

Gujarat Technological University

Subject Codes/ Teaching/Evaluation Scheme for M. Pharm.

Semester I-(Revised from July-2012)

Branch Code	Branch Name/Specialization	Subject	Subject Code	Subject Name	Teaching Scheme		Evaluation Scheme			
					Credits		Theory		Practical	
					Theory	Practical	External	Internal	External	Internal
00	GENERAL	Modern Analytical Techniques	910001	Modern Analytical Techniques	6	6	80	20	80	20
01	Pharm. Chemistry	Subject of specialization Paper I	910101	Advance Organic Chemistry -	6	6	80	20	80	20
02	Pharmaceutical Tech. and Pharmaceutics		910102	Pharmaceutical Formulation Development & Biopharmaceutics	6	6	80	20	80	20
03	Pharmacology		910103	Cellular and Molecular pharmacology	6	6	80	20	80	20
04	Qual. Assurance		910104	Biological Evaluations and Clinical Research	6	6	80	20	80	20
05	Pharmacognosy		910105	Chemistry of Medicinal Natural Products	6	6	80	20	80	20
06	Clinical Pharmacy		910106	Clinical Pharmacy Practice	6	6	80	20	80	20
07	Pharmaceutical Analysis		910107	Pharmaceutical Analysis-I	6	6	80	20	80	20
08	Pharmaceutics		910102	Pharmaceutical Formulation Development & Biopharmaceutics	6	6	80	20	80	20
09	Pharmaceutical Quality Assurance		910104	Biological Evaluations and Clinical Research	6	6	80	20	80	20
10	Pharmaceutical Technology		910102	Pharmaceutical Formulation Development & Biopharmaceutics	6	6	80	20	80	20
11	Pharmacology & Toxicology		910103	Cellular and Molecular pharmacology	6	6	80	20	80	20
12	Industrial Pharmacy		910108	Industrial Pharmacy-I	6	6	80	20	80	20
13	Quality Assurance Technique		910104	Biological Evaluations and Clinical Research	6	6	80	20	80	20
14	Medical Chemistry		910101	Advance Organic Chemistry - I	6	6	80	20	80	20
15	Quality Assurance and Pharm Regulatory Affairs		910104	Biological Evaluations and Clinical Research	6	6	80	20	80	20

16	Pharmaceutical Management and Regulatory Affairs		1911601	cGMP and Documentation	6	6	80	20	80	20
Subject of Specialization Paper II										
01	Pharm. Chemistry		910201	Chemistry of natural Products	6	0	80	20	-	-
02	Pharmaceutical Tech. and Pharmaceutics		910202	Industrial Pharmacy Practice	6	0	80	20	-	-
03	Pharmacology		910203	Advances in Pharmacology	6	0	80	20	-	-
04	Qual. Assurance		910204	Good manufacturing and Good Laboratory Practice	6	0	80	20	-	-
05	Pharmacognosy		910205	biotechnology and Cultivation of Medical Plants	6	0	80	20	-	-
06	Clinical Pharmacy		910206	Clinical and Hospital Pharmacy	6	0	80	20	-	-
07	Pharmaceutical Analysis-I		910207	Advanced Spectroscopic Techniques	6	0	80	20	-	-
08	Pharmaceutics		910202	Industrial Pharmacy Practice	6	0	80	20	-	-
09	Pharmaceutical Quality Assurance		910204	Good manufacturing and Good Laboratory Practice	6	0	80	20	-	-
10	Pharmaceutical Technology		910202	Industrial Pharmacy Practice	6	0	80	20	-	-
11	Pharmacology & Toxicology		910203	Advances in Pharmacology	6	0	80	20	-	-
12	Industrial Pharmacy		910208	Industrial Pharmacy-II	6	0	80	20	-	-
13	Quality Assurance Technique		910204	Good manufacturing and Good Laboratory Practice	6	0	80	20	-	-
14	Medical Chemistry		910201	Chemistry of natural Products	6	0	80	20	-	-
15	Quality Assurance and Pharm Regulatory Affairs		1911502	Basic Concepts of Regulatory Affairs	6	0	80	20	-	-
16	Pharmaceutical Management and Regulatory Affairs		1911602	Pharm Management-1	6	0	80	20	-	-

Gujarat Technological University

Subject Codes/ Teaching/Evaluation Scheme for M. Pharm.

Semester II-(Revised from Jan-2013)

Branch Code	Branch Name/Specialization	Subject	Subject Code	Subject Name	Teaching		Evaluation Scheme			
					Credits		Theory		Practical	
					Theory	Practical	External	Internal	External	Internal
00	GENERAL	Research Methodology	2920001	Research Methodology	7	-	80	20	-	-
01	Pharm. Chemistry	Subject of specialization Paper III	2920101	Advanced Organic Chemistry - II	7	8	80	20	80	20
02	Pharmaceutical Tech. and Pharmaceutics		2920102	Novel Drug Delivery System Part-I	7	8	80	20	80	20
03	Pharmacology		2920103	Pharmacometrics and Methods of biological evaluation of drugs	7	8	80	20	80	20
04	Qual. Assurance		2920104	Modern Pharmaceutical analysis	7	8	80	20	80	20
05	Pharmacognosy		2920105	Advanced Analytical Pharmacognosy	7	8	80	20	80	20
06	Clinical Pharmacy		2920106	Applied Pharmacotherapeutics - I	7	8	80	20	80	20
07	Pharmaceutical Analysis		2920107	Pharmaceutical Analysis - II	7	8	80	20	80	20
08	Pharmaceutics		2920102	Novel Drug Delivery System Part-I	7	8	80	20	80	20
09	Pharmaceutical Quality Assurance		2920104	Modern Pharmaceutical analysis	7	8	80	20	80	20
10	Pharmaceutical Technology		2920102	Novel Drug Delivery System Part-I	7	8	80	20	80	20
11	Pharmacology & Toxicology		2920103	Pharmacometrics and Methods of biological evaluation of drugs	7	8	80	20	80	20
12	Industrial Pharmacy		2920108	Industrial Pharmacy-III	7	8	80	20	80	20
13	Quality Assurance Technique		2920104	Modern Pharmaceutical analysis	7	8	80	20	80	20
14	Medical Chemistry		2920101	Advanced Organic Chemistry - II	7	8	80	20	80	20
15	Quality Assurance and Pharm Regulatory Affairs		1921501	Modern Pharmaceutical Analysis	7	8	80	20	80	20
16	Pharmaceutical Management and Regulatory Affairs		1921601	Regulatory Affairs-I	7	8	80	20	80	20
01	Pharm. Chemistry		2920201	Drug Design and Discovery	8	-	80	20	-	-
02	Pharmaceutical Tech. and Pharmaceutics		2920202	Global Regulatory Requirements	8	-	80	20	-	-
03	Pharmacology		2920203	Pharmacotherapeutics	8	-	80	20	-	-
04	Qual. Assurance		2920204	Regulatory Affairs and New Drug Applications	8	-	80	20	-	-

05	Pharmacognosy	Subject of Specialization Paper IV	2920205	Advances in Pharmaceutical Science	8	-	80	20	-	-
06	Clinical Pharmacy		2920206	Clinical Research and Regulatory Affairs	8	-	80	20	-	-
07	Pharmaceutical Analysis-I		2920207	Quality Control & Quality Assurance	8	-	80	20	-	-
08	Pharmaceutics		2920202	Global Regulatory Requirements	8	-	80	20	-	-
09	Pharmaceutical Quality Assurance		2920204	Regulatory Affairs and New Drug Applications	8	-	80	20	-	-
10	Pharmaceutical Technology		2920202	Global Regulatory Requirements	8	-	80	20	-	-
11	Pharmacology & Toxicology		2920203	Pharmacotherapeutics	8	-	80	20	-	-
12	Industrial Pharmacy		2920208	Industrial Pharmacy-IV	8	-	80	20	-	-
13	Quality Assurance Technique		2920204	Regulatory Affairs and New Drug Applications	8	-	80	20	-	-
14	Medical Chemistry		2920201	Drug Design and Discovery	8	-	80	20	-	-
15	Quality Assurance and Pharm Regulatory Affairs		1921502	GMP, GLP and Validation	8	-	80	20	-	-
16	Pharmaceutical Management and Regulatory Affairs		1921602	Pharm Management-II	8	-	80	20	-	-

GUJARAT TECHNOLOGICAL UNIVERSITY

Subject Code/Teaching /Evaluation Scheme for M.Pharm.

Semester -III

(W.e.f -Jan 2012)

Branch Code	Branch Name / Specialization	Subject	Subject Code	Subject Name	Teaching Scheme		EvaluationScheme				TOTAL
					Credits		Theory		Practical		
					Theory	Practical	External	Internal	External	Internal	
00	General	Experimental Design and Patents	930001		7	-	80	20	--	--	100
01	Pharm. Chemistry	Subject of specialization Paper V	930101	Advanced Medicinal Chemistry	7	8	80	20	80	20	200
02	Pharmaceutical Tech. and Pharmaceutics		930102	Novel Drug Delivery System: Part – II	7	8	80	20	80	20	200
03	Pharmacology		930103	Clinical Research and Pharmacy Practice	7	8	80	20	80	20	200
04	Qual. Assurance		930104	Validation and Product Development	7	8	80	20	80	20	200
05	Pharmacognosy		930105	Traditional Drugs	7	8	80	20	80	20	200
06	Clinical Pharmacy		930106	Applied Pharmacotherapeutics - II	7	8	80	20	80	20	200
07	Pharmaceutical Analysis		930107	Pharmaceutical and Cosmetic Analysis	7	8	80	20	80	20	200
08	Pharmaceutics		930102	Novel Drug Delivery System: Part – II	7	8	80	20	80	20	200
09	Pharmaceutical Quality Assurance		930104	Validation and Product Development	7	8	80	20	80	20	200
010	Pharmaceutical Technology		930102	Novel Drug Delivery System: Part – II	7	8	80	20	80	20	200
011	Pharmacology & Toxicology		930103	Clinical Research and Pharmacy Practice	7	8	80	20	80	20	200
012	Industrial Pharmacy		930108	Industrial Pharmacy-V	7	8	80	20	80	20	200
013	Quality Assurance Technique		930104	Validation and Product Development	7	8	80	20	80	20	200

14	Medical Chemistry		930101	Advanced Medicinal Chemistry	7	8	80	20	80	20	200
01	Pharm. Chemistry	Introduction to Dissertation	930201		--	8	--	--	80	20	100
02	Pharmaceutical Tech. and Pharmaceutics		930202		--	8	--	--	80	20	100
03	Pharmacology		930203		--	8	--	--	80	20	100
04	Qual. Assurance		930204		--	8	--	--	80	20	100
05	Pharmacognosy		930205		--	8	--	--	80	20	100
06	Clinical Pharmacy		930206		--	8	--	--	80	20	100
07	Pharmaceutical Analysis		930207		--	8	--	--	80	20	100
08	Pharmaceutics		930202		--	8	--	--	80	20	100
09	Pharmaceutical Quality Assurance		930204		--	8	--	--	80	20	100
010	Pharmaceutical Technology		930202		--	8	--	--	80	20	100
011	Pharmacology & Toxicology		930203		--	8	--	--	80	20	100
012	Industrial Pharmacy		930208		--	8	--	--	80	20	100
013	Quality Assurance Technique		930204		--	8	--	--	80	20	100
014	Medical Chemistry/ Pharmaceutical Chemistry		930201		--	8	--	--	80	20	100

GUJARAT TECHNOLOGICAL UNIVERSITY

Evaluation Scheme for M.Pharm.

SEMESTER – IV

(W.e.f -Jan 2012)

Sr.No.	Subject Code	Subject Name	Credits	Evaluation Scheme			TOTAL
				External		Internal	
				Thesis Progress Review	Final Dissertation	Internal Thesis Evaluation	
1	940001 to 940008	Dissertation	30	60	100	40	200