



VIJAYA INSTITUTE OF PHARMACEUTICAL SCIENCES FOR WOMEN

Enikepadu, Vijayawada-521108. Andhra Pradesh, India.

vijayapharmacyfw@gmail.com

Phone: +91 741 656 0999

SYLLABUS | R13 B.PHARMACY



VIJAYA INSTITUTE
PHARMACEUTICAL SCIENCES FOR WOMEN
ENIKEPADU VIJAYAWADA 521 108

**ACADEMIC REGULATIONS
COURSE STRUCTURE
AND
DETAILED SYLLABUS**

B.PHARMACY

For

B.PHARMACY FOUR YEAR DEGREE COURSE

(Applicable for the batches admitted from 2013-14)



**JAWAHARLAL NEHRU TECHNOLOGICAL
UNIVERSITY KAKINADA
KAKINADA – 533003, ANDHRA PRADESH, INDIA.**




**PRINCIPAL
VIJAYA INSTITUTE
PHARMACEUTICAL SCIENCES FOR WOMEN
ENIKEPADU VIJAYAWADA 521 108**

Academic Regulations (R13) for B. Pharm. (Regular)

Applicable for the students of B. Pharm. (Regular) from the Academic Year 2013-14 onwards

1. Award of B. Pharm. Degree:

A student will be declared eligible for the award of the B.Pharm Degree if he fulfils the following academic regulations:

- 1.1 Pursued a course of study for not less than four academic years and not more than eight academic years.
- 1.2 Register for all the 180 credits and secure all the 180 credits.

2. Distribution and Weightage of Marks:

- i. The performance of a student in each semester shall be evaluated subject – wise with a maximum of 100 marks for theory and 75 marks for practical subject. The project work shall be evaluated for 200 marks.
- ii. For theory subjects the distribution shall be 30 marks for Internal Evaluation and 70 marks for the End-Examination.
- iii. For theory subjects, during the semester there shall be 2 tests. The weightage of Internal marks for 30 consists of Descriptive – 15, Assignment - 05 (Theory, Design, Analysis, Simulation, Algorithms, Drawing, etc. as the case may be) Objective -10 (Conducted at College level with 20 Multiple choice question with a weightage of ½ Mark each). The objective examination is for 20 minutes duration. The subjective examination is for 90 minutes duration conducted for 15 marks. Each subjective type test question paper shall contain **3 questions** and all questions need to be answered. The Objective examination conducted for 10 marks and subjective examination conducted for 15 marks are to be added to the assignment marks of 5 for finalizing internal marks for 30. The best of the two tests will be taken for internal marks. As the syllabus is framed for 6 units, the 1st mid examination (both Objective and Subjective) is conducted in 1-3 units and second test in 4-6 units of each subject in a semester.
- iv. The end semester examination is conducted covering the topics of all Units for 70 marks. Part – A contains a mandatory question (Brainstorming / Thought provoking / case study) for 22 marks. Part – B



has 6 questions (One from each Unit). The student has to answer 3 out of 6 questions in Part – B and carries a weightage of 16 marks each.

- v. For practical subjects there shall be continuous evaluation during the semester for 25 internal marks and 50 end examination marks. Of the 25 marks for internal, 15 marks shall be awarded as follows: day to day work 10 and Record-5, and 10 marks to be awarded by conducting an internal laboratory test. The end examination shall be conducted by the teacher concerned and external examiner.
- vi. For the subject having design and / or drawing, (such as Engineering Graphics, Engineering Drawing, Machine Drawing) and estimation, the distribution shall be 30 marks for internal evaluation (20 marks for day – to – day work, and 10 marks for internal tests) and 70 marks for end examination. There shall be two internal tests in a Semester and the better of the two shall be considered for the award of marks for internal tests.
- vii. For the seminar, the student shall collect the information on a specialized topic and prepare a technical report, showing his understanding over the topic, and submit to the department, which shall be evaluated by the Departmental committee consisting of Head of the department, seminar supervisor and a senior faculty member. The seminar report shall be evaluated for 50 marks. There shall be no external examination for seminar.
- viii. Out of a total of 200 marks for the project work, 60 marks shall be for Internal Evaluation and 140 marks for the End Semester Examination. The End Semester Examination (Viva – Voce) shall be conducted by the committee. The committee consists of an external examiner, Head of the Department and Supervisor of the Project. The evaluation of project work shall be conducted at the end of the IV year. The Internal Evaluation shall be on the basis of two seminars given by each student on the topic of his project and evaluated by an internal committee.
- ix. Laboratory marks and the internal marks awarded by the College are not final. The marks are subject to scrutiny and scaling by the University wherever felt desirable. The internal and laboratory marks awarded by the College will be referred to a Committee. The Committee shall arrive at a scaling factor and the marks will be scaled as per the scaling factor.



The recommendations of the Committee are final and binding. The laboratory records and internal test papers shall be preserved in the respective departments as per the University norms and shall be produced to the Committees of the University as and when they ask for.

- x. There shall be a Comprehensive Viva-Voce in IV year II semester. The Comprehensive Viva-Voce will be conducted by a Committee consisting of (i) Head of the Department (ii) two Senior Faculty members of the Department. The Comprehensive Viva-Voce is aimed to assess the students' understanding in various subjects he / she studied during the B.Pharm course of study. The Comprehensive Viva-Voce is valued for 100 marks by the Committee. There are no internal marks for the Comprehensive viva-voce.

3. **Attendance Requirements:**

- a. A student is eligible to write the University examinations if he acquires a minimum of 75% of attendance in aggregate of all the subjects.
- b. Condonation of shortage of attendance in aggregate up to 10% (65% and above and below 75%) in each semester may be granted by the College Academic Committee
- c. Shortage of Attendance below 65% in aggregate shall not be condoned.
- d. A student who is short of attendance in semester may seek re-admission into that semester when offered within 4 weeks from the date of the commencement of class work.
- e. Students whose shortage of attendance is not condoned in any semester are not eligible to write their end semester examination of that class.
- f. A stipulated fee shall be payable towards condonation of shortage of attendance.
- g. A student will be promoted to the next semester if he satisfies the attendance requirement of the present semester and (ii) credits.
- h. If any candidate fulfills the attendance requirement in the present semester, he shall not be eligible for readmission into the same class.

4. **Minimum Academic Requirements:**

The following academic requirements have to be satisfied in addition to the attendance requirements mentioned in item no. 3.




PRINCIPAL
VIJAYA INSTITUTE
PHARMACEUTICAL SCIENCES FOR WOMEN
ENKEPADU VIJAYAWADA 521 101

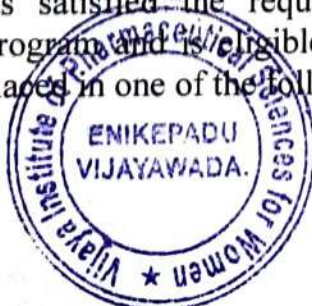
- i. A student shall be deemed to have satisfied the minimum academic requirements and earned the credits allotted to each theory or practical subject or project if he secures not less than 35% of marks in the end examination and a minimum of 40% of marks in the sum total of the internal evaluation and end examination taken together.
- ii. A student shall be promoted from first year to second year if he fulfills the minimum attendance requirement.
- iii. A student will be promoted from II year to III year if he fulfills the academic requirement of 40% of the credits up to II year I semester from all the examinations, whether or not the candidate takes the examinations and secures prescribed minimum attendance in II year II semester.
- iv. A student shall be promoted from III year to IV year only if he fulfills the academic requirements of 40% of the credits up to III year I semester from all the examinations, whether or not the candidate takes the examinations and secures prescribed minimum attendance in III year II semester.
- v. A student shall register and put up minimum attendance in all 180 credits and earn all the 180 credits. Marks obtained in all the 180 credits shall be considered for the calculation of percentage of marks.

5. **Course pattern:**

- 5.1 The entire course of study is for four academic years, all years on semester pattern.
- 5.2 A student, eligible to appear for the end semester examination in a subject, but absent from it or has failed in the end semester examination, may write the exam in that subject when conducted next.
- 5.3 When a student is detained for lack of credits/shortage of attendance, he may be re-admitted into the same semester / year in which he has been detained. However, the academic regulations under which he was first admitted, shall continue to be applicable to him.

6. **Award of Class:**

After a student has satisfied the requirements prescribed for the completion of the program and is eligible for the award of B. Pharm Degree he shall be placed in one of the following four classes:



Class Awarded	% of marks to be secured
First Class with Distinction	70% and above
First Class	Below 70 but not less than 60%
Second Class	Below 60% but not less than 50%
Pass Class	Below 50% but not less than 40%
From the aggregate marks secured from 180 Credits.	

(The marks in internal evaluation and end examination shall be shown separately in the marks memorandum)

7. Minimum Instruction Days:

The minimum instruction for each semester shall be 90 clear instruction days.

8. WITHHOLDING OF RESULTS

If the student has not paid the dues, if any, to the university or if any case of indiscipline is pending against him, the result of the student will be withheld and he will not be allowed into the next semester. His degree will be withheld in such cases.

9. TRANSITORY REGULATIONS

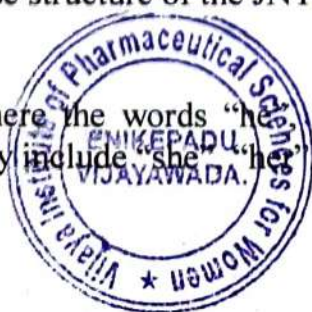
9.1 Discontinued or detained candidates are eligible for readmission as and when next offered.

9.2 After the revision of the regulations, the students of the previous batches will be given two chances for passing in their failed subjects, one supplementary and the other regular. If the students cannot clear the subjects in the given two chances, they shall be given equivalent subjects as per the revised regulations which they have to pass in order to obtain the required number of credits.

9.3 In case of transferred students from other Universities, the credits shall be transferred to JNTUK as per the academic regulations and course structure of the JNTUK.

10. General:

10.1 Where the words "he", "him", "his", occur in the regulations, they include "she", "her", "hers".



- 10.2 The academic regulation should be read as a whole for the purpose of any interpretation.
- 10.3 In the case of any doubt or ambiguity in the interpretation of the above rules, the decision of the Vice-Chancellor is final.
- 10.4 The University may change or amend the academic regulations or syllabi at any time and the changes or amendments made shall be applicable to all the students with effect from the dates notified by the University.
- 10.5 The students seeking transfer to colleges affiliated to JNTUK from various other Universities/Institutions have to pass the failed subjects which are equivalent to the subjects of JNTUK, and also pass the subjects of JNTUK on their own without the right to sessional marks which the candidates have not studied at the earlier Institution.

* * * *




PRINCIPAL
VIJAYA INSTITUTE
PHARMACEUTICAL SCIENCES FOR WOMEN
ENIKEPADU VIJAYAWADA 52' 108

COURSE STRUCTURE

I Year – I SEMESTER

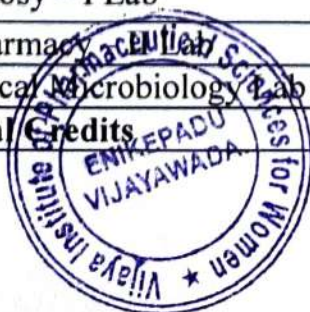
S. No.	Subject	T	P	Credits
1	English	3 + 1	--	3
2	Remedial Mathematics/ Remedial Biology	3/2 + 1	--	3/2
3	Human Anatomy & Physiology – I	3 + 1	--	3
4	Dispensing Pharmacy & Ethics	3 + 1	--	3
5	Pharmaceutical Organic Chemistry-I	3 + 1	--	3
6	English Communications Skills Lab	--	3	2
7	Remedial Biology Lab	--	2	0/1
8	Dispensing Pharmacy Lab	--	3	2
9	Pharmaceutical Organic Chemistry-I Lab	--	3	2
Total Credits				21

I Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	Human Anatomy & Physiology – II	3 + 1	--	3
2	Pharm. Inorganic Chemistry	3 + 1	--	3
3	Pharm. Organic Chemistry – II	3 + 1	--	3
4	Physical Pharmacy – I	3 + 1	--	3
5	Computer Applications & Biostatistics	3 + 1	--	3
6	Human Anatomy & Physiology Lab	--	3	2
7	Physical Pharmacy – I Lab	--	3	2
8	Computer Applications Lab	--	3	2
Total Credits				21

II Year – I SEMESTER

S. No.	Subject	T	P	Credits
1	Pharmaceutical Unit Operations - I	3 + 1	--	3
2	Pharmacognosy - I	3 + 1	--	3
3	Physical Pharmacy - II	3 + 1	--	3
4	Pharmaceutical Microbiology	3 + 1	--	3
5	Environmental Science	3 + 1	--	3
6	Pharmacognosy – I Lab	--	3	2
7	Physical Pharmacy Lab	--	3	2
8	Pharmaceutical Microbiology Lab	--	3	2
Total Credits				21



II Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	Pharmaceutical Unit Operations –II	3 +1	--	3
2	Pharmaceutical Analysis - I	3 +1	--	3
3	Pharmacognosy -II	3 +1	--	3
4	Medicinal chemistry - I	3 +1	--	3
5	Health Education & Pathophysiology	3 +1	--	3
6	Pharmaceutical Unit Operations Lab	--	3	2
7	Pharmaceutical Analysis – I Lab	--	3	2
8	Pharmacognosy –II Lab	--	3	2
Total Credits				21

III Year – I SEMESTER

S. No.	Subject	T	P	Credits
1	Pharmaceutical Biochemistry	3 +1	-	3
2	Medicinal Chemistry - II	3 +1	-	3
3	Pharmaceutical Technology - I	3 +1	-	3
4	Pharmacology -I	3 +1	-	3
5	Pharmaceutical Management	3 +1	-	3
6	Pharmaceutical Biochemistry Lab	-	3	2
7	Pharmaceutical Technology-I Lab	-	3	2
8	Medicinal Chemistry Lab	-	3	2
Total Credits				21

III Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	Pharmaceutical Technology -II	3 +1	-	4
2	Pharm. Biotechnology	3 +1	-	4
3	Pharmacology - II	3 +1	-	4
4	Medicinal Chemistry - III	3 +1	-	4
5	Regulatory Affairs, IPR & Patents	3 +1	-	2
6	Pharmaceutical Technology –II Lab	-	3	2
7	Pharmacology Lab	-	3	2
8	Pharm. Biotechnology Lab	-	3	2
Total Credits				24




PRINCIPAL
VIJAYA INSTITUTE
 PHARMACEUTICAL SCIENCES FOR WOMEN
 ENIKEPADU VIJAYAWADA 52nd 10th

IV Year – I SEMESTER

S. No.	Subject	T	P	Credits
1	Pharmaceutical Analysis -II	3 +1	-	4
2	Bio assays & Toxicology	3 +1	-	4
3	Chemistry of Natural Products	3 +1	-	4
4	Hospital & Community Pharmacy	3 +1	-	4
5	Pharmaceutical Jurisprudence	3 +1	-	3
6	Pharmaceutical Analysis – II Lab	-	3	2
7	Bio assays& Toxicology Lab	-	3	2
8	Chemistry of Natural Products	-	3	2
9	Project Commencement	-	-	-
Total Credits				25

IV Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	Biopharmaceutics & Pharmacokinetics	3 +1	-	4
2	Clinical Pharmacy, Therapeutics & Pharmacovigilance	3 + 1	-	3
3	Controlled release & Novel Drug Delivery Systems	3 +1	-	4
4	Quality Assurance, GMP, GLP	3 +1	3	3
5	Biopharmaceutics & Pharmacokinetics Lab	-	3	2
6	Project Work	-	-	4
7	Project Seminar	-	-	4
8	Comprehensive Viva	-	-	2
Total Credits				26




PRINCIPAL
VIJAYA INSTITUTE
 PHARMACEUTICAL SCIENCES FOR WOMEN
 ENIKEPADU VIJAYAWADA 52nd 108



VIJAYA INSTITUTE OF PHARMACEUTICAL SCIENCES FOR WOMEN

Enikepadu, Vijayawada-521108. Andhra Pradesh, India.

vijayapharmacyfw@gmail.com

Phone: +91 741 656 0999

SYLLABUS | R16 B.PHARMACY




PRINCIPAL
VIJAYA INSTITUTE
PHARMACEUTICAL SCIENCES FOR WOMEN
ENIKEPADU VIJAYAWADA 521 108

COURSE STRUCTURE AND SYLLABUS

For

B. PHARMACY

(Applicable for batches admitted from 2016-2017)



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY: KAKINADA
KAKINADA - 533 003, Andhra Pradesh, India




PRINCIPAL

VIJAYA INSTITUTE
PHARMACEUTICAL SCIENCES FOR WOMEN
ENIKEPADU VIJAYAWADA 521 102

I Year I Semester

S. No.	Sub Code	Subject	L	T	P	Credits
1	PHR16111	English	4	1	-	3
2	PHR16112	Remedial Mathematics / Remedial Biology	4	-	-	0
3	PHR16113	Human Anatomy & Physiology – I	4	1	-	3
4	PHR16114	General & Dispensing Pharmacy	4	1	-	3
5	PHR16115	Pharmaceutical Organic Chemistry-I	4	1	-	3
6	PHR16116	English Communications Skills Lab	-	-	3	2
7	PHR16117	Remedial Biology Lab	-	-	2	0
8	PHR16118	General & Dispensing Pharmacy Lab	-	-	3	2
9	PHR16119	Pharmaceutical Organic Chemistry-I Lab	-	-	3	2
		Total	20	4	11	18

I Year II Semester

S. No.	Sub Code	Subject	L	T	P	Credits
1	PHR16121	Human Anatomy & Physiology – II	4	1	-	3
2	PHR16122	Pharm. Inorganic Chemistry	4	1	-	3
3	PHR16123	Pharm. Organic Chemistry – II	4	1	-	3
4	PHR16124	Physical Pharmacy – I	4	1	-	3
5	PHR16125	Computer Applications & Biostatistics	4	1	-	3
6	PHR16126	Human Anatomy & Physiology Lab	-	-	3	2
7	PHR16127	Physical Pharmacy – I Lab	-	-	3	2
8	PHR16128	Computer Applications Lab	-	-	3	2
		Total	20	5	9	21




PRINCIPAL
VIJAYA INSTITUTE
PHARMACEUTICAL SCIENCES FOR WOMEN
ENIKEPADU VIJAYAWADA 52° 10R

II Year I Semester

S. No.	Sub Code	Subject	L	T	P	Credits
1	PHR16211	Pharmaceutical Unit Operations - I	4	1	-	3
2	PHR16212	Pharmaceutical Biochemistry	4	1	-	3
3	PHR16213	Physical Pharmacy - II	4	1	-	3
4	PHR16214	Pharmaceutical Microbiology	4	1	-	3
5	PHR16215	Health Education & Pathophysiology	4	1	-	3
6	PHR16216	Pharmaceutical Biochemistry Lab	-	-	3	2
7	PHR16217	Physical Pharmacy – II Lab	-	-	3	2
8	PHR16218	Pharmaceutical Microbiology Lab	-	-	3	2
		Total	20	5	9	21

II Year II Semester

S. No.	Sub Code	Subject	L	T	P	Credits
1	PHR16221	Pharmaceutical Unit Operations –II	4	1	-	3
2	PHR16222	Pharmaceutical Analysis - I	4	1	-	3
3	PHR16223	Pharmacognosy -I	4	1	-	3
4	PHR16224	Medicinal Chemistry - I	4	1	-	3
5	PHR16225	Pharmacology - I	4	1	-	3
6	PHR16226	Pharmaceutical Unit Operations Lab	-	-	3	2
7	PHR16227	Pharmaceutical Analysis – I Lab	-	-	3	2
8	PHR16228	Pharmacognosy – I Lab	-	-	3	2
		Total	20	5	9	21




PRINCIPAL
VIJAYA INSTITUTE
PHARMACEUTICAL SCIENCES FOR WOMEN
ENIKEPADU VIJAYAWADA 52' 108

III Year I Semester

S. No.	Sub Code	Subject	L	T	P	Credits
1	PHR16311	Pharmacognosy -II	4	1	-	4
2	PHR16312	Medicinal Chemistry - II	4	1	-	4
3	PHR16313	Pharmaceutical Technology - I	4	1	-	4
4	PHR16314	Environmental Sciences	4	1	-	2
5	PHR16315	Pharmaceutical Management	4	1	-	3
6	PHR16316	Pharmacognosy -II Lab	-	-	3	2
7	PHR16317	Medicinal Chemistry Lab	-	-	3	2
8	PHR16318	Pharmaceutical Technology-I Lab	-	-	3	2
		Total	20	5	9	23

III Year II Semester

S. No.	Sub Code	Subject	L	T	P	Credits
1	PHR16321	Pharmaceutical Technology -II	4	1	-	4
2	PHR16322	Pharm. Biotechnology	4	1	-	4
3	PHR16323	Pharmacology - II	4	1	-	4
4	PHR16324	Medicinal Chemistry - III	4	1	-	4
5	PHR16325	Regulatory Affairs, IPR & Patents	4	1	-	2
6	PHR16326	Pharmaceutical Technology -II Lab	-	-	3	2
7	PHR16327	Pharm. Biotechnology Lab	-	-	3	2
8	PHR16328	Pharmacology Lab	-	-	3	2
		Total	20	5	9	24




PRINCIPAL
VIJAYA INSTITUTE
PHARMACEUTICAL SCIENCES FOR WOMEN
ENIKEPADU VIJAYAWADA 52' 108

IV Year I Semester

S. No.	Sub Code	Subject	L	T	P	Credits
1	PHR16411	Pharmaceutical Analysis -II	4	1	-	4
2	PHR16412	Biopharmaceutics & Pharmacokinetics	4	1	-	4
3	PHR16413	Chemistry of Natural Products	4	1	-	4
4	PHR16414	Hospital & Community Pharmacy	4	1	-	3
5	PHR16415	Pharmaceutical Jurisprudence	4	1	-	3
6	PHR16416	Pharmaceutical Analysis – II Lab	-	-	3	2
7	PHR16417	Biopharmaceutics & Pharmacokinetics Lab	-	-	3	2
8	PHR16418	Chemistry of Natural Products Lab	-	-	3	2
9		Project Commencement	-	-	-	-
		Total	20	5	9	24

IV Year II Semester

S. No.	Sub Code	Subject	L	T	P	Credits
1	PHR16421	Bioassays & Toxicology	4	1	-	3
2	PHR16422	Clinical Pharmacy, Therapeutics & Pharmacovigilance	4	1	-	3
3	PHR16423	Controlled release & Novel Drug Delivery Systems	4	1	-	4
4	PHR16424	Quality Assurance, GMP, GLP	4	1	-	2
5	PHR16425	Bioassays & Toxicology Lab	-	-	3	2
6	PHR16426	Seminar on selected topic	-	-	-	2
7	PHR16427	Project Work *	-	-	-	8
8.	PHR16428	Comprehensive Viva voce	-	-	-	4
		Total	16	4	3	28

*Project work evaluation includes dissertation, seminar and viva voce




PRINCIPAL
VIJAYA INSTITUTE
 PHARMACEUTICAL SCIENCES FOR WOMEN
 ENIKEPADU VIJAYAWADA 52nd 108



VIJAYA INSTITUTE OF PHARMACEUTICAL SCIENCES FOR WOMEN

Enikepadu, Vijayawada-521108. Andhra Pradesh, India.
vijayapharmacyfw@gmail.com
Phone: +91 741 656 0999

SYLLABUS | R13 M.PHARMACY



PRINCIPAL

VIJAYA INSTITUTE
PHARMACEUTICAL SCIENCES FOR WOMEN
ENIKEPADU VIJAYAWADA 521 108

COURSE STRUCTURE AND DETAILED SYLLABUS

For
M.PHARMACY
Pharmaceutics




PRINCIPAL
VIJAYA INSTITUTE
PHARMACEUTICAL SCIENCES FOR WOMEN
ENIKEPADU VIJAYAWADA 521 108

JAWAHARLAL NEHRU TECHNOLOGY UNIVERSITY KAKINADA
KAKINADA - 533 003, Andhra Pradesh, India

M.PHARMACY PHARMACEUTICS

I SEMESTER

Paper 101	- Modern Analytical Techniques
Paper 102	- Research Methodologies
Paper 103	- Biopharmaceutics & Pharmacokinetics
Paper 104	- Advanced Physical Pharmaceutics
Paper 105	- Biopharmaceutics & Pharmacokinetics - LAB
Paper 106	- Advanced Physical Pharmaceutics - LAB
Paper 107	- Seminar

II SEMESTER

Paper 201	- Advanced Pharmaceutical Technology
Paper 202	- Advances In Drug Delivery Systems
Paper 203	- Industrial Pharmacy
Paper 204	- Drug Regulatory Affairs
Paper 205	- Advanced Pharmaceutical Technology - LAB
Paper 206	- Advances In Drug Delivery Systems - LAB
Paper 207	- Seminar

III SEMESTER

Paper 301	- Seminar-I
Paper 302	- Project Work - I

IV SEMESTER

Paper 401	- Seminar-II
Paper 402	- Project Work - II
Paper 403	- Comprehensive Viva Voce




PRINCIPAL
VIJAYA INSTITUTE
PHARMACEUTICAL SCIENCES FOR WOMEN
ENIKEPADU VIJAYAWADA 52nd 10R

SCHEME OF INSTRUCTIONS AND EVALUATION PHARMACEUTICAL ANALYSIS AND QUALITY ASSURANCE

I SEMESTER							
Paper No.	Title of the Paper	Evaluation / Marks				Total	Credits
		Theory		Practical			
		Mid Examination	University End Examination	Mid Examination	University End Examination		
Paper - 101	Modern Analytical Techniques	40	60			100	3
Paper - 102	Research Methodologies	40	60			100	3
Paper - 103	Biopharmaceutics & Pharmacokinetics	40	60			100	3
Paper - 104	Advanced Physical Pharmaceutics	40	60			100	3
Paper - 105	Biopharmaceutics & Pharmacokinetics			40	60	100	2
Paper - 106	Advanced Physical Pharmaceutics			40	60	100	2
Paper - 107	Seminal					100	2
	Total					700	18




 PRINCIPAL

VIJAYA INSTITUTE
 PHARMACEUTICAL SCIENCES FOR WOMEN
 ENIKEPADU VIJAYAWADA 521 700

II SEMESTER

Paper No.	Title of the Paper	Evaluation / Marks				Total	Credits
		Theory		Practical			
		Mid Examination	University End Examination	Mid Examination	University End Examination		
Paper - 201	Advanced Pharmaceutical Technology-I	40	60			100	3
Paper - 202	Advanced in Drug Delivery Systemts	40	60			100	3
Paper - 203	Advanced Pharmaceutical Technology-II	40	60			100	3
Paper - 204	Drug Regultory Affairs	40	60			100	3
Paper - 205	Advanced Pharmaceutical Technology			40	60	100	2
Paper - 206	Advanced in Drug Delivery Systemts			40	60	100	2
Paper - 207	Seminal					100	2
	Total					700	18




 PRINCIPAL
VIJAYA INSTITUTE

PHARMACEUTICAL SCIENCES FOR WOMEN
 ENIKEPADU VIJAYAWADA 521 108

III SEMESTER

Paper No.		Marks	Credits
Paper - 301	Seminar - I	50	2
Paper - 302	Project work - I	100	14
	Total	150	16

IV SEMESTER

Paper No.		Marks	Credits
Paper - 401	Seminar - II	50	2
Paper - 402	Project work - II	100	14
Paper - 403	Comprehensive Viva Voce	100	4
	Total	250	20
Grand Total (Four Semesters)		1800	72




 PRINCIPAL
VIJAYA INSTITUTE
 PHARMACEUTICAL SCIENCES FOR WOMEN
 ENIKEPADU VIJAYAWADA 521 10R

COURSE STRUCTURE AND DETAILED SYLLABUS

For

M.PHARMACY

**PHARMACEUTICAL ANALYSIS AND QUALITY
ASSURANCE**




PRINCIPAL
VIJAYA INSTITUTE
PHARMACEUTICAL SCIENCES FOR WOMEN
ENIKEPADU VIJAYAWADA 521 108

JAWAHARLAL NEHRU TECHNOLOGY UNIVERSITY KAKINADA

KAKINADA - 533 003, Andhra Pradesh, India

M.PHARMACY

PHARMACEUTICAL ANALYSIS AND QUALITY ASSURANCE

I SEMESTER

- Paper 101 - Modern Analytical Techniques
- Paper 102 - Research Methodologies
- Paper 103 - Advanced Pharmaceutical Analysis - I
- Paper 104 - Chromatographic and Other Special techniques
- Paper 105 - Advanced Pharmaceutical Analysis-I - LAB
- Paper 106 - Chromatographic and Other Special techniques - LAB
- Paper 107 - Seminar

II SEMESTER

- Paper 201 - Advanced Pharmaceutical Analysis - II
- Paper 202 - Phytopharmaceutical and Biological Analysis
- Paper 203 - Quality Assurance of Pharmaceuticals – I
- Paper 204 - Drug Regulatory Affairs
- Paper 205 - Advanced Pharmaceutical Analysis - II - LAB
- Paper 206 - Phytopharmaceutical and Biological Analysis - LAB
- Paper 207 - Seminar

III SEMESTER

- Paper 301 - Seminar-I
- Paper 302 - Project Work

IV SEMESTER

- Paper 401 - Seminar-II
- Paper 402 - Project Work – II





PRINCIPAL
VIJAYA INSTITUTE
PHARMACEUTICAL SCIENCES FOR WOMEN
ENIKEPADU VIJAYAWADA 521 104

SCHEME OF INSTRUCTIONS AND EVALUATION PHARMACEUTICAL ANALYSIS AND QUALITY ASSURANCE



I SEMESTER							
Paper No.	Title of the Paper	Evaluation / Marks				Total	Credits
		Theory		Practical			
		Mid Examination	University End Examination	Mid Examination	University End Examination		
Paper - 101	Modern Analytics Techniques	40	60			100	3
Paper - 102	Research Methodologies	40	60			100	3
Paper - 101	Advanced Pharmaceutical Analysis	40	60			100	3
Paper - 102	Chromatographic and other special Techniques	40	60			100	3
Paper - 104	Advanced Pharmaceutical Analysis I Practical			40	60	100	3
Paper - 105	Chromatographic and other special Techniques I Practical			40	60	100	3
Paper - 106	Seminal					100	2
	Total					700	18




 PRINCIPAL
 VIJAYA INSTITUTE
 PHARMACEUTICAL SCIENCES FOR WOMEN
 ENIKEPADU VIJAYAWADA 521 108

II SEMESTER

Paper No.	Title of the Paper	Evaluation / Marks				Total	Credits
		Theory		Practical			
		Mid Examination	University End Examination	Mid Examination	University End Examination		
Paper - 201	Advanced Pharmaceutical Analysis-II	40	60			100	3
Paper - 202	Pharmaceutical and Biological Analysis	40	60			100	3
Paper - 203	Quality Assurance of Pharmaceutical	40	60			100	3
Paper - 204	Drug Regulatory Affairs	40	60			100	3
Paper - 205	Advanced Pharmaceutical Analysis-II Practical			40	60	100	3
Paper - 205	Phytopharmaceutical and Biological Analysis Practical			40	60	100	3
Paper - 206	Seminal					100	2
	Total					700	18



PRINCIPAL
VIJAYA INSTITUTE
PHARMACEUTICAL SCIENCES FOR WOMEN




 PRINCIPAL
VIJAYA INSTITUTE
 PHARMACEUTICAL SCIENCES FOR WOMEN
 ENIKEPADU VIJAYAWADA 521 108

III SEMESTER

Paper No.		Marks	Credits
Paper - 301	Seminar - I	50	2
Paper - 302	Project work - I	100	14
	Total	150	16

IV SEMESTER

Paper No.		Marks	Credits
Paper - 401	Seminar - II	50	2
Paper - 402	Project work - II	100	14
Paper - 403	Comprehensive Viva Voce	100	4
	Total	250	20
Grand Total (Four Semesters)		1800	72




 PRINCIPAL
VIJAYA INSTITUTE
 PHARMACEUTICAL SCIENCES FOR WOMEN
 ENIKEPADU VIJAYAWADA 521 108

COURSE STRUCTURE AND DETAILED SYLLABUS

**For
M.PHARMACY
PHARMACOLOGY**




PRINCIPAL
VIJAYA INSTITUTE
PHARMACEUTICAL SCIENCES FOR WOMEN
ENIKEPADU VIJAYAWADA 52nd 10th

JAWAHARLAL NEHRU TECHNOLOGY UNIVERSITY KAKINADA

KAKINADA - 533 003, Andhra Pradesh, India

SYLLABUS for M.PHARMACY

PHARMACOLOGY

I SEMESTER

- Paper 101 - Modern Analytical Techniques
Paper 102 - Research Methodologies
Paper 103 - Systemic Pharmacology
Paper 104 - Pharmacokinetics and Drug Metabolism
Paper 105 - Systemic Pharmacology – LAB
Paper 106 - Pharmacokinetics and Drug Metabolism – LAB
Paper 107 - Seminar

II SEMESTER

- Paper 201 - Advanced Pharmacology
Paper 202 - Pathophysiology and Pharmacotherapeutics
Paper 203 - Bioassays & Pharmacological Screening Methods
Paper 204 - Drug Regulatory Affairs
Paper 205 - Pathophysiology and Pharmacotherapeutics - LAB
Paper 206 - Bioassays & Pharmacological Screening Methods - LAB
Paper 207 - Seminar

III SEMESTER

- Paper 301 - Seminar-I
Paper 302 - Project Work – I

IV SEMESTER

- Paper 401 - Seminar-II
Paper 402 - Project Work – II
Paper 403 - Comprehensive Viva Voce




PRINCIPAL
VIJAYA INSTITUTE
PHARMACEUTICAL SCIENCES FOR WOMEN
ENIKEPADU VIJAYAWADA 521 104

SCHEME OF INSTRUCTIONS AND EVALUATION PHARMACOLOGY

I SEMESTER							
Paper No.	Title of the Paper	Evaluation / Marks				Total	Credits
		Theory		Practical			
		Mid Examination	University End Examination	Mid Examination	University End Examination		
Paper - 101	Modern Analytical Techniques	40	60			100	3
Paper - 102	Research Methodologies	40	60			100	3
Paper - 103	Systemic Pharmacology	40	60			100	3
Paper - 104	Pharmacokinetics and drug Metabolism	40	60			100	3
Paper - 105	Systemic Pharmacology- Lab			40	60	100	2
Paper - 106	Pharmacokinetics and drug Metabolism- Lab			40	60	100	2
Paper - 107	Seminar					100	2
	Total					700	18





 PRINCIPAL
 VIJAYA INSTITUTE
 PHARMACEUTICAL SCIENCES FOR WOMEN
 ENIKEPADU VIJAYAWADA

52' 10"


II SEMESTER

Paper No.	Title of the Paper	Evaluation / Marks				Total	Credits
		Theory		Practical			
		Mid Examination	University End Examination	Mid Examination	University End Examination		
Paper - 201	Advanced Pharmacology	40	60			100	3
Paper - 202	Pathophysiology Pharmacotherapeutics	40	60			100	3
Paper - 203	Bioassays and Pharmacological Screening Methods	40	60			100	3
Paper - 204	Drug Regulatory Affairs	40	60			100	3
Paper - 205	Pathophysiology Pharmacotherapeutics - Lab			40	60	100	2
Paper - 206	Bioassays and Pharmacological Screening Methods - Lab			40	60	100	2
Paper - 207	Seminar					100	2
	Total					700	18



PRINCIPAL
VIJAYA INSTITUTE
PHARMACEUTICAL SCIENCES FOR WOMEN
ENIKEPADU VIJAYAWADA 521 106




 PRINCIPAL
VIJAYA INSTITUTE
 PHARMACEUTICAL SCIENCES FOR WOMEN
 ENIKEPADU VIJAYAWADA 521 106

III SEMESTER

Paper No.		Marks	Credits
Paper - 301	Seminar - I	50	2
Paper - 302	Project work - I	100	14
	Total	150	16

IV SEMESTER

Paper No.		Marks	Credits
Paper - 401	Seminar - II	50	2
Paper - 402	Project work - II	100	14
Paper - 403	Comprehensive Viva Voce	100	4
	Total	250	20
Grand Total (Four Semesters)		1800	72

***** Credits for III & IV Seminar (Research & Seminar) = 40**




 PRINCIPAL
VIJAYA INSTITUTE
 PHARMACEUTICAL SCIENCES FOR WOMEN
 ENIKEPADU VIJAYAWADA 52nd 10th



VIJAYA INSTITUTE OF PHARMACEUTICAL SCIENCES FOR WOMEN

SYLLABUS | R08
PHARM D




PRINCIPAL

VIJAYA INSTITUTE
PHARMACEUTICAL SCIENCES FOR WOMEN
ENIKEPADU VIJAYAWADA 52nd 10th



भारत का राजपत्र The Gazette of India

साप्ताहिक/WEEKLY

प्राधिकार से प्रकाशित
PUBLISHED BY AUTHORITY

सं० 19] नई दिल्ली, शनिवार, मई 10—मई 16, 2008 (वैशाख 20, 1930)
No. 19] NEW DELHI, SATURDAY, MAY 10—MAY 16, 2008 (VAISAKHA 20, 1930)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके।
(Separate paging is given to this Part in order that it may be filed as a separate compilation)

भाग III—खण्ड 4

[PART III—SECTION 4]

[सांविधिक निकायों द्वारा जारी की गई विविध अधिसूचनाएं जिसमें कि आदेश, विज्ञापन और सूचनाएं सम्मिलित हैं]
[Miscellaneous Notifications including Notifications, Orders, Advertisements and Notices issued by Statutory Bodies]

भारतीय रिज़र्व बैंक

मुंबई-400001, दिनांक 9 अप्रैल 2008

संदर्भ : बैंपविवि. सं. आईबीडी.-14241/23.13.048/2007-08--भारतीय रिज़र्व बैंक अधिनियम, 1934 (1934 का 2) की धारा 42 की उप-धारा (6) के खण्ड (ग) के अनुसरण में भारतीय रिज़र्व बैंक इसके द्वारा निदेश देता है कि उक्त अधिनियम की दूसरी अनुसूची में निम्नलिखित परिवर्तन किये जाएं :--

“अरब बांग्लादेश बैंक लिमिटेड” शब्दों के स्थान पर “एबी बैंक लिमिटेड” शब्द होंगे।

आनन्द सिन्हा

कार्यपालक निदेशक



VIJAYA INSTITUTE

PHARMACEUTICAL SCIENCES FOR WOMEN

ENIKEPADU VIJAYAWADA 521 108

(1335)

[PUBLISHED IN THE GAZETTE OF INDIA, No.19, PART III, SECTION 4]

Ministry of Health and Family Welfare
(Pharmacy Council of India)

New Delhi, 10th May, 2008.

Pharm.D. Regulations 2008

Regulations framed under section 10 of the Pharmacy Act, 1948 (8 of 1948).

(As approved by the Government of India, Ministry of Health vide, letter No.V.13013/1/2007-PMS, dated the 13th March, 2008 and notified by the Pharmacy Council of India).

No.14-126/2007-PCI.— In exercise of the powers conferred by section 10 of the Pharmacy Act, 1948 (8 of 1948), the Pharmacy Council of India, with the approval of the Central Government, hereby makes the following regulations, namely:-

CHAPTER-I

1. Short title and commencement. – (1) These regulations may be called the Pharm.D. Regulations 2008.
(2) They shall come into force from the date of their publication in the official Gazette.
2. Pharm.D. shall consist of a certificate, having passed the course of study and examination as prescribed in these regulations, for the purpose of registration as a pharmacist to practice the profession under the Pharmacy Act, 1948.




PRINCIPAL
VIJAYA INSTITUTE
PHARMACEUTICAL SCIENCES FOR WOMEN
ENIKEPADU VIJAYAWADA 52nd 10th

CHAPTER-II

3. Duration of the course. –

- a) Pharm.D: The duration of the course shall be six academic years (five years of study and one year of internship or residency) full time with each academic year spread over a period of not less than two hundred working days. The period of six years duration is divided into two phases –

Phase I – consisting of First, Second, Third, Fourth and Fifth academic year.

Phase II – consisting of internship or residency training during sixth year involving posting in speciality units. It is a phase of training wherein a student is exposed to actual pharmacy practice or clinical pharmacy services and acquires skill under supervision so that he or she may become capable of functioning independently.

- b) Pharm.D. (Post Baccalaureate): The duration of the course shall be for three academic years (two years of study and one year internship or residency) full time with each academic year spread over a period of not less than two hundred working days. The period of three years duration is divided into two phases –

Phase I – consisting of First and Second academic year.

Phase II – consisting of Internship or residency training during third year involving posting in speciality units. It is a phase of training wherein a student is exposed to actual pharmacy practice or clinical pharmacy services, and acquires skill under supervision so that he or she may become capable of functioning independently.

4. Minimum qualification for admission to. –

- a) Pharm.D. Part-I Course – A pass in any of the following examinations -

(1) 10+2 examination with Physics and Chemistry as compulsory subjects along with one of the following subjects:

Mathematics or Biology.

(2) A pass in D.Pharm course from an institution approved by the Pharmacy Council of India under section 12 of the Pharmacy Act.

(3) Any other qualification approved by the Pharmacy Council of India as equivalent to any of the above examinations.

Provided that a student should complete the age of 17 years on or before 31st December of the year of admission to the course.

Provided that there shall be reservation of seats for the students belonging to the Scheduled Castes, Scheduled Tribes and other Backward Classes in accordance with the instructions issued by the Central Government/State Government/Union Territory Administration as the case may be from time to time.




PRINCIPAL
VIJAYA INSTITUTE
 PHARMACEUTICAL SCIENCES FOR WOMEN
 ENIKEPADU VIJAYAWADA 52nd 10R

b) Pharm.D. (Post Baccalaureate) Course -

A pass in B.Pharm from an institution approved by the Pharmacy Council of India under section 12 of the Pharmacy Act:

Provided that there shall be reservation of seats for the students belonging to the Scheduled Castes, Scheduled Tribes and other Backward Classes in accordance with the instructions issued by the Central Government/State Government/Union Territory Administration as the case may be from time to time.

5. Number of admissions in the above said programmes shall be as prescribed by the Pharmacy Council of India from time to time and presently be restricted as below –
 - i) Pharm.D. Programme – 30 students.
 - ii) Pharm.D. (Post Baccalaureate) Programme – 10 students.
6. Institutions running B.Pharm programme approved under section 12 of the Pharmacy Act, will only be permitted to run Pharm.D. programme. Pharm.D. (Post Baccalaureate) programme will be permitted only in those institutions which are permitted to run Pharm.D. programme.
7. Course of study. – The course of study for Pharm.D. shall include the subjects as given in the Tables below. The number of hours in a week, devoted to each subject for its teaching in theory, practical and tutorial shall not be less than that noted against it in columns (3), (4) and (5) below.

T A B L E S

First Year :

S.No.	Name of Subject	No. of hours of Theory	No. of hours of Practical	No. of hours of Tutorial
(1)	(2)	(3)	(4)	(5)
1.1	Human Anatomy and Physiology	3	3	1
1.2	Pharmaceutics	2	3	1
1.3	Medicinal Biochemistry	3	3	1
1.4	Pharmaceutical Organic Chemistry	3	3	1
1.5	Pharmaceutical Inorganic Chemistry	2	3	1
1.6	Remedial Mathematics/ Biology	3	3*	1
	Total hours	16	18	6 = (40)

* For Biology




 PRINCIPAL
VIJAYA INSTITUTE
 PHARMACEUTICAL SCIENCES FOR WOMEN
 ENIKEPADU VIJAYAWADA 52nd 10th

Second Year:

S.No	Name of Subject	No. of hours of Theory	No. of hours of Practical	No. of hours of Tutorial
(1)	(2)	(3)	(4)	(5)
2.1	Pathophysiology	3	-	1
2.2	Pharmaceutical Microbiology	3	3	1
2.3	Pharmacognosy & Phytopharmaceuticals	3	3	1
2.4	Pharmacology-I	3	-	1
2.5	Community Pharmacy	2	-	1
2.6	Pharmacotherapeutics-I	3	3	1
	Total Hours	17	9	6 = 32

Third Year:

S.No.	Name of Subject	No. of hours of Theory	No. of hours of Practical	No. of hours 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




 PRINCIPAL
VIJAYA INSTITUTE
 PHARMACEUTICAL SCIENCES FOR WOMEN
 ENIKEPADU VIJAYAWADA 52° 108

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
	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 *	-	-	1
5.5	Project work (Six Months)	-	20	-
	Total hours	8	20	4 = 32

* Attending ward rounds on daily basis.




 PRINCIPAL
VIJAYA INSTITUTE
 PHARMACEUTICAL SCIENCES FOR WOMEN
 ENIKEPADU VIJAYAWADA 52nd 108

Sixth Year:

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 India.

(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-teaching staff, etc., as specified in Appendix-B to these regulations.

10. Examination. – (1) Every year there shall be an examination to examine the students.

(2) Each examination may be held twice every year. The first examination in a year shall be the annual examination and the second examination shall be supplementary examination.

(3) The examinations shall be of written and practical (including oral nature) carrying maximum marks for each part of a subject as indicated in Tables below :

TABLES**First Year examination :**

S.No.	Name of Subject	Maximum marks for Theory			Maximum marks for Practicals		
		Examination	Sessional	Total	Examination	Sessional	Total
1.1	Human Anatomy and Physiology	70	30	100	70	30	100
1.2	Pharmaceutics	70	30	100	70	30	100
1.3	Medicinal Biochemistry	70	30	100	70	30	100
1.4	Pharmaceutical Organic Chemistry	70	30	100	70	30	100
1.5	Pharmaceutical Inorganic Chemistry	70	30	100	70	30	100
1.6	Remedial Mathematics/Biology	70	30	100	70*	30*	100*
				600			600 = 1200

* for Biology.




PRINCIPAL
VIJAYA INSTITUTE
 PHARMACEUTICAL SCIENCES FOR WOMEN
 ENIKEPADU VIJAYAWADA 52nd 10th

Second Year examination :

S.No.	Name of Subject	Maximum marks for Theory			Maximum marks for Practicals		
		Examination	Sessional	Total	Examination	Sessional	Total
2.1	Pathophysiology	70	30	100	-	-	-
2.2	Pharmaceutical Microbiology	70	30	100	70	30	100
2.3	Pharmacognosy & Phytopharmaceuticals	70	30	100	70	30	100
2.4	Pharmacology-I	70	30	100	-	-	-
2.5	Community Pharmacy	70	30	100	-	-	-
2.6	Pharmacotherapeutics-I	70	30	100	70	30	100
				600			300 = 900

Third Year examination :

S.No.	Name of Subject	Maximum marks for Theory			Maximum marks for Practicals		
		Examination	Sessional	Total	Examination	Sessional	Total
3.1	Pharmacology-II	70	30	100	70	30	100
3.2	Pharmaceutical Analysis	70	30	100	70	30	100
3.3	Pharmacotherapeutics-II	70	30	100	70	30	100
3.4	Pharmaceutical Jurisprudence	70	30	100	-	-	-
3.5	Medicinal Chemistry	70	30	100	70	30	100
3.6	Pharmaceutical Formulations	70	30	100	70	30	100
				600			500 = 1100

Fourth Year examination :

S.No.	Name of Subject	Maximum marks for Theory			Maximum marks for Practicals		
		Examination	Sessional	Total	Examination	Sessional	Total
4.1	Pharmacotherapeutics-III	70	30	100	70	30	100
4.2	Hospital Pharmacy	70	30	100	70	30	100
4.3	Clinical Pharmacy	70	30	100	70	30	100
4.4	Biostatistics & Research Methodology	70	30	100	-	-	-
4.5	Biopharmaceutics & Pharmacokinetics	70	30	100	70	30	100
4.6	Clinical Toxicology	70	30	100	-	-	-
				600			400 = 1000




 PRINCIPAL
VIJAYA INSTITUTE
 PHARMACEUTICAL SCIENCES FOR WOMEN
 ENIKEPADU VIJAYAWADA 521 108

Fifth Year examination :

S.No.	Name of Subject	Maximum marks for Theory			Maximum marks for Practicals		
		Examination	Sessional	Total	Examination	Sessional	Total
5.1	Clinical Research	70	30	100	-	-	-
5.2	Pharmacoepidemiology and Pharmacoeconomics	70	30	100	-	-	-
5.3	Clinical Pharmacokinetics & Pharmacotherapeutic Drug Monitoring	70	30	100	-	-	-
5.4	Clerkship *	-	-	-	70	30	100
5.5	Project work (Six Months)	-	-	-	100**	-	100
				300			200 = 500

* Attending ward rounds on daily basis.

** 30 marks – viva-voce (oral)

70 marks – Thesis work

11. Eligibility for appearing Examination.— Only such students who produce certificate from the Head of the Institution in which he or she has undergone the Pharm.D. or as the case may be, the Pharm.D. (Post Baccalaureate) course, in proof of his or her having regularly and satisfactorily undergone the course of study by attending not less than 80% of the classes held both in theory and in practical separately in each subject shall be eligible for appearing at examination.

12. Mode of examinations.— (1) Theory examination shall be of three hours and practical examination shall be of four hours duration.

(2) A Student who fails in theory or practical examination of a subject shall re-appear both in theory and practical of the same subject.

(3) Practical examination shall also consist of a viva –voce (Oral) examination.

(4) Clerkship examination – Oral examination shall be conducted after the completion of clerkship of students. An external and an internal examiner will evaluate the student. Students may be asked to present the allotted medical cases followed by discussion. Students' capabilities in delivering clinical pharmacy services, pharmaceutical care planning and knowledge of therapeutics shall be assessed.

13. Award of sessional marks and maintenance of records.— (1) A regular record of both theory and practical class work and examinations conducted in an institution imparting training for Pharm.D. or as the case may be, Pharm.D. (Post Baccalaureate) course, shall be maintained for each student in the institution and 30 marks for each theory and 30 marks for each practical subject shall be allotted as sessional.

(2) There shall be at least two periodic sessional examinations during each academic year and the highest aggregate of any two performances shall form the basis of calculating sessional marks.

(3) The sessional marks in practicals shall be allotted on the following basis:-

(i) Actual performance in the sessional examination (20 marks);

(ii) Day to day assessment in the practical class work, viva-voce record maintenance, etc. (10 marks).




PRINCIPAL
VIJAYA INSTITUTE
PHARMACEUTICAL SCIENCES FOR WOMEN
ENIKEPADU VIJAYAWADA 52nd 10th

14. Minimum marks for passing examination.— A student shall not be declared to have passed examination unless he or she secures at least 50% marks in each of the subjects separately in the theory examinations, including sessional marks and at least 50% marks in each of the practical examinations including sessional marks. The students securing 60% marks or above in aggregate in all subjects in a single attempt at the Pharm.D. or as the case may be, Pharm. D. (Post Baccalaureate) course examination shall be declared to have passed in first class. Students securing 75% marks or above in any subject or subjects shall be declared to have passed with distinction in the subject or those subjects provided he or she passes in all the subjects in a single attempt.
15. Eligibility for promotion to next year.— All students who have appeared for all the subjects and passed the first year annual examination are eligible for promotion to the second year and, so on. However, failure in more than two subjects shall debar him or her from promotion to the next year classes.
16. Internship.— (1) Internship is a phase of training wherein a student is expected to conduct actual practice of pharmacy and health care and acquires skills under the supervision so that he or she may become capable of functioning independently.
- (2) Every student has to undergo one year internship as per Appendix-C to these regulations.
17. Approval of examinations.— Examinations mentioned in regulations 10 to 12 and 14 shall be held by the examining authority hereinafter referred to as the university, which shall be approved by the Pharmacy Council of India under sub-section (2) of section 12 of the Pharmacy Act, 1948. Such approval shall be granted only if the examining authority concerned fulfills the conditions as specified in Appendix-D to these regulations.
18. Certificate of passing examination.— Every student who has passed the examinations for the Pharm.D. (Doctor of Pharmacy) or Pharm.D. (Post Baccalaureate) (Doctor of Pharmacy) as the case may be, shall be granted a certificate by the examining authority.




PRINCIPAL
VIJAYA INSTITUTE
PHARMACEUTICAL SCIENCES FOR WOMEN
ENIKEPADU VIJAYAWADA 52' 108

CHAPTER-III

Practical training

19. Hospital posting.— Every student shall be posted in constituent hospital for a period of not less than fifty hours to be covered in not less than 200 working days in each of second, third & fourth year course. Each student shall submit report duly certified by the preceptor and duly attested by the Head of the Department or Institution as prescribed. In the fifth year, every student shall spend half a day in the morning hours attending ward rounds on daily basis as a part of clerkship. Theory teaching may be scheduled in the afternoon.
20. Project work.— (1) To allow the student to develop data collection and reporting skills in the area of community, hospital and clinical pharmacy, a project work shall be carried out under the supervision of a teacher. The project topic must be approved by the Head of the Department or Head of the Institution. The same shall be announced to students within one month of commencement of the fifth year classes. Project work shall be presented in a written report and as a seminar at the end of the year. External and the internal examiners shall do the assessment of the project work.
- (2) Project work shall comprise of objectives of the work, methodology, results, discussions and conclusions.
21. Objectives of project work.— The main objectives of the project work is to—
- (i) show the evidence of having made accurate description of published work of others and of having recorded the findings in an impartial manner; and
 - (ii) develop the students in data collection, analysis and reporting and interpretation skills.
22. Methodology.— To complete the project work following methodology shall be adopted, namely:—
- (i) students shall work in groups of not less than *two* and not more than *four* under an authorised teacher;
 - (ii) project topic shall be approved by the Head of the Department or Head of the Institution;
 - (iii) project work chosen shall be related to the pharmacy practice in community, hospital and clinical setup. It shall be patient and treatment (Medicine) oriented, like drug utilisation reviews, pharmacoepidemiology, pharmacovigilance or pharmacoconomics;
 - (iv) project work shall be approved by the institutional ethics committee;
 - (v) student shall present at least three seminars, one in the beginning, one at middle and one at the end of the project work; and
 - (vi) two-page write-up of the project indicating title, objectives, methodology anticipated benefits and references shall be submitted to the Head of the Department or Head of the Institution.




 PRINCIPAL
VIJAYA INSTITUTE
 PHARMACEUTICAL SCIENCES FOR WOMEN
 ENIKEPADU VIJAYAWADA 52nd 10th

23. Reporting .— (1) Student working on the project shall submit jointly to the Head of the Department or Head of the Institution a project report of about 40-50 pages. Project report should include a certificate issued by the authorised teacher, Head of the Department as well as by the Head of the Institution

(2) Project report shall be computer typed in double space using Times Roman font on A4 paper. The title shall be in bold with font size 18, sub-titles in bold with font size 14 and the text with font size 12. The cover page of the project report shall contain details about the name of the student and the name of the authorised teacher with font size 14.

(3) Submission of the project report shall be done at least one month prior to the commencement of annual or supplementary examination.

24. Evaluation.— The following methodology shall be adopted for evaluating the project work—

(i) Project work shall be evaluated by internal and external examiners.

(ii) Students shall be evaluated in groups for four hours (i.e., about half an hour for a group of four students).

(iii) Three seminars presented by students shall be evaluated for twenty marks each and the average of best two shall be forwarded to the university with marks of other subjects.

(iv) Evaluation shall be done on the following items:

Marks

- a) Write up of the seminar
- b) Presentation of work
- c) Communication skills
- d) Question and answer skills

(7.5)

(7.5)

(7.5)

(7.5)

Total

(30 marks)

(v) Final evaluation of project work shall be done on the following items:

Marks

- a) Write up of the seminar
- b) Presentation of work
- c) Communication skills
- d) Question and answer skills

(17.5)

(17.5)

(17.5)

(17.5)

Total

(70 marks)

Explanation.— For the purposes of differentiation in the evaluation in case of topic being the same for the group of students, the same shall be done based on item numbers b, c and d mentioned above.




 PRINCIPAL
VIJAYA INSTITUTE
 PHARMACEUTICAL SCIENCES FOR WOMEN
 ENIKEPADU VIJAYAWADA 52nd 10th

SCANNED IMAGES OF COLLEGE CALENDAR
(2016 – 17)

**Vijaya Institute of Pharmaceutical Sciences for Women
Enikepadu, Vijayawada – 521108.**

I Semester Academic Calendar for the year 2016-17

Commencement of Class Work	IV B. Pharm	III B. Pharm	II B. Pharm	I B. Pharm
	27.06.2016	13.06.2016	13.06.2016	27.06.2016
I Unit Instruction	27.06.2016 – 20.08.2016	13.06.2016 – 06.08.2016	13.06.2016 – 06.08.2016	04.07.2016 – 27.08.2016
I Mid Exams	22.08.2016 – 27.08.2016	08.08.2016 – 13.08.2016	08.08.2016 – 13.08.2016	29.08.2016 – 03.09.2016
II Unit Instruction	29.08.2016 – 22.10.2016	15.08.2016 – 08.10.2016	16.08.2016 – 08.10.2016	05.09.2016 – 29.10.2016
Internal Lab Exams	17.10.2016 – 22.10.2016	26.09.2016 – 01.10.2016	26.09.2016 – 01.10.2016	24.10.2016 – 29.10.2016
II Mid Exams	24.10.2016 – 29.10.2016	03.10.2016 – 08.10.2016	03.10.2016 – 08.10.2016	31.10.2016 – 05.11.2016
External Lab Exams	31.10.2016 – 05.11.2016	17.10.2016 – 22.10.2016	17.10.2016 – 22.10.2016	07.11.2016 – 12.11.2016
Sem End Exams	07.11.2016 – 19.11.2016	24.10.2016 – 05.11.2016	24.10.2016 – 05.11.2016	14.11.2016 – 26.11.2016
II Sem Commencement	05.12.2016	21.11.2016	21.11.2016	12.12.2016

II Semester Academic Calendar for the year 2016-17

Commencement of Class Work	IV B. Pharm	III B. Pharm	II B. Pharm	I B. Pharm
	05.12.2016	21.11.2016	21.11.2016	12.12.2016
I Unit Instruction	05.12.2016 – 28.01.2017	21.11.2016 – 14.01.2017	21.11.2016 – 14.01.2017	12.12.2016 – 04.02.2017
I Mid Exams	30.07.2017-04.02.2017	16.01.2017 – 21.01.2017	16.01.2017 – 21.01.2017	06.02.2017 – 11.02.2017
II Unit Instruction	06.02.2017 – 01.04.2017	23.01.2017 – 18.03.2017	23.01.2017 – 18.03.2017	13.02.2017 – 08.04.2017
Internal Lab Exams	27.03.2017 – 01.04.2017	13.03.2017 – 18.03.2017	13.03.2017 – 18.03.2017	03.04.2017 – 08.04.2017
II Mid Exams	03.04.2017 – 08.04.2017	20.03.2017 – 25.03.2017	20.03.2017 – 25.03.2017	10.04.2017 – 15.04.2017
External Lab Exams	19.04.2017 – 15.04.2017	27.03.2017 – 01.04.2017	27.03.2017 – 01.04.2017	17.04.2017 – 22.04.2017
Sem End Exams	17.04.2017 – 29.04.2017	03.04.2017 – 15.04.2017	03.04.2017 – 15.04.2017	24.04.2017 – 06.05.2017
Commencement of Next Academic Year	-	19.06.2017	12.06.2017	12.06.2017



VIJAYA INSTITUTE
PHARMACEUTICAL SCIENCES FOR WOMEN
ENIKEPADU VIJAYAWADA 521108

VIJAYA INSTITUTE
PHARMACEUTICAL SCIENCES FOR WOMEN

VIJAYA INSTITUTE OF PHARMACEUTICAL SCIENCES FOR WOMEN
Enikepadu, Vijayawada – 521108

I M.PHARM ACADEMIC CALENDAR FOR THE YEAR 2016-17

Commencement of Class Work	I SEMESTER	II SEMESTER
	29.07.2016	09.01.2017
I Unit Instruction	29.07.2016 - 08.10.2016	09.01.2017 – 04.03.2017
I Mid Exams	10.10.2016 - 15.10.2016	06.03.2017 – 11.03.2017
II Unit Instruction	17.10.2016 – 10.12.2016	13.03.2017 – 06.05.2017
Internal Lab Exams	11.12.2016 – 11.12.2016	07.05.2017 – 07.05.2017
II Mid Exams	12.12.2016 – 17.12.2016	08.05.2017 – 13.05.2017
External Lab Exams	19.12.2016 – 24.12.2016	15.05.2017 – 20.05.2017
Sem End Exams	26.12.2016 – 07.01.2017	22.05.2017 – 03.06.2017

II M.PHARM ACADEMIC CALENDAR FOR THE YEAR 2016-17

Commencement of Class Work	III SEMESTER	IV SEMESTER
	25.07.2016	26.12.2016
Project Work	25.07.2016 – 24.12.2016	
Seminar - I	24.12.2016	
Project Work		26.12.2016 – 27.05.2017
Seminar - II		27.05.2017
Thesis Submission		29.05.2017 - 19.08.2017




PRINCIPAL
PRINCIPAL
VIJAYA INSTITUTE
PHARMACEUTICAL SCIENCES FOR WOMEN
ENIKEPADU VIJAYAWADA 521 108

**Vijaya Institute of Pharmaceutical Sciences for Women
Enikepadu, Vijayawada – 521108.**

Academic Calendar for the year 2016-17

Commencement of Class Work	I Pharm D	II Pharm D
	29.08.2016	11.07.2016
I Unit Instruction	29.08.2016 – 19.11.2016	11.07.2016 – 01.10.2016
I Mid Exams	21.11.2016 – 26.11.2016	03.10.2016 – 08.10.2016
II Unit Instruction	28.11.2016 – 18.02.2017	10.10.2016 – 31.12.2016
II Mid Exams	20.02.2017 – 25.02.2017	02.01.2017 – 07.01.2017
III Unit Instruction	27.02.2017 – 20.05.2017	09.01.2017 – 01.04.2017
III Mid Exams	22.05.2017 – 27.05.2017	03.04.2017 – 08.04.2017
Internal Lab	22.05.2017 – 27.05.2017	03.04.2017 – 08.04.2017
External Lab	29.05.2017 – 10.06.2017	10.04.2017 – 22.04.2017
End Exams	12.06.2017 – 24.06.2017	24.04.2017 – 06.05.2017
Commencement of Next Academic Year.	10.07.2017	12.06.2017



PRINCIPAL
PRINCIPAL
VIJAYA INSTITUTE
PHARMACEUTICAL SCIENCES FOR WOMEN
ENIKEPADU VIJAYAWADA 52' 10R

PRINCIPAL
VIJAYA INSTITUTE
PHARMACEUTICAL SCIENCES FOR WOMEN
ENIKEPADU VIJAYAWADA 52' 10R