# 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					

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

## I Year - I Semester

Category	Course Title	Int.	Ext.	L	Р	С
		marks				
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	<ol> <li>Modern Pharmaceutical Analytical Technique</li> <li>Intellectual Property Rights and Regulatory Affairs</li> </ol>	25	75	4		4
Open Elective I	<ol> <li>Pharmacoepidemiology, Pharmacoeconomics and Pharmacovigilance</li> <li>Drug Regulatory Affairs (National And International )</li> <li>Herbal Cosmetics Technology</li> <li>Pharmaceutical Management – I</li> <li>Advanced Physical Pharmaceutics</li> </ol>	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	5		24	8	28

#### I Year - Il Semester

Category	Course Title	Int. marks	Ext. marks	L	Р	С
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	<ol> <li>Biostatistics And Research Methodology</li> <li>Screening Methods &amp; Clinical Research</li> </ol>	25	75	4		4
Open Elective II	<ol> <li>Stability of Drugs and Dosage Forms</li> <li>Nano Based Drug Delivery Systems</li> <li>Nutraceuticals</li> <li>Pharmaceutical Product development and Management</li> <li>Pharmaceutical Management-II</li> </ol>	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
<b>Total Credits</b>				24	8	28

## Il Year - I Semester

Course Title	Int.	Ext.	L	Р	С
	marks	marks			
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	Р	С
Project work Review II	50			8	4
Project Evaluation (Viva-Voce)		150		16	12
Total Credits				24	16



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

## COURSE STRUCTURE AND SYLLABUS

I Year - I Semester

Category	Course Title	Int.	Ext.	L	Р	C
C		marks	marks		1	
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	<ol> <li>Modern Pharmaceutical Analytical Technique</li> <li>Intellectual Property Rights and Regulatory Affairs</li> </ol>	25	75	4		4
Open Elective I	<ol> <li>Pharmacoepidemiology, Pharmacoeconomics and Pharmacovigilance</li> <li>Drug Regulatory Affairs (National &amp; International)</li> <li>Herbal Cosmetic Technology</li> <li>Separation Methods</li> <li>Pharmaceutical Management – I</li> </ol>	25	75	4		4
Laboratory I	Modern Pharmaceutical Analytical Techniques Lab	25	75	-		
Laboratory II	Advanced physical Pharmaceutics Lab		75	4		4
Seminar I	Seminar	25	75		4	2
	Total Credits	50			4	2
				24	8	28

## I Year – II Semester

Category	Course Title	Int.	Ext.	L	Р	C
Care Care IV/		marks	marks		-	
Core Course IV	Advanced Drug Delivery Systems	25	75	4		4
Core Course V	Industrial Pharmacy	25	75			
Core Course VI	Advanced Pharmaceutical Technology II	25	75	4		4
Core Elective II	1. Biostatistics And Research Methodology			4		4
	2. Screening Methods & Clinical Research	25	75	4		4
Open Elective II	<ol> <li>Stability of Drugs and Dosage Forms</li> <li>Nano Based Drug Delivery Systems</li> <li>Nutraceuticals</li> <li>Pharmaceutical Management-II</li> </ol>	25	75	4		4
Laboratory III	Advanced Drug Delivery Systems Lab	25	75	1		4
Laboratory IV	Advanced Pharmaceutical Technology Lab	25		4		4
Seminar II	Seminar		75		4	2
Total Credits		50			4	2
				21	8	28

## Il Year - I Semester

Course Title	Int.	Ext.	L	Р	С
Comprehensive Viva-Voce	marks	marks			
Project work Review I		100			4
	50			24	12
Total Credits				24	16

## Il Year - Il Semester

Course Title	Int.	Ext.	L	Р	С
Project work Review II	marks	marks			
Project Evaluation (Viva-Voce)	50			8	4
		150		16	12
Total Credits				24	16



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## 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	С
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	<ol> <li>Modern Pharmaceutical Analytical Technique</li> <li>Intellectual Property Rights and Regulatory Affairs</li> </ol>	25	• 75	4		4
Open Elective I	<ol> <li>Pharmacoepidemiology, Pharmacoeconomics and Pharmacovigilance</li> <li>Herbal Cosmetics Technology</li> <li>Advanced Pharmaceutical Technology –!</li> <li>Industrial Pharmaceutics</li> <li>Separation Techniques</li> </ol>	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			Ą	2
	Total Credits			24	8	28

#### I Year -- Il Semester

Category	Course Title	Int. marks	Ext. marks	L.	Р	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	<ol> <li>Biostatistics And Research Methodology</li> <li>Screening Methods &amp; Clinical Research</li> </ol>	25	75	4		4
Open Elective II	<ol> <li>Stability of Drugs and Dosage Forms</li> <li>Nano Based Drug Delivery Systems</li> <li>Nutraceuticals</li> <li>Advanced Drug Delivery Systems</li> <li>Advanced Pharmaceutical Technology -II</li> </ol>	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

#### Il Year - I Semester

Course Title	Int.	Ext.	L	Ρ	С
	marks	marks			
Comprehensive Viva-Voce		100			.4
Project work Review I	50			24	. 12
Total Credits				24	16

#### Il Year - Il Semester

Course Title	•	-	Int. marks	Ext. marks	L	Р	С
Project work Review II			50			8	4
Project Evaluation (Viva-Voce)	~			150		16	12
Total Credits				1		24	16

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Codę	Subject	T	C	P	Code	Ċ
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
an internet	Total	24/22	38/34	14/17	and the second s	18/22
II YEAR	I SEMESTER	Stell 1410	lander og som en so Som en som en		naericolii I	
Code	Subject	T	C	Pool	. Code	·C
R30007 +	Pharmaceutical Unit Operations -I	4+1	4		English 1	-
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 0	Anatomy, Physiology & Pathophysiology	4+1	4	3	(R30060)	NA 2
-	Total	25	20	12	Sender ST	8
II YEAR II	SEMESTER	naA Loo B	19:215		o Cariola I	
Code	Subject	Typ	orCosu	6 <b>P</b> /0	Code	88 C).
R40012	Pharmaceutical Unit Operations-II	4+1	- 4:3%	3.	(R40061)	182
R40013	Pharmaceutical Biochemistry	. 4+1	2 <b>.4</b> .	3	(R40062)	2
R40014	Pharmacognosy-1	4+1	o1 <b>4</b> 8:€	V. 3 15	(R40063)	2
R40015	Physical Pharmacy – II	4+1	4	3	(R40064)	2
R40016	Environmental Studies	4+1	4.		. lator	
	Total	25	20	12		8
III YEAR I	SEMESTER		s lasin 		sins beter	9902
Code	Subject		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 -1	4+1	4-		. All	161.3*
	Total	25	20	12		8

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B. FTARKMACY 2013-14.         II YEAR I SERIESTER         Code       Subject       P. PTARKMACY 2013-14         Code       Subject       B R0071)       2         FB0002       PHEIMEDER       A R60071)       2         R60025       Chemistry of Natural Products       A H41       4       A R600719       2         R60026       Phermaeoufical Uniformation Skills Lab       23       19       10         VEXANT SERVESTER         Code       Shopter       A         R70025       Phermaeoufica Communication Skills Lab       23       19       10         VX PART I SEMESTER         Code       Shopter       7         R70025       Phermaeoufica Single Lab       2       19       10         VX PART I SEMESTER       Code       7         R70025       Phermacology III       7 <th< th=""><th>18</th><th></th><th></th><th>2</th><th></th><th></th><th></th></th<>	18			2			
R I SEMESTER         2       Wedforial Chemistry -1       7       C       P       Code         3       Re0070)       3+1       3       7       7       0         4       Pharmaceutical Technology-II       3+1       3       3       7       7       0         5       Pharmaceutical Technology-II       3+1       3       3       7       7       0       7       0       7       0       7       0       7       0       7       0       7       0       7       0       7       7       0       7       7       0       7       7       0       7       7       1       0       7       7       1<					TATA TATA	XIMACY 21	113-14
Subject         T         C         P         Code           2         Medicinal Chemistry -1         3+1         3         (R6077)           3         Pharmaceutical Technology-II         3+1         3         3         (R6077)           4         Pharmaceutical Technology-II         3+1         3         3         (R6077)           5         Chemistry of Natural Products         4+1         4         3         (R6077)           6         Pharmaceutical Jurisprudence         4+1         4         3         (R6077)           7         C         P         23         13         3         (R70075)           7         Avaroed Communication Skills Lab         23         14         4         3         (R70075)           8         Biopharmaceutics and Pharmacokinetics         3+1         3         3         (R70075)           8         Biopharmaceutics         3+1         4         4         4         5         (R70075)           10         Pharmacology III         3+1         3         3         (R70075)         1           10         Pharmacoutics         3+1         4         4         5         (R70076)           10	YEAR	II SEMESTER					
2         Medicinal Chemistry -1         3+1         3         (R6007)           3         Pharmaceutical Technology-II         3+1         3         (R6007)           1         Pharmaceutical Technology-II         3+1         3         (R60073)           5         Chemistry of Natural Products         4+1         4         3         (R60073)           6         Pharmaceutical Jurisprodence         4+1         4         3         (R60073)           7         Advanced Communication Skills Lab         23         18         15         -           7         Advanced Communication Skills Lab         23         18         3         (R70075)           8         Biopharmaceutics         3+1         3         3         (R70075)           8         Biopharmaceutics         3+1         3         3         (R70077)           8         Biopharmaceutics         3+1         3         3         (R70077)           8         Biopharmaceutics         Athinistration         4+1         4         4         4           8         Biopharmaceutics         3+1         3         3         (R70076)           9         Biopharmaceutics         3+1         3         <	ę	Subject	F	0	٩.	Code	0
3         Pharmacoulcal Technology-II         3+1         3         (R6007)           1         Pharmacoulcal Technology-II         4+1         4         3         (R60073)           2         Chemistry of Natural Products         4+1         4         3         (R60073)           2         Chemistry of Natural Products         4+1         4         3         (R60073)           3         Advanced Communication Stalls Lab         23         18         3         (R70075)           4         Total         23         18         3         (R70075)           Advanced Communication Stalls Lab         23         13         3         (R70075)           Rist         Data         23         14         4         3         (R70075)           Pharmacoutics and Pharmacotinetics         3+1         3         3         (R70075)           Pharmacoutics and Pharmacotinetics         3+1         3         (R70076)         1           Pharmacoutics and Pharmacotinetics         3+1         3         3         (R70076)           Pharmacoutics         3+1         3         3         (R70076)           Pharmacoutics         3+1         3         3         (R70076)	53	Medicinal Chemistry – I	3+1	3	ŝ	(R60070)	2
Image: state of the s	023	Pharmaceutical Technology-II	3+1	e	e	(R60071)	2
b         Chemistry of Natural Products         4+1         4         3         [fte0073]           0         Pharmaceutical Jurisprudence         4+1         4         -         -         3         [fte0073]           1         Advanced Communication Skills Lab         -         -         3         1         -         -         3         [fte0073]           1         Advanced Communication Skills Lab         -         -         3         1         3         [ft70075]           1         Advanced Communication Skills Lab         23         14         3         3         [ft70075]           1         Subject         T         C         P         Code         1         1         3         3         [ft70075]           1         Biopharmaceutics and Pharmacokinetics         3+1         3         3         [ft70076]         1           1         Medicinal Chemistry II         4+1         4         -         -         -         -         -         -         -         -         -         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1	024	Pharmacology II-	4+1	4	ŝ	(R60072)	2
b         Pharmaceutical Jurisprudence         4+1         4+         -         3           ndvanced Communication Skills Lab         -         3         18         15         -         3         15           R SEMESTER         23         18         13         3         (R70075)           R ISEMESTER         23         14         3         3         (R70075)           Biopharmacoulitis and Pharmacokinetics         3+1         3         3         (R70075)           Biopharmacoulitis and Pharmacokinetics         3+1         3         3         (R70075)           Biopharmacology III         4+1         4         3         (R70076)           Pharmacology III         4+1         4         3         (R70076)           Pharmacology III         4+1         4         3         (R70076)           Seminar / Industriation         4+1         4         3         (R70076)           Pharmacology III         23         18         3         (R70076)           Seminar / Industrial Visit         2         2         3         (R70076)           Pharmacology III         3         4         4         3         (R80080)           Pharmacoulical Breaction	025	Chemistry of Natural Products	41	4	3	(R60073)	2
Image: Sensitive of Communication Skills Lab       -       -       3       Image: Sensitive of Communication Skills Lab         R I SEMESTER       23       18       15       -       3       (R70075)         R I SEMESTER       3       (R70075)       3       3       (R70075)       3         R I SEMESTER       3       7       C       P       Code       3       7       7       2       3       3       (R70075)         Pharmacoglogy III       3+1       3       3       (R70078)       3       3       (R70078)         Pharmacology III       4+1       4       3       (R70078)       3       3       (R70078)         Pharmacology III       4+1       4       3       (R70078)       3       3       (R70078)         Pharmacology III       4+1       4       3       (R70078)       3       3       (R70078)         Pharmacology III       4+1       4       3       (R70078)       3       3       (R70078)         Seminar / Industrial Visit       23       13       3       3       (R80080)       3         Pharmacology       1       3       3       13       3       3       (R80080)	026	Pharmaceutical Jurisprudence	41	4			
Total         23         18         15           R ISEMESTER         Subject         T         C         P         Code           Subject         T         T         C         P         Code           Pharmacognosy III         3+1         3         3         (R70075)           Biopharmaceutics and Pharmacokinetics         3+1         3         3         (R70076)           Pharmacology III         4+1         4         3         (R70078)           Medicinal Chemistry II         4+1         4         3         (R70078)           Pharmacology III         4+1         4         3         (R70078)           Medicinal Chemistry II         4+1         4         3         (R70078)           Pharmacy Administration         4+1         4         3         (R70078)           Seminar / Industrial Visit         23         18         12         1           Seminar / Industrial Visit         23         18         12         1           Seminar / Industrial Visit         3         3         (R70078)         1           Seminar / Industrial Visit         7         C         P         Code         1         1         3         3	690	Advanced Communication Skills Lab		•	en S		2
R I SEMESTER Subject T C P Code Pharmacognosy II 3+1 3 3 (R70075) Biopharmaceutics and Pharmacokinetics 3+1 3 3 (R70075) Pharmacology II 4+1 4 3 (R70075) Pharmacology II 4+1 4 3 (R70075) Pharmacy Administration 4+1 4 3 (R70075) Pharmacy Administration 23 18 12 7 Seminar / Industrial Visit 2 3 3 (R80080) Pharmaceutical Biolechnology 4+1 4 3 (R80080) Pharmaceutical Biolechnology 2 18 9 12 Clinical Pharmaceutical Analysis - II 10413 3 3 (R80080) Pharmaceutical Chemistry Pharmaceutical Analysis - II 10413 3 3 (R80080) Pharmaceutical Chemistry Pharmaceutical Analysis - II 10413 4 3 (R80080) Pharmaceutical Pharmaceutical Analysis - II 10413 3 3 (R80080) Pharmaceutical Pharmacey Pharmaceutical Analysis - II 10413 4 3 (R80080) Pharmaceutical Pharmacey Pharmaceutical Analysis - II 10413 4 3 3 (R80080) Pharmaceutical Pharmacey Pharmaceutical Analysis - II 10413 4 3 3 (R80080) Pharmaceutical Pharmacey Pharmaceutical Analysis - II 10413 4 3 4 4 5 5 4 4 5 5 6 6 7 7 5 6 6 7 7 7 7 7 7 7 7 7 7 7		Total	23	18	15		9
Subject     T     C     P     Code       Pharmacognosy II     3+1     3     (R70075)       Biopharmaceutics and Pharmacokinetics     3+1     3     3     (R70075)       Biopharmaceutics and Pharmacokinetics     3+1     3     3     (R70075)       Pharmacology II     4+1     4     3     (R70075)       Pharmacology II     4+1     4     3     (R70076)       Pharmacology II     4+1     4     3     (R70076)       Pharmacology II     4+1     4     3     (R70076)       Pharmacy Administration     4+1     4     3     (R70076)       Seminar / Industrial Visit     23     18     12        Subject     T     C     P     Code       Novel Drug Delivery Systems and Regulatory Affaird     3+1     3     3     (R80081)       Pharmaceutical Analysis - II     3+1     3     3     (R80081)       Pharmaceutical Analysis - II     3+1     4     -     -       Colincial Pharmacy Vitaird     3+1     3     3     (R80081)       Pharmaceutical Analysis - II     3+1     4     -     -       Clinical Pharmacy Vitaird     3+1     3     3     (R80081)       Pharmaceutica	'EAR	SEMESTER					
Pharmacognosy III         3+1         3         (R70075)           Biopharmaceutics and Pharmacokinetics         3+1         3         3         (R70075)           Pharmacology III         4+1         4         3         (R70077)           Medicinal Chemistry II         4+1         4         3         (R70078)           Pharmacology III         4+1         4         3         (R70077)           Medicinal Chemistry II         4+1         4         3         (R70078)           Pharmacy Administration         4+1         4         3         (R70078)           Pharmacy Administration         4+1         4         -         -           Seminar / Industrial Visit         -         -         -         -         -           Seminar / Industrial Visit         -         -         -         -         -         -           Seminar / Industrial Visit         -         -         23         18         12         -           Novel Drug Delivery Systems and Regulatory Affairef         3+1         3         3         (R80080)           Pharmaceutical Biotechnology         Pharmaceutical Biotechnology         4+1         4         -         -           Rovel Drug Drug Deli	e	Subject	F	v	•	Code	U
Biopharmaceutics and Pharmacokinetics         3+1         3         3         (R70076)           Pharmacology II         4+1         4         3         (R70078)           Medicinal Chemistry II         4+1         4         3         (R70078)           Pharmacology III         4+1         4         3         (R70078)           Pharmacy Administration         4+1         4         -         -           Seminar / Industrial Visit         -         -         -         -         -           Seminar / Industrial Visit         -         23         18         12         -           Novel Drug Delivery Systems and Regulatory Affairé         3+1         3         3         (R80080)           Pharmaceutical Biotechnology         4+1         4         -	027	Pharmacognosy III	3+1	3,	e	(R70075)	2
Pharmacology III     4+1     4     3     (R70077)       Medicinal Chemistry II     4+1     4     3     (R70078)       Pharmacy Administration     4+1     4     3     (R70078)       Pharmacy Administration     4+1     4     3     (R70078)       Seminar / Industrial Visit     23     18     2     7       Total     23     18     12     7       Subject     T     C     P     Code       Novel Drug Delivery Systems and Regulatory Affaird     3+1     3     3     (R80081)       Pharmaceutical Biotechnology     4+1     4     3     7     2       Novel Drug Delivery Systems and Regulatory Affaird     3+1     3     3     (R80081)       Pharmaceutical Analysis - II     3+1     3     3     (R80081)       Pharmaceutical Pharmaceutical Analysis - II     3+1     4     -     -       Clinical Pharmaceutical Analysis - II     3+1     4     -     -     -       Pharmaceutical Pharmaceutical Analysis - II     3+1     4     -     -     -       Clinical Pharmacy Practice     4+1     4     -     -     -     -       Project work** & Comprehensive Viva     -     -     -     -     -<	83	Biopharmaceutics and Pharmacokinetics	3+1	3	ŝ	(R70076)	2
Medicinal Chemistry II     4+1     4     3     (R70078)       Pharmacy Administration     4+1     4     -     -       Seminar / Industrial Visit     -     -     -     -       Seminar / Industrial Visit     -     -     -     -       Industrial Visit     -     -     -     -       Seminar / Industrial Visit     -     -     -     -       Industrial Visit     -     23     18     12       Subject     T     C     P     Code       Novel Drug Delivery Systems and Regulatory Affairs     3+1     3     3     (R80080)       Pharmaceutical Biotechnology     4+1     4     3     3     (R80082)       Pharmaceutical Analysis – II     3+1     3     3     (R80082)       Pharmaceutical Pharmacy Practice     4+1     4     -     -       Project workt* & Comprehensive Viva     -     -     -     -     -       Olinical Pharmacy I     22     18     9     -     -       Oficical Pharmacy / Pharmacology     -     -     -     -     -       Stated areas for project work.     1     22     18     9     -       Stated areas for project work.     -     - <td>029</td> <td>Pharmacology III</td> <td>4+1</td> <td>4</td> <td>က်</td> <td>(R70077)</td> <td>2</td>	029	Pharmacology III	4+1	4	က်	(R70077)	2
Pharmacy Ådministration       4+1       4       -         Seminar / Industrial Visit       -       -       -       -         Total       23       18       12       -         RI SEMESTER       23       18       12       -         All Seminar / Industrial Visit       -       -       -       -       -         RI SEMESTER       23       18       12       -       -       -       -         All Semester       7       7       7       7       7       7       8       -	8	Medicinal Chemistry II	4+1	4	S	(R70078)	2
Seminar / Industrial Visit       -	8	Pharmacy Administration	4+1	4	•		
Total     23     18     12       R II SEMESTER     23     18     12       Subject     T     C     P     Code       Novel Drug Delivery Systems and Regulatory Affaird     3+1     3     3     (R80080)       Pharmaceutical Biotechnology     4+1     4     3     3     (R80081)       Pharmaceutical Analysis – II     3+1     3     3     (R80081)       Pharmaceutical Analysis – II     3+1     3     3     (R80082)       Pharmaceutical Analysis – II     3+1     4     -     -       Clinical Pharmacy Practice     4+1     4     -     -       Project work** & Comprehensive Viva     -     -     -     -       Total     Total     22     18     9     -       Glinical Pharmacy / Pharmacology     2     18     9     -       Total     22     18     9     -     -       Seted areas for project work.     Industrial Pharmacy / Pharmacology     -     -     -       Glinical Pharmacy / Pharmacology     3     18     9     -     -	074	Seminar / Industrial Visit	•		•		2
R ISEMESTER         Subject       T       C       P       Code         Novel Drug Delivery Systems and Regulatory Affairs       3+1       3       3       (R80080)         Pharmaceutical Biotechnology       4+1       4       3       3       (R80081)         Pharmaceutical Analysis – II       3+1       3       3       (R80081)         Pharmaceutical Analysis – II       3+1       3       3       (R80082)         Pharmaceutical Analysis – II       3+1       3       3       (R80082)         Pharmaceutical Analysis – II       3+1       4       4       -         Clinical Pharmacy       4+1       4       -       -       -         Project work** & Comprehensive Viva       -		Total	23	18	12		9
Subject     T     C     P     Code       Novel Drug Delivery Systems and Regulatory Affairs     3+1     3     3     (R80080)       Pharmaceutical Biotechnology     4+1     4     3     (R80081)       Pharmaceutical Biotechnology     3+1     3     3     (R80082)       Human Values and Professional Ethics     4     4     -     -       Clinical Pharmacy Practice     4+1     4     -     -       Project work* & Comprehensive Viva     -     -     -     -       Iotal     22     18     9     -       ested areas for project work.     1.     Industrial Pharmacy / Pharmacology       2.     Clinical Pharmacy / Medical Chemistry     22     18     9       3.     A.     20     10     3     -	EAR	SEMESTER		ĺ			
Novel Drug Delivery Systems and Regulatory Affairé       3+1       3       (R80080)         Pharmaceutical Biotechnology       4+1       4       3       (R80082)         Pharmaceutical Analysis – II       3+1       3       3       (R80082)         Human Values and Professional Ethics       4       4       -       -         Project work* & Comprehensive Viva       4+1       4       -       -         Project work* & Comprehensive Viva       22       18       9       -         Jotal       22       18       9       -       -         Jested areas for project work.       1.       22       18       9       -         Jested areas for project work.       2.       18       9       -       -         Jotal       22       18       9       - <td>a</td> <td>Subject</td> <td>F</td> <td>J</td> <td>а.</td> <td>Code</td> <td>ပ</td>	a	Subject	F	J	а.	Code	ပ
Pharmaceutical Biotechnology       4+1       4       3       (R80081)         Pharmaceutical Analysis – II       3+1       3       3       (R80082)         Human Values and Professional Ethics       4       4       -       -         Clinical Pharmacy Practice       4+1       4       -       -         Project work** & Comprehensive Viva       -       -       -       -         Total       22       18       9       -       -         Gested areas for project work.       1.       Industrial Pharmacy       Pharmacology       -       -         1.       Industrial Pharmacy       22       18       9       -       -         3.       Pharmacognosy / Medical Chemistry       22       18       9       -       -         1.       Industrial Pharmacy       Pharmacology / Medical Chemistry       -       -       -       -       -         3.       Pharmacountreal Analysis / Quality Assurance       -       <	32	Novel Drug Delivery Systems and Regulatory Affairs	3+1	3.	3.	(R80080)	2
Pharmaceutical Analysis - II     3+1     3     3     (R80082)       Human Values and Professional Ethics     4     4     -       Clinical Pharmacy Practice     4+1     4     -       Project work** & Comprehensive Viva     -     -     -       Total     22     18     9       Project work**     22     18     9       Total     22     18     9       Performancy Instrial Pharmacy Pharmacology     2.     Clinical Pharmacy       Pharmacognosy / Medical Chemistry     2.     18     9	g	Pharmaceutical Biotechnology	4+1	4	3	(R80081)	2
Human Values and Professional Ethics       4       4       -         Clinical Pharmacy Practice       4+1       4       -         Project work* & Comprehensive Viva       -       -       -         Project work**       22       18       9         Industrial Pharmacy       22       18       9         Project work.       1.       Industrial Pharmacy       22       18       9         Jested areas for project work.       22       18       9       9         Jested areas for project work.       22       18       9       9         Jested areas for project work.       22       18       9       9         Jested areas for project work.       22       18       9       9         Jested areas for project work.       22       18       9       9         Jested areas for project work.       22       18       9       9         Jested areas for project work.       22       18       9       9         Harmacognosy / Medical Chemistry       2       10       4       10         Harmacoutcal Analysis / Quality Assurance       2       10       10       10	34	Pharmaceutical Analysis – II	3+1	ч С	3,	(R80082)	5
Clinical Pharmacy Practice       4+1       4       -         Project work* & Comprehensive Viva       -       -       -         Total       22       18       9         Jested areas for project work.       22       18       9         1.       Industrial Pharmacy       22       18       9         3.       Pharmacoulogy       2.       2.       1.         A.       Pharmacoulogy       2.       1.       2.         1.       Industrial Pharmacy       2.       1.       2.         2.       Clinical Pharmacy       2.       2.       2.         3.       Pharmacoulogy       2.       2.       2.         4.       Pharmaceutical Analysis / Quality Assurance       2.       2.       2.	35	Human Values and Professional Ethics	4	4			•
Project work** & Comprehensive Viva     -     -     -       Total     -     -     -     -       gested areas for project work.     22     18     9       1.     Industrial Pharmacy     2     18     9       2.     Clinical Pharmacy     2     18     9       3.     Pharmacognosy / Medical Chemistry       4.     Pharmaceutical Analysis / Quality Assurance	36	Clinical Pharmacy Practice	4+1	4	·	3	
Pharmacology tedical Chemistry titysis / Quality Assurance	179	Project work** & Comprehensive Viva			•		4
Pharmacology ledical Chemistry lysis / Quality Assurance		Total	22	₽	6		9
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