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Biopharmaceutics and Pharmacokinetics – Theory Course Title **Total Credits** Project Work Dietary Supplements and Nutraceuticals Cosmetic Science Cell and Molecular Biology Computer Aided Drug Design Pharma Marketing Management Pharmacology III - Practical Medicinal chemistry III - Practical Pharmaceutical Biotechnology - Theory Medicinal Chemistry III - Theory Pharmacognosy and Phytochemistry I - Practical Physical Pharmaceutics II - Practical Medicinal Chemistry I - Practical Medicinal Chemistry I – Theory Quality Assurance -Theory Pharmacology III -Pharmacognosy and Phytochemistry I- Theory Pharmaceutical Organic Chemistry I - Theory Herbal Drug Technology - Practical Pharmacology I - Practical Pharmacology I – Theory Physical Pharmaceutics II – Theory Pharmaceutical Organic Chemistry III- Theory Computer Applications in Pharmacy – Practical* Biochemistry – Practical Pharmaceutical Organic Chemistry I— Practical Human Anatomy and Physiology II –Practical Pathophysiology - Theory Biochemistry - Theory Environmental sciences – Theory Computer Applications in Human Anatomy and Physiology II – Theory X D Total Гotal Mangalam Hairarais Theory Registrar Pharmacy - Theory **Even Semester** EM/EP SD OE OE EM SD OE SD EM/EP SD OE SD SD SD SD SD EM SD SD SD SD SD OE SD Lype 24 3 + 3 = 6B. Pharmac 4 14 29 16 4 4 4 + 4 = 8

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OE SD/SE EM

Open elective
Skill development / Skill enhancement
Employability
Entrepreneurship

Page 1

Total Credits

Table-VIII: Course of study for semester VIII

Course code	Name of the course	No. of hours	Tutorial	Credit points
BP801T	Biostatistics and Research Methodology	3	1	4
BP802T	Social and Preventive Pharmacy	3	1	4
BP803ET	Pharma Marketing Management			
BP804ET	Pharmaceutical Regulatory Science			
BP805ET	Pharmacovigilance			
BP806ET	Quality Control and Standardization of Herbals	3 + 3 =	1+1=2	4 + 4 =
BP807ET	Computer Aided Drug Design	6		8
BP808ET	Cell and Molecular Biology			
BP809ET	Cosmetic Science			
BP810ET	Experimental Pharmacology			
BP811ET	Advanced Instrumentation Techniques			
BP812ET	Dietary Supplements and Nutraceuticals			
BP813PW	Project Work	12	-	6
	Total	24	4	22

Table-IX: Semester wise credits distribution

Semester	Credit Points
I	27/29 ^{\$} /30 [#]
II	29
III	26
IV	28
V	26
VI	26
VII	24
VIII	22
Extracurricular/ Co curricular activities	01*
Total credit points for the program	209/211 ^{\$} /212 [#]

^{*} The credit points assigned for extracurricular and or co-curricular activities shall be given by the Principals of the colleges and the same shall be submitted to the University. The criteria to acquire this credit point shall be defined by the colleges from time to time.

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Haryana 122103

^SApplicable ONLY for the students studied Physics / Chemistry / Botany / Zoology at HSC and appearing for Remedial Mathematics course.

^{*}Applicable ONLY for the students studied Mathematics / Physics / Chemistry at HSC and appearing for Remedial Biology course.

Table-VI: Course of study for semester VI

Course code	Name of the course	No. of hours	Tutorial	Credit points
BP601T	Medicinal Chemistry III – Theory	3	1	4
BP602T	Pharmacology III – Theory	3	1	4
BP603T	Herbal Drug Technology – Theory	3	1	4
BP604T	Biopharmaceutics and Pharmacokinetics – Theory	3	1	4
BP605T	Pharmaceutical Biotechnology - Theory	3	1	4
BP606T	Quality Assurance –Theory	3	1	4
BP607P	Medicinal chemistry III – Practical	4	-	2
BP608P	Pharmacology III – Practical	4	-	2
BP609P	Herbal Drug Technology – Practical	4	-	2
	Total	30	6	30

Table-VII: Course of study for semester VII

Course code	Name of the course	No. of hours	Tutorial	Credit points
BP701T	Instrumental Methods of Analysis – Theory	3	1	4
BP702T	Industrial PharmacyII – Theory	3	1	4
BP703T	Pharmacy Practice – Theory	3	1	4
BP704T	Novel Drug Delivery System – Theory	3	1	4
BP705P	Instrumental Methods of Analysis - Practical	4	-	2
BP706PS	Practice School*	12	-	6
	Total	28	5	24

* Non University Examination (NUE)

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Evaluation of Dissertation Book:

15 Marks
20 Marks
20 Marks
20 Marks

	Total	75 Marks
Evaluation of Presentation:		-
Presentation of work		25 Marks
Communication skills		20 Marks
Question and answer skills		30 Marks
	Total	75 Marks

Explanation: The 75 marks assigned to the dissertation book shall be same for all the students in a group. However, the 75 marks assigned for presentation shall be awarded based on the performance of individual students in the given criteria.

22. Industrial training (Desirable)

Every candidate shall be required to work for at least 150 hours spread over four weeks in a Pharmaceutical Industry/Hospital. It includes Production unit, Quality Control department, Quality Assurance department, Analytical laboratory, Chemical manufacturing unit, Pharmaceutical R&D, Hospital (Clinical Pharmacy), Clinical Research Organization, Community Pharmacy, etc. After the Semester – VI and before the commencement of Semester – VII, and shall submit satisfactory report of such work and certificate duly signed by the authority of training organization to the head of the institute.

23. Practice School

In the VII semester, every candidate shall undergo practice school for a period of 150 hours evenly distributed throughout the semester. The student shall opt any one of the domains for practice school declared by the program committee from time to time.

At the end of the practice school, every student shall submit a printed report (in triplicate) on the practice school he/she attended (not more than 25 pages). Along with the exams of semester VII, the report submitted by the student, knowledge and skills acquired by the student through practice school shall be evaluated by the subject experts at college leveland grade point shall be awarded.

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