
Course Outcomes & Bloom's Level	CO1- Study of two-dimensional Understand) CO2- Study of three-dimensiona Understand)		· · · ·											
Course Elements	Skill Development ✓ Entrepreneurship X Employability X Professional Ethics X Gender X Human Values ✓ Environment X	SDG (Goals)	SDG4(Quality education)											

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	-	-	-	-	-	-	-	-	2	2	-	-	-	-
CO2	2	-	-	-	-	-	-	-	-	1	3	-	-	-	-
CO3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Human Anatomy and Physiol	luman Anatomy and Physiology II										
Course Code	BP207P											
	specimens.( <b>BL1-Remember</b> ) <b>CO2-</b> To develop the knowledg with the help of models, charts <b>CO3-</b> To analyze the functions functions.( <b>BL4-Analyze</b> ) <b>CO4-</b> To evaluate body tempe	<ul> <li>2- To develop the knowledge on coordinating working of organs of various systems the help of models, charts and specimens. (BL3-Apply)</li> <li>3- To analyze the functions of cranial nerves by various sensory and motor</li> </ul>										
Course Elements	Skill Development ✓ Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment X		SDG3(Good health and well-being) SDG4(Quality education)									

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	-	-	-	1	1	-	-	-	-	3	-	3	-	1
CO2	2	1	-	-	1	1	-	-	-	-	2	-	3	-	1
CO3	2	1	-	-	1	1	-	-	-	-	2	-	2	-	1
CO4	3	-	-	-	-	1	-	-	-	-	3	-	2	-	2
CO5	2	-	1	1	1	-	-	-	-	-	3	-	2	-	2
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Pharmaceutical Organic Cl	Pharmaceutical Organic Chemistry I										
Course Code	BP208P											
	compounds.(BL1-Rememb CO2- To identify the extra e (BL2-Understand) CO3- To analyze the preser compounds.(BL4-Analyze) CO4- To appraise the rules compounds.(BL5-Evaluate	er) lements, preser nce of several fu concerned with ) pharmaceutical	d preparation of pharmaceutical organic nt in the pharmaceutical organic compounds. unctional groups in pharmaceutical reactivity and orientation of organic organic compounds by determining their									
Course Elements	Skill Development ✓ Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment X	Skill Development ✓ Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X										

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	1	-	-	-	-	-	-	-	-	3	-	2	3	1
CO2	3	2	-	-	2	-	-	1	-	-	3	-	3	2	1
CO3	2	1	-	-	1	-	-	-	-	-	3	-	2	2	2
CO4	2	2	-	-	1	-	1	-	-	-	2	-	2	1	1
CO5	3	1	-	-	1	1	-	-	-	-	2	-	2	2	2
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Biochemistry	Jiochemistry										
Course Code	BP209P											
Course Outcomes & Bloom's Level	Remember) CO2- To understand the princ Understand) CO3- To identify the amount of CO4- To examine and evaluat significance(BL5-Evaluate)	ciple and clinical s of reducing sugar te the constituen of temperature a	carbohydrates and proteins <b>(BL1-</b> significance of blood glucose <b>(BL2-</b> rs by DNSA method <b>(BL3-Apply)</b> its present in Urine and their clinical and substrate concentration on salivary									
Course Elements	Skill Development ✓ Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment X		SDG3(Good health and well-being) SDG4(Quality education)									

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	-	3	-	2	-	-	-	-	3	-	3	1	2
CO2	2	1	-	2	1	-	-	-	-	-	3	-	1	1	2
CO3	3	3	-	2	-	1	-	-	-	-	3	-	3	1	2
CO4	2	2	-	2	-	-	-	-	-	-	3	-	1	-	3
CO5	2	2	-	1	-	-	-	-	-	-	2	-	2	-	2
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Computer Applications in Pharma	omputer Applications in Pharmacy *											
Course Code	BP210P												
& Bloom's Level	<b>CO1-</b> To demonstrate and make u and MS Power point.( <b>BL1-Remei</b> <b>CO2-</b> To understand the paradign one language from each model, C <b>CO3-</b> To summarize the report an <b>Understand</b> ) <b>CO4-</b> To design a questionnaire u about a particular disease.( <b>BL3-A</b> <b>CO5-</b> To create HTML web page 1	mber) ns of program lange C and SQL.(BL2-Ui Id printing the report Ising a word proces Apply)	uages and be exposed to at least nderstand) rt from patient database(BL2- ssing package to gather information										
Course Elements	Skill Development ✓ Entrepreneurship ✓ Employability ✓ Professional Ethics × Gender × Human Values × Environment ×	SDG (Goals)	SDG4(Quality education)										

-															
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	-	1	-	-	1	-	-	-	-	1	2	-	1	1	1
CO2	-	1	-	-	1	-	-	-	-	-	1	-	1	1	1
CO3	-	1	-	-	2	-	-	-	-	-	1	-	1	1	1
CO4	-	1	-	-	1	1	-	-	-	-	2	-	1	2	-
CO5	-	1	-	-	2	-	-	-	-	-	2	-	-	-	1
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Pharmaceutical Organic Che	Pharmaceutical Organic Chemistry II										
Course Code	BP301T											
	Remember) CO2- To understand the condrancidity of oils(BL2-Underst CO3- To Account for reactivity CO4- To gain knowledge on o (BL4-Analyze)	cept of hydrolysis t <b>and)</b> y/stability of com chemistry of pher structure and me	stry and reactions of benzene. <b>(BL1-</b> s, hydrogenation, saponification and pounds <b>(BL3-Apply)</b> nols, aromatic amines and aromatic acids. dicinal uses of pharmaceutical organic									
Course Elements	Skill Development ✓ Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment X		SDG3(Good health and well-being) SDG4(Quality education)									

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	1	-	-	2	-	1	-	1	-	3	-	3	-	2
CO2	3	1	-	-	1	-	-	-	-	-	3	-	2	-	2
CO3	2	-	-	-	1	-	1	-	1	-	2	-	3	-	3
CO4	2	1	-	-	1	-	-	-	-	-	2	-	2	1	1
CO5	2	-	-	-	2	-	-	-	-	-	2	-	1	-	1
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Physical Pharmaceutics I	hysical Pharmaceutics I										
Course Code	BP302T											
	<b>CO2-</b> To gain knowledge of pharmaceutical formulations <b>CO3-</b> To understand the prin active agents in drug solubili <b>CO4-</b> To elaborate the signif and stability of dosage forms <b>CO5-</b> To describe the princip	<ul> <li>siochemical properties to design dosage forms(BL2-Understand)</li> <li>2- To gain knowledge of pH and buffers and their use in the stabilization of armaceutical formulations.(BL3-Apply)</li> <li>3- To understand the principle of interfacial tension and the applications of surface ve agents in drug solubilization.(BL2-Understand)</li> <li>4- To elaborate the significance of physical properties of drug molecules in design I stability of dosage forms.(BL1-Remember)</li> <li>5- To describe the principles of diffusion in biological systems and the the concepts complexation and protein binding in pharmacy.(BL1-Remember)</li> </ul>										
Course Elements	Skill Development ✓ Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment X		SDG4(Quality education) SDG8(Decent work and economic growth)									

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	3	-	2	-	-	-	-	-	3	-	3	-	1
CO2	2	3	2	-	1	-	-	-	-	-	3	-	2	-	2
CO3	2	2	3	-	2	-	-	-	-	-	3	-	1	2	3
CO4	2	1	3	-	2	1	-	-	-	-	3	-	1	1	3
CO5	1	2	3	-	1	-	-	-	-	-	3	-	3	-	1
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Pharmaceutical Microbiolog	Pharmaceutical Microbiology										
Course Code	BP303T	303T										
	microorganisms(BL2-Unde CO2- To understand the imp pharmaceutical processing CO3- To Learn sterility testin CO4- Carried out microbiolo	rstand) portance and im and industry( <b>BL</b> ng of pharmace ogical standardiz ulture technolog										
Course Elements	Skill Development ✓ Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment ✓	SDG (Goals)	SDG4(Quality education) SDG6(Clean water and sanitation) SDG8(Decent work and economic growth)									

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	1	-	1	2	-	-	-	-	-	3	-	3	-	3
CO2	3	2	-	1	2	-	-	-	-	-	3	-	2	-	2
CO3	2	1	-	-	1	1	-	-	-	-	3	-	2	-	2
CO4	2	2	-	-	2	-	-	-	-	-	3	-	2	-	2
CO5	2	1	-	-	1	-	-	-	-	-	3	-	1	-	3
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Pharmaceutical Engineer	Pharmaceutical Engineering									
Course Code	BP304T	2304T									
Course Outcomes & Bloom's Level	Remember) CO2- To understand the r CO3- To perform various process(BL3-Apply) CO4- To carry out various	material handli processes invo s test to prever arious prevent	sed in pharmaceutical industries(BL1- ng techniques(BL2-Understand) olved in pharmaceutical manufacturing nt environmental pollution(BL3-Apply) ive methods used for corrosion control in tand)								
Course Elements	Skill Development ✓ Entrepreneurship ✓ Employability ✓ Professional Ethics × Gender × Human Values × Environment ×	SDG (Goals)	SDG4(Quality education) SDG8(Decent work and economic growth) SDG9(Industry Innovation and Infrastructure) SDG12(Responsible consuption and production)								

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	-	-	2	-	-	-	-	-	3	-	2	-	1
CO2	2	2	1	-	-	2	-	-	-	-	3	-	2	-	2
CO3	2	3	-	-	1	2	-	-	-	-	2	-	2	-	1
CO4	3	2	2	-	-	2	-	-	-	-	2	-	1	1	1
CO5	2	1	-	1	1	2	-	-	-	-	1	-	1	-	1
CO6	-	-	-		-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Fine art and Music III/online certi	ine art and Music III/online certification course *												
Course Code	BP309T	309T												
Course Outcomes	<b>CO1-</b> Study of two-dimensional s three-dimensional space and its c <b>CO2-</b> Study of three-dimensional <b>Understand)</b>	organizational poss	ibilities(BL2-Understand)											
Course Elements	Skill Development ✓ Entrepreneurship X Employability X Professional Ethics X Gender X Human Values ✓ Environment X	SDG (Goals)	SDG4(Quality education)											

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Pharmaceutical Organic Che	Pharmaceutical Organic Chemistry II										
Course Code	BP305P											
Course Outcomes & Bloom's Level	techniques.(BL2-Understan CO2- To remember and reca pharmaceutical chemistry.(B CO3- To identify the purity of value and perform various re CO4- To analyze named read carbonyl compounds(BL4-Au CO5- To test the knowledge	d) Il the different la L1-Remember) fats and oils by action like diazo ctions like perkir nalyze) on different elec										
Course Elements	Skill Development ✓ Entrepreneurship ✓ Employability ✓ Professional Ethics × Gender × Human Values × Environment ×	SDG (Goals)	SDG4(Quality education) SDG8(Decent work and economic growth)									

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	-	2	1	-	-	-	-	-	3	-	1	-	3
CO2	2	3	-	2	1	-	-	-	-	-	2	-	2	-	3
CO3	3	1	-	-	2	-	-	2	-	-	2	-	1	1	1
CO4	2	2	-	1	-	-	-	-	-	-	3	-	1	1	1
CO5	3	1	-	1	-	-	-	-	-	-	1	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Physical Pharmaceutics I		
Course Code	BP306P		
Course Outcomes & Bloom's Level	tension, partition coefficient a CO2- To explain adsorption is using activated charcoal.(BL CO3- To apply Henderson – I drugs(BL3-Apply) CO4- To determine the surfac methods and deduce the HLE surfactant(BL4-Analyze)	nd pKa in the de sotherms and de <b>2-Understand)</b> Hasselbalch equ ce tension of sau 3 value and critic v constants of co	ical properties such as solubility, surface esign of dosage forms <b>(BL2-Understand)</b> etermine Freundlich-Langmuir constant uation for interpretation of pKa value of mple liquids by drop count and drop weight cal micellar concentration of a
Course Elements	Skill Development ✓ Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG4(Quality education) SDG8(Decent work and economic growth)

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	3	1	1	-	-	-	-	-	3	-	2	2	3
CO2	3	2	1	-	1	-	-	-	-	-	3	-	2	1	1
CO3	2	1	1	1	2	-	-	-	1	-	1	-	-	1	2
CO4	2	2	2	-	1	-	-	-	1	-	2	-	1	1	1
CO5	1	1	3	1	-	-	1	-	-	-	2	-	-	-	1
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Pharmaceutical Microbiology	Pharmaceutical Microbiology											
Course Code	BP307P	2307P											
Course Outcomes & Bloom's Level	CO1- Understand methods of ide microorganisms(BL2-Understan CO2- To Learn sterility testing of CO3- Carried out microbiological CO4- To demonstrate various sta staining(BL3-Apply) CO5- To choose the correct meth Evaluate)	<b>d)</b> pharmaceutical pro standardization of ining methods – sin	oducts <b>(BL3-Apply)</b> Pharmaceuticals <b>(BL4-Analyze)</b> mple, gram staining and acid fast										
	Skill Development ✓ Entrepreneurship X Employability X Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG4(Quality education)										

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	3	-	-	1	-	-	-	-	-	3	-	2	-	3
CO2	2	2	-	-	2	-	-	1	-	-	2	-	2	-	2
CO3		2	1	-	1	-	1	-	-	-	3	-	1	-	2
CO4	3	2	1	1	1	1	-	1	-	-	3	-	1	2	1
CO5	2	3	1	-	1	-	1	-	-	-	3	-	1	1	1
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Pharmaceutical Engineering		
Course Code	BP308P		
Course Outcomes & Bloom's Level	CO1- To know various unit operation Understand) CO2- To demonstrate and explain pharmaceutical equipments such and freeze dryer.(BL3-Apply) CO3- To experiment with the proces same(BL3-Apply) CO4- To determine overall heat transitilation the efficiency of steam distillation CO5- To estimate moisture conter- calcium carbonate and starch(BL	about the construct as colloid mill, plan ess variables of filt ansfer coefficient b <b>BL4-Analyze)</b> nt, loss on drying an	ction, working and applications of letary mixer, fluidized bed dryer ration, evaporation and infer the y heat exchanger and calculate
Course Elements	Skill Development ✓ Entrepreneurship ✓ Employability ✓ Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG4(Quality education)

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	3	3	1	1	-	-	-	-	-	3	-	2	-	2
CO2	2	3	2	2	2	-	-	-	-	-	3	-	2	-	2
CO3	3	2	1	1	1	-	-	-	-	-	2	-	1	-	3
CO4	2	2	1	1	2	-	-	-	-	-	2	-	3	1	2
CO5	3	1	1	-	1	-	-	-	-	-	1	-	1	1	1
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Pharmaceutical Organic Chemist	narmaceutical Organic Chemistry III										
Course Code	BP401T	401T										
Course Outcomes & Bloom's Level	CO1- To understand the nomencla heterocyclic compounds.(BL2-Un CO2- To understand the fundame CO3- To identify medicinal uses a Apply) CO4- To explain stereo isomerism activity.(BL1-Remember) CO5- To elaborate the reactions a (NaBH4 & LiAIH4), Clemmensen rearrangement.(BL2-Understand	derstand) ntals of stereo cher nd other application in biphenyl compo and synthetic impor reduction, Oppenat	mical aspects( <b>BL2-Understand</b> ) ns of organic compounds.( <b>BL3-</b> ounds and conditions for optical tance of metal hydride reduction									
Course Elements	Skill Development ✓ Entrepreneurship X Employability X Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG4(Quality education)									

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	3	-	1	-	-	-	2	-	2	-	3	1	3
CO2	2	1	2	-	2	-	-	-	1	-	2	-	2	-	2
CO3	2	2	2	-	3	-	-	-	-	-	2	-	3	1	2
CO4	2	-	-	-	2	-	-	-	-	-	3	-	2	-	1
CO5	3	-	-	-	1	-	-	-	-	-	2	-	1	-	1
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Medicinal Chemistry I		
Course Code	BP402T		
Course Outcomes & Bloom's Level	CO2- To explain the phys metabolic pathways(BL2 CO3- To identify the struc Analyze) CO4- To categorize the d uses(BL2-Understand)	sicochemical pr - <b>Understand)</b> stural requirem rugs based on	edicinal compounds <b>(BL1-Remember)</b> operties, steric aspects of drugs and their ents of drugs to elicit biological response <b>(BL4-</b> their mechanism of action and clinical c routes for medicinal compounds. <b>(BL6-Create)</b>
	Skill Development ✓ Entrepreneurship ✓ Employability ✓ Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG3(Good health and well-being) SDG4(Quality education) SDG6(Clean water and sanitation) SDG8(Decent work and economic growth) SDG12(Responsible consuption and production)

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	3	3	-	1	-	-	-	2	-	3	-	2	-	3
CO2	2	2	2	-	2	-	-	-	1	-	2	-	2	-	2
CO3	3	1	1	-	1	-	-	-	1	-	2	-	3	-	3
CO4	3	-	-	-	1	-	-	-	1	-	2	-	2	-	2
CO5	3	-	-	-	2	-	-	-	-	-	3	-	1	-	2
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Physical Pharmaceutics II	hysical Pharmaceutics II											
Course Code	BP403T	2403T											
	CO1- To introduce and categorize properties and applications of coll CO2- To make the use of principle (BL3-Apply) CO3- To interpret the rheological compression.(BL2-Understand) CO4- To determine the properties development.(BL4-Analyze) CO5- To formulate and evaluate of electrical properties.(BL5-Evalua	loidal dispersions.( les of kinetics in the behavior of fluids a s of powders and ap coarse dispersions	BL2-Understand) stabilization of dosage forms. and illustrate the physics of tablet oply them in formulation										
Course Elements	Skill Development ✓ Entrepreneurship X Employability X Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG4(Quality education)										

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	1	1	-	1	-	-	-	2	-	3	-	1	2	1
CO2	2	2	2	-	-	-	-	-	1	-	2	-	2	2	2
CO3	3	3	3	-	2	-	-	-	1	-	2	-	3	1	3
CO4	3	1	1	1	1	-	-	-	1	-	2	-	2	1	2
CO5	2	1	2	1	1	-	-	-	1	-	3	-	2	2	2
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Pharmacology I										
Course Code	BP404T										
Course Outcomes & Bloom's Level	CO2- To understand the basic interactions and drug discove CO3- To identify the role of ne nervous system.(BL4-Analyz CO4- To analyze the functions nervous system.(BL4-Analyz	rmacokinetics( <b>BL1-Remember</b> ) 2- To understand the basics of pharmacodynamics, adverse reactions, drug ractions and drug discovery( <b>BL2-Understand</b> ) 3- To identify the role of neurohumoral transmission and drugs acting on peripheral /ous system.( <b>BL4-Analyze</b> ) 4- To analyze the functions of neurotransmitters and drugs acting on central									
Course Elements	Skill Development ✓ Entrepreneurship X Employability X Professional Ethics X Gender X Human Values X Environment X		SDG3(Good health and well-being) SDG4(Quality education)								

00-					DOC										
COS	POT	POZ	PO3	P04	PU5	P06	P07	P08	PO9	PO10	POTT	PO12	PS01	PSO2	PS03
CO1	1	3	3	-	1	3	-	-	2	-	2	-	1	1	1
CO2	2	2	2	-	-	2	-	-	1	-	3	-	1	1	2
CO3	3	3	3	-	2	3	-	-	2	-	2	-	-	1	1
CO4	2	3	2	-	3	1	-	-	1	-	2	-	1	1	1
CO5	1	2	1	-	2	1	-	-	1	-	2	-	1	1	1
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Pharmacognosy and Phy	Pharmacognosy and Phytochemistry I										
Course Code	BP405T	P405T										
Course Outcomes & Bloom's Level	(BL1-Remember) CO3- To illustrate student crude drugs.(BL2-Unders CO4- To plan systematic   drugs, marine drugs and t	emember) O2- To remember different sources of crude drugs and also classify them accordingly.										
	Skill Development ✓ Entrepreneurship X Employability X Professional Ethics X Gender X Human Values X Environment ✓		SDG3(Good health and well-being) SDG4(Quality education) SDG12(Responsible consuption and production)									

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	3	-	1	2	-	-	2	-	2	-	1	-	2
CO2	3	2	1	-	1	1	-	-	2	-	1	-	2	-	1
CO3	2	1	2	-	1	2	-	-	2	-	2	-	2	-	1
CO4	2	-	-	-	-	-	-	-	2	-	2	-	1	-	2
CO5	3	-	-	-	-	-	-	-	1	-	1	-	1	-	1
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Fine art and Music IV/ onlin	e certification co	urse *
Course Code	BP410T		
Course Outcomes & Bloom's Level	Understand)	CRF processing,	cal data mangement and its skills(BL2- and documentation forms(BL2- rtunities(BL3-Apply)
Course Elements	Skill Development ✓ Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG3(Good health and well-being) SDG4(Quality education)

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	1	-	1	-	-	-	-	-	-	2	-	1	-	-
CO2	1	1	-	-	-	-	-	-	-	-	2	-	-	-	-
CO3	1	1	-	-	-	-	-	-	-	-	1	-	-	-	1
CO4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Medicinal Chemistry I		
Course Code	BP406P		
	Remember) CO2- To explain the techni intermediates(BL2-Unders CO3- To synthesize, chara intermediates(BL6-Create CO4- To analyze the select percentage purity(BL4-An	iques involved i stand) acterize and pur ) ted drugs prese alyze) ysicochemical p	synthesis and assay of drugs <b>(BL1-</b> in isolation and purification of drugs and rify medicinal compounds and ent in dosage forms and to determine the property of drugs and draw its
Course Elements	Skill Development ✓ Entrepreneurship X Employability X Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG1(No poverty) SDG4(Quality education) SDG8(Decent work and economic growth) SDG17(Partnerships for the goals)

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	1	1	-	1	-	-	-	2	-	2	-	1	1	1
CO2	2	-	2	-	2	-	-	-	1	-	2	-	2	1	2
CO3	2	2	3	-	2	-	-	-	1	-	2	-	2	1	2
CO4	3	-	-	-	2	-	-	-	2	-	2	-	1	1	2
CO5	2	-	-	-	1	-	-	-	-	-	2	-	1	1	1
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Physical Pharmaceutics I	hysical Pharmaceutics II										
Course Code	BP407P	P407P										
Course Outcomes & Bloom's Level	Evaluate) CO2- To interpret the shel (BL5-Evaluate) CO3- To make use of deri formulation.(BL3-Apply) CO4- To distinguish the ra	f life of a given ved and flow pr	nt to formulate a stable suspension. <b>(BL5-</b> formulation by accelerated stability studies. roperties of powders to ensure a stable solid s per the chemical reaction. <b>(BL2-Understand)</b> stwald's and Brookfield's viscometer. <b>(BL4-</b>									
Course Elements	Skill Development ✓ Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG4(Quality education) SDG9(Industry Innovation and Infrastructure)									

COs	PO1	PO2	PO3	PO4	PO5	PO6	P07	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	1	1	-	1	-	-	-	2	-	2	-	1	1	1
CO2	2	1	2	-	2	-	-	-	1	-	2	-	2	2	2
CO3	3	1	-	-	3	-	-	-	1	-	2	-	3	1	3
CO4	2	1	-	-	2	-	-	-	2	-	3	-	1	1	1
CO5	3	1	-	-	1	-	-	-	1	-	2	-	1	1	1
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Pharmacology I		
Course Code	BP408P		
Course Outcomes & Bloom's Level	experimental pharmacology guidelines.( <b>BL2-Understar</b> <b>CO2-</b> To demonstrate the c blood withdrawal, anestheti <b>CO3-</b> To interpret the effect oesophagus in correlation v <b>CO4-</b> To analyse the effect relaxants and affecting loco	/ and to organi nd) ommon labora cs and euthan s of various dri vith humans(B of drugs acting motor activity i	ommon laboratory animals used in ze animal house as per the CPCSEA tory techniques like routes of administration , asia used for animal studies( <b>BL3-Apply</b> ) ugs on rabbit eye and ciliary motility of frog <b>L5-Evaluate</b> ) g as enzyme inducers, skeletal muscle in laboratory animals( <b>BL4-Analyze</b> ) catatonic activity of drugs in rats/mice( <b>BL5-</b>
Course Elements	Skill Development ✓ Entrepreneurship X Employability X Professional Ethics X Gender X Human Values X Environment X	SDG1(No poverty) SDG3(Good health and well-being) SDG4(Quality education) SDG8(Decent work and economic growth) SDG9(Industry Innovation and Infrastructure) SDG17(Partnerships for the goals)	

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	2	-	1	-	-	1	-	-	2	-	2	1	2
CO2	2	2	2	-	2	-	-	-	-	-	2	-	2	1	2
CO3	3	3	3	-	3	-	-	-	-	-	3	-	3	2	3
CO4	2	-	-	-	-	-	-	-	-	-	2	-	1	1	1
CO5	3	1	-	-	1	-	-	-	-	-	2	-	1	1	1
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Pharmacognosy and Phyt	harmacognosy and Phytochemistry I										
Course Code	BP409P	2409P										
	crude drugs.(BL1-Remem CO2- To understand the ce CO3- To evaluate the crude CO4- To evaluate the crude	<b>ber)</b> ellular structure e drugs by quar e drugs by phys	al and microscopical characteristic features of of crude drugs. <b>(BL2-Understand)</b> ntitative evaluation methods. <b>(BL5-Evaluate)</b> sical methods of evaluation. <b>(BL5-Evaluate)</b> mical methods of evaluation. <b>(BL5-Evaluate)</b>									
Course Elements	Skill Development ✓ Entrepreneurship X Employability X Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG3(Good health and well-being) SDG4(Quality education) SDG11(Sustainable cities and economies)									

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	1	3	-	1	-	-	-	1	-	3	-	1	-	1
CO2	3	2	2	-	2	-	-	-	2	-	2	-	2	1	2
CO3	2	1	3	-	3	-	-	-	1	-	2	-	3	-	1
CO4	3	1	-	-	-	-	-	-	1	-	2	-	1	1	1
CO5	3	1	-	-	-	-	-	-	1	-	2	-	1	1	2
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Medicinal Chemistry II	Vedicinal Chemistry II										
Course Code	BP501T	P501T										
	Remember) CO2- To explain the biolog CO3- To apply the knowled of action and therapeutic CO4- To understand the r activity(BL2-Understand)	<ul> <li>O2- To explain the biological targets for medicinal compounds(BL2-Understand)</li> <li>O3- To apply the knowledge of biochemical processes to understand the mechanism</li> <li>action and therapeutic uses of drugs(BL3-Apply)</li> <li>O4- To understand the relationships between structure of compound and its</li> </ul>										
Course Elements	Skill Development ✓ Entrepreneurship X Employability X Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG3(Good health and well-being) SDG4(Quality education) SDG12(Responsible consuption and production)									

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	-	1	2	-	-	-	-	-	3	-	3	-	3
CO2	2	2	-	1	2	-	-	-	-	-	2	-	2	1	2
CO3	3	3	-	1	2	-	-	-	-	-	2	-	3	-	3
CO4	3	1	-	-	1	-	-	-	-	-	2	-	1	-	2
CO5	2	1	-	-	1	-	-	-	-	-	3	-	1	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Industrial Pharmacy I		
Course Code	BP502T		
Course Outcomes & Bloom's Level	development and stability of d CO2- To discuss the formulati tablets.(BL2-Understand) CO3- To review the formulatio Analyze) CO4- To illustrate the pharma Understand)	osage forms. <b>(BL</b> on, manufacturin on and manufactu ceutical aspects o	g, coating and quality control tests of iring considerations of liquid orals. <b>(BL4-</b>
Course Elements	Skill Development ✓ Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG3(Good health and well-being) SDG4(Quality education)

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	1	3	3	1	-	-	-	1	-	3	-	3	1	2
CO2	3	2	2	3	-	-	-	-	1	-	3	-	2	2	2
CO3	3	1	2	3	1	-	-	-	-	-	3	-	2	2	3
CO4	3	2	3	-	-	-	-	-	1	-	3	-	-	-	-
CO5	2	1	3	1	1	-	-	-	-	-	3	_	1	1	1
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Pharmacology II		
Course Code	BP503T		
	complications ( <b>BL2-Understa</b> <b>CO2-</b> To illustrate the drugs ac diuretics ( <b>BL2-Understand</b> ) <b>CO3-</b> To identify the role of au <b>CO4-</b> To analyze and summar	<b>nd)</b> cting on hematop tocoids and relate ize the drugs act ogical role of sex	ing on endocrine system. <b>(BL4-Analyze)</b> hormones and to assess the effects of
Course Elements	Skill Development ✓ Entrepreneurship X Employability X Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG3(Good health and well-being) SDG4(Quality education)

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	-	-	-	2	3	-	-	-	-	3	1	2	3	2
CO2	2	-	-	-	1	2	-	-	-	-	3	-	2	3	1
CO3	2	1	-	-	1	3	-	-	-	-	3	1	2	3	1-
CO4	2	1	-	-	2	3	-	-	-	-	3	-	2	3	2
CO5	3	-	-	-	1	2	-	-	-	-	2	1	1	1	1
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Pharmacognosy and Phytoche	emistry II	
Course Code	BP504T		
Course Outcomes & Bloom's Level	(BL1-Remember) CO2- To the pharmacognistic s tannins, volatile oils etc,(BL2-L CO3- To demonstrate the differ and analysis of Phytoconstitue (BL2-Understand) CO4- To plan the industrial pro (BL6-Create)	study of secondar <b>Inderstand)</b> rent types and ste nts like terpenoid duction, estimation g by modern meth	r plants and their biogenetic studies. ry metabolites like alkaloids, glycosides, eps involved in isolation, identification s, glycosides, alkaloids and resins. on and utilization of Phytoconstituents. nods of extraction, spectroscopy, - <b>Analyze)</b>
Course Elements	Skill Development ✓ Entrepreneurship ✓ Employability ✓ Professional Ethics X Gender X Human Values X Environment √	SDG (Goals)	SDG3(Good health and well-being) SDG4(Quality education)

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	-	-	-	-	1	-	-	-	3	-	2	2	3
CO2	2	2	-	-	-	-	-	-	-	-	3	-	2	1	2
CO3	3	2	-	-	-	-	-	-	-	-	2	-	1	1	1
CO4	2	1	1	-	-	-	1	-	-	-	2	-	-	-	1
CO5	2	-	-	-	-	-	-	-	-	-	1	-	1	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Pharmaceutical Jurisprude	Pharmaceutical Jurisprudence										
Course Code	BP505T	P505T										
Course Outcomes & Bloom's Level	<b>CO2-</b> To relate the significant relation to import and man <b>CO3-</b> To apply the knowled 1940 and its rules 1945 an <b>CO4-</b> To understand the fur education regulations in pheric <b>CO5-</b> To appraise the import	<ul> <li>rmination of pregnancy and intellectual property rights(BL1-Remember)</li> <li>O2- To relate the significance of Drugs and cosmetics act 1940 and its rules 1945 in elation to import and manufacture of drugs(BL2-Understand)</li> <li>O3- To apply the knowledge on schedules pertaining to Drugs and cosmetics act 940 and its rules 1945 and also administration of the act and rules(BL3-Apply)</li> <li>O4- To understand the functions of pharmacy councils and implementation of ducation regulations in pharmacy(BL2-Understand)</li> <li>O5- To appraise the importance of medicinal and toilet preparations act and narcotic rugs and psychotropic substances act and rules(BL5-Evaluate)</li> </ul>										
Course Elements	Skill Development ✓ Entrepreneurship X Employability X Professional Ethics X Gender ✓ Human Values √ Environment X	SDG (Goals)	SDG3(Good health and well-being) SDG4(Quality education) SDG5(Gender equality) SDG10(Reduced inequalities) SDG12(Responsible consuption and production)									

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	-	-	-	-	-	-	-	3	-	-	-	-	-	2	3
CO2	-	-	-	-	-	-	-	3	-	1	-	-	1	2	2
CO3	-	-	-	-	-	-	-	3	-	-	-	-	1	2	-
CO4	-	-	-	-	-	-	-	3	-	1	-	-	-	-	3
CO5	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	_	-	-	-



Title of the Course	Industrial Pharmacy I	ndustrial Pharmacy I										
Course Code	BP506P	P506P										
Course Outcomes & Bloom's Level	Understand) CO2- To understand abou Understand)	D2- To understand about CRF processing, and documentation forms(BL2- nderstand) D3- To develop skills to accquire Job oppurtunities(BL3-Apply) D4- ()										
Course Elements	Skill Development ✓ Entrepreneurship ✓ Employability ✓ Professional Ethics × Gender × Human Values × Environment ×		SDG3(Good health and well-being) SDG4(Quality education) SDG8(Decent work and economic growth) SDG17(Partnerships for the goals)									

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	3	2	-	-	-	-	-	-	3	-	1	3	3
CO2	2	2	3	1	-	-	-	-	-	-	3	-	1	2	3
CO3	3	1	3	-	-	-	-	-	-	-	3	-	3	-	2
CO4	3	1	1	1	-	-	-	-	-	-	3	-	2	-	2
CO5	3	1	2	1	-	-	-	-	-	-	3	-	1	-	2
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Pharmacology II	narmacology II										
Course Code	BP507P	2507P										
Course Outcomes & Bloom's Level	Understand)	CRF processing,	al data mangement and its skills <b>(BL2-</b> and documentation forms <b>(BL2-</b> rtunities <b>(BL3-Apply)</b>									
Course Elements	Skill Development ✓ Entrepreneurship ✓ Employability ✓ Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG3(Good health and well-being) SDG4(Quality education)									

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	3	-	-	2	3	-		-	-	3	-	1	2	3
CO2	2	1	-	-	1	3	-	-	-	-	3	-	1	2	2
CO3	3	2	-	-	3	3	-	-	-	-	3	-	-	-	2
CO4	2	-	-	-	2	2	-	-	-	-	3	-	-	-	2
CO5	3	-	-	-	2	2	-	-	-	-	2	-	-	-	2
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Pharmacognosy and Phyto	narmacognosy and Phytochemistry II										
Course Code	BP508P	2508P										
Course Outcomes & Bloom's Level	Understand)	CRF processing,	al data mangement and its skills <b>(BL2-</b> and documentation forms <b>(BL2-</b> rtunities <b>(BL3-Apply)</b>									
Course Elements	Skill Development ✓ Entrepreneurship ✓ Employability ✓ Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG3(Good health and well-being)									

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	-	-	-	-	-	1	-	-	-	3	-	2	2	1
CO2	2	-	-	-	-	-	1	-	-	-	3	-	1	2	2
CO3	3	-	-	-	-	-	1	-	-	-	3	-	-	-	2
CO4	2	-	-	-	-	-	-	-	-	-	3	-	2	-	1
CO5	2	-	-	-	-	-	1	-	-	-	2	-	-	-	2
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Online certified courses related to Pharmacy I *	
Course Code	BP509ET	
	<b>CO1-</b> To accquire knowledge about the clinical data m <b>Understand)</b>	nangement and its skills <b>(BL2-</b>
Course Elements	Skill Development ✓ Entrepreneurship X Employability X Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	1	-	-	-	-	-	-	-	3	1	-	-	2
CO2	2	2	2	1	-	-	-	-	-	-	2	1	1	1	1
CO3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	International Regulator	nternational Regulatory Requirements for Good Manufacturing Practices										
Course Code	BP510ET											
Course Outcomes & Bloom's Level	Understand)	U	e clinical data mangement and its skills(BL2- essing, and documentation forms(BL2-									
Course Elements	Skill Development ✓ Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values ✓ Environment X	SDG (Goals)	SDG3(Good health and well-being) SDG4(Quality education) SDG12(Responsible consuption and production) SDG16(Peace Justice and strong institutions)									

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	1	1	1	-	-	-	-	-	3	1	1	1	1
CO2	2	1	1	1	1	-	-	-	-	-	2	1	1	1	1
CO3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Pharmaceutical Product De	armaceutical Product Development										
Course Code	BP511ET	511ET										
Course Outcomes & Bloom's Level	Understand)	CRF processing,	cal data mangement and its skills <b>(BL2-</b> and documentation forms <b>(BL2-</b> rtunities <b>(BL3-Apply)</b>									
Course Elements	Skill Development ✓ Entrepreneurship ✓ Employability ✓ Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG3(Good health and well-being) SDG4(Quality education)									

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	1	3	1	1	-	-	-	-	-	3	-	2	1	1
CO2	2	2	1	1	1	-	-	-	-	-	1	-	1	1	1
CO3	3	1	2	1	1	-	-	-	-	-	3	-	2	2	2
CO4	2	1	2	1	1	-	-	-	-	-	1	-	1	1	1
CO5	1	1	2	2	1	-	-	-	-	-	3	-	1	1	1
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Purification of Pharmaceutical Compounds	
Course Code	BP512ET	
Course Outcomes & Bloom's Level	CO1- To accquire knowledge about the clinical data m Understand) CO2- To understand about CRF processing, and docu Understand)	c v
Course Elements	Skill Development ✓ Entrepreneurship × Employability ✓ Professional Ethics × Gender × Human Values × Environment ×	SDG (Goals)

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	1	1	-	-	-	-	-	-	3	-	1	1	1
CO2	2	2	2	1	-	-	-	-	-	-	3	2	-	1	1
CO3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Introduction to intellectua	ntroduction to intellectual property rights										
Course Code	BP513ET	P513ET										
Course Outcomes & Bloom's Level	Understand)	ut CRF process	clinical data mangement and its skills <b>(BL2-</b> ing, and documentation forms <b>(BL2-</b> ppurtunities <b>(BL3-Apply)</b>									
Course Elements	Skill Development ✓ Entrepreneurship ✓ Employability ✓ Professional Ethics X Gender X Human Values √ Environment X	SDG (Goals)	SDG1(No poverty) SDG3(Good health and well-being) SDG4(Quality education) SDG6(Clean water and sanitation) SDG8(Decent work and economic growth) SDG17(Partnerships for the goals)									

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	-	2	-	1	-	-	-	3	-	2	3	-	1	1	1
CO2	-	1	-	-	-	-	-	3	-	-	2	-	1	-	1
CO3	-	1	-	-	-	-	-	2	-	-	-	-	-	-	-
CO4	-	-	-	-	-	-	-	2	-	-	2	-	-	-	-
CO5	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Medicinal Chemistry III												
Course Code	BP601T	601T											
Course Outcomes & Bloom's Level	Understand)	CRF processing,	cal data mangement and its skills <b>(BL2-</b> and documentation forms <b>(BL2-</b> rtunities <b>(BL3-Apply)</b>										
Course Elements	Skill Development ✓ Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG3(Good health and well-being) SDG4(Quality education)										

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	1	1	2	-	-	-	-	-	3	-	1	2	3-
CO2	2	3	-	-	1	-	-	-	-	-	2	-	1	2	3
CO3	3	2	-	-	2	-	-	-	-	-	2	-	1	2	3
CO4	3	2	-	1	2	-	-	-	-	1	3	1	1	1	1
CO5	2	2	-	1	1	-	-	-	-	1	1	-	1	1	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Pharmacology III	armacology III										
Course Code	BP602T											
Course Outcomes & Bloom's Level	Understand) CO2- To understand about ( Understand)	02- To understand about CRF processing, and documentation forms(BL2- Iderstand) 03- To develop skills to accquire Job oppurtunities(BL3-Apply) 04- ()										
Course Elements	Skill Development ✓ Entrepreneurship X Employability X Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG3(Good health and well-being) SDG4(Quality education)									

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	-	-	2	2	-	-	-	-	3	-	1	2	2
CO2	2	2	-	-	-	1	-	-	-	-	3	-	1	2	3
CO3	1	2	-	-	1	1	-	-	-	-	2	-	1	2	2
CO4	3	1	-	-	-	1	-	-	-	-	2	-	-	-	3
CO5	3	1	-	-	1	1	-	-	-	-	2	-	2	-	2
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Herbal Drug Technolog	erbal Drug Technology										
Course Code	BP603T	603T										
Course Outcomes & Bloom's Level	Understand) CO2- To understand ab Understand)	2- To understand about CRF processing, and documentation forms(BL2- lerstand) 3- To develop skills to accquire Job oppurtunities(BL3-Apply) I- ()										
Course Elements	Skill Development ✓ Entrepreneurship ✓ Employability ✓ Professional Ethics X Gender X Human Values X Environment √	SDG (Goals)	SDG3(Good health and well-being) SDG4(Quality education) SDG7(Affordable and clean energy) SDG8(Decent work and economic growth) SDG11(Sustainable cities and economies) SDG12(Responsible consuption and production)									

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	-	-	-	-	2	-	-	-	3	-	1	2	2
CO2	3	2	-	-	-	-	2	-	-	-	3	-	1	2	2
CO3	1	2	-	-	-	-	2	-	-	-	3	-	1	2	2
CO4	2	2	-	-	-	-	1	-	-	-	2	-	2	-	1
CO5	3	2	-	-	-	-	1	-	-	-	2	-	1	-	2
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Biopharmaceutics and Pl	iopharmaceutics and Pharmacokinetics											
Course Code	BP604T	'604T											
Course Outcomes & Bloom's Level	Understand) CO2- To understand aboเ Understand)	<ul> <li>2- To understand about CRF processing, and documentation forms(BL2-derstand)</li> <li>3- To develop skills to accquire Job oppurtunities(BL3-Apply)</li> <li>4- ()</li> </ul>											
Course Elements	Skill Development ✓ Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG1(No poverty) SDG3(Good health and well-being) SDG4(Quality education) SDG8(Decent work and economic growth)										

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	2	1	2	-	-	-	-	-	3	-	3	2	3
CO2	3	2	2	1	2	-	-	-	-	-	3	-	1	-	3
CO3	2	2	1	-	2	-	-	-	-	-	3	-	1	2	-
CO4	2	3	1	1	2	-	-	-	-	-	3	-	1	1	1
CO5	3	1	2	1	2	-	-	-	-	-	2	1	-	-	2
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Pharmaceutical Biotechnolo	ogy											
Course Code	BP605T	05T											
Course Outcomes & Bloom's Level	Understand)	CRF processing,	cal data mangement and its skills <b>(BL2-</b> and documentation forms <b>(BL2-</b> rtunities <b>(BL3-Apply)</b>										
Course Elements	Skill Development ✓ Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG3(Good health and well-being) SDG4(Quality education)										

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	-	-	-	-	-	-	-	-	3	-	1	2	2
CO2	2	2	-	1	-	-	-	-	-	-	3	-	1	2	2
CO3	2	2	-	-	-	-	-	-	-	-	2	-	1	2	2
CO4	3	1	-	-	-	-	-	-	-	-	3	-	1	1	2
CO5	3	2	-	1	-	1	-	-	-	-	2	-	1	-	2
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Quality Assurance	uality Assurance											
Course Code	BP606T												
Course Outcomes & Bloom's Level	Understand) CO2- To understand about ( Understand)	<ul> <li>2- To understand about CRF processing, and documentation forms(BL2- lerstand)</li> <li>3- To develop skills to accquire Job oppurtunities(BL3-Apply)</li> <li>4- ()</li> </ul>											
Course Elements	Skill Development ✓ Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG3(Good health and well-being) SDG4(Quality education)										

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	1	-	1	2	-	-	-	-	-	3	-	1	2	1
CO2	1	2	-	1	2	-	-	-	-	-	3	-	1	2	1
CO3	2	2	-	1	2	-	-	-	-	-	3	-	1	-1	3
CO4	3	1	-	1	2	-	-	-	-	-	3	-	1	-	2
CO5	2	1	-	1	1	-	-	-	-	-	2	-	1	-	2
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Medicinal Chemistry III	edicinal Chemistry III											
Course Code	BP607P	307P											
Course Outcomes & Bloom's Level	Understand)	CRF processing,	cal data mangement and its skills <b>(BL2-</b> and documentation forms <b>(BL2-</b> rtunities <b>(BL3-Apply)</b>										
Course Elements	Skill Development ✓ Entrepreneurship ✓ Employability ✓ Professional Ethics X Gender X Human Values X Environment X		SDG3(Good health and well-being) SDG4(Quality education) SDG17(Partnerships for the goals)										

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	-	2	1	-	-	-	-	-	3	-	1	2	1
CO2	3	2	-	3	1	-	-	-	-	-	2	-	1	2	2
CO3	2	1	-	2	2	-	-	-	-	-	3	-	1	2	2
CO4	2	2	-	1	1	-	-	-	-	-	2	-	-	-	2
CO5	3	1	-	1	1	-	-	-	-	-	1	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Pharmacology III												
Course Code	BP608P	08P											
Course Outcomes & Bloom's Level	Understand)	CRF processing,	al data mangement and its skills <b>(BL2-</b> and documentation forms <b>(BL2-</b> rtunities <b>(BL3-Apply)</b>										
Course Elements	Skill Development ✓ Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG3(Good health and well-being)										

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	-	-	-	3	-	-	-	-	2	-	1	2	2
CO2	3	1	-	-	-	3	-	-	-	-	3	-	1	2	1
CO3	3	2	-	-	-	2	-	-	-	-	3	-	1	2	1
CO4	2	1	-	-	-	2	-	-	-	-	2	-	-	-	1
CO5	3	2	-	-	-	2	-	-	-	-	1	-	1	-	1
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Herbal Drug Technology	erbal Drug Technology										
Course Code	BP609P											
Course Outcomes & Bloom's Level	Understand) CO2- To understand abou Understand)	<ul> <li>D2- To understand about CRF processing, and documentation forms(BL2-derstand)</li> <li>D3- To develop skills to accquire Job oppurtunities(BL3-Apply)</li> <li>D4- ()</li> <li>D5- ()</li> </ul>										
Course Elements	Skill Development ✓ Entrepreneurship ✓ Employability ✓ Professional Ethics × Gender × Human Values × Environment ×	SDG (Goals)	SDG1(No poverty) SDG3(Good health and well-being) SDG4(Quality education) SDG8(Decent work and economic growth) SDG17(Partnerships for the goals)									

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	2	1	-	-	-	-	-	-	-	-	-	1	2	-
CO2	1	2	1	-	-	-	-	-	-	-	-	-	1	-	1
CO3	1	2	1	-	-	-	-	-	-	-	-	-	-	2	-
CO4	3	2	1	1	-	-	-	-	-	-	-	-	1	2	1
CO5	2	1	1	-	-	-	-	-	-	-	-	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Online certified courses rela	nline certified courses related to Pharmacy II *											
Course Code	BP610T												
	CO1- To accquire knowledg Understand)	· · · · · · · · · · · · · · · · · · ·											
Course Elements	Skill Development X Entrepreneurship X Employability √ Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG3(Good health and well-being) SDG4(Quality education)										

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	2	-	1	3	-	-	-	-	3	-	1	2	3
CO2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Artificial intelligence in F	tificial intelligence in Pharmaceutical										
Course Code	BP611ET	611ET										
Course Outcomes & Bloom's Level	Understand) CO2- To understand abo Understand)	<ul> <li>2- To understand about CRF processing, and documentation forms(BL2-lerstand)</li> <li>3- To develop skills to accquire Job oppurtunities(BL3-Apply)</li> <li>4- ()</li> <li>5- ()</li> </ul>										
Course Elements	Skill Development ✓ Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG3(Good health and well-being) SDG4(Quality education) SDG9(Industry Innovation and Infrastructure) SDG17(Partnerships for the goals)									

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	1	-	2	3	-	-	-	-	-	3	-	1	1	2
CO2	2	2	1	-	1	-	-	-	-	-	2	2	1	1	1
CO3	2	3	1	1	1	-	-	-	-	-	1	1	1	1	1
CO4	1	2	1	1	1	-	-	-	-	-	1	1	1	1	1
CO5	1	1	1	1	-	-	-	-	-	-	-	1	1	1	1
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Good Manufacturing in	ood Manufacturing in Pharma										
Course Code	BP612ET											
Course Outcomes & Bloom's Level	Understand) CO2- To understand ab Understand)	out CRF proce	e clinical data mangement and its skills( <b>BL2-</b> essing, and documentation forms( <b>BL2-</b> o oppurtunities( <b>BL3-Apply</b> )									
Course Elements	Skill Development ✓ Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values √ Environment X	SDG (Goals)	SDG4(Quality education) SDG12(Responsible consuption and production)									

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	-	-	1	2	-	2	2	1	-	3	-	1	1	1
CO2	2	2	-	1	3	-	2	1	1	-	2	-	1	1	1
CO3	1	1	-	1	1	-	1	1	1	-	1	-	1	1	1
CO4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Healthcare Marketplace	ealthcare Marketplace Capstone											
Course Code	BP613ET	'613ET											
Course Outcomes & Bloom's Level	Understand)	2- To understand about CRF processing, and documentation forms(BL2- derstand)											
	Skill Development X Entrepreneurship X Employability √ Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG3(Good health and well-being) SDG4(Quality education) SDG8(Decent work and economic growth)										

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	1	-	1	-	-	-	-	-	3	1	1	1	1
CO2	2	1	1	-	1	1	-	-	1	-	2	1	1	1	1
CO3	1	1	1	1	1	-	-	-	-	-	1	1	1	1	2
CO4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Instrumental Methods of	Analysis										
Course Code	BP-701T											
Course Outcomes & Bloom's Level	Understand) CO2- To understand abou Understand)	e- To understand about CRF processing, and documentation forms(BL2- erstand) - To develop skills to accquire Job oppurtunities(BL3-Apply) - ()										
Course Elements	Skill Development ✓ Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG1(No poverty) SDG8(Decent work and economic growth) SDG17(Partnerships for the goals)									

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	1	-	-	1	2	-	-	-	-	3	-	1	2	1
CO2	2	3	-	2	-	-	-	-	-	-	3	-	1	1	1
CO3	2	2	-	1	-	-	-	-	-	-	3	-	1	1	2
CO4	2	2	-	-	-	-	-	-	-	-	2	-	1	2	1
CO5	2	2	-	-	-	-	-	-	-	-	2	-	1	1	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Industrial Pharmacy II	dustrial Pharmacy II											
Course Code	BP702T												
Course Outcomes & Bloom's Level	CO1- To accquire knowledge ab Understand) CO2- To understand about CRF Understand) CO3- To develop skills to accqui CO4- () CO5- ()	processing, and do	ocumentation forms( <b>BL2-</b>										
Course Elements	Skill Development ✓ Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG4(Quality education)										

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	3	2	-	-	-	-	-	-	-	3	-	3	2	1
CO2	3	3	1	-	-	-	-	-	-	-	3	-	3	2	1
CO3	2	2	1	1	-	-	2	-	-	-	3	-	3	2	1
CO4	3	1	1	-	-	-	-	-	-	-	2	-	3	2	1
CO5	2	3	3	-	-	-	-	-	-	-	2	-	1	1	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Pharmacy Practice	narmacy Practice											
Course Code	BP703T	'03T											
Course Outcomes & Bloom's Level	Understand)	CRF processing,	cal data mangement and its skills <b>(BL2-</b> and documentation forms <b>(BL2-</b> rtunities <b>(BL3-Apply)</b>										
Course Elements	Skill Development X Entrepreneurship ✓ Employability ✓ Professional Ethics X Gender ✓ Human Values ✓ Environment X	SDG (Goals)	SDG1(No poverty) SDG2(Zero hunger) SDG3(Good health and well-being) SDG4(Quality education) SDG5(Gender equality) SDG6(Clean water and sanitation)										

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	1	-	-	-	2	-	-	-	-	3	-	1	2	1
CO2	3	1	-	1	-	2	-	-	-	-	3	-	1	1	1
CO3	2	2	-	-	-	1	-	-	-	-	3	-	1	1	1
CO4	3	1	-	1	-	2	-	-	-	-	2	-	1	1	1
CO5	2	1	-	1	-	1	1	-	-	-	2	-	1	2	1
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Novel Drug Delivery System	ovel Drug Delivery System											
Course Code	BP704T	704T											
Course Outcomes & Bloom's Level	Understand)	CRF processing,	al data mangement and its skills(BL2- and documentation forms(BL2- rtunities(BL3-Apply)										
Course Elements	Skill Development ✓ Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG3(Good health and well-being) SDG4(Quality education)										

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	1	3	-	3	-	-	-	-	-	3	-	2	1	1
CO2	2	1	2	-	2	-	-	-	-	-	3	-	2	2	2
CO3	3	2	2	1	2	-	-	-	-	-	3	-	2	1	1
CO4	2	1	3	-	2	-	-	-	-	-	3	-	1	1	1
CO5	2	1	1	1	1	-	-	-	-	-	2	-	1	1	1
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Instrumental Methods of	strumental Methods of Analysis											
Course Code	BP705P	705P											
Course Outcomes & Bloom's Level	Understand) CO2- To understand aboเ Understand)	<ul> <li>2- To understand about CRF processing, and documentation forms(BL2-derstand)</li> <li>3- To develop skills to accquire Job oppurtunities(BL3-Apply)</li> <li>94- ()</li> </ul>											
Course Elements	Skill Development ✓ Entrepreneurship ✓ Employability ✓ Professional Ethics × Gender × Human Values × Environment ×	SDG (Goale)	SDG3(Good health and well-being) SDG4(Quality education) SDG6(Clean water and sanitation) SDG8(Decent work and economic growth)										

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	1	3	1	1	-	1	-	-	-	3	-	1	1	1
CO2	3	1	2	1	1	-	1	-	-	-	3	-	1	1	1
CO3	2	2	2	1	1	-	1	-	-	-	3	-	1	1	1
CO4	2	1	3	1	1	-	1	-	-	-	2	-	1	2	1
CO5	2	1	1	2	1	-	-	-	-	-	3	-	1	1	1
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Practice School *	ractice School *										
Course Code	BP706PS											
Course Outcomes & Bloom's Level	Understand)	ut CRF process	clinical data mangement and its skills <b>(BL2-</b> ing, and documentation forms <b>(BL2-</b> ppurtunities <b>(BL3-Apply)</b>									
Course Elements	Skill Development ✓ Entrepreneurship X Employability ✓ Professional Ethics X Gender ✓ Human Values ✓ Environment X	SDG (Goale)	SDG1(No poverty) SDG3(Good health and well-being) SDG4(Quality education) SDG6(Clean water and sanitation) SDG8(Decent work and economic growth) SDG17(Partnerships for the goals)									

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	-	2	1	1	1	2	2	-	-	3	-	2	1	1
CO2	2	-	1	1	-	-	-	-	-	-	2	-	1	1	1
CO3	1	-	1	-	1	-	-	-	-	-	2	-	-	1	1
CO4	1	1	1	1	1	-	-	-	-	-	3	-	-	1	1
CO5	3	-	1	1	-	-	-	-	1	-	2	_	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Biostatistics and Researc	iostatistics and Research Methodology										
Course Code	BP801T											
Course Outcomes & Bloom's Level	Understand)	ut CRF process	clinical data mangement and its skills <b>(BL2-</b> ing, and documentation forms <b>(BL2-</b> ppurtunities <b>(BL3-Apply)</b>									
Course Elements	Skill Development ✓ Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment X		SDG1(No poverty) SDG4(Quality education) SDG8(Decent work and economic growth) SDG17(Partnerships for the goals)									

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	1	2	3	1	-	-	-	-	2	-	2	1	1
CO2	2	1	1	2	3	1	-	-	-	-	2	-	1	1	1
CO3	3	1	1	1	3	1	-	-	-	-	2	-	1	1	1
CO4	2	1	1	1	3	1	-	-	-	-	1	-	-	1	2
CO5	2	1	1	2	3	1	-	-	-	-	1	-	1	2	2
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Social and Preventive F	Pharmacy	
Course Code	BP802T		
Course Outcomes & Bloom's Level	Understand) CO2- To understand ab Understand)	out CRF proce	e clinical data mangement and its skills <b>(BL2-</b> essing, and documentation forms <b>(BL2-</b> o oppurtunities <b>(BL3-Apply)</b>
Course Elements	Skill Development X Entrepreneurship X Employability ✓ Professional Ethics X Gender ✓ Human Values ✓ Environment X	SDG (Goals)	SDG1(No poverty) SDG2(Zero hunger) SDG3(Good health and well-being) SDG4(Quality education) SDG5(Gender equality) SDG10(Reduced inequalities) SDG12(Responsible consuption and production) SDG15(Life on land) SDG17(Partnerships for the goals)

	COs PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PSO1 PSO2 PSO3														
COS	P01	P02	PO3	P04	P05	P06	P07	P08	PO9	PO10	P011	P012	PS01	PS02	PSO3
CO1	3	-	-	-	-	3	3	3	1	-	1	-	1	3	1
CO2	2	-	-	-	-	3	3	3	1	-	1	-	1	2	1
CO3	3	-	-	-	-	3	2	3	1	-	1	-	1	3	1
CO4	2	1	-	-	-	3	2	2	-	-	2	-	1	2	1
CO5	2	-	-	1	-	3	2	1	-	-	-	-	1	2	1
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Project Work	roject Work											
Course Code	BP813PW	'813PW											
Course Outcomes & Bloom's Level	Understand) CO2- To understand aboเ Understand)	<ul> <li>D2- To understand about CRF processing, and documentation forms(BL2-derstand)</li> <li>D3- To develop skills to accquire Job oppurtunities(BL3-Apply)</li> <li>D4- ()</li> </ul>											
	Skill Development X Entrepreneurship ✓ Employability ✓ Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG1(No poverty) SDG3(Good health and well-being) SDG4(Quality education) SDG6(Clean water and sanitation) SDG8(Decent work and economic growth)										

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	3	3	3	1	-	-	-	-	1	-	1	-	1
CO2	2	1	2	3	2	1	-	-	-	-	2	-	1	-	1
CO3	2	1	2	3	2	1	-	-	-	-	1	-	1	-	2
CO4	3	2	2	-	1	-	-	-	-	-	1	-	3	3	1
CO5	3	3	1	-	1	1	-	-	-	-	2	-	-	-	1
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Pharmaceutical Regulate	harmaceutical Regulatory Science										
Course Code	BP804ET											
Course Outcomes & Bloom's Level	Understand)	ut CRF process	clinical data mangement and its skills <b>(BL2-</b> ing, and documentation forms <b>(BL2-</b> ppurtunities <b>(BL3-Apply)</b>									
Course Elements	Skill Development X Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values ✓ Environment X	SDG (Goals)	SDG1(No poverty) SDG3(Good health and well-being) SDG4(Quality education) SDG8(Decent work and economic growth) SDG10(Reduced inequalities) SDG17(Partnerships for the goals)									

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	3	-	-	-	3	2	1	-	1	2	-	2	2	1
CO2	3	2	-	1	-	2	2	1	-	-	1	-	2	1	1
CO3	2	3	1	-	-	1	2	1	-	-	2	-	2	2	2
CO4	3	3	-	1	-	3	2	1	-	1	2	-	2	2	1
CO5	3	3	1	1	-	3	2	1	-	-	2	-	-	2	1
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Pharmacovigilance	harmacovigilance										
Course Code	BP805ET	2805ET										
Course Outcomes & Bloom's Level	Understand) CO2- To understand abou Understand)	<ul> <li>D2- To understand about CRF processing, and documentation forms(BL2-derstand)</li> <li>D3- To develop skills to accquire Job oppurtunities(BL3-Apply)</li> <li>D4- ()</li> </ul>										
Course Elements	Skill Development ✓ Entrepreneurship × Employability ✓ Professional Ethics × Gender × Human Values × Environment ×		SDG1(No poverty) SDG4(Quality education) SDG8(Decent work and economic growth) SDG11(Sustainable cities and economies) SDG17(Partnerships for the goals)									

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	-	2	1	-	2	3	2	2	-	-	-	-	1	2	1
CO2	-	2	1	-	1	2	2	1	-	-	-	-	1	1	1
CO3	-	1	1	-	2	2	2	1	-	-	-	-	1	1	2
CO4	-	1	1	-	1	2	2	1	-	-	-	-	1	1	1
CO5	-	1	1	-	2	2	1	2	-	-	-	-	1	-	-1
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Pharma Marketing Manage	ment										
Course Code	BP803ET	03ET										
Course Outcomes & Bloom's Level	Understand) CO2- To understand about ( Understand)	<ul> <li>2- To understand about CRF processing, and documentation forms(BL2-lerstand)</li> <li>3- To develop skills to accquire Job oppurtunities(BL3-Apply)</li> <li>4- ()</li> </ul>										
Course Elements	Skill Development ✓ Entrepreneurship ✓ Employability ✓ Professional Ethics X Gender X Human Values X Environment X		SDG1(No poverty) SDG2(Zero hunger) SDG3(Good health and well-being) SDG4(Quality education) SDG17(Partnerships for the goals)									

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	1	-	2	2	1	1	-	2	1	-	2	1	1
CO2	2	2	1	-	1	2	1	1	-	1	1	-	1	1	1
CO3	3	1	1	-	1	2	1	1	-	2	1	-	1	1	1
CO4	3	1	2	-	1	1	1	1	-	1	2	-	1	1	1
CO5	2	2	1	-	1	2	1	1	-	2	1	-	1	1	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Quality Control and Standa	uality Control and Standardization of Herbals										
Course Code	BP806ET	306ET										
Course Outcomes & Bloom's Level	Understand) CO2- To understand about ( Understand)	2- To understand about CRF processing, and documentation forms(BL2- lerstand) 3- To develop skills to accquire Job oppurtunities(BL3-Apply) I- ()										
Course Elements	Skill Development ✓ Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG2(Zero hunger) SDG3(Good health and well-being) SDG4(Quality education)									

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	3	1	1	-	-	-	-	-	2	-	1	1	1
CO2	2	2	3	1	1	-	-	-	-	-	2	-	1	1	1
CO3	1	1	2	1	1	-	-	-	-	-	1	-	1	1	1
CO4	1	1	1	1	1	-		-	-	-	2	-	1	2	-
CO5	1	1	1	1	-	-	-	-	-	-	1	-	1	1	1
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Computer Aided Drug D	esign											
Course Code	BP807ET	307ET											
Course Outcomes & Bloom's Level	Understand) CO2- To understand abo Understand)	<ul> <li>2- To understand about CRF processing, and documentation forms(BL2-derstand)</li> <li>3- To develop skills to accquire Job oppurtunities(BL3-Apply)</li> <li>4- ()</li> </ul>											
Course Elements	Skill Development ✓ Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG3(Good health and well-being) SDG4(Quality education) SDG9(Industry Innovation and Infrastructure)										

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	2	-	1	1	-	-	1	1	2	-	1	1	2
CO2	1	2	1	-	2	1	-	-	1	2	2	-	1	1	-
CO3	1	2	1	-	1	1	-	-	-	-	1	-	1	2	2
CO4	1	2	1	-	2	-	-	-	1	1	2	-	1	2	1
CO5	1	2	1	-	1	1	-	-	-	1	1	-	1	1	1
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Cell and Molecular Bio	logy	
Course Code	BP808ET		
Course Outcomes & Bloom's Level	Understand) CO2- To understand ab Understand)	out CRF proce	e clinical data mangement and its skills <b>(BL2-</b> essing, and documentation forms <b>(BL2-</b> o oppurtunities <b>(BL3-Apply)</b>
Course Elements	Skill Development X Entrepreneurship X Employability √ Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG1(No poverty) SDG2(Zero hunger) SDG3(Good health and well-being) SDG4(Quality education) SDG5(Gender equality) SDG8(Decent work and economic growth) SDG10(Reduced inequalities) SDG12(Responsible consuption and production) SDG15(Life on land) SDG17(Partnerships for the goals)

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	1	1	-	1	1	-	-	1	-	1	-	1	2	1
CO2	3	1	1	-	1	-	-	-	1	-	2	-	1	1	3
CO3	3	1	1	-	1	1	-	-	-	-	1	-	2	1	2
CO4	3	1	1	-	1	1	-	-	1	-	1	-	1	1	3
CO5	2	1	1	-	-	1	-	-	-	-	1	-	-	1	2
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Cosmetic Science	osmetic Science										
Course Code	BP809ET	809ET										
Course Outcomes & Bloom's Level	Understand) CO2- To understand aboเ Understand)	<ul> <li>2- To understand about CRF processing, and documentation forms(BL2- derstand)</li> <li>3- To develop skills to accquire Job oppurtunities(BL3-Apply)</li> <li>4- ()</li> </ul>										
Course Elements	Skill Development ✓ Entrepreneurship ✓ Employability ✓ Professional Ethics × Gender × Human Values × Environment ×		SDG4(Quality education) SDG8(Decent work and economic growth)									

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	1	1	3	-	-	-	-	1	-	1	-	2	1	1
CO2	1	1	1	2	-	-	-	-	1	-	2	-	1	1	1
CO3	1	1	-	1	-	-	-	-	-	-	2	-	-	1	-
CO4	1	1	1	-	1	-	-	-	-	-	1	-	-	1	1
CO5	1	1	1	-	1	-	-	-	1	-	1	-	-	1	1
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Experimental Pharmac	perimental Pharmacology											
Course Code	BP810ET	10ET											
Course Outcomes & Bloom's Level	Understand) CO2- To understand ab Understand)	<ul> <li>2- To understand about CRF processing, and documentation forms(BL2-derstand)</li> <li>3- To develop skills to accquire Job oppurtunities(BL3-Apply)</li> <li>4- ()</li> </ul>											
Course Elements	Skill Development ✓ Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG3(Good health and well-being) SDG4(Quality education) SDG8(Decent work and economic growth) SDG12(Responsible consuption and production) SDG17(Partnerships for the goals)										

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	1	1	-	1	1	-	-	-	-	2	-	3	1	2
CO2	2	1	1	-	2	1	-	-	-	-	1	-	3	1	2
CO3	2	1	1	-	2	-	-	-	-	-	1	-	3	1	2
CO4	2	1	1	-	-	1	-	-	-	-	2	-	3	1	2
CO5	2	1	1	-	2	-	-	-	-	-	1	-	3	1	2
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Advanced Instrumentation	vanced Instrumentation Techniques											
Course Code	BP811ET	11ET											
Course Outcomes & Bloom's Level	Understand) CO2- To understand about ( Understand)	2- To understand about CRF processing, and documentation forms(BL2- lerstand) 3- To develop skills to accquire Job oppurtunities(BL3-Apply) I- ()											
Course Elements	Skill Development ✓ Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG4(Quality education) SDG15(Life on land) SDG17(Partnerships for the goals)										

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	-	2	1	1	-	-	-	1	-	2	-	1	2	2
CO2	2	-	2	-	-	-	-	-	2	-	1	-	1	1	1
CO3	2	-	2	1	1	-	-	-	1	-	2	-	1	-	1
CO4	2	1	2	1	1	-	-	1	1	-	1	-	2	1	2
CO5	3	-	2	2	2	-	-	-	1	1	2	-	1	1	1
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Title of the Course	Dietary Supplements a	nd Nutraceutic	als								
Course Code	BP812ET										
Course Outcomes & Bloom's Level	Understand) CO2- To understand ab Understand)	<ul> <li>2- To understand about CRF processing, and documentation forms(BL2-derstand)</li> <li>3- To develop skills to accquire Job oppurtunities(BL3-Apply)</li> <li>4- ()</li> </ul>									
Course Elements	Skill Development X Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values √ Environment X	SDG (Goals)	SDG1(No poverty) SDG2(Zero hunger) SDG3(Good health and well-being) SDG4(Quality education) SDG12(Responsible consuption and production)								

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	-	1	-	1	1	-	-	-	-	2	-	1	1	1
CO2	3	-	1	-	-	1	-	-	-	-	1	-	1	2	1
CO3	2	-	1	-	1	1	-	-	-	-	2	-	1	1	-
CO4	2	-	1	-	1	1	-	-	-	-	1	-	1	1	1
CO5	2	-	1	-	1	1	-	-	-	-	2	-	1	1	1
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-