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

Effective from Academic Year 2017-19 Admitted Batch

III Year I Semester

S. No.	Course Code	Course Title	L	Т	P	Credits
1	PS501	Medicinal Chemistry II	3	1	0	4
2	PS502	Industrial Pharmacy - I	3	11	10	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	Т	Р	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 Total	1 16	0 05	0 12	0 26

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	Course Title	L	Т	Р	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	PS705 PS706 PS707 PS708	Open Elective - III i. Pharmaceutical Marketing Pharmaceutical Regulatory Science Pharmacovigilance iv. Quality Control and Standardization of Herbals	3	1	0	4
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

S.No	Course	Course Title	L	Т	Р	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	PS804 PS805 PS806 PS807	i. Computer Aided Drug Design ii. Nano Technology iii. Experimental Pharmacology Advanced Instrumentation Techniques	3	1	0	4
5	PS808	Project Work	0	0	6	3
		Total	12	3	6	18

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	Т	Р	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	Т	Р	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

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	Course Title	L	Т	Р	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
	, 5700	Total	18	5	11	25

S. No.	Course	Course Title	L	Т	Р	Credits
4	PS801	Novel Drug Delivery Systems	3	1	0	3
1_			3	1	0	3
2	PS802	Clinical Pharmacy Pharmaceutical Biotechnology	3	1	0	3
3	PS803 PS804	Pharmacognosy – III	3	1	0	3
5	PS805 PS806 PS807	Open Elective - III 1. Nano Technology 2. Pharmacoepidemiology, Pharmacoeconomics and pharmacovigilance 3. Medicinal Plant Biotechnology	3	1	0	3
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
0	1 30 10	Total	15	5	16	24

R19 M.PHARM PHARMACEUTICS/PHARMACEUTICAL TECHNOLOGY

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

M.PHARMACY (PHARMACEUTICS / PHARMACEUTICAL TECHNOLOGY)

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-l	Modern Pharmaceutics-I	3	0	0	3
Professional Core-II	Applied Biopharmaceutics and Pharmacokinetics	3	0	0	3
Professional Elective-I	Advanced Physical Pharmaceutics Drug Regulatory affairs Total Quality Management	3	0	0	3
Professional Elective-II	Cosmetics and Cosmeceuticals Pharmaceutical Validation Stability of Drugs and Dosage Forms	3	0	0	3
MC	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	Audit Course-1 - English	2	0	0	0
	TOTAL	16	0	8	18

Course Code	Course Title	L	Т	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	Industrial Pharmacy Herbal Cosmetics Pharmaceutical Management	3	0	0	3
Professional Elective-IV	Nano based Drug Delivery Systems Nutraceuticals 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	Audit Course-II 7 - Porso rulity Dove	2	0	0	0
	Total	16	0	8	18

R19 M.PHARM PHARMACEUTICAL ANALYSIS

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

M.PHARMACY (PHARMACEUTICAL ANALYSIS)

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

I YEAR I Semester

Course Code	Course Titl		Т	Р	Credits
Professional Core-I	Course Title Modern Pharmaceutical Analytical Techniques	3	0	0	3
Professional Core-II	Pharmaceutical and Food Analysis	3	0	0	3
Professional Elective-I	 Advanced Pharmaceutical Analysis Drug Regulatory Affairs Phytochemistry 	3	0	0	3
Professional Elective-II	Quality control and Quality Assurance Cosmetics and Cosmeceuticals Stability of Drugs and Dosage forms	3	0	0	3
MC	Research Methodology & Intellectual Property Rights	2	0	0	2
Laboratory-I	Wodern Pharmaceutical Analytical Techniques lah	0	0	4	2
_aboratory-II	Pharmaceutical and food Analysis Lab	0	0	4	2
Audit	Audit course- I	2	0	0	0
	TOTAL	16	0	8	18

Course Code	Course Title	L	Т	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	Pharmaceutical Validation Herbal Cosmetics Pharmacoepidemology and Pharmacoeconomics	3	0	0	3
Professional Elective-IV	Advanced Instrumental Analysis - II Nutraceuticals 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	Audit Course- II	2	0	0	0
	TOTAL	16	0	8	18



M.PHARMACY (PHARMACEUTICAL REGULATORY AFFAIRS)

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-l	Good Regulatory Practice	3	0	0	3
Professional Core-II	Drug Regulatory Affairs	3	0	0	3
Professional Elective-I	Intellectual Property Rights Total Quality Management Pharmaceutical Validation	3	0	0	3
Professional Elective-II	Stability of Drugs and Dosage forms Pharmaceutical Formulation Technology Documentation and Regulatory Writing	3	0	0	3
MC	Research methodology and IPR	2	0	0	2
Laboratory- I	Regulatory Practice and Documentation Lab	0	0	4	2
Laboratory- II	Drug Regulation and Registration Lab	0	0	4	2
Audit	Audit Course- I	2	0	0	0
	TOTAL	16	0	8	18

Course Code	Course Title	L	T	P	Credits
Professional Core-III	Regulatory aspects of medical devices	3	0	0	3
Professional Core-IV	Regulatory aspects of herbals and biologicals	3	0	0	3
Professional Elective-III	Regulatory aspects of food and Nutraceuticals Biostatistics and Research Methodology Nano based Drug delivery systems	3	0	0	3
Professional Elective-IV	Clinical research and Pharmacovigilance Nutraceuticals Advanced Drug Delivery Systems	3	0	0	3
Laboratory- III	Regulatory aspects of herbals and biologicals Lab	0	0	4	2
Laboratory- IV	Regulatory aspects of medical devices Lab	0	0	4	2
	Mini Project with Seminar	2	0	0	2
`Audit	Audit Course- II	2	0	0	0
	Total	16	0	8	18

R19 M.PHARM PHARMACEUTICAL QUALITY ASSURANCE

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

M.PHARMACY (PHARMACEUTICAL QUALITY ASSURANCE)

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	Quality control and Quality Assurance	3	0	0	3
Professional Elective-l	Quality Management Systems Pharmaceuticals and food Analysis Drug Regulatory Affairs	3	0	0	3
Professional Elective-II	Product Development and Technology Transfer Advanced Pharmaceutical Analysis Pharmaceutical Management	3	0	0	3
MC	Research Methodology & IPR	2	0	0	2
Laboratory-I	Modern Pharmaceutical Analytical Techniques Lab	0	0	4	2
Laboratory-II	Quality Control and Quality Assurance Lab	0	0	4	2
Audit	Audit course - I	2	0	0	0
	TOTAL	16	0	8	18

Course Code	Course Title	L	Т	Р	Credits
Professional Core-III	Pharmaceutical Validation	3	0	0	3
Professional Core-IV	Pharmaceutical Manufacturing Technology	3	0	0	3
Professional Elective-III	Hazards and Safety Management Spectral Analysis Screening Methods in Pharmacology	3	0	0	3
Professional Elective-IV	Audits and Regulatory compliance Herbal Drug Technology Stability of drugs and Dosage forms	3	0	0	3
Laboratory-III	Pharmaceutical Validation Lab	0	0	4	2
Laboratory-IV	Pharmaceutical Manufacturing Technology Lab	0	0	4	2
	Mini Project with Seminar	2	0	0	2
Audit	Audit Course - II	2	0	0	0
	TOTAL	16	0	8	18

M.PHARMACY (PHARMACY PRACTICE)

R19 COURSE STRUCTURE AND SYLLABUS ASSETS FROM A Cademic Year 2019-20 Admitted Batch

I YEAR | Semester

TEP HET GOTTING					
Course Code	Course Title	TL	T	P	Credit
Professional Core-I	Pharmacotherapeutics – I	3	0	0	3
Professional Core-II	Clinical Pharmacy Practice	3	0	0	3
Professional Elective-I	Clinical Toxicology Hospital and Community Pharmacy Clinical Research and Pharmacovigilance	3	0	0	3
Professional Elective-II	Molecular Biology Advances in Preclinical Evaluation Drug Regulatory Affairs	3	0	0	3
MC	Research methodology and IPR	2	0	0	2
Laboratory-I	Pharmacotherapeutics – I Lab	0	0	4	2
Laboratory-II	Clinical Pharmacy Practice Lab	0	0	4	2
Audit	Audit Course - I	2	0	0	0
	TOTAL	16	0	8	18

Course Code	Course Title	L	T	Р	Credits
Professional Core-III	Pharmacotherapeutics – II	3	0	0	3
Professional Core-IV	Clinical Pharmacokinetics and Drug monitoring	3	0	0	3
Professional Elective-III	 Biopharmaceutics and Pharmacokinetics Clinical Research Quality use of Medicines 	3	0	0	3
Professional Elective-IV	Principles of Drug Discovery Cellular and molecular pharmacology Nutraceuticals	3	0	0	3
Laboratory- III	Pharmacotherapeutics – II Lab	0	0	4	2
Laboratory- IV	Clinical Pharmacokinetics and Drug monitoring Lab	0	0	4	2
	Mini Project with Seminar	2	0	0	2
Audit	Audit Course- II	2	0	0	0
	Total	16	0	8	18

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	С
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	Modern Pharmaceutical Analytical Techniques Intellectual Property Rights	25	75	4		4
Open Elective I	Pharmacoepidemiology and Pharmacoeconomics Drug Regulatory Affairs Herbal Cosmetics Technology Pharmaceutical Validation 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	100			4	2
	Total Credits	275	525	20	16	28

Category	Course Title	Int. marks	Ext. marks	L	Р	С
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	Screening Methods in Pharmacology Nano Based Drug Delivery Systems Nutraceuticals Entrepreneurship management 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	100			4	2
Total Credits		275	525	20	16	28

M. Pharmacy (PHARMACEUTICAL ANALYSIS)

COURSE STRUCTURE AND SYLLABUS Effective from Academic Year 2018-19 Admitted Batch

I Year - I Semester

Category	Course Title	Int. marks	Ext. marks	L	Р	С
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	Pharmaceutical Validation Intellectual Property Rights	25	75	4		4
Open Elective I	Drug Regulatory Affairs Pharmacoepidemiology and Pharmacoeconomics Pharmaceutical Management Herbal Cosmetics Technology 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	100			4	2
	Total Credits	275	525	20	16	28

Category	Course Title	Int. marks	Ext. marks	L	Р	С
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	Biostatistics And Research Methodology Spectral Analysis	25	75	4	-	4
Open Elective II	Screening Methods in Pharmacology Stability of Drugs and Dosage Forms Entrepreneurship management Nano Based Drug Delivery Systems Herbal & Cosmetics Analysis	25	75	4	1	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	100			4	2
	Total Credits	275	525	20	16	28

M. Pharmacy (PHARMACEUTICAL REGULATORY AFFAIRS)

COURSE STRUCTURE AND SYLLABUS Effective from Academic Year 2018-19 Admitted Batch

I Year - I Semester

Category	Course Title	Int. marks	Ext. marks	L	Р	С
Core Course I	Good regulatory practices	25	75	4		4
Core Course II	Documentation and regulatory writing	25	75	4		4
Core Course III	Drug regulatory affairs	25	75	4		4
Core Elective I	Total Quality Management Intellectual Property Rights	25	75	4		4
Open Elective I	Pharmacoepidemiology and Pharmacoeconomics Herbal Cosmetics Technology Phytochemistry Pharmaceutical Formulation Technology Pharmaceutical Validation	25	75	4		4
Laboratory I	Regulatory practices and documentation lab	25	75		6	3
Laboratory II	Drug regulations and registration lab	25	75		6	3
Seminar I	Seminar	100			4	2
	Total Credits	275	525	20	16	28

Category	Course Title	Int. marks	Ext. marks	L	Р	С
Core Course IV	Regulatory aspects of herbals and biologicals	25	75	4		4
Core Course V	Regulatory aspects of medical devices	25	75	4	-	4
Core Course VI	Regulatory aspects of foods and neutraceuticals	25	75	4	-	4
Core Elective II	Biostatistics And Research Methodology Stability of Drugs and Dosage Forms	25	75	4		4
Open Elective II	Screening Methods in Pharmacology Nano Based Drug Delivery Systems Nutraceuticals Advanced Drug Delivery Systems Clinical Research and Pharmacovigilance	25	75	4	-	4
Laboratory III	Regulatory aspects herbals and biological practical lab	25	75		6	3
Laboratory IV	Regulatory aspects food and medical devices practical lab	25	75		6	3
Seminar II	Seminar	100			4	2
Total Credits		275	525	20	16	28

M. Pharmacy (PHARMACEUTICAL QUALITY ASSURANCE)

COURSE STRUCTURE AND SYLLABUS Effective from Academic Year 2018-19 Admitted Batch

I Year - I Semester

Category	Course Title	Int. marks	Ext. marks	L	Р	С
Core Course I	Ouglibum and a set auctoms	25	75	4	200	4
Core Course II	Quality management systems	25	75	4	-	4
Core Course III	Quality control and quality assurance	25	75	4	-	4
Core Elective I	Modern Pharmaceutical Analytical Techniques 1. Pharmaceutical Validation 2. Intellectual Property Rights	25	75	4		4
Open Elective I	Drug Regulatory Affairs Pharmacoepidemiology and Pharmacoeconomics Pharmaceutical Management Herbal Cosmetics Technology Pharmaceutical Formulation Technology	25	75	4		3
Laboratory I	Modern Pharmaceutical Analytical Techniques Lab	25	75	7	-6	
Laboratory II	Quality control and quality assurance lab	25	75	to he	6	3
Seminar I	Seminar	100			4	2
	Total Credits	275	525	20	16	28

Category	Course Title	Int. marks	Ext. marks	L	Р	С
Core Course IV	Hazards and safety management	25	75	4	-	4
Core Course V	Audits and regulatory compliance	25	75	4		4
Core Course VI	Pharmaceutical manufacturing technology	25	75	4	-	4
Core Elective II	Biostatistics And Research Methodology Spectral Analysis	25	75	4	-	4
Open Elective II	Screening Methods in Pharmacology Stability of Drugs and Dosage Forms Entrepreneurship management Nano Based Drug Delivery Systems Herbal & Cosmetics Analysis	25	75	4	-	4
Laboratory III	Advanced Instrumental Analysis Lab	25	75	-	6	4
Laboratory IV	Quality Assurance Lab	25	75		6	2
Seminar II	Seminar	100			4	2
	Total Credits	275	525	20	16	28

M. Pharmacy (PHARMACY PRACTICE)

COURSE STRUCTURE AND SYLLABUS Effective from Academic Year 2018-19 Admitted Batch

I Year - I Semester

Category	Course Title	Int. marks	Ext. marks	L	Р	С
Core Course I	Pharmanil	25	75	4		4
Core Course II	Pharmacotherapeutics-I	25	75	4		4
Core Course III	Clinical Pharmacy Practice	25	75	4		4
Core Elective I	Hospital and Community Pharmacy Clinical Research and Pharmacovigilance Pharmacoepidemiology and	25	75	4	1	4
Open Elective	Pharmacoeconomics 1. Pharmaceutical Management Drug Regulatory Affairs 3. Herbal Cosmetics Technology 4. Pharmaceutical Validation 5. Phytochemistry	25	75	4		4
Laboratory I	Pharmacotherapeutics-I Lab	25	75		6	3
Laboratory II	Clinical Pharmacy Practice Lab	25	75	-	6	3
Seminar I	Seminar	100	-		4	2
	Total Credits	275	525	20	16	28

Category	Course Title	Int. marks	Ext. marks	L	Р	С
Core Course IV	Clinical Pharmacokinetics and Therapeutic Drug Monitoring	25	75	4		4
Core Course V	Pharmacotherapeutics-II	25	75	4		4
Core Course VI	Principles of Quality use of Medicines	25	75	4		4
Core Elective II	Clinical Toxicology 2. Advanced Drug Delivery Systems	25	75	4	-	4
Open Elective II	Stability of Drugs and Dosage Forms Principles of Drug Discovery Biostatistics and Research Methodology Screening Methods in Pharmacology Entrepreneurship Management	25	75	4	-	4
Laboratory III	Pharmacotherapeutics-II Lab	25	75		6	3
Laboratory IV	Clinical Pharmacokinetics and Therapeutic Drug Monitoring Lab	25	75		6	3
Seminar II	Seminar	100	-	22	4	2
	Total Credits	275	525	20	16	28

M. Pharmacy (PHARMACEUTICS / PHARMACEUTICAL TECHNOLOGY

COURSE STRUCTURE AND SYLL ABUS, Shariffled Batch 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 Division surfices	25	75	4		4
Core Course II	Advanced Physical Pharmaceutics 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	Pharmacoepidemiology and Pharmacoeconomics Drug Regulatory Affairs Herbal Cosmetic Technology Pharmaceutical Validation 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

Category	Course Title	Int. marks	Ext. marks	L	P	С
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	Biostatistics And Research Methodology Stability of Drugs and Dosage Forms	25	75	4	-	4
Open Elective	Screening Methods in Pharmacology Nano Based Drug Delivery Systems Nutraceuticals Entrepreneurship management 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

M. Pharmacy (PHARMACEUTICAL ANALYSIS & QUALITY ASSURANCE)

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

| Year - | Semester

Category	Course Title	Int. marks	marks	L	Р	С
Ones Course I	A duein	25	75	4		4
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	- 000	75	4	100	4
Core Elective I	Pharmaceutical Validation Intellectual Property Rights	25				4
Open Elective I	Drug Regulatory Affairs Pharmacoepidemiology and Pharmacoeconomics Pharmaceutical Management Herbal Cosmetics Technology 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

Category	Course Title	Int. marks	Ext. marks	L	Р	С
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	Biostatistics And Research Methodology Spectral Analysis	25	75	4	-	4
Open Elective II	Screening Methods in Pharmacology Stability of Drugs and Dosage Forms Entrepreneurship management Nano Based Drug Delivery Systems Herbal & Cosmetics Analysis	25	75	4	1	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	in m	-	4	2
	Total Credits			20	16	28

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

M. Pharmacy (PHARMACEUTICAL MANAGEMENT AND RESILEATORY AFFAIRS)

COURSE STRUCTURE AND SY LABUS Effective from Academic Year 2017-18 Admitted Batch * No....

| Year - | Semester

Category	Course Title	Int.	Ext.	V	Р	С
Core Course I	Pharmaceutical Management –I (General and Personnel)	25	75	4	1	4
Core Course II	Drug Regulatory Affairs	25	75	4		4
Core Course III	Modern Pharmaceutical Analytical Techniques	25	75	4		4
Core Elective I	Total Quality Management Intellectual Property Rights	25	75	4		4
Open Elective I	Pharmacoepidemiology and Pharmacoeconomics Herbal Cosmetics Technology Phytochemistry Pharmaceutical Formulation technology Pharmaceutical Validation	25	75	4	-	4
Laboratory I	Modern Pharmaceutical Analytical Techniques Lab	25	75		6	3
Laboratory II	Pharmaceutical Management Lab	25	75		6	3
Seminar I	Seminar	50			4	2
	Total Credits			20	16	28

Category	Course Title	Int. marks	Ext. marks	L	Р	С
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	Biostatistics And Research Methodology Stability of Drugs and Dosage Forms	25	75	4	***	4
Open Elective II	Screening Methods in Pharmacology Nano Based Drug Delivery Systems Nutraceuticals Advanced Drug Delivery Systems Clinical Research and Pharmacovigilance	25	75	4	-	4
Laboratory III	Analytical Method Validation Lab	25	75		6	3
Laboratory IV	Pharmaceutical Market Research and Analysis Lab	25	75		6	3
Seminar II	Seminar	50	-	-	4	2
Total Credits				20	16	2

M. Pharmacy (QUALITY ASSURANCE AND BHARMA REGULATORY AFFAIRS)

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

I Year - I Semester

Category	Course Title	Int. marks	Ext.	L	Р	С
Core Course I	Quality control and Quality assurance	25	75	4		4
Core Course II	Y DI UG REGULATORY Affairs	25	75	4		4
Core Course III	Modern Pharmaceutical Analytical Techniques	25	75	4		4
COTE LIECTIVE I	1. Quality Management Systems 2 Intellectual Property Rights	25	75	4		4
Open Elective I	Pharmaceutical Validation Pharmacoepidemiology and Pharmacoeconomics Pharmaceutical Management Herbal Cosmetics Technology Pharmaceutical Formulation Technology	25	75	4	-	4
Laboratory I	Modern Pharmaceutical Analytical Techniques Lab	25	75	-	6	3
Laboratory II	Principles and Practice of Quality Assurance-I Lab	25	75	-	6	3
Seminar I	Seminar	50			4	2
	Total Credits			20	16	28

Category	Course Title	Int. marks	Ext. marks	L	Р	С
Core Course IV	Principles and Practice of Quality Assurance-II	25	75	4		4
Core Course V	Modern Pharmaceutical Technology	25	75	4		4
Core Course VI	Regulatory submissions: Drugs, Biologicals and Medical devices	25	75	4		4
Core Elective II	Biostatistics And Research Methodology Stability of Drugs and Dosage Forms	25	75	4		4
Open Elective II	 Screening Methods in Pharmacology Spectral Analysis Entrepreneurship management Nano Based Drug Delivery Systems Herbal & Cosmetics Analysis 	25	75	4	-	4
Laboratory III	Principles and Practice of Quality Assurance-II Lab	25	75		6	3
Laboratory IV	Regulatory submissions: Drugs, Biological and Medical devices Lab	25	75		6	3
Seminar II	Seminar	50			4	2
	Total Credits			20	16	28

M. Pharmacy (HOSPITAL AND CLINICAL PHARMACY)

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

| Year - | Semester

Category	Course Title	Int. marks	Ext. marks	an LA	n.Dis	C
Core Course I	Phore	25	75	4		4
The state of the s	Pharmacotherapeutics-I	25	75	4	100	4
Core Course II	Clinical Pharmacy Practice	25	75	4		4
Core Course III	Hospital and Community Pharmacy		75	4		4
Core Elective I	Clinical Research and Pharmacovigilance Pharmacoepidemiology and Pharmacoeconomics	25				
Open Elective I	Pharmaceutical Management Drug Regulatory Affairs Herbal Cosmetics Technology Pharmaceutical Validation Phytochemistry	25	75	4	-	4
Laboratory I	Pharmacotherapeutics-I Lab	25	75		6	3
Laboratory II	Clinical Pharmacy Practice Lab	25	75	-	6	3
	Seminar	50	-	-	4	2
Seminar I	Total Credits			20	16	28

Category	Course Title	Int. marks	Ext. marks	L	Р	С
Core Course IV	Clinical Pharmacokinetics and Therapeutic Drug Monitoring	25	75	4	-	4
Core Course V	Pharmacotherapeutics-II	25	75	4		4
Core Course VI	Principles of Quality use of Medicines	25	75	4		4
Core Elective II	Clinical Toxicology Advanced Drug Delivery Systems	25	75	4		4
Open Elective II	Stability of Drugs and Dosage Forms Principles of Drug Discovery Research Methodology Screening Methods in Pharmacology Entrepreneurship Management	25	75	4	-	4
Laboratory III	Pharmacotherapeutics-II Lab	25	75		6	3
Laboratory IV	Hospital Pharmacy Lab	25	75	-	6	3
Seminar II	Seminar	50	-		4	2
	Total Credits			20	16	28



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

| Year - | Semester

COURSE STRUCTURE AND SYLLABUS

Category	Course Title	Int. marks	Ext. marks	L	Р	С
Core Course I	Applied Biopharmas vi	25	75	4		4
Core Course II	Applied Biopharmaceutics and Pharmacokinetics /	25	75	4		4
Core Course III	Advanced Physical Pharmaceutics Advanced Pharmaceutical Technology		75	4		4
Core Elective I	Modern Pharmas Historian Technology - La China	W 25	75	4	-	40
Open Elective I	Intellectual Property Rights and Regulatory Affairs Pharmacoepidemiology, Pharmacoeconomics and Pharmacovigilance Drug Regulatory Affairs (National & International) Herbal Cosmetic Technology Separation Methods Pharmaceutical Management — I	25	75	4	1	4
Laboratory I		25	75	4		4
Laboratory II	The ranged billysical pharmage it is the	25	75		4	2
Seminar I	Seminar Seminar	50			4	2
	Total Credits		1	24	8	28

I Year - II Semester

Category	Course Title	Int. marks	Ext. marks	L	Р	С
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	Blostatistics And Research Methodology Screening Methods & Clinical Research	25	75	4	-	4
Open Elective II	Stability of Drugs and Dosage Forms Nano Based Drug Delivery Systems Nutraceuticals. 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

Il Year - I Semester

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

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		100		24	16

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

COURSE STRUCTURE AND SYLLABUS

	marks	xt.	L	Р	С
Course Title	25	75	4		
Advanced Drug Delivery Systems		75	4		9
	25	75	4		
Advanced Pharmaceutical Technology II	25	75	4		1
Screening Methods & Clinical Research	25	75	4		3
Stability of Drugs and Dosage Forms Nano Based Drug Delivery Systems Nutraceuticals					
	Biostatistics And Research Methodology Screening Methods & Clinical Research Stability of Drugs and Dosage Forms Nano Based Drug Delivery Systems	Advanced Drug Delivery Systems 25 Industrial Pharmacy 25 Advanced Pharmaceutical Technology II 25 1. Biostatistics And Research Methodology 25 2. Screening Methods & Clinical Research 25 1. Stability of Drugs and Dosage Forms 25 2. Nano Based Drug Delivery Systems	Advanced Drug Delivery Systems Advanced Pharmacy Advanced Pharmacy Advanced Pharmaceutical Technology II Biostatistics And Research Methodology Screening Methods & Clinical Research Stability of Drugs and Dosage Forms Nano Based Drug Delivery Systems	Advanced Drug Delivery Systems Industrial Pharmacy Advanced Pharmaceutical Technology II Biostatistics And Research Methodology Screening Methods & Clinical Research Stability of Drugs and Dosage Forms Nano Based Drug Delivery Systems	Course Title Course Title Advanced Drug Delivery Systems 25 75 4 Industrial Pharmacy Advanced Pharmaceutical Technology II 1. Biostatistics And Research Methodology 2. Screening Methods & Clinical Research 1. Stability of Drugs and Dosage Forms 2. Nano Based Drug Delivery Systems

4. Pharmaceutical Management-II

Seminar

Laboratory III

Laboratory IV

Seminar II
Total Credits

Advanced Drug Delivery Systems Lab Advanced Pharmaceutical Technology Lab 

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

I Year - I Semester

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

I Year - II 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	Biostatistics And Research Methodology Screening Methods & Clinical Research	25	75	4		4
Open Elective II	Stability of Drugs and Dosage Forms Nano Based Drug Delivery Systems Nutraceuticals Pharmaceutical Product development and Management 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

Il Year - I Semester

Course Title	Int. marks	Ext. marks	L	Р	6
Comprehensive Viva-Voce		100			4
Project work Review I	50	-		24	12
Total Credits		II III		24	16

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



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

Category	Course Title	Int. marks	Ext. marks	L	Р	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	Modern Pharmaceutical Analytical Technique Intellectual Property Rights and Regulatory Affairs	25	75	4	-	4
Open Elective I	Pharmacoepidemiology, Pharmacoeconomics and Pharmacovigilance Herbal Cosmetics Technology Advanced Pharmaceutical Technology –I Industrial Pharmaceutics Separation Techniques	25	75	4	1	4
Laboratory I	Modern Pharmaceutical Analytical Techniques Lab	25	75	4		
	Pharmaceutical Management Lab	25	75		4	2
Laboratory II	Seminar Seminar	50			4	
Seminar I	Total Credits			24	8	28

l Year – Il Semes Category	Course Title	Int. marks	Ext. marks	L	Р	С
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	Biostatistics And Research Methodology Screening Methods & Clinical Research	25	75	4		4
Open Elective II	Stability of Drugs and Dosage Forms Nano Based Drug Delivery Systems Nutraceuticals Advanced Drug Delivery Systems Advanced Pharmaceutical Technology -II	25	75	4	-	4
Latarata and III	Analytical Method Validation Lab	25	75	4		4
Laboratory III	Pharmaceutical Market Research and Analysis Lab	25	75		4	2
Laboratory IV		50	-		4	2
Seminar II	Seminar			24	8	28
Total Credits			-		-	

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

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



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD M. Pharmacy (QUALITY ASSURANCE AND PHARMA REGULATORY AFFAIRS)

COURSE STRUCTURE AND SYLLABUS

I Year - I Semester

Category	Course Title	Int. marks	Ext. marks	L	Р	С
Core Course I	Principles and Practice of Quality assurance-I	25	75	4		4
Core Course II		25	75	4		4
Core Course III	Trialmodulodi Regulatory affairs-I	25	75	4		4
Core Elective I	Modern Pharmaceutical Analytical Technique Intellectual Property Rights and Regulatory Affairs	25	75	4		4
Open Elective I	Pharmacoepidemiology, Pharmacoeconomics and Pharmacovigilance Drug Regulatory Affairs (National And International) Herbal Cosmetics Technology Clinical Research Pharmaceutical Management-I	25	75	4	-	4
Laboratory I	Modern Pharmaceutical Analytical Techniques Lab	25	75	4	-	4
Laboratory II	Principles and Practice of Quality Assurance-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	Р	С
Core Course IV	Principles and Practice of Quality Assurance-II	25	75	4		4
Core Course V	Modern Pharmaceutical Technology	25	75	4		4
Core Course VI	Regulatory submissions: Drugs, Biologicals and Medical devices	25	75	4	-	4
Core Elective II	Biostatistics And Research Methodology Screening Methods & Clinical Research	25	75	4	-	4
Open Elective II	Stability of Drugs and Dosage Forms Nano Based Drug Delivery Systems Nutraceuticals Pharmaceutical Product development and Management Pharmaceutical Management-II	25	75	4	-	4
Laboratory III	Principles and Practice of Quality Assurance-II Lab	25	75	4		4
Laboratory IV	Regulatory submissions: Drugs, Biological and Medical devices Lab	25	75	-	4	2
Seminar II	Seminar	50			4	2
Total Credits				24	8	28

Il Year - I Semester

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

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



HOSPITAL AND CLINICAL PHARMACY

COURSE STRUCTURE AND SYLLABUS

I Year - I Semester

Category	Course Title	Int. marks	Ext. marks	L	Р	С
Core Course	Pathophysiology and Applied Pharmacotherapeutics-I	25	75	4		4
Core Course II		25	75	4		4
Core Course III	Community Patient Care / Community Pharmacy	25	75	4		4
Core Elective I	Intellectual Property Rights and Regulatory Affairs	25	75	4		4
Open Elective I	Pharmacoeconomics and Pharmacoeconomics and Pharmacovigilance 2: Drug Regulatory Affairs (National And International) 3. Herbal Cosmetics Technology 4. Clinical Research 5. Molecular Pharmacology	25	75	4	1	4
Laboratory I	Modern Pharmaceutical Applytical Techniques Lab	25	75	4	-	4
Laboratory II	Advanced Clinical Pharmacy 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	С
Core Course IV	Clinical Pharmacokinetics and Therapeutic Drug Monitoring	25	75	4	-	4
Core Course V	Pathophysiology and Applied Pharmacotherapeutics-II	25	75	4		4
Core Course VI	Hospital Pharmacy	25	75	4		4
Core Elective II	Biostatistics And Research Methodology Screening Methods & Clinical Research	25	75	4		4
Open Elective II	Stability of Drugs and Dosage Forms Nano Based Drug Delivery Systems Nutraceuticals Clinical Toxicology Advanced Drug Delivery Systems	25	75	4	-	4
Laboratory III	Pathophysiology and Applied Pharmacotherapeutics Lab	25	75	4		4
Laboratory IV	Hospital Pharmacy Lab	25	75		4	2
Seminar II	Seminar	50		-	4	2
Total Credits				24	8	28

Il Year - I Semester

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

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