

BIRLA INSTITUTE OF TECHNOLOGY- MESRA, RANCHI
NEWCOURSE STRUCTURE - To be effective from academic session 2018- 19
Based on CBCS & OBE model
Recommended scheme FOR B. Pharm. program as per PCI Syllabus (Education regulation 2014)

Semester/ Session of Study (Recommended)	Course Level	Category of course	Course Code	Courses	Mode of delivery & credits <i>L-Lecture; T-Tutorial;P-Practicals</i>			Total Credits <i>C- Credits</i>	
					L <i>(Periods/week)</i>	T <i>(Periods/week)</i>	P <i>(Periods/week)</i>		C
THEORY									
FIRST Monsoon	First	FS Foundation Sciences	BP105T	Communication skills	2	0	0	2	
			BP106RBT	Remedial Biology*	2	0	0	2	
			BP106RMT	Remedial Mathematics *	2	0	0	2	
		GP General Pharmacy	BP101T	Human Anatomy and Physiology I	3	1	0	4	
			BP102T	Pharmaceutical Analysis I	3	1	0	4	
			BP103T	Pharmaceutics I	3	1	0	4	
			BP104T	Pharmaceutical Inorganic Chemistry	3	1	0	4	
		LABORATORIES							
	First	FS & GP	BP107P	Human Anatomy and Physiology	0	0	4	2	
			BP108P	Pharmaceutical Analysis I	0	0	4	2	
			BP109P	Pharmaceutics I	0	0	4	2	
			BP110P	Pharmaceutical Inorganic Chemistry	0	0	4	2	
			BP111P	Communication skills	0	0	2	1	
			BP112RBP	Remedial Biology *	0	0	2	1	
MC Mandatory Course		MC101/102/103	Choice of : NCC/NSS/ PT & Games/ Creative Arts (CA)	0	0	2	1		
TOTAL								28/30/31	

Remedial Mathematics for PCB Students and Remedial Biology Theory & Remedial Biology Practical for PCM students, PCMB students are exempted

THEORY								
SECOND Spring	First	FS	BP205T	Computer Applications in Pharmacy	3	0	0	3
			BP206T	Environmental sciences	3	0	0	3
		GP	BP201T	Human Anatomy and Physiology II	3	1	0	4
			BP202T	Pharmaceutical Organic Chemistry I	3	1	0	4
			BP203T	Biochemistry	3	1	0	4
			BP204T	Pathophysiology	3	1	0	4
		LABORATORIES						
	First	FS	BP210P	Computer Applications in Pharmacy	0	0	2	1
			GP	BP207P	Human Anatomy and Physiology II	0	0	4
		BP208P		Pharmaceutical Organic Chemistry I	0	0	4	2
		BP209P		Biochemistry	0	0	4	2
		MC	MC105/106/107	Choice of : NCC/NSS/ PT & Games/ Creative Arts (CA)	0	0	2	1
	TOTAL							30
GRAND TOTAL FOR FIRST YEAR								58/60/61

	THEORY							
	THIRD Monsoon	Second	GP	BP301T	Pharmaceutical Organic Chemistry II	3	1	0
BP302T				Physical Pharmaceutics I	3	1	0	4
BP303T				Pharmaceutical Microbiology	3	1	0	4
BP304T				Pharmaceutical Engineering	3	1	0	4
MT204				Constitution of India (Pass in Exam requird)	3	0	0	0
	LABORATORIES							
THIRD Monsoon	Second	GP	BP305P	Pharmaceutical Organic Chemistry II	0	0	4	2
			BP306P	Physical Pharmaceutics I	0	0	4	2
			BP307P	Pharmaceutical Microbiology	0	0	4	2
			BP 308P	Pharmaceutical Engineering	0	0	4	2
		MC	C201/202/203/2	Choice of : NCC/NSS/ PT & Games/ Creative Arts (CA)	0	0	2	1
TOTAL								25

FOURTH Spring				THEORY				
	Second	GP	BP401T	Pharmaceutical Organic Chemistry III	3	1	0	4
			BP402T	Medicinal Chemistry I	3	1	0	4
			BP403T	Physical Pharmaceutics II	3	1	0	4
			BP404T	Pharmacology I	3	1	0	4
			BP405T	Pharmacognosy and Phytochemistry I	3	1	0	4
		LABORATORIES						
	Second	GP	BP406P	Medicinal Chemistry I	0	0	4	2
			BP407P	Physical Pharmaceutics II	0	0	4	2
			BP408P	Pharmacology I	0	0	4	2
BP409P			Pharmacognosy and Phytochemistry I	0	0	4	2	
MC		C205/206/207/2	Choice of : NCC/NSS/ PT & Games/ Creative Arts (CA)	0	0	2	1	
TOTAL								29
FIFTH Monsoon				THEORY				
	Third	GP	BP501T	Medicinal Chemistry II	3	1	0	4
			BP502T	Industrial Pharmacy I	3	1	0	4
			BP503T	Pharmacology II	3	1	0	4
			BP504T	Pharmacognosy and Phytochemistry II	3	1	0	4
			BP505T	Pharmaceutical Jurisprudence	3	1	0	4
		LABORATORIES						
	Third	GP	BP506P	Industrial Pharmacy I	0	0	4	2
			BP507P	Pharmacology II	0	0	4	2
			BP508P	Pharmacognosy and Phytochemistry II	0	0	4	2
TOTAL								26

SIXTH Spring				THEORY				
	Third	GP	BP601T	Medicinal Chemistry III	3	1	0	4
			BP602T	Pharmacology III	3	1	0	4
			BP603T	Herbal Drug Technology – Theory	3	1	0	4
			BP604T	Biopharmaceutics and Pharmacokinetics	3	1	0	4
			BP605T	Pharmaceutical Biotechnology	3	1	0	4
			BP606T	Quality Assurance	3	1	0	4
		LABORATORIES						
	Third	GP	BP607P	Medicinal chemistry III	0	0	4	2
			BP608P	Pharmacology III	0	0	4	2
BP609P			Herbal Drug Technology	0	0	4	2	
TOTAL								30
SEVENTH Monsoon				THEORY				
	Fourth	GP	BP701T	Instrumental Methods of Analysis – Theory	3	1	0	4
			BP702T	Industrial PharmacyII – Theory	3	1	0	4
			BP703T	Pharmacy Practice – Theory	3	1	0	4
			BP704T	Novel Drug Delivery System – Theory	3	1	0	4
		LABORATORIES						
	Fourth	GP	BP705P	Instrumental Methods of Analysis – Practical	0	0	4	2
			BP706PS	Practice School*	0	0	12	6
TOTAL								24

				THEORY					
EIGHTH Spring	Fourth	GP	BP801T	Biostatistics and Research Methodology	3	1	0	4	
			BP802T	Social and Preventive Pharmacy	3	1	0	4	
		Electives I (Any One)	BP803ET	Pharma Marketing Management	3	1	0	4	
			BP804ET	Pharmaceutical Regulatory Science	3	1	0	4	
			BP805ET	Pharmacovigilance	3	1	0	4	
			BP806ET	Quality Control and Standardization of Herbals	3	1	0	4	
			BP807ET	Computer Aided Drug Design	3	1	0	4	
		Electives II (Any One)	BP808ET	Cell and Molecular Biology	3	1	0	4	
			BP809ET	Cosmetic Science	3	1	0	4	
			BP810ET	Experimental Pharmacology	3	1	0	4	
			BP811ET	Advanced Instrumentation Techniques	3	1	0	4	
			BP812ET	Dietary Supplements and Nutraceuticals	3	1	0	4	
		LABORATORIES							
	Fourth	GP	BP813PW	Project Work	0	0	12	6	
	TOTAL								22
	GRAND TOTAL								214/ 216/ 217