

GUJARAT TECHNOLOGICAL UNIVERSITY

Teaching Scheme of Master of Pharmacy Semester I (W.E.F.: 2017-2018)

Pharmaceutics (20)

Semester I

Subject Code	Subject name	No of Hours	Credits Points	Internal Assessment		End Semester Exams(E)		Total Marks
				Sessional Exams		Marks	Duration	
				Marks	Duration			
MAT101T	Modern Pharmaceutical Analytical Techniques	4	4	20	1 Hr	80	3 Hrs	100
MPH102T	Drug Delivery System	4	4	20	1 Hr	80	3 Hrs	100
MPH103T	Modern Pharmaceutics	4	4	20	1 Hr	80	3 Hrs	100
MPH104T	Regulatory Affair	4	4	20	1 Hr	80	3 Hrs	100
MPH105P	Pharmaceutics Practical I	12	6	50	4hrs for Part A and 6 Hrs for Part B	100	4hrs for Part A and 6 Hrs for Part B	150
MSA106P	Seminar/Assignment	8	4	-	100	-	-	100
	Total	36	26					

Industrial Pharmacy (21)

Semester I

Subject Code	Subject name	No of Hours	Credits Points	Internal Assessment		End Semester Exams(E)		Total Marks
				Sessional Exams		Marks	Duration	
				Marks	Duration			
MAT101T	Modern Pharmaceutical Analytical Techniques	4	4	20	1 Hr	80	3 Hrs	100
MIP102T	Pharmaceutical Formulation Development	4	4	20	1 Hr	80	3 Hrs	100
MIP103T	Novel drug delivery systems	4	4	20	1 Hr	80	3 Hrs	100
MIP104T	Intellectual Property Rights	4	4	20	1 Hr	80	3 Hrs	100
MIP105P	Industrial Pharmacy Practical I	12	6	50	4hrs for Part A and 6 Hrs for Part B	100	4hrs for Part A and 6 Hrs for Part B	150
MSA106P	Seminar/Assignment	8	4	-	100	-	-	100
	Total	36	26					

Pharmaceutical Chemistry (22)

Semester I

Subject Code	Subject name	No of Hours	Credits Points	Internal Assessment		End Semester Exams(E)		Total Marks
				Sessional Exams		Marks	Duration	
				Marks	Duration			
MAT101T	Modern Pharmaceutical Analytical Techniques	4	4	20	1 Hr	80	3 Hrs	100
MPC102T	Advanced Organic Chemistry -I	4	4	20	1 Hr	80	3 Hrs	100
MPC103T	Advanced Medicinal Chemistry	4	4	20	1 Hr	80	3 Hrs	100
MPC104T	Chemistry of Natural Products	4	4	20	1 Hr	80	3 Hrs	100
MPC105P	Pharmaceutical Chemistry Practical I	12	6	50	4hrs for Part A and 6 Hrs for Part B	100	4hrs for Part A and 6 Hrs for Part B	150
MSA106P	Seminar/Assignment	8	4	-	100	-	-	100
	Total	36	26					

Pharmaceutical Analysis (23)

Semester I

Subject Code	Subject name	No of Hours	Credits Points	Internal Assessment		End Semester Exams(E)		Total Marks
				Sessional Exams		Marks	Duration	
				Marks	Duration			
MAT101T	Modern Pharmaceutical Analytical Techniques	4	4	20	1 Hr	80	3 Hrs	100
MPA102T	Advanced Pharmaceutical Analysis	4	4	20	1 Hr	80	3 Hrs	100
MPA103T	Pharmaceutical Validation	4	4	20	1 Hr	80	3 Hrs	100
MPA104T	Food Analysis	4	4	20	1 Hr	80	3 Hrs	100
MPA105P	Pharmaceutical Analysis Practical I	12	6	50	4hrs for Part A and 6 Hrs for Part B	100	4hrs for Part A and 6 Hrs for Part B	150
MSA106P	Seminar/Assignment	8	4	-	100	-	-	100
	Total	36	26					

Pharmaceutical Quality Assurance (24)

Semester I

Subject Code	Subject name	No of Hours	Credits Points	Internal Assessment		End Semester Exams(E)		Total Marks
				Sessional Exams		Marks	Duration	
				Marks	Duration			
MAT101T	Modern Pharmaceutical Analytical Techniques	4	4	20	1 Hr	80	3 Hrs	100
MQA102T	Quality Management System	4	4	20	1 Hr	80	3 Hrs	100
MQA103T	Quality Control and Quality Assurance	4	4	20	1 Hr	80	3 Hrs	100
MQA104T	Product Development and Technology Transf	4	4	20	1 Hr	80	3 Hrs	100
MQA105P	Pharmaceutical Quality Assurance Practical I	12	6	50	4hrs for Part A and 6 Hrs for Part B	100	4hrs for Part A and 6 Hrs for Part B	150
MSA106P	Seminar/Assignment	8	4	-	100	-	-	100
	Total	36	26					

Pharmacology (25)

Semester I

Subject Code	Subject name	No of Hours	Credits Points	Internal Assessment		End Semester Exams(E)		Total Marks
				Sessional Exams		Marks	Duration	
				Marks	Duration			
MAT101T	Modern Pharmaceutical Analytical Techniques	4	4	20	1 Hr	80	3 Hrs	100
MPL102T	Advanced Pharmacology-I	4	4	20	1 Hr	80	3 Hrs	100
MPL103T	Pharmacological and Toxicological Screening Methods-I	4	4	20	1 Hr	80	3 Hrs	100
MPL104T	Cellular and Molecular Pharmacology	4	4	20	1 Hr	80	3 Hrs	100
MPL105P	Pharmacology Practical I	12	6	50	4hrs for Part A and 6 Hrs for Part B	100	4hrs for Part A and 6 Hrs for Part B	150
MSA106P	Seminar/Assignment	8	4	-	100	-	-	100
	Total	36	26					

Pharmacognosy (26)

Semester I

Subject Code	Subject name	No of Hours	Credits Points	Internal Assessment		End Semester Exams(E)		Total Marks
				Sessional Exams		Marks	Duration	
				Marks	Duration			
MAT101T	Modern Pharmaceutical Analytical Techniques	4	4	20	1 Hr	80	3 Hrs	100
MPG102T	Advanced Pharmacognosy-1	4	4	20	1 Hr	80	3 Hrs	100
MPG103T	Phytochemistry	4	4	20	1 Hr	80	3 Hrs	100
MPG104T	Industrial Pharmacognostical Technology	4	4	20	1 Hr	80	3 Hrs	100
MPG105P	Pharmacognosy Practical I	12	6	50	4hrs for Part A and 6 Hrs for Part B	100	4hrs for Part A and 6 Hrs for Part B	150
MSA106P	Seminar/Assignment	8	4	-	100	-	-	100
	Total	36	26					

Pharmaceutical Regulatory Affairs (27)

Semester I

Subject Code	Subject name	No of Hours	Credits Points	Internal Assessment		End Semester Exams(E)		Total Marks
				Sessional Exams		Marks	Duration	
				Marks	Duration			
MRA101T	Good Regulatory Practices	4	4	20	1 Hr	80	3 Hrs	100
MRA102T	Documentation and Regulatory Writing	4	4	20	1 Hr	80	3 Hrs	100
MRA103T	Clinical Research Regulations	4	4	20	1 Hr	80	3 Hrs	100
MRA104T	Regulations and Legislation for Drugs & Cosmetics, Medical Devices, Biologicals & Herbals, and Food & Nutraceuticals In India and Intellectual Property Rights	4	4	20	1 Hr	80	3 Hrs	100
MRA105P	Regulatory Affairs Practical I	12	6	50	6 Hrs	100	6 Hrs	150
MSA106P	Seminar/Assignment	8	4	-	100	-	-	100
	Total	36	26					

Pharmaceutical Technology(28)

Semester I

Subject Code	Subject name	No of Hours	Credits Points	Internal Assessment		End Semester Exams(E)		Total Marks
				Sessional Exams		Marks	Duration	
				Marks	Duration			
MAT101T	Modern pharmaceutical analytical techniques	4	4	20	1 Hr	80	3 Hrs	100
MPT102T	Advances in drug delivery system	4	4	20	1 Hr	80	3 Hrs	100
MPT103T	Pharmaceutical formulation and development	4	4	20	1 Hr	80	3 Hrs	100
MPT104T	Good manufacturing practice and process validation	4	4	20	1 Hr	80	3 Hrs	100
MPT105P	Pharmaceutical technology practicals- I	12	6	50	4hrs for Part A and 6 Hrs for Part B	100	4hrs for Part A and 6 Hrs for Part B	150
MSA106P	Seminar/assignment	8	4	-	100	-	-	100
	Total	36	26					

Clinical Pharmacy (29)

Semester I

Subject Code	Subject name	No of Hours	Credits Points	Internal Assessment		End Semester Exams(E)		Total Marks
				Sessional Exams		Marks	Duration	
				Marks	Duration			
MCP101T	Clinical Pharmacy Practice- I	4	4	20	1 Hr	80	3 Hrs	100
MCP102T	Pharmacotherapeutics-I	4	4	20	1 Hr	80	3 Hrs	100
MCP103T	Clinical Toxicology & Pharmacovigilance	4	4	20	1 Hr	80	3 Hrs	100
MCP104T	Hospital and Community Pharmacy	4	4	20	1 Hr	80	3 Hrs	100
MCP105P	Clinical Pharmacy Practice I Practical	12	6	50	6 Hrs	100	6 Hrs	150
MSA106P	Seminar/Assignment	8	4	-	100	-	-	100
	Total	36	26					