

Geethanjali College of Pharmacy

Approved by AICTE, PCI New Delhi, Permanently Affiliated to JNTUH & B. Pharmacy Accredited by NBA
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 Dist., Telangana State- 501301

NAAC CRITERION-1

Curricular Aspects

1.3.2. Average percentage of courses that include experimental learning through project work/field work/internship during last five years

S.No.	File No	File Description
4.	1.3.2 (4)	Courses that include experimental learning through project work/field work/internship during A.Y. 2017-18

R15



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
PHARMACEUTICAL ANALYSIS AND QUALITY ASSURANCE / QA
COURSE STRUCTURE AND SYLLABUS

I Year – I Semester

Category	Course Title	Int. marks	Ext. marks	L	P	C
Core Course I	Separation Techniques	25	75	4	--	4
Core Course II	Advanced Pharmaceutical Analysis – I	25	75	4	--	4
Core Course III	Quality Control of Bulk Drugs and Formulations	25	75	4	--	4
Core Elective I	1. Modern Pharmaceutical Analytical Technique 2. Intellectual Property Rights and Regulatory Affairs	25	75	4	--	4
Open Elective I	1. Pharmacoepidemiology, Pharmacoeconomics and Pharmacovigilance 2. Drug Regulatory Affairs (National And International) 3. Herbal Cosmetics Technology 4. Pharmaceutical Management – I 5. Advanced Physical Pharmaceutics	25	75	4	--	4
Laboratory I	Modern Pharmaceutical Analytical Techniques Lab	25	75	4	--	4
Laboratory II	Advanced Pharmaceutical Analysis-I Lab	25	75	--	4	2
Seminar I	Seminar	50	--	--	4	2
Total Credits				24	8	28

I Year – II Semester

Category	Course Title	Int. marks	Ext. marks	L	P	C
Core Course IV	Advanced Pharmaceutical Analysis – II	25	75	4	--	4
Core Course V	Spectral Analysis	25	75	4	--	4
Core Course VI	Quality Assurance	25	75	4	--	4
Core Elective II	1. Biostatistics And Research Methodology 2. Screening Methods & Clinical Research	25	75	4	--	4
Open Elective II	1. Stability of Drugs and Dosage Forms 2. Nano Based Drug Delivery Systems 3. Nutraceuticals 4. Pharmaceutical Product development and Management 5. Pharmaceutical Management-II	25	75	4	--	4
Laboratory III	Advanced Pharmaceutical Analysis – II Lab	25	75	4	--	4
Laboratory IV	Spectral Analysis Lab	25	75	--	4	2
Seminar II	Seminar	50	--	--	4	2
Total Credits				24	8	28

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
Total Credits			--	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
Total Credits			--	24	16



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



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
M. Pharmacy (PHARMACEUTICS / PHARMACEUTICAL TECHNOLOGY)

COURSE STRUCTURE AND SYLLABUS

I Year – I Semester

Category	Course Title	Int. marks	Ext. marks	L	P	C
Core Course I	Applied Biopharmaceutics and Pharmacokinetics	25	75	4	--	4
Core Course II	Advanced Physical Pharmaceutics	25	75	4	--	4
Core Course III	Advanced Pharmaceutical Technology –I	25	75	4	--	4
Core Elective I	1. Modern Pharmaceutical Analytical Technique 2. Intellectual Property Rights and Regulatory Affairs	25	75	4	--	4
Open Elective I	1. Pharmacoepidemiology, Pharmacoconomics and Pharmacovigilance 2. Drug Regulatory Affairs (National & International) 3. Herbal Cosmetic Technology 4. Separation Methods 5. Pharmaceutical Management – I	25	75	4	--	4
Laboratory I	Modern Pharmaceutical Analytical Techniques Lab	25	75	4	--	4
Laboratory II	Advanced physical Pharmaceutics Lab	25	75	--	4	2
Seminar I	Seminar	50	--	--	4	2
Total Credits				24	8	28

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	Advanced Pharmaceutical Technology II	25	75	4	--	4
Core Elective II	1. Biostatistics And Research Methodology 2. Screening Methods & Clinical Research	25	75	4	--	4
Open Elective II	1. Stability of Drugs and Dosage Forms 2. Nano Based Drug Delivery Systems 3. Nutraceuticals 4. Pharmaceutical Management-II	25	75	4	--	4
Laboratory III	Advanced Drug Delivery Systems Lab	25	75	4	--	4
Laboratory IV	Advanced Pharmaceutical Technology Lab	25	75	--	4	2
Seminar II	Seminar	50	--	--	4	2
Total Credits				24	8	28

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
Total Credits			--	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
Total Credits			--	24	16



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 (Opposite V.V. Nagar, Keesara, Medchal Dist., T.S. - 501 303)



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
M. Pharmacy (PHARMACEUTICAL MANAGEMENT AND REGULATORY AFFAIRS)
COURSE STRUCTURE AND SYLLABUS

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	Total Quality Management	25	75	4	--	4
Core Course III	Drug Regulatory Affairs (National and International Aspects)	25	75	4	--	4
Core Elective I	1. Modern Pharmaceutical Analytical Technique 2. Intellectual Property Rights and Regulatory Affairs	25	75	4	--	4
Open Elective I	1. Pharmacoepidemiology, Pharmacoeconomics and Pharmacovigilance 2. Herbal Cosmetics Technology 3. Advanced Pharmaceutical Technology –I 4. Industrial Pharmaceutics 5. Separation Techniques	25	75	4	--	4
Laboratory I	Modern Pharmaceutical Analytical Techniques Lab	25	75	4	--	4
Laboratory II	Pharmaceutical Management Lab	25	75	--	4	2
Seminar I	Seminar	50	--	--	4	2
Total Credits				24	8	28

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. Screening Methods & Clinical Research	25	75	4	--	4
Open Elective II	1. Stability of Drugs and Dosage Forms 2. Nano Based Drug Delivery Systems 3. Nutraceuticals 4. Advanced Drug Delivery Systems 5. Advanced Pharmaceutical Technology -II	25	75	4	--	4
Laboratory III	Analytical Method Validation Lab	25	75	4	--	4
Laboratory IV	Pharmaceutical Market Research and Analysis Lab	25	75	--	4	2
Seminar II	Seminar	50	--	--	4	2
Total Credits				24	8	28

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
Total Credits			--	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
Total Credits			--	24	16

Signature of
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**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD.
B. PHARMACY**

I YEAR

Code	Subject	T	C	P	Code	C
R10001	Remedial Mathematics/ Remedial Biology	4+1/2+1	8/4	0/3	(R10051)	0/4
R10002	Dispensing and General Pharmacy	3+1	6	3	(R10052)	4
R10003	Pharm. Inorganic Chemistry	4+1	8	3	(R10053)	4
R10004	Pharmaceutical Organic Chemistry-I	3+1	6	3	(R10054)	4
R10005	Anatomy, Physiology and Health education	3+1	6	3	(R10055)	4
R10006	English	2	4	2	(R10056)	2
	Total	24/22	38/34	14/17		18/22

II YEAR I SEMESTER

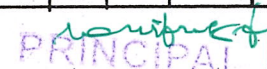
Code	Subject	T	C	P	Code	C
R30007	Pharmaceutical Unit Operations - I	4+1	4	-	-	-
R30008	Pharmaceutical Organic Chemistry - II	4+1	4	3	(R30057)	2
R30009	Statistical Methods & Computer Applications	4+1	4	3	(R30058)	2
R30010	Physical Pharmacy - I	4+1	4	3	(R30059)	2
R30011	Anatomy, Physiology & Pathophysiology	4+1	4	3	(R30060)	2
	Total	25	20	12		8

II YEAR II SEMESTER

Code	Subject	T	C	P	Code	C
R40012	Pharmaceutical Unit Operations- II	4+1	4	3	(R40061)	2
R40013	Pharmaceutical Biochemistry	4+1	4	3	(R40062)	2
R40014	Pharmacognosy - I	4+1	4	3	(R40063)	2
R40015	Physical Pharmacy - II	4+1	4	3	(R40064)	2
R40016	Environmental Studies	4+1	4	-	-	-
	Total	25	20	12		8

III YEAR I SEMESTER

Code	Subject	T	C	P	Code	C
R50017	Pharmaceutical Analysis I	4+1	4	3	(R50065)	2
R50018	Pharmaceutical Microbiology	4+1	4	3	(R50066)	2
R50019	Pharmacognosy - II	4+1	4	3	(R50067)	2
R50020	Pharmaceutical Technology - I	4+1	4	3	(R50068)	2
R50021	Pharmacology - I	4+1	4	-	-	-
	Total	25	20	12		8


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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
	Total	23	18	15		10

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
	Total	23	18	12		10

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
	Total	22	18	9		10

** Suggested areas for project work.

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

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