

Geethanjali College of Pharmacy

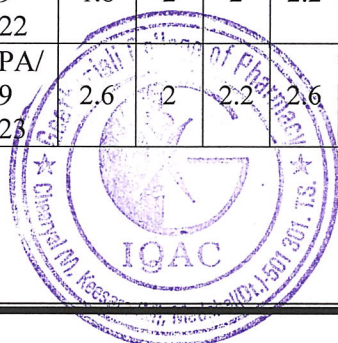
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Cheeryal (V), Keesara (M), Medchal-Malkajgiri Dist., Telangana State- 501301

CO-PO ATTAINMENT REPORT

**Table 1: CO-PO CORRELATION MATRIX OF ALL COURSES
M.PHARMACY (PHARMACEUTICAL ANALYSIS)
REGULATION R19 / BATCH (2019-2021)**

PROGRAMME: M.PHARM (PHARMACEUTICAL ANALYSIS)														
S.N O	Year/ Sem	Course Name	Course Code	CO-PO Correlation value										
				P O 1	P O 2	P O 3	P O 4	P O 5	P O 6	P O 7	P O 8	P O 9	P O 10	P O 11
1	I/I	Modern Pharmaceutical Analytical Techniques(Th)	M.PA/R19 C111	3	-	3	3		3	3		3	3	3
2	I/I	Pharmaceutical and Food Analysis (Th)	M.PA/R19 C112	1.4	-	2.8	1.4	-	1.8	2.6	-	2.6	1.6	1.6
3	I/I	Drug Regulatory Affairs(Th)	M.PA/R19 C114	3	1	3	3	1	3	3	1	3	3	3
4	I/I	Research Methodology & IPR(Th)	M.PA/R19 C119	2.8	1.8	3	2.6	2.8	2.8	2.8	2.8	3	3	3
5	I/I	Stability of Drugs and Dosage Forms (Th)	M.PA/R19 C118	3	3	3	3	3	3	3	3	3	3	3
6	I/I	Modern Pharmaceutical Analytical Techniques (Lab)	M.PA/R19 C1110	3	-	3	3		3	3		3	3	3
7	I/I	Pharmaceutical and Food Analysis (Lab)	M.PA/R19 C1111	1	-	1	2.6	-	1.2	2.2	-	2.6	1.6	2
8	I/I	Value Education (Th)	M.PA/R19 C1115	2.8	2	2.4	2.4	2	2.8	2.8	2	2.4	2.4	3
9	I/II	Advanced Instrumental Analysis-I (Th)	M.PA/R19 C121	3	1.8	1.8	2.8	-	2.2	1.8	-	1.6	1	1.2
10	I/II	Modern Bio-analytical Techniques (Th)	M.PA/R19 C122	1.8	2	2	2.2	-	2.6	2.4	-	1.6	1.8	1.8
11	I/II	Pharmaceutical Validation (Th)	M.PA/R19 C123	2.6	2	2.2	2.6	-	2	1.6	-	2.6	2.4	1.8



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12	I/II	Clinical Research and Pharmacovigilance(Th)	M.PT/R19 C128	3	2	3	2.2	2	3	3	2	3	2.2	3
13	I/II	Advanced Instrumental Analysis-I (Lab)	M.PA/R19 C129	2.6	0	3	3	0	2.6	2.6	0	3	3	3
14	I/II	Modern Bio-analytical Techniques (Lab)	M.PA/R19 C1210	2.6	0	3	3	0	2.6	2.6	0	3	3	3
15	II/I	Scale up and Technology Transfer (Th)	M.PA/R19 C212	3	3	3	3	3	3	3	3	3	3	3
16	II/I	Screening Methods in Pharmacology (Th)	M.PA/R19 C214	3	1	3	3	1	3	3	1	3	3	3
17	II/I	Project	M.PA/R19. C222	3	3	3	3	3	3	3	3	3	3	3
Average CO-PO Correlation				2.8	1.4	2.7	2.8	1.1	2.7	2.8	1.1	2.8	2.5	2.7



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Table:2 CONSOLIDATED CO-ATTAINMENT REPORT M.PHARMACY (PHARMACEUTICAL ANALYSIS) REGULATION R19 / BATCH (2019-2021)

Note: 80% weightage to University examination and 20% weightage to Internal exams the attainment calculations will be (80% of University level) + (20% of Internal level).

CO Attainment based on internal exam
(CI)

CO Attainment based on University exam
(CU)

% students \geq bench mark (50%)	Attainment level
60	1
70	2
80	3

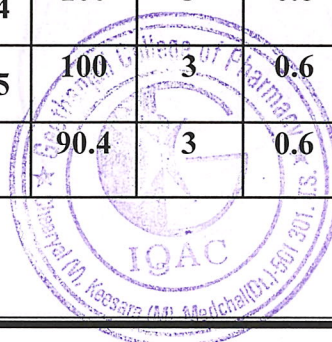
% students \geq bench mark (40%)	Attainment level
60	1
70	2
80	3

BATCH (2019-2021) REGULATION R19

Program: M. Pharmacy/ First Year/ I Semester

1. Modern Pharmaceutical Analytical Techniques (Theory)

Course code	Course name	Course outcomes	CO attainment from Internal exam assessment			CO attainment from University examination			CO Attainment (Internal + University exam) A + B
			CO Attainment (%)	CO Attainment level (a)	A - Internal Exam attainment level (0.20*a)	CO Attainment (%)	CO Attainment level (b)	B - University Examinations attainment level (0.80*b)	
M.PA/ R19. C111	Modern Pharmaceutical Analytical Techniques	CO1	84	3	0.6	100	3	2.4	3
		CO2	84	3	0.6	100	3	2.4	3
		CO3	84	3	0.6	100	3	2.4	3
		CO4	100	3	0.6	100	3	2.4	3
		CO5	100	3	0.6	100	3	2.4	3
Overall CO attainment			90.4	3	0.6	100	3	2.4	3



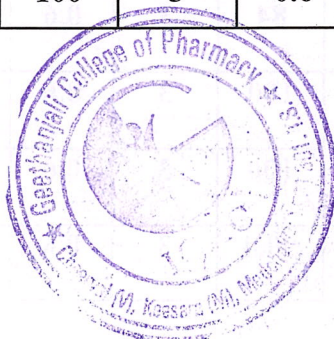
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2. Pharmaceutical and Food Analysis (Theory)

Course code	Course name	Course outcomes	CO attainment from Internal exam assessment			CO attainment from University examination			CO Attainment (Internal+ University exam) A + B
			CO Attainment (%)	CO Attainment level (a)	A - Internal Exam attainment level (0.20*a)	CO Attainment (%)	CO Attainment level (b)	B - University Examinations attainment level (0.80*b)	
M.P A/ R19. C112	Pharmaceutical and Food Analysis	CO1	83.3	3	0.6	100	3	2.4	3
		CO2	0	0	0	100	3	2.4	2.4
		CO3	66.6	3	0.6	100	3	2.4	3
		CO4	66.6	3	0.6	100	3	2.4	3
		CO5	100	3	0.6	100	3	2.4	3
Overall CO attainment			86.66	2.4	0.6	100	3	2.4	2.8

3. Drug Regulatory Affairs (Theory)

Course code	Course name	Course outcomes	CO attainment from Internal exam assessment			CO attainment from University examination			CO Attainment (Internal + University exam) A + B
			CO Attainment (%)	CO Attainment level (a)	A - Internal Exam attainment level (0.20*a)	CO Attainment (%)	CO Attainment level (b)	B - University Examinations attainment level (0.80*b)	
M.P A/ R19. C114	Drug Regulatory Affairs	CO1	100	3	0.6	100	3	2.4	3
		CO2	100	3	0.6	100	3	2.4	3
		CO3	100	3	0.6	100	3	2.4	3
		CO4	100	3	0.6	100	3	2.4	3
		CO5	100	3	0.6	100	3	2.4	3
Overall CO attainment			100	3	0.6	100	3	2.4	3



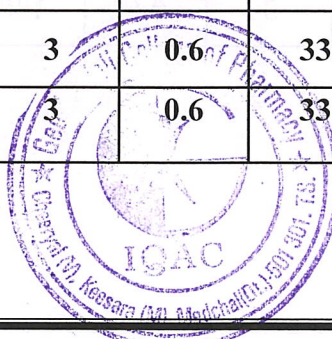

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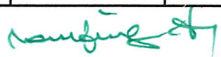
4. Research Methodology & Intellectual Property Rights (Theory)

Course code	Course name	Course outcomes	CO attainment from Internal exam assessment			CO attainment from University examination			CO Attainment (Internal + University exam) A + B
			CO Attainment (%)	CO Attainment level (a)	A - Internal Exam attainment level (0.20*a)	CO Attainment (%)	CO Attainment level (b)	B - University Examinations attainment level (0.80*b)	
M.PA/ R19. C115	Research Methodology & Intellectual Property Rights	CO1	75	2	0.4	83.3	3	2.4	2.8
		CO2	41.6	0	0	83.3	3	2.4	2.4
		CO3	41.6	0	0	83.3	3	2.4	2.4
		CO4	91.6	3	0.6	83.3	3	2.4	3
		CO5	91.6	3	0.6	83.3	3	2.4	3
Overall CO attainment			68.28	1.6	0.32	83.3	3	2.4	2.72

5. Stability of Drug and Dosage Form (Theory)

Course code	Course name	Course outcomes	CO attainment from Internal exam assessment			CO attainment from University examination			CO Attainment (Internal+ University exam) A + B
			CO Attainment (%)	CO Attainment level (a)	A - Internal Exam attainment level (0.20*a)	CO Attainment (%)	CO Attainment level (b)	B - University Examinations attainment level (0.80*b)	
M.PA/ R19. C118	Stability of Drug and Dosage Form	CO1	100	3	0.6	33	0	0	0.6
		CO2	100	3	0.6	33	0	0	0.6
		CO3	100	3	0.6	33	0	0	0.6
		CO4	100	3	0.6	33	0	0	0.6
		CO5	100	3	0.6	33	0	0	0.6
Overall CO attainment			100	3	0.6	33	0	0	0.6




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6. Modern Pharmaceutical Analytical Techniques (Lab)

Course code	Course name	Course outcomes	CO attainment from Internal exam assessment			CO attainment from University examination			CO Attainment (Internal+ University exam) A + B
			CO Attainment (%)	CO Attainment level (a)	A - Internal Exam attainment level (0.20*a)	CO Attainment (%)	CO Attainment level (b)	B - University Examinations attainment level (0.80*b)	
M.PA/R19.C1110	Modern Pharmaceutical Analytical Techniques (LAB)	CO1	100	3	0.6	100	3	2.4	3
		CO2	100	3	0.6	100	3	2.4	3
		CO3	84	3	0.6	100	3	2.4	3
		CO4	100	3	0.6	100	3	2.4	3
		CO5	100	3	0.6	100	3	2.4	3
Overall CO attainment			80	2.4	96.8	3	0.6	100	3

7. Pharmaceutical and Food Analysis (Lab)

Course code	Course name	Course outcomes	CO attainment from Internal exam assessment			CO attainment from University examination			CO Attainment (Internal+ University exam) A + B
			CO Attainment (%)	CO Attainment level (a)	A - Internal Exam attainment level (0.20*a)	CO Attainment (%)	CO Attainment level (b)	B - University Examinations attainment level (0.80*b)	
M.P A /R19. C111 1	Pharmaceutical and Food Analysis (LAB)	CO1	100	3	0.6	100	3	2.4	3
		CO2	100	3	0.6	100	3	2.4	3
		CO3	100	3	0.6	100	3	2.4	3
		CO4	100	3	0.6	100	3	2.4	3
		CO5	100	3	0.6	100	3	2.4	3
Overall CO attainment			100	3	0.6	100	3	2.4	3



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8. Audit Course-1 Value Education (Theory)

Course code	Course name	Course outcomes	CO attainment from Internal exam assessment			CO attainment from University examination			CO Attainment (Internal + University exam) A + B
			CO Attainment (%)	CO Attainment level (a)	A - Internal Exam attainment level (0.20*a)	CO Attainment (%)	CO Attainment level (b)	B - University Examinations attainment level (0.80*b)	
M.PA / R19. C111 5	Value Education	CO1	100	3	0.6	0	0	0	0.6
		CO2	0	0	0	0	0	0	0
		CO3	100	3	0.6	0	0	0	0.6
		CO4	100	3	0.6	0	0	0	0.6
		CO5	100	3	0.6	0	0	0	0.6
Overall CO attainment			80	2.4	2.4	0	0	0	0.48



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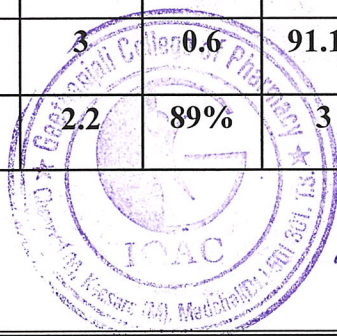
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M. Pharmacy/ First Year/ II Semester**1. Advanced Instrumental Analysis-I (Theory)**

Course code	Course name	Course outcomes	CO attainment from Internal exam assessment			CO attainment from University examination			CO Attainment (Internal + University exam) A + B
			CO Attainment (%)	CO Attainment level (a)	A - Internal Exam attainment level (0.20*a)	CO Attainment (%)	CO Attainment level (b)	B - University Examinations attainment level (0.80*b)	
M.P A/ R19. C121	Advanced Instrumental Analysis-I	CO1	100	3	0.6	28.5	0	0	0.6
		CO2	100	3	0.6	28.5	0	0	0.6
		CO3	100	3	0.6	28.5	0	0	0.6
		CO4	100	3	0.6	28.5	0	0	0.6
		CO5	100	3	0.6	28.5	0	0	0.6
Overall CO attainment			100	3	0.6	28.5	0	0	0.6

2. Modern Bio-analytical Techniques (Theory)

Course code	Course name	Course outcomes	CO attainment from Internal exam assessment			CO attainment from University examination			CO Attainment (Internal+University exam) A + B
			CO Attainment (%)	CO Attainment level (a)	A - Internal Exam attainment level (0.20*a)	CO Attainment (%)	CO Attainment level (b)	B - University Examinations attainment level (0.80*b)	
M.P T / R19. C122	Modern Bio-analytical Techniques	CO1	76.7	2	0.4	91.14	3	2.4	2.8
		CO2	92.80 %	3	0.6	91.14	3	2.4	3
		CO3	87.50 %	3	0.6	91.14	3	2.4	3
		CO4	88%	3	0.6	91.14	3	2.4	3
		CO5	100%	3	0.6	91.14	3	2.4	3
Overall CO attainment			86.64	2.2	0.6	91.14	3	0.6	3



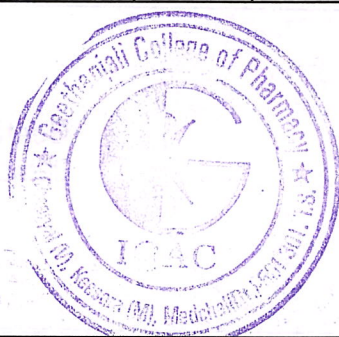
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3. Pharmaceutical Validation (Theory)

Course code	Course name	Course outcomes	CO attainment from Internal exam assessment			CO attainment from University examination			CO Attainment (Internal + University exam) A + B
			CO Attainment (%)	CO Attainment level (a)	A - Internal Exam attainment level (0.20*a)	CO Attainment (%)	CO Attainment level (b)	B - University Examinations attainment level (0.80*b)	
M.P A/ R19. C12 3	Pharmaceutical Validation	CO1	100	3	0.6	62.8	2	1.6	2.2
		CO2	100	3	0.6	62.8	2	1.6	2.2
		CO3	100	3	0.6	62.8	2	1.6	2.2
		CO4	100	3	0.6	62.8	2	1.6	2.2
		CO5	100	3	0.6	62.8	2	1.6	2.2
Overall CO attainment			100	3	100 %	62.8	2	1.6	2.2

4. Clinical Research and Pharmacovigilance (Theory)

Course code	Course name	Course outcomes	CO attainment from Internal exam assessment			CO attainment from University examination			CO Attainment (Internal + University exam) A + B
			CO Attainment (%)	CO Attainment level (a)	A - Internal Exam attainment level (0.20*a)	CO Attainment (%)	CO Attainment level (b)	B - University Examinations attainment level (0.80*b)	
M.P A/ R19. C128	Clinical Research and Pharmacovigilance	CO1	100	3	0.6	100	3	2.4	3
		CO2	100	3	0.6	100	3	2.4	3
		CO3	100	3	0.6	100	3	2.4	3
		CO4	100	3	0.6	100	3	2.4	3
		CO5	100	3	0.6	100	3	2.4	3
Overall CO attainment			100	3	0.6	100	3	2.4	3



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5. Advanced Instrumental Analysis-I (Lab)

Course code	Course name	Course outcomes	CO attainment from Internal exam assessment			CO attainment from University examination			CO Attainment (Internal + University exam) A + B
			CO Attainment (%)	CO Attainment level (a)	A - Internal Exam attainment level (0.20*a)	CO Attainment (%)	CO Attainment level (b)	B - University Examination attainment level (0.80*b)	
M.P A/ R19. C129	Advanced Instrumental Analysis-I (LAB)	CO1	76.7	2	0.4	91.14	3	2.4	2.8
		CO2	92.8	3	0.6	91.14	3	2.4	3
		CO3	87.5	3	0.6	91.14	3	2.4	3
		CO4	88	3	0.6	91.14	3	2.4	3
		CO5	100	3	0.6	91.14	3	2.4	3
Overall CO attainment			100	3	0.56	91.14	3	2.4	2.9

6. Modern Bio-analytical Techniques (Lab)

Course code	Course name	Course outcomes	CO attainment from Internal exam assessment			CO attainment from University examination			CO Attainment (Internal+ University exam) A + B
			CO Attainment (%)	CO Attainment level (a)	A - Internal Exam attainment level (0.20*a)	CO Attainment (%)	CO Attainment level (b)	B - University Examination attainment level (0.80*b)	
M.PA / R19. C121 0	Modern Bio-analytical Techniques (LAB)	CO1	76.7	2	0.4	91.14	3	2.4	2.8
		CO2	92.8	3	0.6	91.14	3	2.4	3
		CO3	87.5	3	0.6	91.14	3	2.4	3
		CO4	88	3	0.6	91.14	3	2.4	3
		CO5	100	3	0.6	91.14	3	2.4	3
Overall CO attainment			100	3	0.56	91.14	3	2.4	2.9




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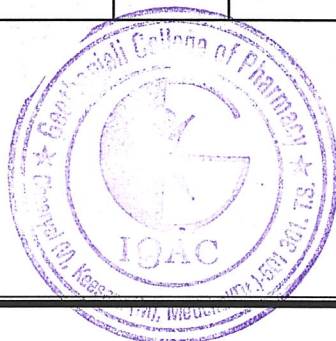
M. Pharmacy/ Second Year/ I Semester

1 Scale Up and Technology Transfer (Theory)

Course code	Course name	Course outcomes	CO attainment from Internal exam assessment			CO attainment from University examination			CO Attainment (Internal+ University exam) A + B
			CO Attainment (%)	CO Attainment level (a)	A - Internal Exam attainment level (0.20*a)	CO Attainment (%)	CO Attainment level (b)	B - University Examinations attainment level (0.80*b)	
M.PT / R19. C212	STT	CO1	100	3	0.6	66.66	1	0.8	1.4
		CO2	100	3	0.6	66.66	1	0.8	1.4
		CO3	100	3	0.6	66.66	1	0.8	1.4
		CO4	100	3	0.6	66.66	1	0.8	1.4
		CO5	100	3	0.6	66.66	1	0.8	1.4
Overall CO attainment			100	3	0.6	66.66	1	0.8	1.4

2. Audits and Regulatory Compliance (Theory)

Course code	Course name	Course outcomes	CO attainment from Internal exam assessment			CO attainment from University examination			CO Attainment (Internal + University exam) A + B
			CO Attainment (%)	CO Attainment level (a)	A - Internal Exam attainment level (0.20*a)	CO Attainment (%)	CO Attainment level (b)	B - University Examinations attainment level (0.80*b)	
M.P T/ R19. C218	Audit Regulatory Compliances	CO1	100	3	0.6	66.66	1	0.8	1.4
		CO2	100	3	0.6	66.66	1	0.8	1.4
		CO3	100	3	0.6	66.66	1	0.8	1.4
		CO4	100	3	0.6	66.66	1	0.8	1.4
		CO5	100	3	0.6	66.66	1	0.8	1.4
Overall CO attainment			100	3	0.6	66.66	1	0.8	1.4



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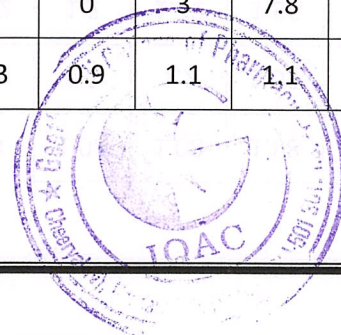
Table 3: DIRECT ATTAINMENT OF PROGRAMME OUTCOMES OF ALL COURSES

M.PHARMACY (PHARMACEUTICAL ANALYSIS)

REGULATION R19 / BATCH (2019-2021)

PROGRAMME: M.PHARM (PHARMACEUTICAL ANALYSIS)

S.No.	Course Name	Course Code	Overall CO attainment I(A)	(A*B) of courses										
				PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
1	Modern Pharmaceutical Analytical Techniques (Th)	M.PA/R19 C111	3	9	0	9	9	0	9	9	0	9	9	9
2	Pharmaceutical and Food Analysis (Th)	M.PA/R19 C112	2.8	3.92	0	8.4	4.2	0	5.4	7.8	0	7.8	4.8	4.8
3	Drug Regulatory Affairs(Th)	M.PT/R19 C114	3	9	3	9	9	3	9	9	3	9	9	9
4	Research Methodology & IPR(Th)	M.PT/R19 C115	2.72	7.6	4.8	8.2	7.1	7.6	7.6	7.6	7.6	8.1	8.1	8.1
5	Stability of Drugs and Dosage Forms (Th)	M.PT/R19 C119	0.6	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
6	Modern Pharmaceutical Analytical Techniques (Lab)	M.PA/R19 C1110	3	9	0	9	9	0	9	9	0	9	9	9
7	Pharmaceutical and Food Analysis (Lab)	M.PA/R19 C1111	3	3	0	3	7.8	0	3.6	6.6	0	7.8	4.8	6
8	Value Education (Th)	M.PT/R19 C1115	0.48	1.3	0.9	1.1	1.1	0.9	1.3	1.3	0.9	1.1	1.1	1.4



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9	Advanced Instrumental Analysis-I (Th)	M.PA/R19 C121	0.6	1.8	1.08	1.08	1.68	0	1.32	1.08	0	0.96	0.6	0.72
10	Modern Bio-analytical Techniques (Th)	M.PA/R19 C122	3	5.4	1.2	1.2	1.32	0	1.56	1.44	0	0.96	1.08	1.08
11	Pharmaceutical Validation (Th)	M.PA/R19 C123	2.2	5.72	1.2	1.32	1.56	0	1.2	0.96	0	1.56	1.44	1.08
12	Clinical Research and Pharmacovigilance(Th)	M.PA/R19 C128	3	9	6	9	6.6	6	9	9	6	9	6.6	9
13	Advanced Instrumental Analysis-I (Lab)	M.PA/R19 C129	2.9	6.76	0	7.8	7.8	0	6.76	6.76	0	7.8	7.8	7.8
14	Modern Bio-analytical Techniques (Lab)	M.PA/R19 C1210	2.9	0	8.7	8.7	0	7.54	7.54	0	8.7	8.7	8.7	8.7
15	Scale up and Technology Transfer (Th)	M.PA/R19 C212	1.4	4.2	1.4	4.2	4.2	1.4	4.2	4.2	1.4	4.2	4.2	4.2
16	Screening Methods in Pharmacology (Th)	M.PT/R19 C214	1.4	4.2	1.4	4.2	4.2	1.4	4.2	4.2	1.4	4.2	4.2	4.2
17	Project	M.PT/R19 .C222	3	9	9	9	9	9	9	9	9	9	9	9
Average of {(A*B) of all courses}				5.33	2.38	5.64	5.02	2.27	5.38	5.22	2.34	5.88	5.36	5.58
Average correlation values of CO-PO matrix (B) of all courses				2.8	1.4	2.7	2.8	1.1	2.7	2.8	1.1	2.8	2.5	2.7
DIRECT ATTAINMENT				1.90	1.7	2.08	1.79	2.06	1.99	1.86	2.12	2.1	2.144	2.06
DIRECT ATTAINMENT (80%)				1.52	1.36	1.67	1.43	1.65	1.59	1.49	1.70	1.68	1.71	1.65



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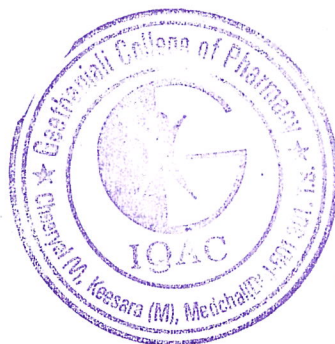
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Table 4: INDIRECT ATTAINMENT OF PROGRAMME OUTCOMES OF ALL COURSES

M.PHARMACY (PHARMACEUTICAL ANALYSIS)

REGULATION R19 / BATCH (2019-2021)

PROGRAMME: M.PHARMACY (PHARMACEUTICAL ANALYSIS)														
Batch	Total Students	Survey Details	Total No of Surveys	P O 1	P O 2	P O 3	P O 4	P O 5	P O 6	P O 7	P O 8	P O 9	P O 10	P O 11
2019-21	7	PES	7	7	6	7	7	7	7	6	7	7	6	7
Indirect attainment level				2.57	2.68	2.36	2.46	2.57	2.79	2.68	2.46	2.68	2.36	2.36
2019-21	5	AS	5	5	5	5	5	5	5	5	5	5	5	5
Indirect attainment level				2.6	2.4	2.3	2.9	2.6	2.4	2.25	2.4	2.25	2.7	2.55
2019-21	3	ES	0	0	0	0	0	0	0	0	0	0	0	0
Indirect attainment level				0	0	0	0	0	0	0	0	0	0	0



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Table 5: OVERALL PO ATTAINMENT OF PROGRAMME OUTCOMES OF ALL COURSES

**M.PHARMACY (PHARMACEUTICAL ANALYSIS)
REGULATION R19 / BATCH (2019-2021)**

PO ATTAINMENT	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
DIRECT ATTAINMENT (80%)	1.52	1.36	1.67	1.43	1.65	1.59	1.49	1.70	1.68	1.71	1.65
PROG EXIT SURVEY (10%)	2.57	2.68	2.36	2.46	2.57	2.79	2.68	2.46	2.68	2.36	2.36
EMPLOYER SURVEY (05%)	0	0	0	0	0	0	0	0	0	0	0
ALUMNI SURVEY (05%)	2.6	2.4	2.3	2.9	2.6	2.4	2.25	2.4	2.25	2.7	2.55
OVERALL PO ATTAINMENT	1.67	1.61	1.58	1.69	1.7	1.69	1.6	1.64	1.65	1.69	1.64



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Table 6: EVALUATION OF ATTAINMENT OF PO'S OF ALL COURSES

M.PHARMACY (PHARMACEUTICAL ANALYSIS)

REGULATION R19 / BATCH (2019-2021)

PO	ELOA	ALOA
PO1	3	1.67
PO2	3	1.61
PO3	3	1.58
PO4	3	1.69
PO5	3	1.7
PO6	3	1.69
PO7	3	1.6
PO8	3	1.64
PO9	3	1.65
PO10	3	1.69
PO11	3	1.64

Note: Expected level of attainment (ELOA); Actual level of attainment (ALOA)

N. Ann
HOD/ PROGRAMME COORDINATOR

Department of Pharmaceutical Analysis
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