Faculty Name: Faculty of Pharmaceutical Science

Programme Name: Master of Pharmacy (Pharmaceutical Analysis)

Semester: I

Academic Batch: 2020-21

Course Group	Board of Studies / Faculty Ownership	Course Code	Course Name	Cr	Teaching Scheme				Assessment/Evaluation Type		External Exam Duration (Hrs.)		INT(T) Max./ Passing	EXT(T) Max./ Passing	INT(P) Max./ Passing	EXT(P) Max./ Passing	Grand Total Max./ Passing
					T	P	Tu	Cont. Hrs	T	P	T	P					
Core	Pharmacy	108300101	Modern Pharmaceutical Analytical Techniques	4	4	–	–	4	T	–	3	–	25/10	75/30	–	–	100/40
Core	Pharmacy	108310102	Advanced Pharmaceutical Analysis	4	4	–	–	4	T	–	3	–	25/10	75/30	–	–	100/40
Core	Pharmacy	108310103	Pharmaceutical Validation	4	4	–	–	4	T	–	3	–	25/10	75/30	–	–	100/40
Core	Pharmacy	108310104	Food Analysis	4	4	–	–	4	T	–	3	–	25/10	75/30	–	–	100/40
Core	Pharmacy	108310105	Pharmaceutical Analysis Practical I	6	–	12	–	12	–	P	–	8	–	–	50/20	100/40	150/60
Core	Pharmacy	108310106	Seminar/Assignment	4	–	8	–	8	–	P	–	–	–	–	100/40	–	100/40

 # T = Theory, P = Practical, Tu = Tutorial

Name & Sign [Chairman - Board of Studies]:

Name & Sign [Dean / Director]:

Faculty Name: Faculty of Pharmaceutical Science

Programme Name: Master of Pharmacy (Pharmaceutical Analysis)

Semester: II

Academic Batch: 2020-21

Course Group	Board of Studies / Faculty Ownership	Course Code	Course Name	Cr	Teaching Scheme				Assessment/Evaluation Type		External Exam Duration (Hrs.)		INT(T) Max./ Passing	EXT(T) Max./ Passing	INT(P) Max./ Passing	EXT(P) Max./ Passing	Grand Total Max./ Passing
					T	P	Tu	Cont. Hrs	T	P	T	P					
Core	Pharmacy	108310201	Advanced Instrumental Analysis	4	4	–	–	4	T	–	3	–	25/10	75/30	–	–	100/40
Core	Pharmacy	108310202	Modern Bio-Analytical Techniques	4	4	–	–	4	T	–	3	–	25/10	75/30	–	–	100/40
Core	Pharmacy	108310203	Quality Control and Quality Assurance	4	4	–	–	4	T	–	3	–	25/10	75/30	–	–	100/40
Core	Pharmacy	108310204	Herbal and Cosmetic Analysis	4	4	–	–	4	T	–	3	–	25/10	75/30	–	–	100/40
Core	Pharmacy	108310205	Pharmaceutical Analysis Practical II	6	–	12	–	12	–	P	–	4	–	–	50/20	100/40	150/60
Core	Pharmacy	108310206	Seminar/Assignment	4	–	8	–	8	–	P	–	-	–	–	100/40	–	100/40

 # T = Theory, P = Practical, Tu = Tutorial

Name & Sign [Chairman - Board of Studies]:

Name & Sign [Dean / Director]:

Faculty Name: Faculty of Pharmaceutical Science

Programme Name: Master of Pharmacy (Pharmaceutical Analysis)

Semester: III

Academic Batch: 2020-21

Course Group	Board of Studies / Faculty Ownership	Course Code	Course Name	Cr	Teaching Scheme				Assessment/Evaluation Type		External Exam Duration (Hrs.)		INT(T) Max./ Passing	EXT(T) Max./ Passing	INT(P) Max./ Passing	EXT(P) Max./ Passing	Grand Total Max./ Passing
					T	P	Tu	Cont. Hrs	T	P	T	P					
Core	Pharmacy	108300301	Journal Club I	1	1	–	–	1	T	–	–	–	25/10	–	–	–	25/10
Core	Pharmacy	108300302	Research Methodology and Biostatistics*	4	4	–	–	4	T	–	3	–	25/10	75/30	–	–	100/40
Core	Pharmacy	108300303	Discussion/ Presentation (Proposal Presentation)	2	2	–	–	2	T	–	–	–	50/20	–	-	-	50/20
Core	Pharmacy	108300304	Research Work	14	–	28	–	28	–	–	–	–	–	–	50/20	300/120	350/140

 # T = Theory, P = Practical, Tu = Tutorial

*** Non University Examination**

Name & Sign
[Chairman - Board of Studies]:

Name & Sign
[Dean / Director]:

Faculty Name: Faculty of Pharmaceutical Science

Programme Name: Master of Pharmacy (Pharmaceutical Analysis)

Semester: IV

Academic Batch: 2020-21

Course Group	Board of Studies / Faculty Ownership	Course Code	Course Name	Cr	Teaching Scheme				Assessment/Evaluation Type		External Exam Duration (Hrs.)		INT(T) Max./ Passing	EXT(T) Max./ Passing	INT(P) Max./ Passing	EXT(P) Max./ Passing	Grand Total Max./ Passing
					T	P	Tu	Cont. Hrs	T	P	T	P					
Core	Pharmacy	108300401	Journal Club II	1	1	–	–	1	T	–	–	–	25/10	–	–	–	25/10
Core	Pharmacy	108300402	Discussion/ Presentation	3	3	–	–	3	T	–	–	–	75/30	–	–	–	75/30
Core	Pharmacy	108300403	Research Work – Final Presentation	16	–	32	–	32	–	–	–	–	–	–	100/40	300/120	400/160

 # T = Theory, P = Practical, Tu = Tutorial

Name & Sign [Chairman - Board of Studies]:

Name & Sign [Dean / Director]:

Faculty Name: FACULTY OF PHARMACEUTICAL SCIENCE

Programme Name: Master of Pharmacy (Pharmaceutical Analysis)

Programme Structure Summary

	SEMESTER 1										
Course Group	Course Code	Course Name	Cr	Teaching Scheme				INT(T) Max./ Passing	EXT(T) Max./ Passing	INT(P) Max./ Passing	EXT(P) Max./ Passing	Grand Total Max./ Passing
				T	P	Tu	Cont. Hrs					
Core	108300101	Modern Pharmaceutical Analytical Techniques	4	4	–	–	4	25/10	75/30	–	–	100/40
Core	108310102	Advanced Pharmaceutical Analysis	4	4	–	–	4	25/10	75/30	–	–	100/40
Core	108310103	Pharmaceutical Validation	4	4	–	–	4	25/10	75/30	–	–	100/40
Core	108310104	Food Analysis	4	4	–	–	4	25/10	75/30	–	–	100/40
Core	108310105	Pharmaceutical Analysis Practical I	6	–	12	–	12	–	–	50/20	100/40	150/60
Core	108310106	Seminar/Assignment	4	–	8	–	8	–	–	100/40	–	100/40

T = Theory, P = Practical, Tu = Tutorial

	SEMESTER 2										
Course Group	Course Code	Course Name	Cr	Teaching Scheme				INT(T) Max./ Passing	EXT(T) Max./ Passing	INT(P) Max./ Passing	EXT(P) Max./ Passing	Grand Total Max./ Passing
				T	P	Tu	Cont. Hrs					
Core	108310201	Advanced Instrumental Analysis	4	–	–	4	4	25/10	75/30	–	–	100/40
Core	108310202	Modern Bio-Analytical Techniques	4	–	–	4	4	25/10	75/30	–	–	100/40
Core	108310203	Quality Control and Quality Assurance	4	–	–	4	4	25/10	75/30	–	–	100/40
Core	108310204	Herbal and Cosmetic Analysis	4	–	–	4	4	25/10	75/30	–	–	100/40
Core	108310205	Pharmaceutical Analysis Practical II	6	–	12	–	12	–	–	50/20	100/40	150/60
Core	108310206	Seminar/Assignment	4	–	8	–	8	–	–	100/40	–	100/40

T = Theory, P = Practical, Tu = Tutorial

Faculty Name: FACULTY OF PHARMACEUTICAL SCIENCE

Programme Name: Master of Pharmacy (Pharmaceutical Analysis)

	SEMESTER 3											
Course Group	Course Code	Course Name	Cr	Teaching Scheme				INT(T) Max./ Passing	EXT(T) Max./ Passing	INT(P) Max./ Passing	EXT(P) Max./ Passing	Grand Total Max./ Passing
				T	P	Tu	Cont. Hrs					
Core	108300301	Journal Club I	1	1	-	–	1	25/10	–	–	–	25/10
Core	108300302	Research Methodology and Biostatistics*	4	4	-	–	4	25/10	75/30	–	–	100/40
Core	108300303	Discussion/ Presentation (Proposal Presentation)	2	2	-	–	2	50/20	–	-	-	50/20
Core	108300304	Research Work	14	-	28	–	28	–	–	50/20	300/120	350/140

T = Theory, P = Practical, Tu = Tutorial

* Non University Examination

	SEMESTER 4											
Course Group	Course Code	Course Name	Cr	Teaching Scheme				INT(T) Max./ Passing	EXT(T) Max./ Passing	INT(P) Max./ Passing	EXT(P) Max./ Passing	Grand Total Max./ Passing
				T	P	Tu	Cont. Hrs					
Core	108300401	Journal Club II	1	1	–	–	1	25/10	–	–	–	25/10
Core	108300402	Discussion/ Presentation	3	3	–	–	3	75/30	–	–	–	75/30
Core	108300403	Research Work – Final Presentation	16	–	32	–	32	–	–	100/40	300/120	400/160

T = Theory, P = Practical, Tu = Tutorial

Faculty Name: FACULTY OF PHARMACEUTICAL SCIENCE

Programme Name: Master of Pharmacy (Pharmaceutical Analysis)

Programme Outcomes

PO-1	**Pharmaceutical Knowledge:** Students will have strong knowledge and skills for analysis of Pharmaceutical drug, dosage form, excipients, food & cosmetics and ability to apply them in research and development.
PO-2	**Core Competence:** Students will be competent in the GMP, Regulatory affairs, Quality assurance, Pharmaceutical Analysis and statistical evaluation of data required in Pharmaceutical Industry.
PO-3	**Investigation of complex research problem:** Student will be able to solve complex analytical and research problem related to drug and impurity analysis.
PO-4	**Pharmacy Professionalism and Ethics:** Students will be inculcated with professional and ethical values with respect to pharmacy profession and effective communication skills.
PO-5	**Lifelong learning:** Recognize the need for and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change. Self- assess and use feedback effectively from others to identify learning needs and to satisfy these needs on an ongoing basis.