### 1.1.(3) SCREENSHOTS FROM COLLEGE WEBSITE MENTIONING COURSES B. PHARMACY



# ijaya Institute of Pharmaceutical Sciences for Women

Accreditations & Certificates



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### **SYLLABUS**

**B. PHARM** 

M. PHARM

PHARM D & PHARM D (PB)

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Table-I:	Course	of	study	for	semester	I
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Course code	Name of the course	No. of hours	Tuto rial	Credit points
BP101T	Human Anatomy and Physiology I– Theory	3	1	4
BP102T	Pharmaceutical Analysis I – Theory	3	1	4
BP103T	Pharmaceutics I – Theory	3	1	4
BP104T	Pharmaceutical Inorganic Chemistry – Theory	3	1	4
BP105T	Communication skills - Theory *	2	-	2
BP106RBT BP106RMT	Remedial Biology/ Remedial Mathematics – Theory*	2	-	2
BP107P	Human Anatomy and Physiology – Practical	4	-	2
BP108P	Pharmaceutical Analysis I – Practical	4	-	2
BP109P	Pharmaceutics I – Practical	4	-	2
BP110P	Pharmaceutical Inorganic Chemistry – Practical	4	-	2
BP111P	Communication skills - Practical*	2	-	1
BP112RBP	Remedial Biology - Practical*	2	-	1
	Total	32/345/36	4	27/29 <sup>5</sup> /30 <sup>#</sup>

<sup>&</sup>quot;Applicable ONLY for the students who have studied Mathematics / Physics / Chemistry at HSC and



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Applicable ONLY for the students who have studied Mathematics / Physics / Chemistry at HSC and appearing for Remedial Biology (RB)course.

\*Applicable ONLY for the students who have studied Physics / Chemistry / Botany / Zoology at HSC and appearing for Remedial Mathematics (RM)course.

\*Non University Examination (NUE)

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Table-II: Course of study for semester II

Course Code	Name of the course	No. of hours	Tutorial	Credit points
BP201T	Human Anatomy and Physiology II - Theory	3	1	4
BP202T	Pharmaceutical Organic Chemistry I - Theory	3	1	4
BP203T	Biochemistry - Theory	3	1	4
BP204T	Pathophysiology – Theory	3	1	4
BP205T	Computer Applications in Pharmacy - Theory *	3	-	3
BP206T	Environmental sciences – Theory *	3	-	3
BP207P	Human Anatomy and Physiology II - Practical	4	-	2
BP208P	Pharmaceutical Organic Chemistry I- Practical	4	-	2
BP209P	Biochemistry - Practical	4	-	2
BP210P	Computer Applications in Pharmacy - Practical*	2	-	1
	Total	32	4	29

<sup>\*</sup>Non University Examination (NUE)

Table-III: Course of study for semester III

Course code	Name of the course	No. of hours	Tutorial	Credit points
BP301T	Pharmaceutical Organic Chemistry II - Theory	3	1	4
BP302T	Physical Pharmaceutics I – Theory		1	4
BP303T	Pharmaceutical Microbiology - Theory	3	1	4
BP304T	Pharmaceutical Engineering - Theory	3	1	4
BP305P	Pharmaceutical Organic Chemistry II - Practical	4	-	2
BP306P	Physical Pharmaceutics I - Practical	4	-	2
BP307P	Pharmage districted type logy - Practical	4	-	2
BP 308P	Pharwas dical Engineering - Practical	4	-	2
	Total	28	4	-to 24
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Total

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BP504T Pharmacognosy and Phytochemistry II– Theory

Pharmaconacidation in cochemistry II –

BP505T Pharmaceutical Jurisprudence - Theory

Pharmacology II Practical

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BP506P

BP507P

BP508P

Industrial Pharmacyl - Practical

#### Table-VI: Course of study for semester VI

Course	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	Name of the course	No. of hours	Tutorial	Credit points
BP701T	Instrumental Methods of Analysis - Theory	3	1	4
BP702T	Industrial Pharmacyll – 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 Total	28	. 5	24

\* Non University Example (NUE)

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#### 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

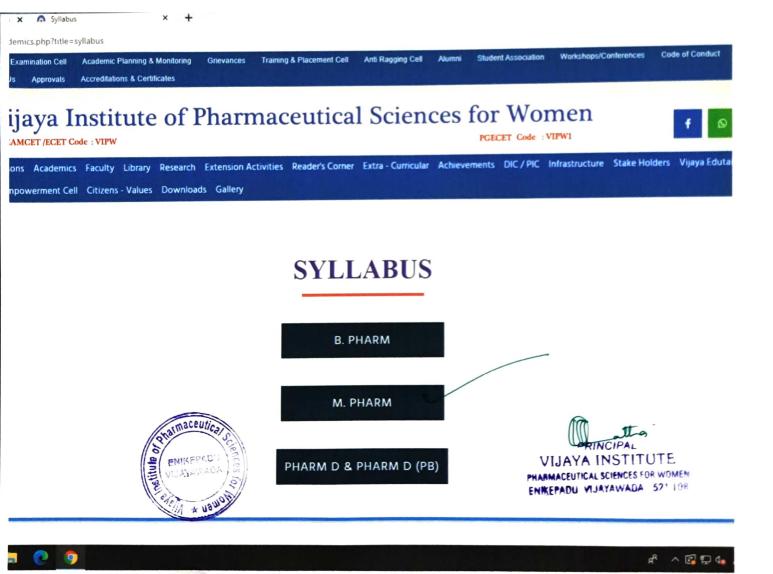
Table-IX: Semester wise credits distribution

Credit Points
27/29 <sup>\$</sup> /30*
29
26
28
26
26
24
22
01*

\* The credit points of the concerned and or co-curricular activities and the same many submitted to the University. The ordern to acquire his

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### 1.1.(3) SCREENSHOTS FROM COLLEGE WEBSITE MENTIONING COURSES M.PHARM PHARMACEUTICS M.PHARM PHARMACEUTICAL ANALYSIS M.PHARM PHARMACOLOGY



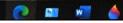


Course Code	Course	Credit Hours	Credit Points	Hrs./w k	Marks
	Some	ester I	TO THE WAY		Marue.
MPH101T	Modern Pharmaceutical Analytical Techniques	4	4	4	100
MPH102T	Drug Delivery System	4	4	4	100
MPH103T	Modern Pharmaceutics	4	4	4	100
MPH104T	Regulatory Affair	4	4	4	100
MPH105P	Pharmaceutics Practical I	12	6	12	150
	Seminar/Assignment	7	4	7	100
	Total	35	26	35	650
	Seme	ster II			
MPH201T	Molecular Pharmaceutics (Nano Tech and Targeted DDS)	4	4	4	100
MPH202T	Advanced Biopharmaceutics & Pharmacokinetics	4	4	4	100
MPH203T	Computer Aided Drug Delivery System	4	4	4	100
MPH204T	Cosmetic and Cosmeceuticals	4	4	4	100
MPH205P	Pharmaceutics Practical II	12	6	12	150
	Seminar/Assignment	7	4	7	100
	Total	35	26	35	650



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Course Code	Course	Credit Hours	Credit Points	Hrs./wk	Marks
	Semes	tor I			
MPA101T	Modern Pharmaceutical Analytical Techniques	4	4	4	100
MPA102T	Advanced Pharmaceutical Analysis	4	4	4	100
MPA103T	Pharmaceutical Validation	4	4	4	100
MPA104T	Food Analysis	4	4	4	100
MPA105P	Pharmaceutical Analysis Practical I	12	6	12	150
	Seminar/Assignment	7	4	7	100
	Total	35	26	35	650
	Semes	tor II			
MPA201T	Advanced Instrumental Analysis	4	4	4	100
MPA202T	Modern Bio-Analytical Techniques	4	4	4	100
MPA203T	Quality Control and Quality Assurance	4	4	4	100
MPA204T	Herbal and Cosmetic Analysis	4	4	4	100
MPA205P	Pharmaceutical Analysis Practical II	12	6	12	150
tint * dus	Seminar/Assignment	7	4	7	100
	Total	35	26	35	650



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Course	Course	Credit Hours	Credit Points	Hrs./wk	Marks
	Seme	ster I			diff. mil
MPL 101T	Modern Pharmaceutical Analytical Techniques	4	4	4	100
MPL 102T	Advanced Pharmacology-I	4	4	4	100
MPL 103T	Pharmacological and Toxicological Screening Methods-I	4	4	4	100
MPL 104T	Cellular and Molecular Pharmacology	4	4	4	100
MPL 105P	Pharmacology Practical I	12	6	12	150
	Seminar/Assignment	7	4	7	100
	Total	35	26	35	650
1	Semen	itor II			Sul to
MPL 201T	Advanced Pharmacology II	4	4	4	100
MPL 102T	Pharmacological and Toxicological Screening Methods-II	4	4	4	100
MPL 203T	Principles of Drug Discovery	4	4	4	100
MPL 204T	Experimental Pharmacology practical- II	4	4	4	100
MPL 205P	Pharmacology Practical II	12	6	12	150
	Seminar/Assignment	7	4	7	100
	Total	35	26	35	650



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Table – 12: Course of study for M. Pharm. III Semester (Common for All Specializations)

Course Code	Course	Credit Hours	Credit Points
MRM 301T	Research Methodology and Biostatistics*	4	4
	Journal club	1	1
	Discussion / Presentation (Proposal Presentation)	2	2
	Research Work	28	14
	Total	35	21

\* Non University Exam

Table – 13: Course of study for M. Pharm. IV Semester (Common for All Specializations)

Course Code	Course	Credit Hours	Credit Points
	Journal Club	1	1
	Research Work	31	16
7.10	Discussion/Final Presentation	3	3
	Total	35	20

Table - 14: Semester wise credits distribution

Semester	Credit Points
	26
II .	26
	21
IV	20
Co-curricular Activities (Attending Conference, Scientific Presentations and Other Scholarly Activities)	Minimum=02 Maximum=07*
Total Credit Points	Minimum=95 Maximum=100*

\*Credit Points for Co-curricular Activities

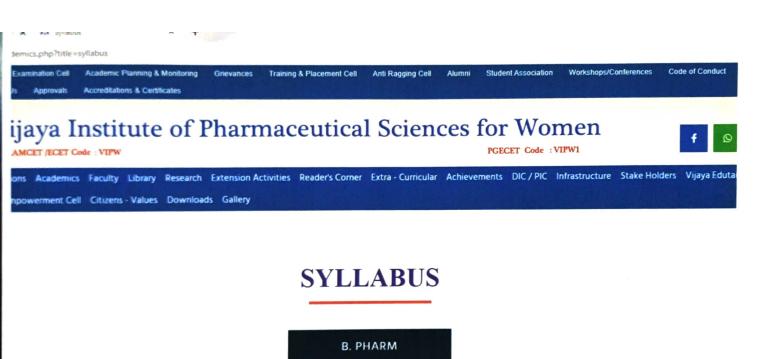


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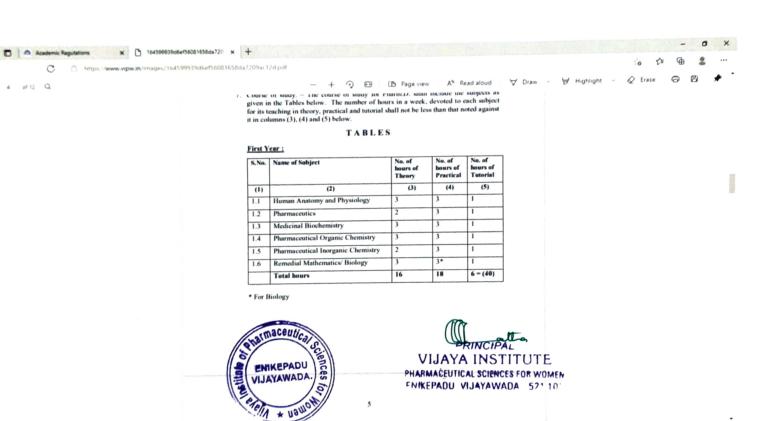
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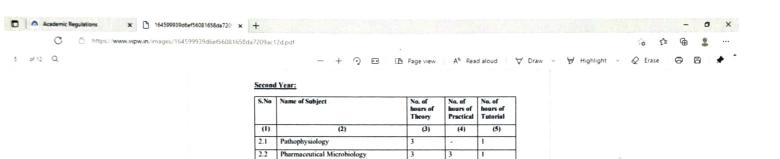








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#### Third Year:

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2.3 Pharmacognosy & Phytopharmaceuticals

Pharmacology-I 2.5 Community Pharmacy 2.6 Pharmacotherapeutics-I Total Hours

S.No.	Name of Subject	No. of hours of Theory	No. of hours of Practical	No. of bours of Tutorial
(1)	(2)	(3)	(4)	(5)
3.1	Pharmacology-II	3	3	1
3.2	Pharmaceutical Analysis	3	3	1
3.3	Pharmacotherapeutics-II	3	3	1
3.4	Pharmaceutical Jurisprudence	2	-	
3.5	Medicinal Chemistry	3	3	1
3.6	Pharmaceutical Formulations	2	3	1
	Total hours	16	15	5 - 36

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#### Fourth Year:

S.No.	Name of Subject	No. of hours of Theory	No. of hours of Practical/ Hospital Posting	No. of hours of Tutorial
(1)	(2)	(3)	(4)	(5)
4.1	Pharmacotherapeutics-III	3	3	1
4.2	Hospital Pharmacy	2	3	1
4.3	Clinical Pharmacy	3	3	1
4.4	Biostatistics & Research Methodology	2	-	1
4.5	Biopharmaceutics & Pharmacokinetics	3	3	1
4.6	Clinical Toxicology	2	1-	1
	Total hours	15	12	6 = 33

#### Fifth Year:

S.No.	Name of Subject	No. of hours of Theory	No. of hours of Hospital posting*	No. of hours of Seminar
(1)	(2)	(3)	(4)	(5)
5.1	Clinical Research	3	-	1
5.2	Pharmacoepidemiology and Pharmacoeconomics	3	-	1
5.3	Clinical Pharmacokinetics & Pharmacotherapeutic Drug Monitoring	2	-	1
5.4	Clerkship * Clerks	-	- ((()	1 _ 10
5.5	Project wer six Months)	-	20 271	NEIPAL

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Internship or residency training including postings in speciality units. Student should independently provide the clinical pharmacy services to the allotted wards.

- (i) Six months in General Medicine department, and
- (ii) Two months each in three other speciality departments
- 8. Syllabus. The syllabus for each subject of study in the said Tables shall be as specified in Appendix -A to these regulations.
- 9. Approval of the authority conducting the course of study. (1) No person, institution, society or university shall start and conduct Pharm.D or Pharm.D. (Post Baccalaureate) programme without the prior approval of the Pharmacy Council of
  - (2) Any person or pharmacy college for the purpose of obtaining permission under sub-section (1) of section 12 of the Pharmacy Act, shall submit a scheme as prescribed by the Pharmacy Council of India.
  - (3) The scheme referred to in sub-regulation (2) above, shall be in such form and contain such particulars and be preferred in such manner and be accompanied with such fee as may be prescribed:

Provided that the Pharmacy Council of India shall not approve any institution under these regulations unless it provides adequate arrangements for teaching in regard to building, accommodation, labs., equipments, teaching staff, non-

- regard to building accommodation, labs., equipments, teaching staff, non-teaching staff, non-teaching staff, among the staff of the sta 10. Examinati

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### • PHARM. D. POST BACCALAUREATE PROGRAM

(Inclusion of Pharmacotherapeutics I & II subject in the fourth year of the program)

### SYLLABUS FOR PHARMACOTHERAPEUTICS 1 & II (THEORY)

Theory: 3Hrs/week

· Etiopathogenesis and pharmacotherapy of diseases associated with following systems/ diseases.

1.	Cardiovascular system: Hypertension, Congestive cardiac failure, Angina Pectoris, Myocardial infarction, Hyperlipidaemias Electrophysiology of heart and Arrhythmias	Total = 13 hrs (3+2+2+2+2)
2.	Respiratory system: Introduction to Pulmonary function test, Asthma, Chronic obstructive airways disease, Drug induced pulmonary diseases	
3.	Endocrine system: Diabetes, Thyroid diseases, Oral contraceptives, Hormone replacement therapy, Osteoporosis	
4.	General presenting guidelines for a Paeding CampierADU B. Geriaria yanowaDA. B. c. Pregnata and breast redding	Tota La Internation Control Co

Introduction to rational drug use Total = 2 hrs Definition, Role of pharmacist Essential drug concept Rational (1+1)drug formulations

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Infectious disease: Guidelines for the rational use of antibiotics and surgical Prophylaxis, Tuberculosis, Meningitis, infections, Respiratory tract Total = 18 hrs. Endocarditis, Gastroenteritis, (2+1+1+2+1+1+1+2 Septicemia, Urinary tract infections, +1+2+1+1+1+1) Protozoal infection- Malaria, HIV & Opportunistic infections, Fungal infections, infections, Gonarrhoea and Balling 8. Musculoske by al disorde Rheumato at 11/16840 Ostarthritis, Gout, Sportylitis, Ways Lance lupus erythematos

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9.	Renal system		
	Acute Renal Failure, Chronic Renal	`Total = 05hrs.	
	Failure, Renal Dialysis, Drug induced	(2+1+1+1)	
	renal disorders	` ,	
10.	Oncology: Basic principles of Cancer		
	therapy, General introduction to cancer		
	chemotherapeutic agents,	Total = 06 hrs.	
	Chemotherapy of breast cancer,	(2+1+2+1)	
	leukemia. Management of		
	chemotherapy nausea and emesis		
11.	Dermatology: Psoriasis, Scabies,	77	
	Eczema, Impetigo	Total = 4 hrs.	

#### PHARMACOTHERAPEUTICS - I & II (PRACTICAL)

Practicals: 3 Hrs./Week

Practicals:

Hospital postings in various departments designed to complement the lectures by providing practical clinical discussion; attending ward rounds; follow up the progress and changes made in drug therapy in allotted patients; case presentation upon discharge. Students are required to maintain a record of cases presented and the same should be submitted at



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