

**KADI SARVA VISHWA VIDYALAYA
K. B. INSTITUTE OF PHARMACEUTICAL EDUCATION AND RESEARCH
MASTER OF PHARMACY SYLLABUS**

Effective from Session JUNE 2017

SPECIALIZATION: PHARMACEUTICS (MPH)

SCHEME OF TEACHING

SEMESTER-I

SUB CODE	NAME OF SUBJECT	CONTACT HOURS PER WEEK		CREDITS	
		T	P	T	P
MPH101T	Modern Pharmaceutical Analytical Techniques	4	--	4	--
MPH102T	Drug Delivery System	4	--	4	--
MPH103T	Modern Pharmaceutics	4	--	4	--
MPH104T	Regulatory Affair	4	--	4	--
MPH105P	Pharmaceutics Practical - I	--	12	--	6
---	Seminar/Assignment	--	7	--	4
Total		35		26	

SEMESTER – II

SUB CODE	NAME OF SUBJECT	CONTACT HOURS PER WEEK		CREDITS	
		Theory	Practical	Theory	Practical
MPH201T	Molecular Pharmaceutics (Nano Tech and Targeted DDS)	4	--	4	--
MPH202T	Advanced Biopharmaceutics & Pharmacokinetics	4	--	4	--
MPH203T	Computer Aided Drug Delivery System	4	--	4	--
MPH204T	Cosmetic and Cosmeceuticals	4	--	4	--
MPH205P	Pharmaceutics Practical - II	--	12	--	6
--	Seminar/Assignment	--	7	--	4
Total		35		26	

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SPECIALIZATION: PHARMACEUTICAL QUALITY ASSURANCE (MQA)

SCHEME OF TEACHING

SEMESTER-I

SUB CODE	NAME OF SUBJECT	CONTACT HOURS PER WEEK		CREDITS	
		T	P	T	P
MQA101T	Modern Pharmaceutical Analytical Techniques	4	---	4	---
MQA102T	Quality Management System	4	---	4	---
MQA103T	Quality Control and Quality Assurance	4	---	4	---
MQA104T	Product Development and Technology Transfer	4	---	4	---
MQA105P	Pharmaceutical Quality Assurance Practical-I	---	12	---	6
--	Seminar/Assignment	---	7	---	4
Total		35		26	

SEMESTER – II

SUB CODE	NAME OF SUBJECT	CONTACT HOURS PER WEEK		CREDITS	
		Theory	Practical	Theory	Practical
MQA201T	Hazards and Safety Management	4	---	4	---
MQA202T	Pharmaceutical Validation	4	---	4	---
MQA203T	Audits and Regulatory Compliance	4	---	4	---
MQA204T	Pharmaceutical Manufacturing Technology	4	---	4	---
MQA205P	Pharmaceutical Quality Assurance Practical-II	---	12	---	6
--	Seminar/Assignment	---	7	---	4
Total		35		26	

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SPECIALIZATION: PHARMACEUTICAL REGULATORY AFFAIRS (MRA)
SCHEME OF TEACHING
SEMESTER-I

SUB CODE	NAME OF SUBJECT	CONTACT HOURS PER WEEK		CREDITS	
		T	P	T	P
MRA101T	Good Regulatory Practices	4	--	4	--
MRA102T	Documentation and Regulatory Writing	4	--	4	--
MRA103T	Clinical Research Regulations	4	--	4	--
MRA104T	Regulations and Legislation for Drugs & Cosmetics, Medical Devices, Biologicals & Herbals, and Food & Nutraceuticals in India and Intellectual Property Rights	4	--	4	--
MRA105P	Regulatory Affairs Practical-I	--	12	--	6
--	Seminar/Assignment	--	7	--	4
Total		35		26	

SEMESTER – II

SUB CODE	NAME OF SUBJECT	CONTACT HOURS PER WEEK		CREDITS	
		Theory	Practical	Theory	Practical
MRA201T	Regulatory Aspects of Drugs & Cosmetics	4	---	4	---
MRA202T	Regulatory Aspects of Herbal & Biologicals	4	---	4	---
MRA203T	Regulatory Aspects of Medical Devices	4	---	4	---
MRA204T	Regulatory Aspects of Food & Nutraceuticals	4	---	4	---
MRA205P	Regulatory Affairs Practical-II	---	12	---	6
--	Seminar/Assignment	---	7	---	4
Total		35		26	

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SPECIALIZATION: PHARMACY PRACTICE (MPP)
SCHEME OF TEACHING
SEMESTER-I

SUB CODE	NAME OF SUBJECT	CONTACT HOURS PER WEEK		CREDITS	
		T	P	T	P
MPP101T	Clinical Pharmacy Practice	4	--	4	--
MPP102T	Pharmacotherapeutics - I	4	--	4	--
MPP103T	Hospital & Community Pharmacy	4	--	4	--
MPP104T	Clinical Research	4	--	4	--
MPP105P	Pharmacy Practice Practical - I	--	12	--	6
--	Seminar/Assignment	--	7	--	4
Total		35		26	

SEMESTER – II

SUB CODE	NAME OF SUBJECT	CONTACT HOURS PER WEEK		CREDITS	
		Theory	Practical	Theory	Practical
MPP201T	Principles of Quality Use of Medicines	4	--	4	--
MPP202T	Pharmacotherapeutics - II	4	--	4	--
MPP203T	Clinical Pharmacokinetics and Therapeutic Drug Monitoring	4	--	4	--
MPP204T	Pharmacoepidemiology & Pharmacoeconomics	4	--	4	--
MPP205P	Pharmacy Practice Practical - II	--	12	--	6
--	Seminar/Assignment	--	7	--	4
Total		35		26	

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SPECIALIZATION: PHARMACOLOGY (MPL)
SCHEME OF TEACHING
SEMESTER-I

SUB CODE	NAME OF SUBJECT	CONTACT HOURS PER WEEK		CREDITS	
		T	P	T	P
MPL101T	Modern Pharmaceutical Analytical Techniques	4	--	4	--
MPL102T	Advanced Pharmacology - I	4	--	4	--
MPL103T	Pharmacological and Toxicological Screening Methods - I	4	--	4	--
MPL104T	Cellular and Molecular Pharmacology	4	--	4	--
MPL105P	Experimental Pharmacology Practical - I	--	12	--	6
--	Seminar/Assignment	--	7	--	4
Total		35		26	

SEMESTER – II

SUB CODE	NAME OF SUBJECT	CONTACT HOURS PER WEEK		CREDITS	
		Theory	Practical	Theory	Practical
MPL201T	Advanced Pharmacology - II	4	--	4	--
MPL202T	Pharmacological and Toxicological Screening Methods - II	4	--	4	--
MPL203T	Principles of Drug Discovery	4	--	4	--
MPL204T	Clinical Research and Pharmacovigilance	4	--	4	--
MPL205P	Experimental Pharmacology Practical - II	--	12	--	6
--	Seminar/Assignment	--	7	--	4
Total		35		26	

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SPECIALIZATION: ALL SPECIALIZATIONS (COMMON FOR ALL)
SEMESTER-III
SCHEME OF TEACHING

SUBJECT CODE	NAME OF SUBJECT	CONTACT HOURS OF TEACHING	CREDITS
MRM 301T	Research Methodology and Biostatistics*	4	4
--	Journal club	1	1
--	Discussion / Presentation (Proposal Presentation)	2	2
--	Research Work	28	14
Total		35	21

*NON-UNIVERSITY EXAMINATION

M. Pharm. SEMESTER-IV
(Common for All Specializations)
SCHEME OF TEACHING

SUBJECT CODE	NAME OF SUBJECT	Credit Hours	Credit Points
--	Journal Club	1	1
--	Research Work	31	16
--	Discussion/Final Presentation	3	3
Total		35	20

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SPECIALIZATION: PHARMACEUTICS (MPH)
SCHEME OF EXAMINATION
SEMESTER-I

SUB CODE	NAME OF SUBJECT	DURATION OF EXAM (HRS)	MARKS			
			THEORY		PRACTICAL	
			University level evaluation	Institute level evaluation	University level evaluation	Institute level evaluation
MPH101T	Modern Pharmaceutical Analytical Techniques	3	75	25	--	--
MPH102T	Drug Delivery System	3	75	25	--	--
MPH103T	Modern Pharmaceutics	3	75	25	--	--
MPH104T	Regulatory Affair	3	75	25	--	--
MPH105P	Pharmaceutics Practical - I	6	--	--	100	50
---	Seminar/Assignment	--	--	--	--	100
	Total	--	300	100	100	150

SEMESTER – II

SUB CODE	NAME OF SUBJECT	DURATION OF EXAM (HRS)	MARKS			
			THEORY		PRACTICAL	
			University level evaluation	Institute level evaluation	University level evaluation	Institute level evaluation
MPH201T	Molecular Pharmaceutics (Nano Tech and Targeted DDS)	3	75	25	--	--
MPH202T	Advanced Biopharmaceutics & Pharmacokinetics	3	75	25	--	--
MPH203T	Computer Aided Drug Delivery System	3	75	25	--	--
MPH204T	Cosmetic and Cosmeceuticals	3	75	25	--	--
MPH205P	Pharmaceutics Practical - II	6	--	--	100	50
--	Seminar/Assignment	--	--	--	--	100
	Total	--	300	100	100	150

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SCHEME OF EXAMINATION
SEMESTER-I

SUB CODE	NAME OF SUBJECT	DURATION OF EXAM (Hrs)	MARKS			
			THEORY		PRACTICAL	
			University level evaluation	Institute level evaluation	University level evaluation	Institute level evaluation
MQA101T	Modern Pharmaceutical Analytical Techniques	3	75	25	--	--
MQA102T	Quality Management System	3	75	25	--	--
MQA103T	Quality Control and Quality Assurance	3	75	25	--	--
MQA104T	Product Development and Technology Transfer	3	75	25	--	--
MQA105P	Pharmaceutical Quality Assurance Practical-I	6	--	--	100	50
--	Seminar/Assignment	--	--	--	--	100
	Total	--	300	100	100	150

SEMESTER – II

SUB CODE	NAME OF SUBJECT	DURATION OF EXAM (HRS)	MARKS			
			THEORY		PRACTICAL	
			University level evaluation	Institute level evaluation	University level evaluation	Institute level evaluation
MQA201T	Hazards and Safety Management	3	75	25	--	--
MQA202T	Pharmaceutical Validation	3	75	25	--	--
MQA203T	Audits and Regulatory Compliance	3	75	25	--	--
MQA204T	Pharmaceutical Manufacturing Technology	3	75	25	--	--
MQA205P	Pharmaceutical Quality Assurance Practical-II	6	--	--	100	50
--	Seminar/Assignment	--	--	--	--	100
	Total	--	300	100	100	150

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SCHEME OF EXAMINATION
SEMESTER-I

SUB CODE	NAME OF SUBJECT	DURATION OF EXAM (Hrs)	MARKS			
			THEORY		PRACTICAL	
			University level evaluation	Institute level evaluation	University level evaluation	Institute level evaluation
MRA101T	Good Regulatory Practices	3	75	25	--	--
MRA102T	Documentation and Regulatory Writing	3	75	25	--	--
MRA103T	Clinical Research Regulations	3	75	25	--	--
MRA104T	Regulations and Legislation for Drugs & Cosmetics, Medical Devices, Biologicals & Herbals, and Food & Nutraceuticals in India and Intellectual Property Rights	3	75	25	--	--
MRA105P	Regulatory Affairs Practical-I	6	--	--	100	50
--	Seminar/Assignment	--	--	--	--	100
	Total	--	300	100	100	150

SEMESTER – II

SUB CODE	NAME OF SUBJECT	DURATION OF EXAM (HRS)	MARKS			
			THEORY		PRACTICAL	
			University level evaluation	Institute level evaluation	University level evaluation	Institute level evaluation
MRA201T	Regulatory Aspects of Drugs & Cosmetics	3	75	25	--	--
MRA202T	Regulatory Aspects of Herbal & Biologicals	3	75	25	--	--
MRA203T	Regulatory Aspects of Medical Devices	3	75	25	--	--
MRA204T	Regulatory Aspects of Food & Nutraceuticals	3	75	25	--	--
MRA205P	Regulatory Affairs Practical-II	6	--	--	100	50
--	Seminar/Assignment	--	--	--	--	100
	Total	--	300	100	100	150

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SPECIALIZATION: PHARMACY PRACTICE (MPP)

SCHEME OF EXAMINATION

SEMESTER-I

SUB CODE	NAME OF SUBJECT	DURATION OF EXAM (Hrs)	MARKS			
			THEORY		PRACTICAL	
			University level evaluation	Institute level evaluation	University level evaluation	Institute level evaluation
MPP101T	Clinical Pharmacy Practice	3	75	25	--	--
MPP102T	Pharmacotherapeutics - I	3	75	25	--	--
MPP103T	Hospital & Community Pharmacy	3	75	25	--	--
MPP104T	Clinical Research	3	75	25	--	--
MPP105P	Pharmacy Practice Practical-I	6	--	--	100	50
--	Seminar/Assignment	--	--	--	--	100
	Total	--	300	100	100	150

SEMESTER – II

SUB CODE	NAME OF SUBJECT	DURATION OF EXAM (HRS)	MARKS			
			THEORY		PRACTICAL	
			University level evaluation	Institute level evaluation	University level evaluation	Institute level evaluation
MPP201T	Principles of Quality Use of Medicines	3	75	25	--	--
MPP202T	Pharmacotherapeutics - II	3	75	25	--	--
MPP203T	Clinical Pharmacokinetics and Therapeutic Drug Monitoring	3	75	25	--	--
MPP204T	Pharmacoepidemiology & Pharmacoconomics	3	75	25	--	--
MPP205P	Pharmacy Practice Practical - II	6	--	--	100	50
--	Seminar/Assignment	--	--	--	--	100
	Total	--	300	100	100	150

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SPECIALIZATION: PHARMACOLOGY (MPL)
SCHEME OF EXAMINATION
SEMESTER-I

SUB CODE	NAME OF SUBJECT	DURATION OF EXAM (HRS)	MARKS			
			THEORY		PRACTICAL	
			University level evaluation	Institute level evaluation	University level evaluation	Institute level evaluation
MPL101T	Modern Pharmaceutical Analytical Techniques	3	75	25	--	--
MPL102T	Advanced Pharmacology - I	3	75	25	--	--
MPL103T	Pharmacological and Toxicological Screening Methods - I	3	75	25	--	--
MPL104T	Cellular and Molecular Pharmacology	3	75	25	--	--
MPL105P	Experimental Pharmacology Practical - I	6	--	--	100	50
--	Seminar/Assignment	--	--	--	--	100
	Total	--	300	100	100	150

SEMESTER – II

SUB CODE	NAME OF SUBJECT	DURATION OF EXAM (HRS)	MARKS			
			THEORY		PRACTICAL	
			University level evaluation	Institute level evaluation	University level evaluation	Institute level evaluation
MPL201T	Advanced Pharmacology - II	3	75	25	--	--
MPL202T	Pharmacological and Toxicological Screening Methods - II	3	75	25	--	--
MPL203T	Principles of Drug Discovery	3	75	25	--	--
MPL204T	Clinical Research and Pharmacovigilance	3	75	25	--	--
MPL205P	Experimental Pharmacology Practical - II	6	--	--	100	50
--	Seminar/Assignment	--	--	--	--	100
	Total	--	300	100	100	150

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SEMESTER-III

SCHEME OF EXAMINATION

SUBJECT CODE	NAME OF SUBJECT	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
MRM301T	Research Methodology and Biostatistics*	10	15	1 Hr	25	75	3 Hrs	100
--	Journal club	--	--	--	25	--	--	25
--	Discussion / Presentation (Proposal Presentation)	--	--	--	50	--	--	50
--	Research work*	--	--	--	--	350	1 Hr	350
Total								525

SEMESTER IV

SUBJECT CODE	NAME OF SUBJECT	Internal Assessment				End Semester Exams		
		Continuous Mode			Total	Marks	Duration	
		--	--	--				25
--	Discussion / Presentation (Proposal Presentation)	--	--	--	75	--	--	75
--	Research work and Colloquium	--	--	--	--	400	1 Hr	400
Total								500

* NON-UNIVERSITY EXAMINATION