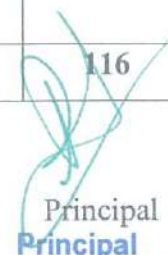


VISHNU INSTITUTE OF PHARMACEUTICAL EDUCATION & RESEARCH
NARSAPUR, MEDAK DIST. 502313

COURSES OFFERED IN UG & PG PROGRAMS

S.No.	Academic Year	Name of the Program	No. of Courses Offered	Total
1.	2020-21	B.Pharmacy	73	
		M.Pharmacy		
		Pharmaceutics	21	
		Pharmaceutical Analysis	21	
		Pharmacology	16	
		Total		
2.	2019-20	B.Pharmacy	77	
		M.Pharmacy		
		Pharmaceutics	20	
		Pharmaceutical Analysis	20	
		Total		
3.	2018-19	B.Pharmacy	79	
		M.Pharmacy		
		Pharmaceutics	20	
		Pharmaceutical Analysis	20	
		Total		
4.	2017-18	B.Pharmacy	79	
		M.Pharmacy		
		Pharmaceutics	20	
		Pharmaceutical Analysis	20	
		Total		
5.	2016-17	B.Pharmacy	76	
		M.Pharmacy		
		Pharmaceutics	20	
		Pharmaceutical Analysis	20	
		Total		


Principal

VISHNU INSTITUTE OF PHARMACEUTICAL EDUCATION & RESEARCH
NARSAPUR, MEDAK DIST. 502313

COURSES OFFERED FOR UG & PG PROGRAMS FOR THE ACADEMIC YEAR 2020-21

S.NO.	COURSE CODE	NAME OF THE SUBJECT
I YEAR I SEM. B. PHARMACY		
1	PS101	HUMAN ANATOMY AND PHYSIOLOGY I
2	PS102	PHARMACEUTICAL ANALYSIS I
3	PS103	PHARMACEUTICS I
4	PS104	PHARMACEUTICAL INORGANIC CHEMISTRY-I
5	HS105	COMMUNICATION SKILLS
6	BS106	REMEDIAL BIOLOGY
7	BS107	REMEDIAL MATHEMATICS
8	PS108	HUMAN ANATOMY AND PHYSIOLOGY-I LAB
9	PS109	PHARMACEUTICAL ANALYSIS-I LAB
10	PS110	PHARMACEUTICS I LAB
11	PS111	PHARMACEUTICAL INORGANIC CHEMISTRY-I LAB
12	HS112	COMMUNICATION SKILLS LAB
13	BS113	REMEDIAL BIOLOGY LAB
I YEAR II SEM. B. PHARMACY		
14	PS201	HUMAN ANATOMY AND PHYSIOLOGY II
15	PS202	PHARMACEUTICAL ORGANIC CHEMISTRY I
16	BS203	BIOCHEMISTRY
17	BS204	PATHOPHYSIOLOGY
18	CS205	COMPUTER APPLICATIONS IN PHARMACY
19	PS206	HUMAN ANATOMY AND PHYSIOLOGY II LAB
20	PS207	PHARMACEUTICAL ORGANIC CHEMISTRY I LAB
21	BS208	BIOCHEMISTRY LAB
22	CS209	COMPUTER APPLICATIONS IN PHARMACY LAB
23	*MC200 (MANDATORY COURSE)	NSS
II YEAR I SEM. B. PHARMACY		
24	PS301	PHARMACEUTICAL ORGANIC CHEMISTRY - II
25	PS302	PHYSICAL PHARMACEUTICS - I
26	BS303	PHARMACEUTICAL MICROBIOLOGY
27	PC304	PHARMACEUTICAL ENGINEERING
28	PS305	PHARMACEUTICAL ORGANIC CHEMISTRY - II LAB
29	PS306	PHYSICAL PHARMACEUTICS - I LAB
30	BS307	PHARMACEUTICAL MICROBIOLOGY LAB
31	PC308	PHARMACEUTICAL ENGINEERING LAB
32	*MC300	NSO
II YEAR II SEM. B. PHARMACY		
33	PS401	PHARMACEUTICAL ORGANIC CHEMISTRY - III
34	PC402	MEDICINAL CHEMISTRY - I
35	PS403	PHYSICAL PHARMACEUTICS - II
36	PC404	PHARMACOLOGY - I
37	PC405	PHARMACOGNOSY AND PHYTOCHEMISTRY - I
38	PC406	MEDICINAL CHEMISTRY - I LAB
39	PS407	PHYSICAL PHARMACEUTICS - II LAB


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40	PC408	PHARMACOLOGY - I LAB
41	PC409	PHARMACOGNOSY AND PHYTOCHEMISTRY - I LAB
42	*MC400	GENDER SENSITIZATION LAB
III YEAR I SEM. B. PHARMACY		
43	PS501	MEDICINAL CHEMISTRY - II
44	PS502	INDUSTRIAL PHARMACY - I
45	PS503	PHARMACOLOGY - II
46	PS504	PHARMACOGNOSY AND PHYTOCHEMISTRY - II
47	PS507	CELL AND MOLECULAR BIOLOGY
48	PS509	INDUSTRIAL PHARMACY LAB
49	PS510	PHARMACOLOGY - II LAB
50	PS511	PHARMACOGNOSY AND PHYTOCHEMISTRY - II LAB
51	*MC500	ENVIRONMENTAL SCIENCES
III YEAR II SEM. B. PHARMACY		
52	PS601	MEDICINAL CHEMISTRY - III
53	PS602	PHARMACOLOGY - III
54	PS603	HERBAL DRUG TECHNOLOGY
55	PS604	BIOPHARMACEUTICS AND PHARMACOKINETICS
56	PS605	PHARMACEUTICAL QUALITY ASSURANCE
57	PS609	MEDICINAL CHEMISTRY - III LAB
58	PS610	PHARMACOLOGY - III LAB
59	PS611	HERBAL DRUG TECHNOLOGY LAB
60	*MC600	HUMAN VALUES AND PROFESSIONAL ETHICS
IV YEAR I SEM. B. PHARMACY		
61	PS701	INSTRUMENTAL METHODS OF ANALYSIS
62	PS702	INDUSTRIAL PHARMACY - II
63	PS703	PHARMACY PRACTICE
64	PS704	NOVEL DRUG DELIVERY SYSTEMS
65	PS707	PHARMACOVIGILANCE
66	PS709	INSTRUMENTAL METHODS OF ANALYSIS LAB
67	PS710	PRACTICE SCHOOL
68	PS711	INDUSTRIAL TRAINING
IV YEAR II SEM. B. PHARMACY		
69	PS801	BIOSTATISTICS AND RESEARCH METHODOLOGY
70	PS802	SOCIAL AND PREVENTIVE PHARMACY
71	PS803	PHARMACEUTICAL JURISPRUDENCE
72	PS807	ADVANCED INSTRUMENTATION TECHNIQUES
73	PS808	PROJECT WORK
I YEAR I SEM. M. PHARMACY (PHARMACEUTICS)		
74	PROFESSIONAL CORE-I	MODERN PHARMACEUTICS-I
75	PROFESSIONAL CORE-II	APPLIED BIOPHARMACEUTICS AND PHARMACOKINETICS
76	PROFESSIONAL ELECTIVE-I	ADVANCED PHYSICAL PHARMACEUTICS
77	PROFESSIONAL ELECTIVE-II	COSMETICS AND COSMECEUTICALS
78		RESEARCH METHODOLOGY AND IPR
79	LABORATORY- I	MODERN PHARMACEUTICS - I LAB
80	LABORATORY- II	APPLIED BIOPHARMACEUTICS AND PHARMACOKINETICS LAB
81	AUDIT - I	AUDIT COURSE - I
I YEAR II SEM. M. PHARMACY (PHARMACEUTICS)		
82	PROFESSIONAL CORE-III	MODERN PHARMACEUTICS - II

83	PROFESSIONAL CORE-IV	ADVANCED DRUG DELIVERY SYSTEMS
84	PROFESSIONAL ELECTIVE-III	HERBAL COSMETICS
85	PROFESSIONAL ELECTIVE-IV	NUTRACEUTICALS
86	LABORATORY- III	MODERN PHARMACEUTICS – II LAB
87	LABORATORY- IV	ADVANCED DRUG DELIVERY SYSTEM LAB
88		MINI PROJECT WITH SEMINAR
89	AUDIT - II	AUDIT COURSE - II
I YEAR I SEM. M.PHARMACY (PHARMACEUTICAL ANALYSIS)		
90	PROFESSIONAL CORE-I	MODERN PHARMACEUTICAL ANALYTICAL TECHNIQUES
91	PROFESSIONAL CORE-II	PHARMACEUTICAL AND FOOD ANALYSIS
92	PROFESSIONAL ELECTIVE-I	ADVANCED PHARMACEUTICAL ANALYSIS
93	PROFESSIONAL ELECTIVE-II	COSMETICS AND COSMECEUTICALS
94		RESEARCH METHODOLOGY & IPR
95	LABORATORY-I	MODERN PHARMACEUTICAL ANALYTICAL TECHNIQUES LAB
96	LABORATORY-II	PHARMACEUTICAL AND FOOD ANALYSIS LAB
97	AUDIT - II	AUDIT COURSE - I
I YEAR II SEM. M.PHARMACY (PHARMACEUTICAL ANALYSIS)		
98	PROFESSIONAL CORE-III	ADVANCED INSTRUMENTAL ANALYSIS I
99	PROFESSIONAL CORE-IV	MODERN BIO-ANALYTICAL TECHNIQUES
100	PROFESSIONAL ELECTIVE-III	HERBAL COSMETICS
101	PROFESSIONAL ELECTIVE-IV	ADVANCED PHARMACEUTICAL ANALYSIS-II
102	LABORATORY-III	ADVANCED INSTRUMENTAL ANALYSIS I LAB
103	LABORATORY-IV	MODERN BIO ANALYTICAL TECHNIQUES LAB
104		MINI PROJECT WITH SEMINAR
105	AUDIT - II	AUDIT COURSE - II
I YEAR I SEM. M.PHARMACY (PHARMACOLOGY)		
106	PROFESSIONAL CORE-I	ADVANCED PHARMACOLOGY – I
107	PROFESSIONAL CORE-II	CLINICAL PHARMACOLOGY AND PHARMACOTHERAPEUTICS
108	PROFESSIONAL ELECTIVE-I	CLINICAL RESEARCH AND PHARMACOVIGILANCE
109	PROFESSIONAL ELECTIVE-II	PRINCIPLES OF TOXICOLOGY
110		RESEARCH METHODOLOGY AND IPR
111	LABORATORY-I	ADVANCED PHARMACOLOGY - I LAB
112	LABORATORY-II	CLINICAL PHARMACOLOGY AND PHARMACOTHERAPEUTICS LAB
113	AUDIT - I	AUDIT COURSE - I
I YEAR II SEM. M.PHARMACY (PHARMACOLOGY)		
114	PROFESSIONAL CORE-III	ADVANCED PHARMACOLOGY - II
115	PROFESSIONAL CORE-IV	PHARMACOLOGICAL SCREENING METHODS AND TOXICOLOGY
116	PROFESSIONAL ELECTIVE-III	QUALITY USE OF MEDICINES
117	PROFESSIONAL ELECTIVE-IV	PHARMACOKINETIC AND THERAPEUTIC DRUG MONITORING

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118	LABORATORY-III	ADVANCED PHARMACOLOGY – II LAB
119	LABORATORY-IV	PHARMACOLOGICAL SCREENING METHODS AND TOXICOLOGY LAB
120		MINI PROJECT WITH SEMINAR
121	AUDIT - II	AUDIT COURSE – II
II YEAR I SEM. M.PHARMACY (PHARMACEUTICS)		
122	PROFESSIONAL ELECTIVE-V	SCALE UP AND TECHNOLOGY TRANSFER
123	OPEN ELECTIVE	SCREENING METHODS IN PHARMACOLOGY
124	DISSERTATION	DISSERTATION WORK REVIEW - II
II YEAR II SEM. M.PHARMACY (PHARMACEUTICS)		
125	DISSERTATION	DISSERTATION WORK REVIEW - III
126	DISSERTATION	DISSERTATION VIVA-VOCE
II YEAR I SEM. M.PHARMACY (PHARMACEUTICAL ANALYSIS)		
127	PROFESSIONAL ELECTIVE-V	SCALEUP AND TRANSFER TECHNOLOGY
128	OPEN ELECTIVE	SCREENING METHODS IN PHARMACOLOGY
129	DISSERTATION	DISSERTATION
II YEAR II SEM. M.PHARMACY (PHARMACEUTICAL ANALYSIS)		
120	DISSERTATION	DISSERTATION WORK REVIEW - III
131	DISSERTATION	DISSERTATION VIVA-VOCE


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COURSES OFFERED FOR UG & PG PROGRAMS FOR THE ACADEMIC YEAR 2019-20

S.NO.	COURSE CODE	NAME OF THE SUBJECT
I YEAR I SEM. B. PHARMACY		
1	PS101	HUMAN ANATOMY AND PHYSIOLOGY I
2	PS102	PHARMACEUTICAL ANALYSIS I
3	PS103	PHARMACEUTICS I
4	PS104	PHARMACEUTICAL INORGANIC CHEMISTRY-I
5	HS105	COMMUNICATION SKILLS
6	BS106	REMEDIAL BIOLOGY
7	BS107	REMEDIAL MATHEMATICS
8	PS108	HUMAN ANATOMY AND PHYSIOLOGY-I LAB
9	PS109	PHARMACEUTICAL ANALYSIS-I LAB
10	PS110	PHARMACEUTICS I LAB
11	PS111	PHARMACEUTICAL INORGANIC CHEMISTRY-I LAB
12	HS112	COMMUNICATION SKILLS LAB
13	BS113	REMEDIAL BIOLOGY LAB
I YEAR II SEM. B. PHARMACY		
14	PS201	HUMAN ANATOMY AND PHYSIOLOGY II
15	PS202	PHARMACEUTICAL ORGANIC CHEMISTRY I
16	BS203	BIOCHEMISTRY
17	BS204	PATHOPHYSIOLOGY
18	CS205	COMPUTER APPLICATIONS IN PHARMACY
19	PS206	HUMAN ANATOMY AND PHYSIOLOGY II LAB
20	PS207	PHARMACEUTICAL ORGANIC CHEMISTRY I LAB
21	BS208	BIOCHEMISTRY LAB
22	CS209	COMPUTER APPLICATIONS IN PHARMACY LAB
23	*MC200 (MANDATORY COURSE)	NSS
II YEAR I SEM. B. PHARMACY		
24	PS301	PHARMACEUTICAL ORGANIC CHEMISTRY - II
25	PS302	PHYSICAL PHARMACEUTICS - I
26	BS303	PHARMACEUTICAL MICROBIOLOGY
27	PC304	PHARMACEUTICAL ENGINEERING
28	PS305	PHARMACEUTICAL ORGANIC CHEMISTRY - II LAB
29	PS306	PHYSICAL PHARMACEUTICS - I LAB
30	BS307	PHARMACEUTICAL MICROBIOLOGY LAB
31	PC308	PHARMACEUTICAL ENGINEERING LAB
32	*MC300	NSO
II YEAR II SEM. B. PHARMACY		
33	PS401	PHARMACEUTICAL ORGANIC CHEMISTRY - III
34	PC402	MEDICINAL CHEMISTRY - I
35	PS403	PHYSICAL PHARMACEUTICS - II
36	PC404	PHARMACOLOGY - I
37	PC405	PHARMACOGNOSY AND PHYTOCHEMISTRY - I
38	PC406	MEDICINAL CHEMISTRY - I LAB
39	PS407	PHYSICAL PHARMACEUTICS - II LAB


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40	PC408	PHARMACOLOGY - I LAB
41	PC409	PHARMACOGNOSY AND PHYTOCHEMISTRY - I LAB
42	*MC400	GENDER SENSITIZATION LAB
III YEAR I SEM. B. PHARMACY		
43	PS501	MEDICINAL CHEMISTRY - II
44	PS502	INDUSTRIAL PHARMACY - I
45	PS503	PHARMACOLOGY - II
46	PS504	PHARMACOGNOSY AND PHYTOCHEMISTRY - II
47	PS507	CELL AND MOLECULAR BIOLOGY
48	PS509	INDUSTRIAL PHARMACY LAB
49	PS510	PHARMACOLOGY - II LAB
50	PS511	PHARMACOGNOSY AND PHYTOCHEMISTRY - II LAB
51	*MC500	ENVIRONMENTAL SCIENCES
III YEAR II SEM. B. PHARMACY		
52	PS601	MEDICINAL CHEMISTRY - III
53	PS602	PHARMACOLOGY - III
54	PS603	HERBAL DRUG TECHNOLOGY
55	PS604	BIOPHARMACEUTICS AND PHARMACOKINETICS
56	PS605	PHARMACEUTICAL QUALITY ASSURANCE
57	PS609	MEDICINAL CHEMISTRY - III LAB
58	PS610	PHARMACOLOGY - III LAB
59	PS611	HERBAL DRUG TECHNOLOGY LAB
60	*MC600	HUMAN VALUES AND PROFESSIONAL ETHICS
IV YEAR I SEM. B. PHARMACY		
61	PS701	PHARMACEUTICAL ANALYSIS - II
62	PS702	BIOPHARMACEUTICS AND PHARMACOKINETICS
63	PS703	PHARMACOLOGY - III
64	PS704	MEDICINAL CHEMISTRY - II
65	HS705	PHARMACY ADMINISTRATION
66	PS706	PHARMACEUTICAL ANALYSIS - II LAB
67	PS707	BIOPHARMACEUTICS AND PHARMACOKINETICS LAB
68	PS708	MEDICINAL CHEMISTRY - II LAB
69	PS709	SEMINAR AND INDUSTRIAL VISIT
IV YEAR II SEM. B. PHARMACY		
70	PS801	NOVEL DRUG DELIVERY SYSTEMS
71	PS802	CLINICAL PHARMACY
72	PS803	PHARMACEUTICAL BIOTECHNOLOGY
73	PS804	PHARMACOGNOSY - III
74	PS805	NANO TECHNOLOGY
75	PS808	NOVEL DRUG DELIVERY SYSTEMS AND REGULATORY AFFAIRS LAB
76	PS809	PHARMACOGNOSY - III LAB
77	PS810	MAJOR PROJECT
I YEAR I SEM. M.PHARMACY (PHARMACEUTICS)		
78	PROFESSIONAL CORE-I	MODERN PHARMACEUTICS-I
79	PROFESSIONAL CORE-II	APPLIED BIOPHARMACEUTICS AND PHARMACOKINETICS
80	PROFESSIONAL ELECTIVE-I	ADVANCED PHYSICAL PHARMACEUTICS
81	PROFESSIONAL ELECTIVE-II	COSMETICS AND COSMECEUTICALS
82		RESEARCH METHODOLOGY AND IPR
83	LABORATORY - I	MODERN PHARMACEUTICS - I LAB

84	LABORATORY- II	APPLIED BIOPHARMACEUTICS AND PHARMACOKINETICS LAB
85	AUDIT - I	AUDIT COURSE - I
I YEAR II SEM. M.PHARMACY (PHARMACEUTICS)		
86	PROFESSIONAL CORE-III	MODERN PHARMACEUTICS - II
87	PROFESSIONAL CORE-IV	ADVANCED DRUG DELIVERY SYSTEMS
88	PROFESSIONAL ELECTIVE-III	HERBAL COSMETICS
89	PROFESSIONAL ELECTIVE-IV	NANO BASED DRUG DELIVERY SYSTEMS
90	LABORATORY- III	MODERN PHARMACEUTICS – II LAB
91	LABORATORY- IV	ADVANCED DRUG DELIVERY SYSTEM LAB
92		MINI PROJECT WITH SEMINAR
93	AUDIT - II	AUDIT COURSE - II
I YEAR I SEM. M.PHARMACY (PHARMACEUTICAL ANALYSIS)		
94	PROFESSIONAL CORE-I	MODERN PHARMACEUTICAL ANALYTICAL TECHNIQUES
95	PROFESSIONAL CORE-II	PHARMACEUTICAL AND FOOD ANALYSIS
96	PROFESSIONAL ELECTIVE-I	ADVANCED PHARMACEUTICAL ANALYSIS
97	PROFESSIONAL ELECTIVE-II	COSMETICS AND COSMECEUTICALS
98		RESEARCH METHODOLOGY & IPR
99	LABORATORY-I	MODERN PHARMACEUTICAL ANALYTICAL TECHNIQUES LAB
100	LABORATORY-II	PHARMACEUTICAL AND FOOD ANALYSIS LAB
101	AUDIT - II	AUDIT COURSE - I
I YEAR II SEM. M.PHARMACY (PHARMACEUTICAL ANALYSIS)		
102	PROFESSIONAL CORE-III	ADVANCED INSTRUMENTAL ANALYSIS I
103	PROFESSIONAL CORE-IV	MODERN BIO-ANALYTICAL TECHNIQUES
104	PROFESSIONAL ELECTIVE-III	HERBAL COSMETICS
105	PROFESSIONAL ELECTIVE-IV	ADVANCED INSTRUMENTAL ANALYSIS-II
106	LABORATORY-III	ADVANCED INSTRUMENTAL ANALYSIS I LAB
107	LABORATORY-IV	MODERN BIO ANALYTICAL TECHNIQUES LAB
108		MINI PROJECT WITH SEMINAR
109	AUDIT - II	AUDIT COURSE - II
II YEAR I SEM. M.PHARMACY (PHARMACEUTICS)		
110		COMPREHENSIVE VIVA VOCE
111		PROJECT WORK REVIEW I
II YEAR II SEM. M.PHARMACY (PHARMACEUTICS)		
112		PROJECT WORK REVIEW II
113		PROJECT EVALUATION (VIVA VOCE)
II YEAR I SEM. M.PHARMACY (PHARMACEUTICAL ANALYSIS)		
114		COMPREHENSIVE VIVA VOCE
115		PROJECT WORK REVIEW I
II YEAR II SEM. M.PHARMACY (PHARMACEUTICAL ANALYSIS)		
116		PROJECT WORK REVIEW II
117		PROJECT EVALUATION (VIVA VOCE)


 PRINCIPAL
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NARSAPUR, MEDAK DIST. 502313**

COURSES OFFERED FOR UG & PG PROGRAMS FOR THE ACADMEIC YEAR 2018-19

S.NO.	COURSE CODE	NAME OF THE SUBJECT
I YEAR I SEM. B. PHARMACY		
1	PS101	HUMAN ANATOMY AND PHYSIOLOGY I
2	PS102	PHARMACEUTICAL ANALYSIS I
3	PS103	PHARMACEUTICS I
4	PS104	PHARMACEUTICAL INORGANIC CHEMISTRY-I
5	HS105	COMMUNICATION SKILLS
6	BS106	REMEDIAL BIOLOGY
7	BS107	REMEDIAL MATHEMATICS
8	PS108	HUMAN ANATOMY AND PHYSIOLOGY-I LAB
9	PS109	PHARMACEUTICAL ANALYSIS-I LAB
10	PS110	PHARMACEUTICS I LAB
11	PS111	PHARMACEUTICAL INORGANIC CHEMISTRY-I LAB
12	HS112	COMMUNICATION SKILLS LAB
13	BS113	REMEDIAL BIOLOGY LAB
I YEAR II SEM. B. PHARMACY		
14	PS201	HUMAN ANATOMY AND PHYSIOLOGY II
15	PS202	PHARMACEUTICAL ORGANIC CHEMISTRY I
16	BS203	BIOCHEMISTRY
17	BS204	PATHOPHYSIOLOGY
18	CS205	COMPUTER APPLICATIONS IN PHARMACY
19	PS206	HUMAN ANATOMY AND PHYSIOLOGY II LAB
20	PS207	PHARMACEUTICAL ORGANIC CHEMISTRY I LAB
21	BS208	BIOCHEMISTRY LAB
22	CS209	COMPUTER APPLICATIONS IN PHARMACY LAB
23	*MC200 (MANDATORY COURSE)	NSS
II YEAR I SEM. B. PHARMACY		
24	PS301	PHARMACEUTICAL ORGANIC CHEMISTRY - II
25	PS302	PHYSICAL PHARMACEUTICS - I
26	BS303	PHARMACEUTICAL MICROBIOLOGY
27	PC304	PHARMACEUTICAL ENGINEERING
28	PS305	PHARMACEUTICAL ORGANIC CHEMISTRY - II LAB
29	PS306	PHYSICAL PHARMACEUTICS - I LAB
30	BS307	PHARMACEUTICAL MICROBIOLOGY LAB
31	PC308	PHARMACEUTICAL ENGINEERING LAB
32	*MC300	NSO
II YEAR II SEM. B. PHARMACY		
33	PS401	PHARMACEUTICAL ORGANIC CHEMISTRY - III
34	PC402	MEDICINAL CHEMISTRY - I
35	PS403	PHYSICAL PHARMACEUTICS - II
36	PC404	PHARMACOLOGY - I
37	PC405	PHARMACOGNOSY AND PHYTOCHEMISTRY - I
38	PC406	MEDICINAL CHEMISTRY - I LAB

39	PS407	PHYSICAL PHARMACEUTICS - II LAB
40	PC408	PHARMACOLOGY - I LAB
41	PC409	PHARMACOGNOSY AND PHYTOCHEMISTRY - I LAB
42	*MC400	GENDER SENSITIZATION LAB
III YEAR I SEM. B. PHARMACY		
43	PS501	PHARMACEUTICAL MICROBIOLOGY
44	PS502	PHARMACEUTICAL TECHNOLOGY - I
45	PS503	PHARMACOLOGY - I
46	PS504	PHARMACOGNOSY - II
47	PS505	DRUG REGULATORY AFFAIRS
48	PS508	PHARMACEUTICAL MICROBIOLOGY LAB
49	PS509	PHARMACEUTICAL TECHNOLOGY - I LAB
50	PS510	PHARMACOLOGY - I LAB
51	*MC500	PROFESSIONAL ETHICS
III YEAR II SEM. B. PHARMACY		
52	PS601	MEDICINAL CHEMISTRY - I
53	PS602	PHARMACEUTICAL TECHNOLOGY - II
54	PS603	PHARMACOLOGY - II
55	PS604	CHEMISTRY OF NATURAL PRODUCTS
56	PS607	SCREENING METHODS IN PHARMACOLOGY
57	PS608	MEDICINAL CHEMISTRY - I LAB
58	PS609	PHARMACEUTICAL TECHNOLOGY - II LAB
59	PS610	PHARMACOLOGY - II LAB
60	HS611	ADVANCED ENGLISH COMMUNICATION SKILLS LAB
IV YEAR I SEM. B. PHARMACY		
61	R70027	PHARMACOGNOSY-III
62	R70028	BIOPHARMACEUTICS AND PHARMACOKINETICS
63	R70029	PHARMACOLOGY-III
64	R70030	MEDICINAL CHEMISTRY-II
65	R70031	PHARMACY ADMINISTRATION
66	R70074	SEMINAR / INDUSTRIAL VISIT
67	R70075	PHARMACOGNOSY-III- LAB
68	R70076	BIOPHARMACEUTICS AND PHARMACOKINETICS- LAB
69	R70077	PHARMACOLOGY-III- LAB
70	R70078	MEDICINAL CHEMISTRY-II- LAB
IV YEAR II SEM. B. PHARMACY		
71	R80032	NOVEL DRUG DELIVERY SYSTEMS AND REGULATORY AFFAIRS
72	R80033	PHARMACEUTICAL BIOTECHNOLOGY
73	R80034	PHARMACEUTICAL ANALYSIS-II
74	R80035	HUMAN VALUES AND PROFESSIONAL ETHICS
75	R80036	CLINICAL PHARMACY PRACTICE
76	R80079	PROJECT WORK & COMPREHENSIVE VIVA
77	R80080	NOVEL DRUG DELIVERY SYSTEMS AND REGULATORY AFFAIRS -LAB
78	R80081	PHARMACEUTICAL BIOTECHNOLOGY- LAB
79	R80082	PHARMACEUTICAL ANALYSIS-II -LAB
I YEAR I SEM. M.PHARMACY (PHARMACEUTICS)		
80	CORE COURSE I	ADVANCED PHYSICAL PHARMACEUTICS
81	CORE COURSE II	MODERN PHARMACEUTICS-I
82	CORE COURSE III	APPLIED BIOPHARMACEUTICS AND PHARMACOKINETICS
83	CORE ELECTIVE I	MODERN PHARMACEUTICAL ANALYTICAL TECHNIQUES
84	OPEN ELECTIVE I	DRUG REGULATORY AFFAIRS
85	LABORATORY I	ADVANCED PHYSICAL PHARMACEUTICS LAB
86	LABORATORY II	APPLIED BIOPHARMACEUTICS AND PHARMACOKINETICS LAB

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87	SEMINAR I	SEMINAR
I YEAR II SEM. M.PHARMACY (PHARMACEUTICS)		
88	CORE COURSE IV	ADVANCED DRUG DELIVERY SYSTEMS
89	CORE COURSE V	INDUSTRIAL PHARMACY
90	CORE COURSE VI	MODERN PHARMACEUTICS-II
91	CORE ELECTIVE II	STABILITY OF DRUGS AND DOSAGE FORMS
92	OPEN ELECTIVE II	SCREENING METHODS IN PHARMACOLOGY
93	LABORATORY III	ADVANCED DRUG DELIVERY SYSTEMS LAB
94	LABORATORY IV	MODERN PHARMACEUTICS LAB
95	SEMINAR II	SEMINAR
I YEAR I SEM. M.PHARMACY (PHARMACEUTICAL ANALYSIS & QUALITY ASSURANCE)		
96	CORE COURSE I	ADVANCED PHARMACEUTICAL ANALYSIS
97	CORE COURSE II	FOOD ANALYSIS
98	CORE COURSE III	MODERN PHARMACEUTICAL ANALYTICAL TECHNIQUES
99	CORE ELECTIVE I	INTELLECTUAL PROPERTY RIGHTS
100	OPEN ELECTIVE I	DRUG REGULATORY AFFAIRS
101	LABORATORY I	MODERN PHARMACEUTICAL ANALYTICAL TECHNIQUES LAB
102	LABORATORY II	ADVANCED PHARMACEUTICAL ANALYSIS LAB
103	SEMINAR I	SEMINAR
I YEAR II SEM. M.PHARMACY (PHARMACEUTICAL ANALYSIS & QUALITY ASSURANCE)		
104	CORE COURSE IV	ADVANCED INSTRUMENTAL ANALYSIS
105	CORE COURSE V	QUALITY CONTROL AND QUALITY ASSURANCE
106	CORE COURSE VI	MODERN BIO ANALYTICAL TECHNIQUES
107	CORE ELECTIVE II	SPECTRAL ANALYSIS
108	OPEN ELECTIVE II	SCREENING METHODS IN PHARMACOLOGY
109	LABORATORY III	ADVANCED INSTRUMENTAL ANALYSIS LAB
110	LABORATORY IV	QUALITY CONTROL AND QUALITY ASSURANCE LAB
111	SEMINAR II	SEMINAR
II YEAR I SEM. M.PHARMACY (PHARMACEUTICS)		
112		COMPREHENSIVE VIVA VOCE
113		PROJECT WORK REVIEW 1
II YEAR II SEM. M.PHARMACY (PHARMACEUTICS)		
114		PROJECT WORK REVIEW II
115		PROJECT EVALUATION (VIVA VOCE)
II YEAR I SEM. M.PHARMACY (PHARMACEUTICAL ANALYSIS)		
116		COMPREHENSIVE VIVA VOCE
117		PROJECT WORK REVIEW 1
II YEAR II SEM. M.PHARMACY (PHARMACEUTICAL ANALYSIS)		
118		PROJECT WORK REVIEW II
119		PROJECT EVALUATION (VIVA VOCE)


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**VISHNU INSTITUTE OF PHARMACEUTICAL EDUCATION & RESEARCH
NARSAPUR, MEDAK DIST. 502313**

COURSES OFFERED FOR UG & PG PROGRAMS FOR THE ACADMEIC YEAR 2017-18

S.NO.	COURSE CODE	NAME OF THE SUBJECT
I YEAR I SEM. B. PHARMACY		
1	PS101	HUMAN ANATOMY AND PHYSIOLOGY I
2	PS102	PHARMACEUTICAL ANALYSIS I
3	PS103	PHARMACEUTICS I
4	PS104	PHARMACEUTICAL INORGANIC CHEMISTRY-I
5	HS105	COMMUNICATION SKILLS
6	BS106	REMEDIAL BIOLOGY
7	BS107	REMEDIAL MATHEMATICS
8	PS108	HUMAN ANATOMY AND PHYSIOLOGY-I LAB
9	PS109	PHARMACEUTICAL ANALYSIS-I LAB
10	PS110	PHARMACEUTICS I LAB
11	PS111	PHARMACEUTICAL INORGANIC CHEMISTRY-I LAB
12	HS112	COMMUNICATION SKILLS LAB
13	BS113	REMEDIAL BIOLOGY LAB
I YEAR II SEM. B. PHARMACY		
14	PS201	HUMAN ANATOMY AND PHYSIOLOGY II
15	PS202	PHARMACEUTICAL ORGANIC CHEMISTRY I
16	BS203	BIOCHEMISTRY
17	BS204	PATHOPHYSIOLOGY
18	CS205	COMPUTER APPLICATIONS IN PHARMACY
19	PS206	HUMAN ANATOMY AND PHYSIOLOGY II LAB
20	PS207	PHARMACEUTICAL ORGANIC CHEMISTRY I LAB
21	BS208	BIOCHEMISTRY LAB
22	CS209	COMPUTER APPLICATIONS IN PHARMACY LAB
23	*MC200 (MANDATORY COURSE)	NSS
II YEAR I SEM. B. PHARMACY		
24	PS301	PHARMACEUTICAL ORGANIC CHEMISTRY - III
25	PS302	PHARMACEUTICAL UNIT OPERATIONS - I
26	PS303	HOSPITAL AND COMMUNITY PHARMACY
27	PS304	PHARMACOGNOSY - I
28	PS305	PHARMACEUTICAL ANALYSIS - I
29	PS306	PHARMACEUTICAL ORGANIC CHEMISTRY - III LAB
30	PS307	PHARMACOGNOSY - I LAB
31	PS308	PHARMACEUTICAL ANALYSIS - I LAB
32	*MC309 (MANDATORY COURSE)	ENVIRONMENTAL SCIENCE AND TECHNOLOGY
II YEAR II SEM. B. PHARMACY		
33	PS401	PHARMACEUTICAL UNIT OPERATIONS - II
34	BS402	BIOCHEMISTRY
35	PS403	PHARMACEUTICAL JURISPRUDENCE
36	PS404	PHYSICAL PHARMACY - II


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37	OE (PS405)	HERBAL DRUGS TECHNOLOGY
38	PS406	PHARMACEUTICAL UNIT OPERATIONS - II LAB
39	BS407	BIOCHEMISTRY LAB
40	PS408	PHYSICAL PHARMACY - II LAB
41	*MC409	GENDER SENSITIZATION LAB
III YEAR I SEM. B. PHARMACY		
42	R50017	PHARMACEUTICAL ANALYSIS-I
43	R50018	PHARMACEUTICAL MICROBIOLOGY
44	R50019	PHARMACOGNOSY-II
45	R50020	PHARMACEUTICAL TECHNOLOGY-I
46	R50021	PHARMACOLOGY-I
47	R50065	PHARMACEUTICAL ANALYSIS-I- LAB
48	R50066	PHARMACEUTICAL MICROBIOLOGY- LAB
49	R50067	PHARMACOGNOSY-II- LAB
50	R50068	PHARMACEUTICAL TECHNOLOGY-I- LAB
III YEAR II SEM. B. PHARMACY		
51	R60022	MEDICINAL CHEMISTRY-I
52	R60023	PHARMACEUTICAL TECHNOLOGY-II
53	R60024	PHARMACOLOGY-II
54	R60025	CHEMISTRY OF NATURAL PRODUCTS
55	R60026	PHARMACEUTICAL JURISPRUDENCE
56	R60069	ADVANCED COMMUNICATION SKILLS LAB
57	R60070	MEDICINAL CHEMISTRY-I- LAB
58	R60071	PHARMACEUTICAL TECHNOLOGY-II- LAB
59	R60072	PHARMACOLOGY-II- LAB
60	R60073	CHEMISTRY OF NATURAL PRODUCTS- LAB
IV YEAR I SEM. B. PHARMACY		
61	R70027	PHARMACOGNOSY-III
62	R70028	BIOPHARMACEUTICS AND PHARMACOKINETICS
63	R70029	PHARMACOLOGY-III
64	R70030	MEDICINAL CHEMISTRY-II
65	R70031	PHARMACY ADMINISTRATION
66	R70074	SEMINAR / INDUSTRIAL VISIT
67	R70075	PHARMACOGNOSY-III- LAB
68	R70076	BIOPHARMACEUTICS AND PHARMACOKINETICS- LAB
69	R70077	PHARMACOLOGY-III- LAB
70	R70078	MEDICINAL CHEMISTRY-II- LAB
IV YEAR II SEM. B. PHARMACY		
71	R80032	NOVEL DRUG DELIVERY SYSTEMS AND REGULATORY AFFAIRS
72	R80033	PHARMACEUTICAL BIOTECHNOLOGY
73	R80034	PHARMACEUTICAL ANALYSIS-II
74	R80035	HUMAN VALUES AND PROFESSIONAL ETHICS
75	R80036	CLINICAL PHARMACY PRACTICE
76	R80079	PROJECT WORK & COMPREHENSIVE VIVA
77	R80080	NOVEL DRUG DELIVERY SYSTEMS AND REGULATORY AFFAIRS - LAB
78	R80081	PHARMACEUTICAL BIOTECHNOLOGY- LAB
79	R80082	PHARMACEUTICAL ANALYSIS-II -LAB
I YEAR I SEM. M.PHARMACY (PHARMACEUTICS)		
80	CORE COURSE I	ADVANCED PHYSICAL PHARMACEUTICS
81	CORE COURSE II	MODERN PHARMACEUTICS-I
82	CORE COURSE III	APPLIED BIOPHARMACEUTICS AND PHARMACOKINETICS
83	CORE ELECTIVE I	MODERN PHARMACEUTICAL ANALYTICAL TECHNIQUES

84	OPEN ELECTIVE I	DRUG REGULATORY AFFAIRS
85	LABORATORY I	ADVANCED PHYSICAL PHARMACEUTICS LAB
86	LABORATORY II	APPLIED BIOPHARMACEUTICS AND PHARMACOKINETICS LAB
87	SEMINAR I	SEMINAR
I YEAR II SEM. M.PHARMACY (PHARMACEUTICS)		
88	CORE COURSE IV	ADVANCED DRUG DELIVERY SYSTEMS
89	CORE COURSE V	INDUSTRIAL PHARMACY
90	CORE COURSE VI	MODERN PHARMACEUTICS-II
91	CORE ELECTIVE II	STABILITY OF DRUGS AND DOSAGE FORMS
92	OPEN ELECTIVE II	SCREENING METHODS IN PHARMACOLOGY
93	LABORATORY III	ADVANCED DRUG DELIVERY SYSTEMS LAB
94	LABORATORY IV	MODERN PHARMACEUTICS LAB
95	SEMINAR II	SEMINAR
I YEAR I SEM. M.PHARMACY (PHARMACEUTICAL ANALYSIS & QUALITY ASSURANCE)		
96	CORE COURSE I	ADVANCED PHARMACEUTICAL ANALYSIS
97	CORE COURSE II	FOOD ANALYSIS
98	CORE COURSE III	MODERN PHARMACEUTICAL ANALYTICAL TECHNIQUES
99	CORE ELECTIVE I	INTELLECTUAL PROPERTY RIGHTS
100	OPEN ELECTIVE I	DRUG REGULATORY AFFAIRS
101	LABORATORY I	MODERN PHARMACEUTICAL ANALYTICAL TECHNIQUES LAB
102	LABORATORY II	ADVANCED PHARMACEUTICAL ANALYSIS LAB
103	SEMINAR I	SEMINAR
I YEAR II SEM. M.PHARMACY (PHARMACEUTICAL ANALYSIS & QUALITY ASSURANCE)		
104	CORE COURSE IV	ADVANCED INSTRUMENTAL ANALYSIS
105	CORE COURSE V	QUALITY CONTROL AND QUALITY ASSURANCE
106	CORE COURSE VI	MODERN BIO ANALYTICAL TECHNIQUES
107	CORE ELECTIVE II	SPECTRAL ANALYSIS
108	OPEN ELECTIVE II	SCREENING METHODS IN PHARMACOLOGY
109	LABORATORY III	ADVANCED INSTRUMENTAL ANALYSIS LAB
110	LABORATORY IV	QUALITY CONTROL AND QUALITY ASSURANCE LAB
111	SEMINAR II	SEMINAR
II YEAR I SEM. M.PHARMACY (PHARMACEUTICS)		
112		COMPREHENSIVE VIVA-VOCE
113		PROJECT WORK REVIEW I
II YEAR II SEM. M.PHARMACY (PHARMACEUTICS)		
114		PROJECT WORK REVIEW II
115		PROJECT EVALUATION (VIVA-VOCE)
II YEAR I SEM. M.PHARMACY (PHARMACEUTICAL ANALYSIS & QUALITY ASSURANCE)		
116		COMPREHENSIVE VIVA-VOCE
117		PROJECT WORK REVIEW I
II YEAR II SEM. M.PHARMACY (PHARMACEUTICAL ANALYSIS & QUALITY ASSURANCE)		
118		PROJECT WORK REVIEW II
119		PROJECT EVALUATION (VIVA-VOCE)


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NARSAPUR, MEDAK DIST. 502313**

COURSES OFFERED FOR UG & PG PROGRAMS FOR THE ACADMEIC YEAR 2016-17

S.NO.	COURSE CODE	NAME OF THE SUBJECT
I YEAR I SEM. B. PHARMACY		
1	BS101	REMEDIAL MATHEMATICS
2	BS102	REMEDIAL BIOLOGY - I
3	PS103	DISPENSING AND GENERAL PHARMACY
4	PS104	ANATOMY, PHYSIOLOGY AND HEALTH EDUCATION – I
5	PS105	PHARMACEUTICAL ORGANIC CHEMISTRY – I
6	HS106	PROFESSIONAL COMMUNICATION IN ENGLISH
7	PS107	DISPENSING AND GENERAL PHARMACY LAB
8	PS108	ANATOMY, PHYSIOLOGY AND HEALTH EDUCATION – I LAB
9	BS109	PHARMACEUTICAL ORGANIC CHEMISTRY – I LAB
10	BS110	REMEDIAL BIOLOGY - I LAB
11	*MC111	NSS
I YEAR II SEM. B. PHARMACY		
12	BS201	PHARMACEUTICAL INORGANIC CHEMISTRY
13	BS202	PHARMACEUTICAL ORGANIC CHEMISTRY – II
14	BS203	PHYSICAL PHARMACY - I
15	BS204	STATISTICAL METHODS AND COMPUTER APPLICATIONS
16	BS205	ANATOMY, PHYSIOLOGY AND HEALTH EDUCATION – II
17	BS206	PHARMACEUTICAL INORGANIC CHEMISTRY LAB
18	BS207	STATISTICAL METHODS AND COMPUTER APPLICATIONS LAB
19	PS208	PHYSICAL PHARMACY – I LAB
20	MC209	PHYSICAL EDUCATION
II YEAR I SEM. B. PHARMACY		
21	R30007	PHARMACEUTICAL UNIT OPERATIONS-I
22	R30008	PHARMACEUTICAL ORGANIC CHEMISTRY-II
23	R30009	STATISTICAL METHODS & COMPUTER APPLICATIONS-
24	R30010	PHYSICAL PHARMACY-I
25	R30011	ANATOMY, PHYSIOLOGY AND PATHOPHYSIOLOGY
26	R30057	PHARMACEUTICAL ORGANIC CHEMISTRY-II- LAB
27	R30058	STATISTICAL METHODS & COMPUTER APPLICATIONS-- LAB
28	R30059	PHYSICAL PHARMACY-I- LAB
29	R30060	ANATOMY, PHYSIOLOGY AND PATHOPHYSIOLOGY- LAB
II YEAR II SEM. B. PHARMACY		
30	R40012	PHARMACEUTICAL UNIT OPERATIONS-II
31	R40013	PHARMACEUTICAL BIOCHEMISTRY
32	R40014	PHARMACOGNOSY-I
33	R40015	PHYSICAL PHARMACY-II
34	R40016	ENVIROMENTAL STUDIES
35	R40061	PHARMACEUTICAL UNIT OPERATIONS-II- LAB
36	R40062	PHARMACEUTICAL BIOCHEMISTRY- LAB
37	R40063	PHARMACOGNOSY-I- LAB
38	R40064	PHYSICAL PHARMACY-II- LAB
III YEAR I SEM. B. PHARMACY		
39	R50017	PHARMACEUTICAL ANALYSIS-I


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40	R50018	PHARMACEUTICAL MICROBIOLOGY
41	R50019	PHARMACOGNOSY-II
42	R50020	PHARMACEUTICAL TECHNOLOGY-I
43	R50021	PHARMACOLOGY-I
44	R50065	PHARMACEUTICAL ANALYSIS-I- LAB
45	R50066	PHARMACEUTICAL MICROBIOLOGY- LAB
46	R50067	PHARMACOGNOSY-II- LAB
47	R50068	PHARMACEUTICAL TECHNOLOGY-I- LAB
III YEAR II SEM. B. PHARMACY		
48	R60022	MEDICINAL CHEMISTRY-I
49	R60023	PHARMACEUTICAL TECHNOLOGY-II
50	R60024	PHARMACOLOGY-II
51	R60025	CHEMISTRY OF NATURAL PRODUCTS
52	R60026	PHARMACEUTICAL JURISPRUDENCE
53	R60069	ADVANCED COMMUNICATION SKILLS LAB
54	R60070	MEDICINAL CHEMISTRY-I- LAB
55	R60071	PHARMACEUTICAL TECHNOLOGY-II- LAB
56	R60072	PHARMACOLOGY-II- LAB
57	R60073	CHEMISTRY OF NATURAL PRODUCTS- LAB
IV YEAR I SEM. B. PHARMACY		
58	R70027	PHARMACOGNOSY-III
59	R70028	BIOPHARMACEUTICS AND PHARMACOKINETICS
60	R70029	PHARMACOLOGY-III
61	R70030	MEDICINAL CHEMISTRY-II
62	R70031	PHARMACY ADMINISTRATION
63	R70074	SEMINAR / INDUSTRIAL VISIT
64	R70075	PHARMACOGNOSY-III- LAB
65	R70076	BIOPHARMACEUTICS AND PHARMACOKINETICS- LAB
66	R70077	PHARMACOLOGY-III- LAB
67	R70078	MEDICINAL CHEMISTRY-II- LAB
IV YEAR II SEM. B. PHARMACY		
68	R80032	NOVEL DRUG DELIVERY SYSTEMS AND REGULATORY AFFAIRS
69	R80033	PHARMACEUTICAL BIOTECHNOLOGY
70	R80034	PHARMACEUTICAL ANALYSIS-II
71	R80035	HUMAN VALUES AND PROFESSIONAL ETHICS
72	R80036	CLINICAL PHARMACY PRACTICE
73	R80079	PROJECT WORK & COMPREHENSIVE VIVA
74	R80080	NOVEL DRUG DELIVERY SYSTEMS AND REGULATORY AFFAIRS -LAB
75	R80081	PHARMACEUTICAL BIOTECHNOLOGY- LAB
76	R80082	PHARMACEUTICAL ANALYSIS-II -LAB
I YEAR I SEM. M.PHARMACY (PHARMACEUTICS)		
77	CORE COURSE I	APPLIED BIOPHARMACEUTICS AND PHARMACOKINETICS
78	CORE COURSE II	ADVANCED PHYSICAL PHARMACEUTICS
79	CORE COURSE III	ADVANCED PHARMACEUTICAL TECHNOLOGY -I
80	CORE ELECTIVE I	MODERN PHARMACEUTICAL ANALYTICAL TECHNIQUE
81	OPEN ELECTIVE I	DRUG REGULATORY AFFAIRS (NATIONAL & INTERNATIONAL)
82	LABORATORY I	MODERN PHARMACEUTICAL ANALYTICAL TECHNIQUES LAB
83	LABORATORY II	ADVANCED PHYSICAL PHARMACEUTICS LAB
84	SEMINAR I	SEMINAR
I YEAR II SEM. M.PHARMACY (PHARMACEUTICS)		
85	CORE COURSE IV	ADVANCED DRUG DELIVERY SYSTEMS
86	CORE COURSE V	INDUSTRIAL PHARMACY
87	CORE COURSE VI	ADVANCED PHARMACEUTICAL TECHNOLOGY II


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88	CORE ELECTIVE II	SCREENING METHODS & CLINICAL RESEARCH
89	OPEN ELECTIVE II	NANO BASED DRUG DELIVERY SYSTEMS
90	LABORATORY III	ADVANCED DRUG DELIVERY SYSTEMS LAB
91	LABORATORY IV	ADVANCED PHARMACEUTICAL TECHNOLOGY LAB
92	SEMINAR II	SEMINAR
I YEAR I SEM. M.PHARMACY (PHARMACEUTICAL ANALYSIS & QUALITY ASSURANCE)		
93	CORE COURSE I	SEPARATION TECHNIQUES
94	CORE COURSE II	ADVANCED PHARMACEUTICAL ANALYSIS – I
95	CORE COURSE III	QUALITY CONTROL OF BULK DRUGS AND FORMULATIONS
96	CORE ELECTIVE I	MODERN PHARMACEUTICAL ANALYTICAL TECHNIQUE
97	OPEN ELECTIVE I	DRUG REGULATORY AFFAIRS (NATIONAL AND INTERNATIONAL)
98	LABORATORY I	MODERN PHARMACEUTICAL ANALYTICAL TECHNIQUES LAB
99	LABORATORY II	ADVANCED PHARMACEUTICAL ANALYSIS-I LAB
100	SEMINAR I	SEMINAR
I YEAR II SEM. M.PHARMACY (PHARMACEUTICAL ANALYSIS & QUALITY ASSURANCE)		
101	CORE COURSE IV	ADVANCED PHARMACEUTICAL ANALYSIS – II
102	CORE COURSE V	SPECTRAL ANALYSIS
103	CORE COURSE VI	QUALITY ASSURANCE
104	CORE ELECTIVE II	SCREENING METHODS & CLINICAL RESEARCH
105	OPEN ELECTIVE II	NANOBASED DRUG DELIVERY SYSTEMS
106	LABORATORY III	ADVANCED PHARMACEUTICAL ANALYSIS – II LAB
107	LABORATORY IV	SPECTRAL ANALYSIS LAB
108	SEMINAR II	SEMINAR
II YEAR I SEM. M.PHARMACY (PHARMACEUTICS)		
109		COMPREHENSIVE VIVA-VOCE
110		PROJECT WORK REVIEW I
II YEAR II SEM. M.PHARMACY (PHARMACEUTICS)		
111		PROJECT WORK REVIEW II
112		PROJECT EVALUATION (VIVA-VOCE)
II YEAR I SEM. M.PHARMACY (PHARMACEUTICAL ANALYSIS & QUALITY ASSURANCE)		
113		COMPREHENSIVE VIVA-VOCE
114		PROJECT WORK REVIEW I
II YEAR II SEM. M.PHARMACY (PHARMACEUTICAL ANALYSIS & QUALITY ASSURANCE)		
115		PROJECT WORK REVIEW II
116		PROJECT EVALUATION (VIVA-VOCE)

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2020-21

**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 [#] / Remedial Mathematics [§]	2 [#] /3 [§]	-	-	2 [#] /3 [§]
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
		Total	16/17	4	20	26[#]/26[§]

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

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

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	-	-	-	-
		Total	16	4	14	23

*MC - Mandatory Course - Satisfactory/ Unsatisfactory.

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

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
		Total Credits	12	04	17	24

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
		Total Credits	16	05	16	28

*MC-Satisfactory/Dissatisfactory

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B. PHARMACY III YEAR COURSE STRUCTURE AND SYLLABUS

Effective from Academic Year 2017-18 Admitted Batch

III Year I Semester

S. No.	Course Code	Course Title	L	T	P	Credits
1	PS501	Medicinal Chemistry II	3	1	0	4
2	PS502	Industrial Pharmacy - I	3	1	0	4
3	PS503	Pharmacology II	3	1	0	4
4	PS504	Pharmacognosy and Phytochemistry - II	3	1	0	4
5		Open Elective - I	3	1	0	4
	PS505	I. Generic Product Development				
	PS506	II. Green Chemistry				
	PS507	III. Cell and Molecular Biology				
	PS508	IV. Cosmetic science				
6	PS509	Industrial Pharmacy lab	0	0	4	2
7	PS510	Pharmacology - II lab	0	0	4	2
8	PS511	Pharmacognosy and Phytochemistry - II lab	0	0	4	2
9	*MC500	Environmental sciences	1	0	0	0
		Total	16	05	12	26

III Year II Semester

S. No.	Course Code	Course Title	L	T	P	Credits
1	PS601	Medicinal Chemistry - III	3	1	0	4
2	PS602	Pharmacology - III	3	1	0	4
3	PS603	Herbal Drug Technology	3	1	0	4
4	PS604	Biopharmaceutics and Pharmacokinetics	3	1	0	4
5		Open Elective - II	3	1	0	4
	PS605	I. Pharmaceutical Quality Assurance				
	PS606	II. Pharmaceutical Biotechnology				
	PS607	III. Bioinformatics				
	PS608	IV. Screening Methods in Pharmacology				
6	PS609	Medicinal chemistry - III lab	0	0	4	2
7	PS610	Pharmacology - III lab	0	0	4	2
8	PS611	Herbal Drug Technology lab	0	0	4	2
9	*MC600	Human Values and Professional Ethics	1	0	0	0
		Total	16	05	12	26


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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B. PHARMACY IV YEAR COURSE STRUCTURE AND SYLLABUS

Effective from Academic Year 2017-18 Admitted Batch

IV Year I Semester

S.No	Course Code	Course Title	L	T	P	Credits
1	PS701	Instrumental Methods of Analysis	3	1	0	4
2	PS702	Industrial Pharmacy-II	3	1	0	4
3	PS703	Pharmacy Practice	3	1	0	4
4	PS704	Novel Drug Delivery Systems	3	1	0	4
5		Open Elective - III	3	1	0	4
	PS705	i. Pharmaceutical Marketing				
	PS706	ii. Pharmaceutical Regulatory Science				
	PS707	iii. Pharmacovigilance				
	PS708	iv. Quality Control and Standardization of Herbals				
6	PS709	Instrumental Methods of Analysis Lab	0	0	4	2
7	PS710	Practice School	0	0	4	2
8	PS711	Industrial Training	0	0	2	1
		Total	15	5	10	25

IV Year II Semester

S.No	Course Code	Course Title	L	T	P	Credits
1	PS801	Biostatistics and Research Methodology	3	1	0	4
2	PS802	Social and Preventive Pharmacy	3	1	0	4
3	PS803	Pharmaceutical Jurisprudence	3	0	0	3
4		Open Elective - IV	3	1	0	4
	PS804	i. Computer Aided Drug Design				
	PS805	ii. Nano Technology				
	PS806	iii. Experimental Pharmacology				
	PS807	iv. Advanced Instrumentation Techniques				
5	PS808	Project Work	0	0	6	3
		Total	12	3	6	18


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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

M.PHARMACY (PHARMACEUTICS / PHARMACEUTICAL TECHNOLOGY)

COURSE STRUCTURE AND SYLLABUS

Effective from Academic Year 2019-20 Admitted Batch

I YEAR I Semester

Course Code	Course Title	L	T	P	Credits
Professional Core-I	Modern Pharmaceutics-I	3	0	0	3
Professional Core-II	Applied Biopharmaceutics and Pharmacokinetics	3	0	0	3
Professional Elective-I	1. Advanced Physical Pharmaceutics 2. Drug Regulatory affairs 3. Total Quality Management	3	0	0	3
Professional Elective-II	1. Cosmetics and Cosmeceuticals 2. Pharmaceutical Validation 3. Stability of Drugs and Dosage Forms	3	0	0	3
	Research methodology and IPR	2	0	0	2
Laboratory- I	Modern Pharmaceutics – I Lab	0	0	4	2
Laboratory- II	Applied Biopharmaceutics and Pharmacokinetics Lab	0	0	4	2
Audit - I	Audit Course - I	2	0	0	0
	TOTAL	16	0	8	18

I YEAR II Semester

Course Code	Course Title	L	T	P	Credits
Professional Core-III	Modern Pharmaceutics - II	3	0	0	3
Professional Core-IV	Advanced Drug Delivery Systems	3	0	0	3
Professional Elective-III	1. Industrial Pharmacy 2. Herbal Cosmetics 3. Pharmaceutical Management	3	0	0	3
Professional Elective-IV	1. Nano based Drug Delivery Systems 2. Nutraceuticals 3. Clinical Research and Pharmacovigilance	3	0	0	3
Laboratory- III	Modern Pharmaceutics – II Lab	0	0	4	2
Laboratory- IV	Advanced Drug Delivery System Lab	0	0	4	2
	Mini Project with Seminar	2	0	0	2
Audit - II	Audit Course - II	2	0	0	0
	TOTAL	16	0	8	18


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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

M.PHARMACY (PHARMACEUTICAL ANALYSIS)

R19 COURSE STRUCTURE AND SYLLABUS
Effective from Academic Year 2019-20 Admitted Batch

I YEAR I Semester

Course Code	Course Title	L	T	P	Credits
Professional Core-I	Modern Pharmaceutical Analytical Techniques	3	0	0	3
Professional Core-II	Pharmaceutical and Food Analysis	3	0	0	3
Professional Elective-I	1. Advanced Pharmaceutical Analysis 2. Drug Regulatory Affairs 3. Phytochemistry	3	0	0	3
Professional Elective-II	1. Quality control and Quality Assurance 2. Cosmetics and Cosmeceuticals 3. Stability of Drugs and Dosage forms	3	0	0	3
	Research Methodology & IPR	2	0	0	2
Laboratory-I	Modern Pharmaceutical Analytical Techniques lab	0	0	4	2
Laboratory-II	Pharmaceutical and food Analysis Lab	0	0	4	2
Audit - II	Audit course - I	2	0	0	0
	TOTAL	16	0	8	18

I YEAR II Semester

Course Code	Course Title	L	T	P	Credits
Professional Core-III	Advanced Instrumental Analysis I	3	0	0	3
Professional Core-IV	Modern Bio-analytical Techniques	3	0	0	3
Professional Elective-III	1. Pharmaceutical Validation 2. Herbal Cosmetics 3. Pharmacoepidemiology and Pharmacoeconomics	3	0	0	3
Professional Elective-IV	1. Advanced Instrumental Analysis - II 2. Nutraceuticals 3. Clinical Research and Pharmacovigilance	3	0	0	3
Laboratory-III	Advanced Instrumental Analysis I Lab	0	0	4	2
Laboratory-IV	Modern Bio analytical Techniques Lab	0	0	4	2
	Mini Project with Seminar	2	0	0	2
Audit - II	Audit Course - II	2	0	0	0
	TOTAL	16	0	8	18



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M.PHARMACY (PHARMACOLOGY)

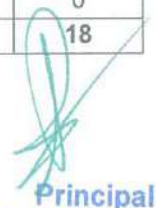
COURSE STRUCTURE AND SYLLABUS
Effective from Academic Year 2019-20 Admitted Batch

I YEAR I Semester

Course Code	Course Title	L	T	P	Credits
Professional Core-I	Advanced Pharmacology – I	3	0	0	3
Professional Core-II	Clinical Pharmacology and Pharmacotherapeutics	3	0	0	3
Professional Elective-I	1. Pharmacokinetics and Drug Metabolism 2. Clinical Research and Pharmacovigilance 3. Principles of Drug Discovery	3	0	0	3
Professional Elective-II	1. Animal Cell Cultures and Applications 2. Molecular Biology 3. Principles of Toxicology	3	0	0	3
	Research Methodology and IPR	2	0	0	2
Laboratory-I	Advanced Pharmacology - I Lab	0	0	4	2
Laboratory-II	Clinical Pharmacology and Pharmacotherapeutics Lab	0	0	4	2
Audit - I	Audit Course - I	2	0	0	0
	TOTAL	16	0	8	18

I YEAR II Semester

Course Code	Course Title	L	T	P	Credits
Professional Core-III	Advanced Pharmacology - II	3	0	0	3
Professional Core-IV	Pharmacological Screening Methods and Toxicology	3	0	0	3
Professional Elective-III	1. Quality Use of Medicines 2. Pharmacoepidemiology and Pharmacoeconomics 3. Advanced Drug Delivery Systems	3	0	0	3
Professional Elective-IV	1. Pharmaceutical Management 2. Nutraceuticals 3. Pharmacokinetic and Therapeutic Drug Monitoring	3	0	0	3
Laboratory-III	Advanced Pharmacology – II Lab	0	0	4	2
Laboratory-IV	Pharmacological Screening Methods and Toxicology lab	0	0	4	2
	Mini project with Seminar	2	0	0	2
Audit - II	Audit Course – II	2	0	0	0
	TOTAL	16	0	8	18



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II YEAR I Semester

Course Code	Course Title	L	T	P	Credits
Professional Elective-V	1. Biostatistics	3	0	0	3
	2. Scale up and Technology Transfer				
	3. Production area, Design and Packaging Development				
Open Elective	Open Elective	3	0	0	3
Dissertation	Dissertation Work Review - II	0	0	12	6
	TOTAL	6	0	12	12

II YEAR II Semester

Course Code	Course Title	L	T	P	Credits
Dissertation	Dissertation Work Review - III	0	0	12	6
Dissertation	Dissertation Viva-Voce	0	0	28	14
	TOTAL	0	0	40	20

*For Dissertation Work Review - I, Please refer 7.8 in R19 Academic Regulations.

Audit Courses I & II:

1. English for Research Paper Writing
2. Disaster Management
3. Sanskrit for Technological Learning
4. Value Education
5. Constitution of India
6. Pedagogy Studies
7. Stress Management by Yoga
8. Personality Development through Life Enlightenment Skills


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II YEAR I Semester

Course Code	Course Title	L	T	P	Credits
Professional Elective-V	1. Biostatistics	3	0	0	3
	2. Scale up and Technology Transfer				
	3. Production Area Design and Packaging Development				
Open Elective	Open Elective	3	0	0	3
Dissertation	Dissertation Work Review - II	0	0	12	6
	Total	6	0	12	12

II YEAR II SEMESTER

Course Code	Course Title	L	T	P	Credits
Dissertation	Dissertation Work Review - III	0	0	12	6
Dissertation	Dissertation Viva-Voce	0	0	28	14
	Total	0	0	40	20

*For Dissertation Work Review - I, Please refer 7.8 in R19 Academic Regulations.

Audit Courses I & II:

1. English for Research Paper Writing
2. Disaster Management
3. Sanskrit for Technological Learning
4. Value Education
5. Constitution of India
6. Pedagogy Studies
7. Stress Management by Yoga
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R19 M. PHARMACY LIST OF OPEN ELECTIVES

Pharmacy Practice	Pharmaceutical Regulatory Affairs	Industrial Pharmacy	Pharmaceutical Chemistry	Pharmaceutics/ Pharmaceutical Technology	Pharmaceutical Quality Assurance	Pharmacology	Pharmaceutical Analysis
<ol style="list-style-type: none"> 1. Cosmeticology 2. Pharmaceutical Administration 3. Hazards and Safety management 4. Project Management 5. Audits and regulatory compliance 	<ol style="list-style-type: none"> 1. Screening methods in pharmacology 2. Entrepreneurship Management 3. Cosmetic science 4. Hazards and Safety management 5. Audits and regulatory compliance 	<ol style="list-style-type: none"> 1. Screening methods in pharmacology 2. Entrepreneurship Management 3. Cosmetic science 4. Hazards and Safety management 5. Audits and regulatory compliance 	<ol style="list-style-type: none"> 1. Entrepreneurship Management 2. Hazards and Safety management 3. Audits and regulatory compliance 4. Pharmaceutical validation 5. Nutraceuticals 	<ol style="list-style-type: none"> 1. Screening methods in pharmacology 2. Entrepreneurship Management 3. Cosmetic science 4. Hazards and Safety management 5. Audits and regulatory compliance 	<ol style="list-style-type: none"> 1. Entrepreneurship Management 2. Cosmetic Science 3. Nutraceuticals 4. Nano Based Drug Delivery Systems 5. Pharmacoepidemiology and Pharmacoeconomics 	<ol style="list-style-type: none"> 1. Cosmeticology 2. Pharmaceutical Administration 3. Drug Regulatory affairs 4. Project Management 5. Audits and regulatory compliance 	<ol style="list-style-type: none"> 1. Screening Methods in Pharmacology 2. Entrepreneurship Management 3. Cosmetic Science 4. Hazards and Safety Management 5. Audits and Regulatory Compliance



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2019-20

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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 [#] / Remedial Mathematics [§]	2 [#] /3 [§]	-	-	2 [#] /3 [§]
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
Total			16/17	4	20	26[#]/26[§]

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

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

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	-	-	-	-
Total			16	4	14	23

*MC - Mandatory Course - Satisfactory/ Unsatisfactory.

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

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
		Total Credits	12	04	17	24

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
		Total Credits	16	05	16	28

*MC-Satisfactory/Dissatisfactory



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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B. PHARMACY III YEAR COURSE STRUCTURE AND SYLLABUS

Effective from Academic Year 2017-18 Admitted Batch

III Year I Semester

S. No.	Course Code	Course Title	L	T	P	Credits
1	PS501	Medicinal Chemistry II	3	1	0	4
2	PS502	Industrial Pharmacy - I	3	1	0	4
3	PS503	Pharmacology II	3	1	0	4
4	PS504	Pharmacognosy and Phytochemistry - II	3	1	0	4
5	PS505 PS506 PS507 PS508	Open Elective - I I. Generic Product Development II. Green Chemistry III. Cell and Molecular Biology IV. Cosmetic science	3	1	0	4
6	PS509	Industrial Pharmacy lab	0	0	4	2
7	PS510	Pharmacology - II lab	0	0	4	2
8	PS511	Pharmacognosy and Phytochemistry - II lab	0	0	4	2
9	*MC500	Environmental sciences	1	0	0	0
Total			16	05	12	26

III Year II Semester

S. No.	Course Code	Course Title	L	T	P	Credits
1	PS601	Medicinal Chemistry - III	3	1	0	4
2	PS602	Pharmacology - III	3	1	0	4
3	PS603	Herbal Drug Technology	3	1	0	4
4	PS604	Biopharmaceutics and Pharmacokinetics	3	1	0	4
5	PS605 PS606 PS607 PS608	Open Elective - II I. Pharmaceutical Quality Assurance II. Pharmaceutical Biotechnology III. Bioinformatics IV. Screening Methods in Pharmacology	3	1	0	4
6	PS609	Medicinal chemistry - III lab	0	0	4	2
7	PS610	Pharmacology - III lab	0	0	4	2
8	PS611	Herbal Drug Technology lab	0	0	4	2
9	*MC600	Human Values and Professional Ethics	1	0	0	0
Total			16	05	12	26


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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B.PHARM. IV YEAR COURSE STRUCTURE & SYLLABUS (R16)

Applicable From 2016-17 Admitted Batch

IV Year I Semester

S. No.	Course Code	Course Title	L	T	P	Credits
1	PS701	Pharmaceutical Analysis – II	4	1	0	4
2	PS702	Biopharmaceutics and Pharmacokinetics	4	1	0	4
3	PS703	Pharmacology - III	3	1	0	3
4	PS704	Medicinal Chemistry – II	4	1	0	4
5	HS705	Pharmacy Administration	3	1	0	3
6	PS706	Pharmaceutical Analysis – II Lab	0	0	3	2
7	PS707	Biopharmaceutics and Pharmacokinetics Lab	0	0	3	2
8	PS708	Medicinal Chemistry – II Lab	0	0	3	2
9	PS709	Seminar and Industrial visit	0	0	2	1
Total			18	5	11	25

IV Year II Semester

S. No.	Course Code	Course Title	L	T	P	Credits
1	PS801	Novel Drug Delivery Systems	3	1	0	3
2	PS802	Clinical Pharmacy	3	1	0	3
3	PS803	Pharmaceutical Biotechnology	3	1	0	3
4	PS804	Pharmacognosy – III	3	1	0	3
5		Open Elective - III	3	1	0	3
	PS805	1. Nano Technology				
	PS806	2. Pharmacoepidemiology, Pharmacoeconomics and pharmacovigilance				
	PS807	3. Medicinal Plant Biotechnology				
6	PS808	Novel Drug Delivery Systems and Regulatory Affairs Lab	0	0	3	2
7	PS809	Pharmacognosy – III Lab	0	0	3	2
8	PS810	Major Project	0	0	10	5
Total			15	5	16	24


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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

M.PHARMACY (PHARMACEUTICS / PHARMACEUTICAL TECHNOLOGY)

COURSE STRUCTURE AND SYLLABUS

Effective from Academic Year 2019-20 Admitted Batch

I YEAR I Semester

Course Code	Course Title	L	T	P	Credits
Professional Core-I	Modern Pharmaceutics-I	3	0	0	3
Professional Core-II	Applied Biopharmaceutics and Pharmacokinetics	3	0	0	3
Professional Elective-I	1. Advanced Physical Pharmaceutics 2. Drug Regulatory affairs 3. Total Quality Management	3	0	0	3
Professional Elective-II	1. Cosmetics and Cosmeceuticals 2. Pharmaceutical Validation 3. Stability of Drugs and Dosage Forms	3	0	0	3
	Research methodology and IPR	2	0	0	2
Laboratory- I	Modern Pharmaceutics – I Lab	0	0	4	2
Laboratory- II	Applied Biopharmaceutics and Pharmacokinetics Lab	0	0	4	2
Audit - I	Audit Course - I	2	0	0	0
	TOTAL	16	0	8	18

I YEAR II Semester

Course Code	Course Title	L	T	P	Credits
Professional Core-III	Modern Pharmaceutics - II	3	0	0	3
Professional Core-IV	Advanced Drug Delivery Systems	3	0	0	3
Professional Elective-III	1. Industrial Pharmacy 2. Herbal Cosmetics 3. Pharmaceutical Management	3	0	0	3
Professional Elective-IV	1. Nano based Drug Delivery Systems 2. Nutraceuticals 3. Clinical Research and Pharmacovigilance	3	0	0	3
Laboratory- III	Modern Pharmaceutics – II Lab	0	0	4	2
Laboratory- IV	Advanced Drug Delivery System Lab	0	0	4	2
	Mini Project with Seminar	2	0	0	2
Audit - II	Audit Course - II	2	0	0	0
	TOTAL	16	0	8	18


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M.PHARMACY (PHARMACEUTICAL ANALYSIS)

R19 COURSE STRUCTURE AND SYLLABUS
Effective from Academic Year 2019-20 Admitted Batch

I YEAR I Semester

Course Code	Course Title	L	T	P	Credits
Professional Core-I	Modern Pharmaceutical Analytical Techniques	3	0	0	3
Professional Core-II	Pharmaceutical and Food Analysis	3	0	0	3
Professional Elective-I	1. Advanced Pharmaceutical Analysis 2. Drug Regulatory Affairs 3. Phytochemistry	3	0	0	3
Professional Elective-II	1. Quality control and Quality Assurance 2. Cosmetics and Cosmeceuticals 3. Stability of Drugs and Dosage forms	3	0	0	3
	Research Methodology & IPR	2	0	0	2
Laboratory-I	Modern Pharmaceutical Analytical Techniques lab	0	0	4	2
Laboratory-II	Pharmaceutical and food Analysis Lab	0	0	4	2
Audit - II	Audit course - I	2	0	0	0
	TOTAL	16	0	8	18

I YEAR II Semester

Course Code	Course Title	L	T	P	Credits
Professional Core-III	Advanced Instrumental Analysis I	3	0	0	3
Professional Core-IV	Modern Bio-analytical Techniques	3	0	0	3
Professional Elective-III	1. Pharmaceutical Validation 2. Herbal Cosmetics 3. Pharmacoepidemiology and Pharmacoconomics	3	0	0	3
Professional Elective-IV	1. Advanced Instrumental Analysis - II 2. Nutraceuticals 3. Clinical Research and Pharmacovigilance	3	0	0	3
Laboratory-III	Advanced Instrumental Analysis I Lab	0	0	4	2
Laboratory-IV	Modern Bio analytical Techniques Lab	0	0	4	2
	Mini Project with Seminar	2	0	0	2
Audit - II	Audit Course - II	2	0	0	0
	TOTAL	16	0	8	18


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Pharmaceutics

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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Ph. Analysis

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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[Type text]

2018-19

**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 [#] / Remedial Mathematics [§]	2 [#] /3 [§]	-	-	2 [#] /3 [§]
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
		Total	16/17	4	20	26[#]/26[§]

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

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

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	-	-	-	-
		Total	16	4	14	23

*MC - Mandatory Course - Satisfactory/ Unsatisfactory.

[Type text]


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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

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
		Total Credits	12	04	17	24

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
		Total Credits	16	05	16	28

*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	PS505 PS506 MS507	Open Elective - II Drug Regulatory Affairs Active Pharmaceutical Ingredient Process Development Entrepreneurship and Small Business Enterprises	3	0	0	3
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

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 PS606 PS607	Open Elective - III Generic Product Development Drug Design and Discovery Screening Methods in Pharmacology	3	0	0	3
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
	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
5. Pharmaceutical Marketing

The candidates have to undergo industrial visit during 4th year and submit report

T - Theory periods per week.

P - Practical Periods per week.

C - Credits

+1 - Tutorials



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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

M. Pharmacy (PHARMACEUTICS / PHARMACEUTICAL TECHNOLOGY)

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 Pharmacoeconomics 2. Drug Regulatory Affairs 3. Herbal Cosmetic 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
Total Credits				20	16	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	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
Total Credits				20	16	28

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

M. Pharmacy (PHARMACEUTICAL ANALYSIS & 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 Pharmacoeconomics 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
Total Credits				20	16	28

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
Total Credits				20	16	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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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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2017-18

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 [#] / Remedial Mathematics [§]	2 [#] /3 [§]	-	-	2 [#] /3 [§]
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
		Total	16/17	4	20	26[#]/26[§]

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

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

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	-	-	-	-
		Total	16	4	14	23

*MC - Mandatory Course - Satisfactory/ Unsatisfactory.

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. PHARMACY COURSE STRUCTURE (2016-17)

II YEAR I SEMESTER

S. No	Course Code	Subject	L	T	P	Credits
1	PS301	Pharmaceutical Organic Chemistry – III	4	1	0	4
2	PS302	Pharmaceutical Unit Operations – I	4	1	0	4
3	PS303	Hospital and Community Pharmacy	3	1	0	3
4	PS304	Pharmacognosy – I	3	1	0	3
5	PS305	Pharmaceutical Analysis – I	4	1	0	4
6	PS306	Pharmaceutical Organic Chemistry – III Lab	0	0	3	2
7	PS307	Pharmacognosy – I Lab	0	0	3	2
8	PS308	Pharmaceutical Analysis – I Lab	0	0	3	2
9	*MC309	Environmental Science and Technology	3	0	0	0
		Total	21	5	9	24

II YEAR II SEMESTER

S. No	Course Code	Subject	L	T	P	Credits
1	PS401	Pharmaceutical Unit Operations - II	4	1	0	4
2	BS402	Biochemistry	3	1	0	3
3	PS403	Pharmaceutical Jurisprudence	4	1	0	4
4	PS404	Physical Pharmacy – II	4	1	0	4
5	OE	HS405: Intellectual Property Rights PS405: Herbal Drugs Technology BS405: Green Chemistry	3	0	0	3
6	PS406	Pharmaceutical Unit Operations – II Lab	0	0	3	2
7	BS407	Biochemistry Lab	0	0	3	2
8	PS408	Physical Pharmacy – II Lab	0	0	3	2
9	*MC409	Gender Sensitization Lab	0	0	3	0
		Total	18	4	12	24

*MC – Mandatory Course


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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	3	(R50069)	2
	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
5. Pharmaceutical Marketing

The candidates have to undergo industrial visit during 4th year and submit report

T - Theory periods per week.

C - Credits

P - Practical Periods per week

+1 - Tutorials



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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

M. Pharmacy (PHARMACEUTICS) / PHARMACEUTICAL TECHNOLOGY

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 Pharmacoeconomics 2. Drug Regulatory Affairs 3. Herbal Cosmetic 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
Total Credits				20	16	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	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
Total Credits				20	16	28

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

M. Pharmacy (PHARMACEUTICAL ANALYSIS & 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 Pharmacoeconomics 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
Total Credits				20	16	28

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
Total Credits				20	16	28

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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. 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, Pharmacoeconomics 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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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, Pharmacoconomics 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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2016-17

With effect from 02/08/2016

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. PHARMACY COURSE STRUCTURE (2016-17)

I YEAR I SEMESTER

S. No	Course Code	Subject	L	T	P	Credits
1	BS101/ BS102	Remedial Mathematics / Remedial Biology - I	4/ 2	1/ 1	0	4/ 2
2	PS103	Dispensing and General Pharmacy	4	1	0	4
3	PS104	Anatomy, Physiology and Health Education – I	3	1	0	3
4	BS105	Pharmaceutical Organic Chemistry – I	4	1	0	4
5	HS106	Professional Communication in English	3	0	0	3
6	PS107	Dispensing and General Pharmacy Lab	0	0	3	2
7	PS108	Anatomy, Physiology and Health Education – I Lab	0	0	3	2
8	BS109	Pharmaceutical Organic Chemistry – I Lab	0	0	3	2
9	BS110	Remedial Biology - I Lab	0	0	3	2
10	*MC111	NSS	0	0	0	0
		Total Credits	18/16	4/4	12	24/24

I YEAR II SEMESTER

S. No	Course Code	Subject	L	T	P	Credits
1	BS201	Pharmaceutical Inorganic Chemistry	3	1	0	3
2	BS202	Pharmaceutical Organic Chemistry – II	4	1	0	4
3	PS203	Physical Pharmacy - I	4	1	0	4
4	BS204	Statistical Methods and Computer Applications	3	1	0	3
5	PS205	Anatomy, Physiology and Health Education – II	4	1	0	4
6	BS206	Pharmaceutical Inorganic Chemistry Lab	0	0	3	2
7	BS207	Statistical Methods and Computer applications Lab	0	0	3	2
8	PS208	Physical Pharmacy – I Lab	0	0	3	2
9	*MC209	Physical Education	0	0	0	0
		Total Credits	18	5	9	24

Note: For Bi.P.C Students to choose Remedial Mathematics (Theory).

For M.P.C Students to choose Remedial Biology (Theory: 2-1-0-2, Lab: 0-0-3-2)

*Mandatory Course

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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	3	(R50069)	2
	Total	25	20	12		8

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
5. Pharmaceutical Marketing

The candidates have to undergo Industrial visit during 4th year and submit report.

T - Theory periods per week.

P - Practical Periods per week.

C - Credits

+1 - Tutorials



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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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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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