



Geethanjali

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## Geethanjali College of Pharmacy

Approved By AICTE, PCI New Delhi, Permanently Affiliated to JNTUH & Accredited by NBA (B. Pharmacy)  
Recognized Under UGC Section 2F & 12B of UGC Act, 1956, by DSIR-SIRO & HI/BI of MSME Certified by ISO 9001:2015  
Cheeryal (V), Keesara (M), Medchal-Malkajgiri District, Telangana State - 501 301.

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S. No.	List of Documents
1.	JNTUH, Hyderabad (Affiliating University) prescribed syllabus copies showing courses that include experimental learning through project work/field work/internship for the year 2016-17, 2017-18, 2018-19, 2019-20, and 2020-21.
2.	Minutes of the College Academic Committee meetings with approvals for courses that include experimental learning through project work/field work/internship for the year 2016-17, 2017-18, 2018-19, 2019-20, and 2020-21.

  
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Cheeryal(V), Keesara(M), Medchal. Dist. T.S. 501301.

Sponsored by : **TEJA EDUCATIONAL SOCIETY, HYDERABAD.**

Office : Sy. No. 33 & 34, Cheeryal (V), Keesara (M), Medchal-Malkajgiri (District), Telangana State - 501 301.

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# JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

## B. PHARMACY I YEAR COURSE STRUCTURE AND SYLLABUS

Effective from Academic Year 2017-18 Admitted Batch

### I Year I semester

S. No	Course Code	Subject	L	T	P	Credits
1	PS101	Human Anatomy and Physiology I	3	1	-	3
2	PS102	Pharmaceutical Analysis I	3	1	-	3
3	PS103	Pharmaceutics I	3	1	-	3
4	PS104	Pharmaceutical Inorganic Chemistry-I	3	1	-	3
5	HS105	Communication skills	2	-	-	2
6	BS106/BS107	Remedial Biology <sup>#</sup> / Remedial Mathematics <sup>§</sup>	2 <sup>#</sup> /3 <sup>§</sup>	-	-	2 <sup>#</sup> /3 <sup>§</sup>
7	PS108	Human Anatomy and Physiology-I lab	-	-	4	2
8	PS109	Pharmaceutical Analysis-I lab	-	-	4	2
9	PS110	Pharmaceutics I lab	-	-	4	2
10	PS111	Pharmaceutical Inorganic Chemistry-I lab	-	-	4	2
11	HS112	Communication skills lab	-	-	2	1
12	BS113	Remedial Biology lab	-	-	2	1
		<b>Total</b>	<b>16/17</b>	<b>4</b>	<b>20</b>	<b>26<sup>#</sup>/26<sup>§</sup></b>

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

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

### I Year II semester

S. No	Course Code	Subject	L	T	P	Credits
1	PS201	Human Anatomy and Physiology II	3	1	-	3
2	PS202	Pharmaceutical Organic Chemistry I	4	1	-	4
3	BS203	Biochemistry	3	1	-	3
4	BS204	Pathophysiology	3	1	-	3
5	CS205	Computer Applications in Pharmacy	3	-	-	3
6	PS206	Human Anatomy and Physiology II lab	-	-	4	2
7	PS207	Pharmaceutical Organic Chemistry I lab	-	-	4	2
8	BS208	Biochemistry lab	-	-	4	2
9	CS209	Computer Applications in Pharmacy lab	-	-	2	1
10	*MC200	NSS	-	-	-	-
		<b>Total</b>	<b>16</b>	<b>4</b>	<b>14</b>	<b>23</b>

\*MC - Mandatory Course - Satisfactory/ Unsatisfactory.

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**B. PHARMACY II YEAR SYLLABUS (R17)**

Effective from Academic Year 2017-18 Admitted Batch

**II YEAR I SEMESTER**

S. No	Course Code	Course Title	L	T	P	Credits
1	PS301	Pharmaceutical Organic Chemistry-II	3	1	0	4
2	PS302	Physical Pharmaceutics-I	3	1	0	4
3	BS303	Pharmaceutical Microbiology	3	1	0	4
4	PC304	Pharmaceutical Engineering	3	1	0	4
5	PS305	Pharmaceutical Organic Chemistry-II Lab	0	0	4	2
6	PS306	Physical Pharmaceutics-I Lab	0	0	4	2
7	BS307	Pharmaceutical Microbiology Lab	0	0	4	2
8	PC308	Pharmaceutical Engineering Lab	0	0	4	2
9	*MC300	NSO	0	0	0	0
		<b>Total Credits</b>	<b>12</b>	<b>04</b>	<b>17</b>	<b>24</b>

**II YEAR II SEMESTER**

S. No	Course Code	Course Title	L	T	P	Credits
1	PS401	Pharmaceutical Organic Chemistry-III	3	1	0	4
2	PC402	Medicinal Chemistry-I	3	1	0	4
3	PS403	Physical Pharmaceutics-II	3	1	0	4
4	PC404	Pharmacology-I	3	1	0	4
5	PC405	Pharmacognosy and Phytochemistry-I	3	1	0	4
6	PC406	Medicinal Chemistry-I Lab	0	0	4	2
7	PS407	Physical Pharmaceutics-II Lab	0	0	4	2
8	PC408	Pharmacology-I Lab	0	0	4	2
9	PC409	Pharmacognosy and Phytochemistry-I Lab	0	0	4	2
10	*MC400	Gender Sensitization Lab	1	0	0	0
		<b>Total Credits</b>	<b>16</b>	<b>05</b>	<b>16</b>	<b>28</b>

\*MC-Satisfactory/Dissatisfactory

  
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B.PHARM. III YEAR COURSE STRUCTURE & SYLLABUS (R16)

Applicable From 2016-17 Admitted Batch

III YEAR I SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	PS501	Pharmaceutical Microbiology	4	1	0	4
2	PS502	Pharmaceutical Technology - I	4	1	0	4
3	PS503	Pharmacology – I	4	1	0	4
4	PS504	Pharmacognosy – II	3	1	0	3
5		<b>Open Elective - II</b>	3	0	0	3
	PS505	Drug Regulatory Affairs				
	PS506	Active Pharmaceutical Ingredient Process Development				
	MS507	Entrepreneurship and Small Business Enterprises				
6	PS508	Pharmaceutical Microbiology Lab	0	0	3	2
7	PS509	Pharmaceutical Technology - I Lab	0	0	3	2
8	PS510	Pharmacology – I Lab	0	0	3	2
9	*MC500	Professional Ethics	3	0	0	0
		Total	21	4	9	24

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B.PHARM. III YEAR COURSE STRUCTURE & SYLLABUS (R16)

Applicable From 2016-17 Admitted Batch

III YEAR II SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	PS601 ✓	Medicinal Chemistry - I ✓	3	1	0	3
2	PS602 ✓	Pharmaceutical Technology - II ✓	3	1	0	3
3	PS603 ✓	Pharmacology - II ✓	4	1	0	4
4	PS604 ✓	Chemistry of Natural Products ✓	3	1	0	3
5	PS605 ✓	Open Elective - III ✓	3	0	0	3
	PS606	Generic Product Development				
	PS607	Drug Design and Discovery				
	PS607	Screening Methods in Pharmacology				
6	PS608 ✓	Medicinal Chemistry - I Lab	0	0	3	2
7	PS609 ✓	Pharmaceutical Technology - II Lab	0	0	3	2
8	PS610 ✓	Pharmacology - II Lab	0	0	3	2
9	HS611 ✓	Advanced English Communication skills Lab	0	0	3	2
		Total	16	04	12	24

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## III YEAR II SEMESTER

Code	Subject	T	C	P	Code	C
R60022	Medicinal Chemistry - I	3+1	3	3	(R60070)	2
R60023	Pharmaceutical Technology-II	3+1	3	3	(R60071)	2
R60024	Pharmacology II	4+1	4	3	(R60072)	2
R60025	Chemistry of Natural Products	4+1	4	3	(R60073)	2
R60026	Pharmaceutical Jurisprudence	4+1	4	-		-
R60069	Advanced Communication Skills Lab	-	-	3		2
	<b>Total</b>	<b>23</b>	<b>18</b>	<b>15</b>		<b>10</b>

## IV YEAR I SEMESTER

Code	Subject	T	C	P	Code	C
R70027	Pharmacognosy III	3+1	3	3	(R70075)	2
R70028	Biopharmaceutics and Pharmacokinetics	3+1	3	3	(R70076)	2
R70029	Pharmacology III	4+1	4	3	(R70077)	2
R70030	Medicinal Chemistry II	4+1	4	3	(R70078)	2
R70031	Pharmacy Administration	4+1	4	-		-
R70074	Seminar / Industrial Visit ✓	-	-	-		2
	<b>Total</b>	<b>23</b>	<b>18</b>	<b>12</b>		<b>10</b>

## IV YEAR II SEMESTER

Code	Subject	T	C	P	Code	C
R80032	Novel Drug Delivery Systems and Regulatory Affairs	3+1	3	3	(R80080)	2
R80033	Pharmaceutical Biotechnology	4+1	4	3	(R80081)	2
R80034	Pharmaceutical Analysis - II	3+1	3	3	(R80082)	2
R80035	Human Values and Professional Ethics	4	4	-		-
R80036	Clinical Pharmacy Practice	4+1	4	-		-
R80079	Project work** & Comprehensive Viva ✓	-	-	-		4
	<b>Total</b>	<b>22</b>	<b>18</b>	<b>9</b>		<b>10</b>

\*\* Suggested areas for project work.

1. Industrial Pharmacy
2. Clinical Pharmacy / Pharmacology
3. Pharmacognosy / Medical Chemistry
4. Pharmaceutical Analysis / Quality Assurance
5. Pharmaceutical Marketing

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

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

New Delhi, 10<sup>th</sup> 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 13<sup>th</sup> 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.

  
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**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 31<sup>st</sup> 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.

  
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## b) Pharm.D. (Post Bacculaureate) 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 Bacculaureate) 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 Bacculaureate) 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
	<b>Total hours</b>	<b>16</b>	<b>18</b>	<b>6 = (40)</b>

\* For Biology

  
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**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
	<b>Total Hours</b>	<b>17</b>	<b>9</b>	<b>6 = 32</b>

**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
	<b>Total hours</b>	<b>16</b>	<b>15</b>	<b>5 = 36</b>

  
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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
	<b>Total hours</b>	<b>15</b>	<b>12</b>	<b>6 = 33</b>

**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	-
	<b>Total hours</b>	<b>8</b>	<b>20</b>	<b>4 = 32</b>

\* Attending ward rounds on daily basis.

*Principal*  
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**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 :

**T A B L E S****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.

*Signature of*  
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**All the Examining Authorities conducting Pharm.D & Pharm.D  
(Post Bacallaureate) examinations**

**Sub: Inclusion of Pharmacotherapeutics I & II in IV<sup>th</sup> year for Pharm.D. (Post Bacallaureate) students.**


Sir

This has a reference to the subject cited above. In this connection, I am directed to state that the subject of Pharmacotherapeutics I & II be included in the course of study and examination of IV<sup>th</sup> year for Pharm.D. (Post Bacallaureate) students. A copy of the Pharmacotherapeutics syllabus I & II is enclosed herewith for your ready reference and also available on Council's website "www.pci.nic.in".

Yours faithfully

Sd/-

**(ARCHNA MUDGAL)**  
**Registrar-cum-Secretary**

  
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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 I & II (THEORY)

Theory: 3Hrs/week

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

1.	<b>Cardiovascular system:</b> Hypertension, Congestive cardiac failure, Angina Pectoris, Myocardial infarction, Hyperlipidaemias, Electrophysiology of heart and Arrhythmias	<b>Total = 13 hrs</b> <b>(3+2+2+2+2+2)</b>
2.	<b>Respiratory system :</b> Introduction to Pulmonary function test, Asthma, Chronic obstructive airways disease, Drug induced pulmonary diseases	<b>Total = 6</b> <b>(1+2+2+1)</b>
3.	<b>Endocrine system :</b> Diabetes, Thyroid diseases, Oral contraceptives, Hormone replacement therapy, Osteoporosis	<b>Total = 8</b> <b>(3+2+1+1+1)</b>
4.	<b>General prescribing guidelines for</b> a. Paediatric patients b. Geriatric patients c. Pregnancy and breast feeding	<b>Total = 4hrs</b> <b>(1+1+2)</b>
5.	<b>Ophthalmology:</b> Glaucoma, Conjunctivitis- viral & bacterial	<b>(3 hrs)</b>
6.	<b>Introduction to rational drug use</b> Definition, Role of pharmacist Essential drug concept Rational drug formulations	<b>Total = 2 hrs</b> <b>(1+1)</b>

  
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7.	<b>Infectious disease:</b> Guidelines for the rational use of antibiotics and surgical Prophylaxis, Tuberculosis, Meningitis, Respiratory tract infections, Gastroenteritis, Endocarditis, Septicemia, Urinary tract infections, Protozoal infection- Malaria, HIV & Opportunistic infections, Fungal infections, Viral infections, Gonorrhoea and Syphilis	<b>Total = 18 hrs.</b> (2+1+1+2+1+1+1+2+1+2+1+1+1+1)
8.	<b>Musculoskeletal disorders</b> Rheumatoid arthritis, Osteoarthritis, Gout, Spondylitis, Systemic lupus erythematosus.	<b>Total = 6hrs.</b> (2+1+1+1+1)
9.	<b>Renal system</b> Acute Renal Failure, Chronic Renal Failure, Renal Dialysis, Drug induced renal disorders	<b>Total = 05hrs.</b> (2+1+1+1)
10.	<b>Oncology:</b> Basic principles of Cancer therapy, General introduction to cancer chemotherapeutic agents, Chemotherapy of breast cancer, leukemia. Management of chemotherapy nausea and emesis	<b>Total = 06 hrs.</b> (2+1+2+1)
11.	<b>Dermatology:</b> Psoriasis, Scabies, Eczema, Impetigo	<b>Total = 4hrs.</b>

### 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

the end of the course for evaluation. A minimum of 20 cases should be presented and recorded covering most common diseases.

### Assignments:

Students are required to submit written assignments on the topics given to them. Topics allotted should cover recent developments in drug therapy of various diseases. A minimum of THREE assignments [1500 – 2000 words] should be submitted for evaluation.

### Format of the assignment:

1. Minimum & Maximum number of pages.
2. Reference(s) shall be included at the end.
3. Assignment can be a combined presentation at the end of the academic year.
4. It shall be computer draft copy.
5. Name and signature of the student.
6. Time allocated for presentation may be 8+2 Min.

### Scheme of Practical Examination:

	Sessionals	Annual
Synopsis	05	15
Major Experiment	10	25
Minor Experiment	03	15
Viva	02	15
<b>Max Marks</b>	<b>20</b>	<b>70</b>
<b>Duration</b>	<b>03hrs</b>	<b>04hrs</b>

**Note:** Total sessional marks is 30 (20 for practical sessional plus 10 marks for regularity, promptness, viva-voce and record maintenance).

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**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**

**M. Pharmacy (PHARMACEUTICS / PHARMACEUTICAL TECHNOLOGY)**

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**COURSE STRUCTURE AND SYLLABUS**  
Effective from Academic Year 2017-18 Admitted Batch

**I Year – I Semester**

Category	Course Title	Int. marks	Ext. marks	L	P	C
Core Course I	Advanced Physical Pharmaceutics	25	75	4	--	4
Core Course II	Modern Pharmaceutics-I	25	75	4	--	4
Core Course III	Applied Biopharmaceutics and Pharmacokinetics	25	75	4	--	4
Core Elective I	1. Modern Pharmaceutical Analytical Techniques 2. Intellectual Property Rights	25	75	4	--	4
Open Elective I	1. Pharmacoepidemiology and Pharmacoconomics 2. Drug Regulatory Affairs 3. Herbal Cosmetics Technology 4. Pharmaceutical Validation 5. Pharmaceutical Management	25	75	4	--	4
Laboratory I	Advanced physical Pharmaceutics Lab	25	75	---	6	3
Laboratory II	Applied Biopharmaceutics and Pharmacokinetics Lab	25	75	--	6	3
Seminar I	Seminar	50	--	--	4	2
<b>Total Credits</b>				<b>20</b>	<b>16</b>	<b>28</b>

**I Year – II Semester**

Category	Course Title	Int. marks	Ext. marks	L	P	C
Core Course IV	Advanced Drug Delivery Systems	25	75	4	--	4
Core Course V	Industrial Pharmacy	25	75	4	--	4
Core Course VI	Modern Pharmaceutics-II	25	75	4	--	4
Core Elective II	1. Biostatistics And Research Methodology 2. Stability of Drugs and Dosage Forms	25	75	4	--	4
Open Elective II	1. Screening Methods in Pharmacology 2. Nano Based Drug Delivery Systems 3. Nutraceuticals 4. Entrepreneurship management 5. Clinical Research And Pharmacovigilance	25	75	4	--	4
Laboratory III	Advanced Drug Delivery Systems Lab	25	75	---	6	3
Laboratory IV	Modern Pharmaceutics Lab	25	75	--	6	3
Seminar II	Seminar	50	--	--	4	2
<b>Total Credits</b>				<b>20</b>	<b>16</b>	<b>28</b>

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## II Year - I Semester

Course Title	Int. marks	Ext. marks	L	P	C
Comprehensive Viva-Voce	--	100	--	--	4
Project work Review I	50	--	--	24	12
<b>Total Credits</b>			--	24	16

## II Year - II Semester

Course Title	Int. marks	Ext. marks	L	P	C
Project work Review II	50	--	--	8	4
Project Evaluation (Viva-Voce)	--	150	--	16	12
<b>Total Credits</b>			--	24	16

University Updates

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R17

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**

**M. Pharmacy (PHARMACEUTICAL ANALYSIS & QUALITY ASSURANCE) / (QUALITY ASSURANCE)**

**COURSE STRUCTURE AND SYLLABUS**  
Effective from Academic Year 2017-18 Admitted Batch

**I Year – I Semester**

Category	Course Title	Int. marks	Ext. marks	L	P	C
Core Course I	Advanced Pharmaceutical Analysis	25	75	4	--	4
Core Course II	Food Analysis	25	75	4	--	4
Core Course III	Modern Pharmaceutical Analytical Techniques	25	75	4	--	4
Core Elective I	1. Pharmaceutical Validation 2. Intellectual Property Rights	25	75	4	--	4
Open Elective I	1. Drug Regulatory Affairs 2. Pharmacoepidemiology and Pharmacoconomics 3. Pharmaceutical Management 4. Herbal Cosmetics Technology 5. Pharmaceutical Formulation Technology	25	75	4	--	4
Laboratory I	Modern Pharmaceutical Analytical Techniques Lab	25	75	-	-6	3
Laboratory II	Advanced Pharmaceutical Analysis Lab	25	75	--	6	3
Seminar I	Seminar	50	--	--	4	2
<b>Total Credits</b>				<b>20</b>	<b>16</b>	<b>28</b>

**I Year – II Semester**

Category	Course Title	Int. marks	Ext. marks	L	P	C
Core Course IV	Advanced Instrumental Analysis	25	75	4	--	4
Core Course V	Quality Control and Quality Assurance	25	75	4	--	4
Core Course VI	Modern Bio analytical Techniques	25	75	4	--	4
Core Elective II	1. Biostatistics And Research Methodology 2. Spectral Analysis	25	75	4	--	4
Open Elective II	1. Screening Methods in Pharmacology 2. Stability of Drugs and Dosage Forms 3. Entrepreneurship management 4. Nano Based Drug Delivery Systems 5. Herbal & Cosmetics Analysis	25	75	4	--	4
Laboratory III	Advanced Instrumental Analysis Lab	25	75	-	6	4
Laboratory IV	Quality Control and Quality Assurance Lab	25	75	--	6	2
Seminar II	Seminar	50	--	--	4	2
<b>Total Credits</b>				<b>20</b>	<b>16</b>	<b>28</b>

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**II Year - I Semester**

Course Title	Int. marks	Ext. marks	L	P	C
Comprehensive Viva-Voce	--	100	--	--	4
Project work Review I	50	--	--	24	12
<b>Total Credits</b>			--	24	16

**II Year - II Semester**

Course Title	Int. marks	Ext. marks	L	P	C
Project work Review II	50	--	--	8	4
Project Evaluation (Viva-Voce)	--	150	--	16	12
<b>Total Credits</b>			--	24	16

University Updates

  
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**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**

**M. Pharmacy (PHARMACEUTICAL MANAGEMENT AND REGULATORY AFFAIRS)**

**COURSE STRUCTURE AND SYLLABUS**  
Effective from Academic Year 2017-18 Admitted Batch

**I Year – I Semester**

Category	Course Title	Int. marks	Ext. marks	L	P	C
Core Course I	Pharmaceutical Management – I (General and Personnel)	25	75	4	--	4
Core Course II	Drug Regulatory Affairs	25	75	4	--	4
Core Course III	Modern Pharmaceutical Analytical Techniques	25	75	4	--	4
Core Elective I	1. Total Quality Management 2. Intellectual Property Rights	25	75	4	--	4
Open Elective I	1. Pharmacoepidemiology and Pharmacoconomics 2. Herbal Cosmetics Technology 3. Phytochemistry 4. Pharmaceutical Formulation Technology 5. Pharmaceutical Validation	25	75	4	--	4
Laboratory I	Modern Pharmaceutical Analytical Techniques Lab	25	75	--	6	3
Laboratory II	Pharmaceutical Management Lab	25	75	--	6	3
Seminar I	Seminar	50	--	--	4	2
<b>Total Credits</b>				<b>20</b>	<b>16</b>	<b>28</b>

**I Year – II Semester**

Category	Course Title	Int. marks	Ext. marks	L	P	C
Core Course IV	Pharmaceutical Management –II (Production, Marketing, Finance and Project)	25	75	4	--	4
Core Course V	Analytical Method Validation and Copyrights and Trademarks	25	75	4	--	4
Core Course VI	Pharmaceutical Market Research and Analysis	25	75	4	--	4
Core Elective II	1. Biostatistics And Research Methodology 2. Stability of Drugs and Dosage Forms	25	75	4	--	4
Open Elective II	1. Screening Methods in Pharmacology 2. Nano Based Drug Delivery Systems 3. Nutraceuticals 4. Advanced Drug Delivery Systems 5. Clinical Research and Pharmacovigilance	25	75	4	--	4
Laboratory III	Analytical Method Validation Lab	25	75	--	6	3
Laboratory IV	Pharmaceutical Market Research and Analysis Lab	25	75	--	6	3
Seminar II	Seminar	50	--	--	4	2
<b>Total Credits</b>				<b>20</b>	<b>16</b>	<b>28</b>

*Number of*  
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1


## II Year - I Semester

Course Title	Int. marks	Ext. marks	L	P	C
Comprehensive Viva-Voce	--	100	--	--	4
Project work Review II	100	--	--	24	12
<b>Total Credits</b>	<b>100</b>	<b>100</b>	<b>--</b>	<b>24</b>	<b>16</b>

## II Year - II Semester

Course Title	Int. marks	Ext. marks	L	P	C
Project work Review III	100	--	--	8	4
Project Evaluation (Viva-Voce)	--	100	--	16	12
<b>Total Credits</b>	<b>100</b>	<b>100</b>	<b>--</b>	<b>24</b>	<b>16</b>

\$ For Project review I, please refer 7.9 in R17 Academic Regulations

  
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**GEETHANJALI COLLEGE OF PHARMACY**

**Cheeryal (V), Keesara (M), Medchal (D)**

Dt: 1/08/2018

**CIRCULAR**

**Subject:** College Academic Committee meeting for the A.Y.2018-19- Reg.

The College Academic Committee meeting is scheduled on 13/06/2018 at 3.00 P.M in Board room. All Board members are requested to attend the same.

**AGENDA POINTS**

- Consideration of the important communications, policy decisions received from the University, State Government, AICTE/PCI, etc., from time to time.
- To pass the annual budget of the College (including clearance of all University dues).
- To monitor the students Performance and faculty development programs
- To discuss about experiential learning courses in B.Pharmacy, Pharm D, Pharm D(PB) and M. Pharmacy programmes
- To approve the increase/reduction of intake, courses, new and closure.
- Approval of performance appraisal of faculty.
- To monitor and advice for Industry Institute Interactions.
- To monitor the steps taken for Students Training and Placement Activities.



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**GEETHANJALI COLLEGE OF PHARMACY**

**Cheeryal (V), Keesara (M), Medchal (D)**

Date: 01/08/2018

**College Academic Committee (CAC) Minutes of Meeting**

**Ref: GCPK/CAC/MOM/04**

**Date and time of the meeting:** 01/08/2018 at 3.00 P.M.

The 4<sup>th</sup> meeting of the College Academic Committee (CAC) of GCPK was held on 1<sup>st</sup> Aug 2018 at Board Room, GCPK. The meeting was chaired by Dr. M. Ravi Kumar, Principal and Chair Person, CAC, GCPK. The list of members who attended the meeting was enclosed.

The meeting commenced with a word of welcome by Dr. M. Ravi Kumar, Principal and Chair Person. All agendas were placed before the board to discuss and take action.

**1. Agenda: Curriculum Revision & Academic Regulation.**

**Resolution:**

The Chairperson reported that the references or opinions on the revised curriculum were received from Jawaharlal Nehru Technological University Hyderabad and the same is to be followed by the college. The member incharge discussed about the academic calendars given by the university and college for all the years and batch wise are to be implemented and followed accordingly.

**2. Agenda: Training and Placement Cell**

**Resolution:**

The chair person suggested to conductance of guest lectures, workshops, seminars, industrial visits & educational tours for students. He also proposed a team for organizing campus placement drives and off – campus interviews.

**3. Agenda: Discussion regarding the upcoming National Conference Dravyaka in the college.**

**Resolution:**



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The chair person discussed about 9<sup>th</sup> National Conference DRAVYAKA which was planned to be conducted in the month of March 2018 but it will be rescheduled to November 2018.

The chair person suggested the active participation of all faculty and student members.

**4. Agenda: Discussion about National Pharmacy Week held in November.**

**Resolution:**

The chair person discussed about 57<sup>th</sup> National pharmacy week to be held on 14-11-2018 to 24-11-2018.

The chair person proposed a rally in cheeryal village and informed to all faculty members and students to participate and make it a grand success.

**5. Agenda: Discussion about experiential learning courses in B.Pharmacy, Pharm D, Pharm D (PB) and M. Pharmacy programmes**

The chair person person discussed about experiential learning courses in B.Pharmacy, Pharm D, Pharm D (PB) and M. Pharmacy programmes. The members approved and the list of courses are enclosed in Annexure A

**6. Agenda: Discussion regarding Awards for classes and students:**

**Resolution:**

Chair person proposed to give prize/appreciation certificate for academic toppers. The chair person informed all faculty members to encourage and motivate students to participate actively in academics/extracurricular activities.

**7. Agenda: Discussion regarding UGC Approval.**

**Resolution:**


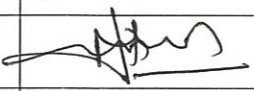
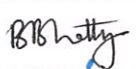

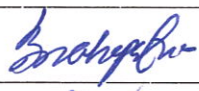

The member secretary discussed regarding the approval of UGC 2f (12b).

  
CHAIR PERSON

PRINCIPAL  
Geethanjali College of Pharmacy  
Cheeryal(V), Keesara(M), Medchal Dist. T.S.-501301.

Members Present:

Date: 01/08/2018

S.No.	Name	Designation	Nature	Signature
1	Dr. M. Ravi Kumar	Professor & Principal	Coordinator	
2	Dr. M. Srinivas	HOD, Pharmaceutical Chemistry	Member Incharge	
3	Dr. B. Battacharya	HOD, Pharmacology	Member	
4	Dr. T. Mangila	HOD, Pharmaceutics	Member	
5	Dr. Bharat Bhushan Mohapatra	HOD, Pharmacognosy	Member	
6	Dr. R. Sivakumar	Incharge, Exam branch	Member	
7	Dr. B. Rambabu	HOD, PharmD	Member	ABSENT



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# GEETHANJALI COLLEGE OF PHARMACY

Approved by AICTE, PCI New Delhi, Permanently Affiliated to JNTUH  
Recognized Under UGC Section 2F & 12B of UGC Act, 1956, by DSIR-SIRO  
Cheeryal (V), Keesara (M), Medchal-Malkajgiri Dist., Telangana State- 501301

## ANNEXURE-A

The following courses that include experiential learning through project work and field work (Industry Training) for B. Pharmacy (Program Code: Z51R; JNTUH Regulation: R15) are approved by the College Academic Committee for the Academic Year 2018-19.

S.No.	Year of Study	Name of the Course	Course Code
1	I Year	Dispensing and General Pharmacy	R1002
2		Pharm. Inorganic Chemistry	R1003
3		Pharmaceutical Organic Chemistry-I	R1004
4		Anatomy, Physiology and Health Education	R1005
5		Dispensing and General Pharmacy Lab	R10052
6		Pharm. Inorganic Chemistry Lab	R10053
7		Pharmaceutical Organic Chemistry-I Lab	R10054
8		Anatomy, Physiology and Health Education Lab	R10055
9	II Year	Pharmaceutical Unit Operations- I	R3007
10		Pharmaceutical Organic Chemistry - II	R3008
11		Statistical Methods and Computer Applications	R3009
12		Physical Pharmacy – I	R3010
13		Anatomy, Physiology and Pathophysiology	R3011
14		Pharmaceutical Organic Chemistry-II Lab	R30057
15		Statistical Methods and Computer Applications	R30058
16		Physical Pharmacy – I Lab	R30059
17		Anatomy, Physiology & Pathophysiology-Lab	R30060
18		Pharmaceutical Unit Operations -II	R40012
19		Pharmaceutical Biochemistry	R40013
20		Pharmacognosy-I	R40014
21		Physical Pharmacy-II	R40015
22		Pharmaceutical Unit Operations- II Lab	R40061
23		Pharmaceutical Biochemistry Lab	R40062
24		Pharmacognosy-I Lab	R40063
25		Physical Pharmacy-II Lab	R40064
26	III Year	Pharmaceutical Analysis-I	R50017
27		Pharmaceutical Microbiology	R50018
28		Pharmacognosy-II	R50019
29		Pharmaceutical Technology-I	R50020
30		Pharmacology-I	R50021
31		Pharmaceutical Analysis-I Lab	R50065

  
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32		Pharmaceutical Microbiology Lab	R50066
33		pharmacognosy- II lab	R50067
34		Pharmaceutical Technology-I Lab	R50068
35		Medicinal Chemistry-I	R60022
36		Pharmaceutical Technology-II	R60023
37		Pharmacology-II	R60024
38		Chemistry of Natural Products	R60025
39		Medicinal Chemistry-I Lab	R60070
40		Pharmaceutical Technology-II Lab	R60071
41		Pharmacology-II Lab	R60072
42		Chemistry of Natural Products Lab	R60073
43	<b>IV Year</b>	Pharmacognosy-III	R70027
44		Biopharmaceutics & Pharmacokinetics	R70028
45		Pharmacology-III	R70029
46		Medicinal Chemistry-II	R70030
47		Seminar/Industrial Visit	R70074
48		Pharmacognosy-III Lab	R70075
49		Biopharmaceutics & Pharmacokinetics Lab	R70076
50		Pharmacology-III Lab	R70077
51		Medicinal Chemistry-II Lab	R70078
52		Novel Drug Delivery Systems & Regulatory Affairs	R80032
53		Pharmaceutical Biotechnology	R80033
54		Pharmaceutical Analysis – II	R80034
55		Clinical Pharmacy Practice	R80036
56		Project Work & Comprehensive Viva	R80079
57		Novel Drug Delivery Systems & Regulatory Affairs Lab	R80080
58		Pharmaceutical Biotechnology Lab	R80081
59		Pharmaceutical Analysis – II Lab	R80082

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The following courses that include experiential learning through internship for Pharm. D (Program Code: Z51T; JNTUH Regulation: R08) are approved by the College Academic Committee for the Academic Year 2018-19.

S.No.	Year of Study	Name of the Course	Course Code
1	I Year	Human Anatomy & Physiology	PD.C11
2		Pharmaceutics	PD.C12
3		Medicinal Biochemistry	PD.C13
4		Pharmaceutical Organic Chemistry	PD.C14
5		Pharmaceutical Inorganic Chemistry	PD.C15
6		Human Anatomy & Physiology Lab	PD.C19
7		Pharmaceutics Lab	PD.C110
8		Medicinal Biochemistry Lab	PD.C111
9		Pharmaceutical Organic Chemistry Lab	PD.C112
10		Pharmaceutical Inorganic Chemistry Lab	PD.C113
11	II Year	Pathophysiology	PD.C21
12		Pharmaceutical Microbiology	PD.C22
13		Pharmacognosy & Phyto Pharmaceuticals	PD.C23
14		Pharmacology-I	PD.C24
15		Community Pharmacy	PD.C25
16		Pharmacotherapeutics-I	PD.C26
17		Pharmaceutical Microbiology Lab	PD.C27
18		Pharmacognosy & Phyto Pharmaceuticals Lab	PD.C28
19		Pharmacotherapeutics-I Lab	PD.C29
20		Pharmacology-I Lab	PD.C210
21	III Year	Pharmacology-II	PD.C31
22		Pharmaceutical Analysis	PD.C32
23		Pharmacotherapeutics-II	PD.C33
24		Medicinal Chemistry	PD.C35
25		Pharmaceutical Formulations	PD.C36
26		Pharmacology -II Lab	PD.C37
27		Pharmaceutical Analysis Lab	PD.C38
28		Pharmacotherapeutics-II Lab	PD.C39
29		Medicinal Chemistry Lab	PD.C310
30		Pharmaceutical Formulations Lab	PD.C311
31	IV Year	Pharmacotherapeutics-III	PD.C41
32		Hospital Pharmacy	PD.C42
33		Clinical Pharmacy	PD.C43
34		Biostatistics & Research Methodology	PD.C44
35		Biopharmaceutics & Pharmacokinetics	PD.C45
36		Clinical Toxicology	PD.C46
37		Pharmacotherapeutics-III Lab	PD.C47
38		Hospital Pharmacy Lab	PD.C48

39	<b>V Year</b>	Clinical Pharmacy Lab	PD.C49
40		Biopharmaceutics & Pharmacokinetics Lab	PD.C410
41		Clinical Research	PD.C51
42		Pharmacoepidemiology & Pharmacoeconomics	PD.C52
43		Clinical Pharmacokinetics & Pharmacotherapeutic Drug Monitoring	PD.C53
44		Clerkship	PD.C54
45		Project Work	PD.C55
46	<b>VI Year</b>	Internship	PD.C61

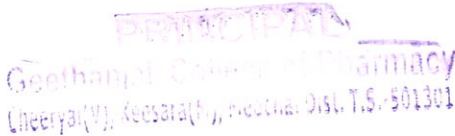
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The following courses that include experiential learning through internship for Pharm. D (PB) (Program Code: Z55T; JNTUH Regulation: R08) are approved by the College Academic Committee for the Academic Year 2018-19.


S.No.	Year of Study	Name of the Course	Course Code
1	<b>I Year</b>	Pharmacotherapeutics-III	PD.C41
2		Hospital Pharmacy	PD.C42
3		Clinical Pharmacy	PD.C43
4		Biostatistics & Research Methodology	PD.C44
5		Biopharmaceutics & Pharmacokinetics	PD.C45
6		Clinical Toxicology	PD.C46
7		Pharmacotherapeutics-III Lab	PD.C47
8		Hospital Pharmacy Lab	PD.C48
9		Clinical Pharmacy Lab	PD.C49
10		Biopharmaceutics & Pharmacokinetics Lab	PD.C410
11		Pharmacotherapeutics I&II	PD.C411
12		Pharmacotherapeutics I&II LAB	PD.C412
13	<b>II Year</b>	Clinical Research	PD.C51
14		Pharmacoepidemiology & Pharmacoeconomics	PD.C52
15		Clinical Pharmacokinetics & Pharmacotherapeutic Drug Monitoring	PD.C53
16		Clerkship	PD.C54
17		Project Work	PD.C55
18	<b>III Year</b>	Internship	PD.C61

  
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The following courses that include experiential learning through Project work for M. Pharm-Pharmaceutics (Program Code: Z51S03; JNTUH Regulation: R17) are approved by the College Academic Committee for the Academic Year 2018-19.

S.No.	Year of Study	Name of the Course	Course Code
1	I Year	Advanced Physical Pharmaceutics	MPT.C111
2		Modern Pharmaceutics-I	MPT.C112
3		Applied Biopharmaceutics and Pharmacokinetics	MPT.C113
4		Modern Pharmaceutical Analytical Techniques	MPT.C114
5		Intellectual Property Rights	MPT.C115
6		Pharmacoepidemiology And Pharmacoeconomics	MPT.C116
7		Drug Regulatory Affairs	MPT.C117
8		Herbal Cosmetics Technology	MPT.C118
9		. Pharmaceutical Validation	MPT.C119
10		Pharmaceutical Management	MPT.C120
11		Advanced Physical Pharmaceutics Lab	MPT.C121
12		Applied Biopharmaceutics and Pharmacokinetics Lab	MPT.C122
13		Seminar	MPT.C123
14		Advanced Drug Delivery Systems	MPT.C121
15		Industrial Pharmacy	MPT.C122
16		Modern Pharmaceutics-II	MPT.C123
17		Biostatistics and Research Methodology	MPT.C124
18		Stability of Drugs and Dosage Forms	MPT.C125
19		Screening Methods in Pharmacology	MPT.C126
20		Nano Based Drug Delivery Systems	MPT.C127
21		Nutraceuticals	MPT.C128
22		Entrepreneurship Management	MPT.C129
23		Clinical Research and Pharmacovigilance	MPT.C130
24		Advanced Drug Delivery Systems Lab	MPT.C131
25		Modern Pharmaceutics Lab	MPT.C132
26		Seminar	MPT.C133
27	II Year	Comprehensive Viva-Voce	MPT.C211
28		Project Work Review II	MPT.C212
29		Project Work Review III	MPT.C211
30		Project Evaluation (Viva-Voce)	MPT.C212

  
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The following courses that include experiential learning through Project work for M. Pharm-Pharmaceutical Regulatory Affairs (Program Code: Z51S13; JNTUH Regulation: R17) are approved by the College Academic Committee for the Academic Year 2018-19.

S.No.	Year of Study	Name of the Course	Course Code
1	I Year	Pharmaceutical management -I (general & personnel)	MP.C111
2		Drug Regulatory Affairs	MP.C112
3		Modern Pharmaceutical analytical techniques	MP.C113
4		Total Quality Management	MP.C114
5		Intellectual Property Rights	MP.C115
6		Pharmacoepidemiology And Pharmacoeconomics	MP.C116
7		Herbal Cosmetics Technology	MP.C117
8		Phytochemistry	MP.C118
9		Pharmaceutical Formulation Technology	MP.C119
10		Pharmaceutical Validation	MP.C120
11		Modern Pharmaceutical Analytical Techniques Lab	MP.C121
12		Pharmaceutical Management Lab	MP.C122
13		Seminar	MP.C123
14		Pharmaceutical Managemnt -II (PRODUCTION, MARKETING & FINANCE)	MP.C124
15		Analytical Method Validation and copyrights and trademarks	MP.C125
16		Pharmaceutical Market research and Analysis	MP.C126
17		Biostatistics and Research Methodology	MP.C127
18		Stability of Drugs and Dosage forms	MP.C128
19		Screening Methods in Pharmacology	MP.C129
20		Nano Based Drug Delivery Systems	MP.C130
21		Neutraceuticals	MP.C131
22		Advanced drug delivery systems	MP.C132
23		Clinical Research and Pharmacovigilance	MP.C133
24		Analytical Method Validation	MP.C134
25		Pharmaceutical Market research	MP.C135

		and Analysis Lab	
26		Seminar	MP.C136
27	<b>II Year</b>	Comprehensive Viva-Voce	MP.C221
28		Project Work Review II	MP.C222
29		Project Work Review III	MP.C221
30		Project Evaluation (Viva-Voce)	MPC222

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The following courses that include experiential learning through Project work for M. Pharm-Pharmaceutical Analysis (Program Code: Z51S12; JNTUH Regulation: R17) are approved by the College Academic Committee for the Academic Year 2018-19.

S.No.	Year of Study	Name of the Course	Course Code
1	I Year	Advanced Pharmaceutical Analysis	MPA.C111
2		Food Analysis	MPA.C112
3		Modern Pharmaceutical Analytical Techniques	MPA.C113
4		Pharmaceutical Validation	MPA.C114
5		Intellectual Property Rights	MPA.C115
6		Drug Regulatory Affairs	MPA.C116
7		Pharmacoepidemiology And Pharmacoeconomics	MPA.C117
8		Pharmaceutical Management	MPA.C119
9		Herbal Cosmetics Technology	MPA.C120
10		Pharmaceutical Formulation Technology	MPA.C121
11		Modern Pharmaceutical Analytical Techniques Lab	MPA.C121
12		Advanced Pharmaceutical Analysis Lab	MPA.C121
13		Seminar	MPA.C122
14		Advanced Instrumental Analysis	MPA.C121
15		Quality Control and Quality Assurance	MPA.C122
16		Modern Bio Analytical Techniques	MPA.C123
17		Biostatistics and Research Methodology	MPA.C124
18		Spectral Analysis	MPA.C125
19		Screening Methods in Pharmacology	MPA.C126
20		Stability of Drugs and Dosage Forms	MPA.C127
21		Entrepreneurship Management	MPA.C128
22		Nano Based Drug Delivery Systems	MPA.C129
23		Herbal & Cosmetics Analysis	MPA.C130
24		Advanced Instrumental Analysis Lab	MPA.C131
25		Quality Control and Quality Assurance Lab	MPA.C132
26		Seminar	MPA.C133
27	II Year	Comprehensive Viva-Voce	MPA.C221
28		Project Work Review II	MPA.C222
29		Project Work Review III	MPA.C221
30		Project Evaluation (Viva-Voce)	MPA.C222

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