



## **2.6 Student Performance and Learning Outcomes**

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## 1. PO's and CO's Attainment Evaluation Process



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### PO's and CO's Attainment Evaluation Process

#### Attainment Assessment Process:

The assessment of the understanding of the principles involved in each course both in theory and practical components & the attainment of the set course outcomes is done by Internal Assessment (formative assessment weightage 70%) and End semester examination (summative assessment weightage 30%).

#### Quality/Relevance of data collection

Data collection is done through the scores in written internal examination with question-wise analysis and continuous mode (such as assignments/seminars/open book test/class test/quiz/group discussion/flipped classrooms etc.). The syllabus and the course plans are designed in such a way as to achieve the defined course outcomes and the examinations are designed to check the attainment of course outcomes:

- i. **Internal assessment (IA):** Two Internal assessments are conducted every semester and the student's attainment is done per Bloom's level question paper set. The course outcome attainment is taken for the assignments, open book tests, quiz, flipped class, group discussion, seminar etc.
- ii. **External assessment (EA):** As per the student's performance in the end-semester examination the attainment is calculated and mapped with the PO's.

#### The setting of attainment levels:

**Step 1: Setting of CO attainment levels:** The CO attainment levels are set for each course in the final examination as a target. Accordingly, the target levels for CO attainment are set. For attainment level 1: 51-65%, 2:66-80%, and 3:81 & above.

#### Step 2: Setting of CO-PO attainment levels:

POs are statements that describe what the students graduating from any program should be able to do at the time of graduation. The CO's thus set are mapped with the PO's and the CO-PO matrix is published in the LMS.



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### Step 3: Attainment of CO & PO.

The attainment of COs is taken as the average attainment of all the COs for the course and expressed as CO-IA (threshold set to 50%, module percentage weightage 100%) and percentage weightage level set to 70% of CO attainment through IA. However, the institution is not accessible to the distribution of marks to corresponding COs from end semester examination results, with that as constraint CO-EA (CO attainment through end semester examination) is computed with total score obtained in the final examination and percentage weightage set to the EA as 30%. Together is expressed as the attainment of CO and PO for each course of the particular year.

The OBE process via VMEdulife provides an ICT platform for the,

- Clarity: An explicit statement, of what the educational process aims to achieve, clarifies the curriculum for both students and teachers and provides a focus for teaching and learning.
- Provision of a Framework: Outcome-based education provides a robust framework for the integration of the curriculum.
- Guide for Assessment: The outcomes provide the framework for student examinations.
- Facilitates Curriculum Evaluation: The outcomes provide benchmarks against which the curriculum can be judged.



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## Course Attainment (LYG 2021-2022)

## a. B. Pharmacy



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## COURSE OUTCOME (CO) ATTAINMENT

## B. PHARMACY

## LATEST GRADUATING YEAR LYG 2021-2022 ADMISSION BATCH 2018-19

CLASS & A. Y.	COURSE CODE	COURSE NAME	AVERAGE CO ATTAINMENT
I YEAR (2018-19)	BP101T	Human Anatomy and Physiology I– Theory	3
	BP102T	Pharmaceutical Analysis I – Theory	2.85
	BP103T	Pharmaceutics I – Theory	2.93
	BP104T	Pharmaceutical Inorganic Chemistry – TH	3
	BP201T	Human Anatomy and Physiology II – Theory	2.53
	BP202T	Pharmaceutical Organic Chemistry I – TH	2.29
	BP203T	Biochemistry – Theory	2.7
	BP204T	Pathophysiology – Theory	2.4
II YEAR (2019-20)	BP301T	Pharmaceutical Organic Chemistry II – TH	2.67
	BP302T	Physical Pharmaceutics I – Theory	2.25
	BP303T	Pharmaceutical Microbiology – Theory	3
	BP304T	Pharmaceutical Engineering I – Theory	2.68
	BP401T	Pharmaceutical Organic Chemistry III – Theory	2.87
	BP402T	Medicinal Chemistry I – Theory	2.88
	BP403T	Physical Pharmaceutics II – Theory	2.64
	BP404T	Pharmacology I – Theory	2.18
III YEAR (2020-21)	BP405T	Pharmacognosy and Phytochemistry I – Theory	2.95
	BP501T	Medicinal Chemistry II – Theory	2.12
	BP502T	Industrial Pharmacy I – Theory	2.20
	BP503T	Pharmacology II – Theory	3
	BP504T	Pharmacognosy and Phytochemistry II – TH	2.61
	BP505T	Pharmaceutical Jurisprudence – Theory	2.5
	BP601T	Medicinal Chemistry III – Theory	2.72
	BP602T	Pharmacology III – Theory	2.74
	BP603T	Herbal Drug Technology – Theory	2.65
	BP604T	Bio Pharmaceutics and Pharmacokinetics – TH	2.57
	BP605T	Pharmaceutical Biotechnology – Theory	2.53
	BP606T	Quality Assurance – Theory	2.65



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CLASS & A. Y.	COURSE CODE	COURSE NAME	AVERAGE CO ATTAINMENT
IV YEAR (2021-22)	BP701T	Instrumental Methods of Analysis -Theory	2.55
	BP702T	Industrial Pharmacy II – Theory	2.47
	BP703T	Pharmacy Practice – Theory	2.93
	BP704T	Novel Drug Delivery System – Theory	2.64
	BP801T	Biostatistics and Research Methodology	2.57
	BP802T	Social and Preventive Pharmacy	2.88
	BP803ET	Pharma Marketing Management	2.96
	BP805ET	Pharmacovigilance	2.38

(Attainment Levels: 3- High, 2-Moderate, 1-Low, '-' Nil)



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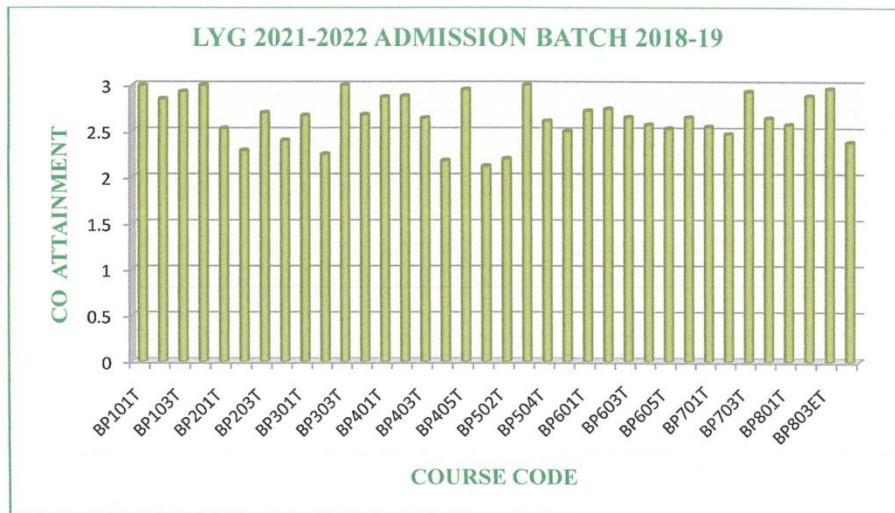
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**Graphical Representation of Course Outcome Attainment for B. Pharmacy:**



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## b. M. Pharmacy (Pharmaceutics)



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## PROGRAM OUTCOME ATTAINMENT

## M. PHARMACY Pharmaceutical Quality Assurance

## LATEST GRADUATING YEAR LYG 2021-2022 ADMISSION BATCH 2020-21

COURSE CODE	COURSE NAME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
MQA101T	Modern pharmaceutical analytical technique	2.31	2.31	1.15	2.31	0.77	0.77	0.77	-	-	0.77	0.77
MQA 102T	Quality Management System	2.52	2.1	2.31	2.1	-	1.89	1.89	1.89	1.89	-	2.31
MQA 103T	Quality Control and Quality Assurance	2.53	2.3	2.53	2.3	-	2.3	2.53	2.3	2.45	-	2.53
MQA 104T	Product Development and Technology Transfer	2.38	1.73	1.3	1.95	1.44	1.3	1.73	1.08	1.3	1.08	1.08
MQA 105P	Pharmaceutical Quality Assurance I Practical	2.63	3	2	2.33	2.33	2	2.67	2	2.5	2	2.67
MQA101T	Safety and hazards	3	2	2	2	3	3	2.5	2.25	2.75	3	2.75
MQA 202T	Pharmaceutical Validation	2.75	2.75	2.5	2.5	-	2.5	2.5	2.5	2.5	-	2.25
MQA 203T	Audits & Regulatory Compliance	2.16	1.62	1.62	1.44	1.26	1.8	1.62	1.44	1.8	1.2	1.44
MQA 204T	Pharmaceutical Manufacturing Technology	2.75	2.25	2.5	2.5	-	2.5	2.5	2.5	2.5	-	2.5
MQA205P	Pharmaceutical Quality Assurance II Practical	2.88	2.24	1.92	2.57	2.24	2.24	2.57	2.24	2.24	2.24	2.24
MRM301T	Research methodology	3	3	3	3	3	3	3	3	-	3	3
	<b>Total PO attainment</b>	<b>2.63</b>	<b>2.3</b>	<b>2.08</b>	<b>2.27</b>	<b>2.00</b>	<b>2.12</b>	<b>2.20</b>	<b>2.12</b>	<b>2.21</b>	<b>1.89</b>	<b>2.14</b>

(Attainment Levels: 3- High, 2-Moderate, 1-Low, '-' Nil)



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**COURSE OUTCOME (CO) ATTAINMENT**

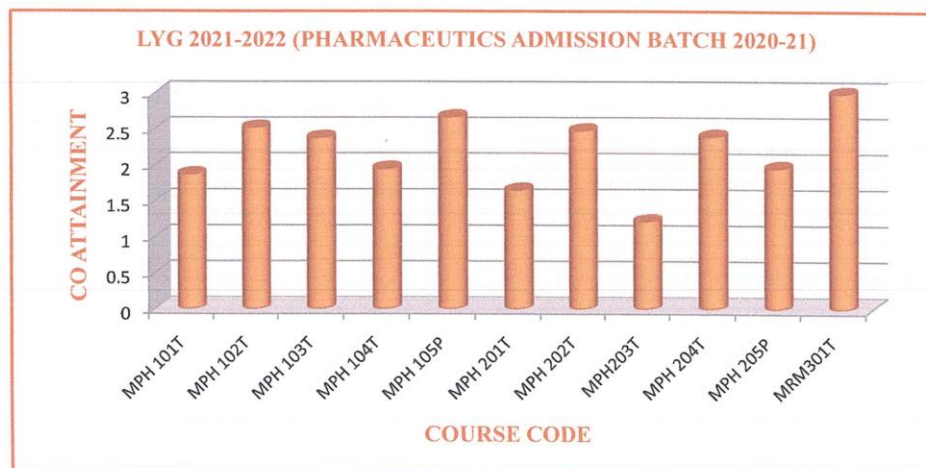
**M.PHARMACY (PHARMACEUTICS)**

**LATEST GRADUATING YEAR LYG 2021-2022 ADMISSION BATCH 2020-21**

CLASS & A. Y.	COURSE CODE	COURSE NAME	CO
SEM I (2020-2021)	MPH 101T	Modern Pharmaceutical Analytical Techniques	1.87
	MPH 102T	Drug Delivery System	2.52
	MPH 103T	Modern Pharmaceutics	2.38
	MPH 104T	Regulatory affairs	1.95
	MPH 105P	Pharmaceutics Practical I	2.67
SEM II (2020-2021)	MPH 201T	Molecular Pharmaceutics	1.65
	MPH 202T	Advanced Bio pharmaceutics and Pharmacokinetics	2.48
	MPH203T	Computer Aided Drug Delivery	1.22
	MPH 204T	Cosmetics & Cosmeceuticals	2.40
	MPH 205P	Pharmaceutics Practical II	1.96
SEM III (2021-2022)	MRM301T	Research Methodology	3

(Attainment Levels: 3- High, 2-Moderate, 1-Low, '-' Nil)

**Graphical Representation of Course Outcome Attainment for M. Pharm.  
(Pharmaceutics):**



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c. M. Pharmacy (Pharmaceutical Quality Assurance)



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COURSE OUTCOME (CO) ATTAINMENT

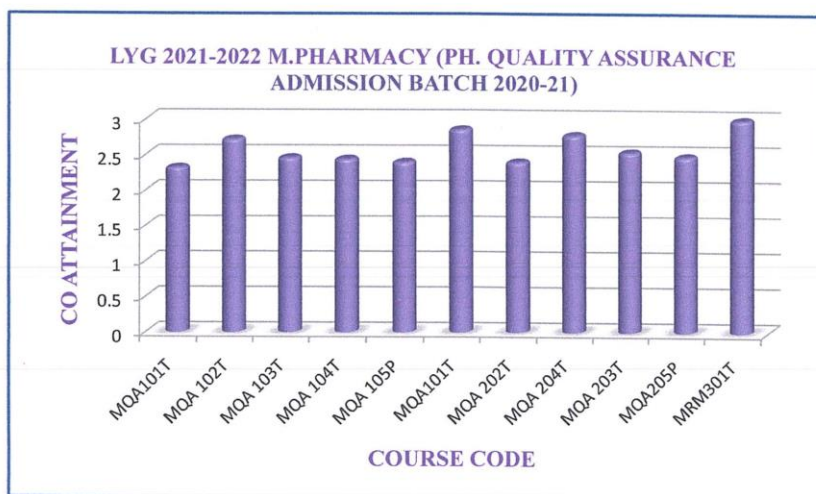
M.PHARMACY Pharmaceutical Quality Assurance

LATEST GRADUATING YEAR LYG 2021-2022 ADMISSION BATCH 2020-21

CLASS & A. Y.	COURSE CODE	COURSE NAME	CO
SEM I (2020-2021)	MQA101T	Modern pharmaceutical analytical technique	2.32
	MQA 102T	Quality Management System	2.72
	MQA 103T	Quality Control and Quality Assurance	2.46
	MQA 104T	Product Development and Technology Transfer	2.44
	MQA 105P	Pharmaceutical Quality Assurance I Practical	2.40
SEM II (2020-2021)	MQA101T	Safety and hazards	2.86
	MQA 202T	Pharmaceutical Validation	2.40
	MQA 204T	Pharmaceutical Manufacturing Technology	2.78
	MQA 203T	Audits & Regulatory Compliance	2.54
	MQA205P	Pharmaceutical Quality Assurance II Practical	2.48
SEM III (2021-2022)	MRM301T	Research methodology	3

(Attainment Levels: 3- High, 2-Moderate, 1-Low, '-' Nil)

Graphical Representation of Course Outcome Attainment for M. Pharmacy  
(Pharmaceutical Quality Assurance):



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## a. B. Pharmacy



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## PROGRAM OUTCOME (PO) ATTAINMENT

## B. PHARMACY

## LATEST YEAR OF GRADUATION LYG 2021-2022 ADMISSION BATCH 2018-19

COURSE CODE	COURSE NAME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BP101T	Human Anatomy and Physiology I – Theory	3	3	3	-	2	3	3	3	2	-	3
BP102T	Pharmaceutical Analysis I – Theory	2.85	2.13	1.9	-	-	2.13	2.13	2.13	2.38	-	2.38
BP103T	Pharmaceutics I – Theory	2.44	2.27	2.44	1.95	-	2.42	2.42	2.42	2.42	-	2.42
BP104T	Pharmaceutical Inorganic Chemistry – Theory	3	-	1	1	-	-	-	-	1	-	1.8
BP201T	Human Anatomy and Physiology II – Theory	2.53	0.84	0.84	2.19	-	1.68	-	-	0.84	-	2.53
BP202T	Pharmaceutical Organic Chemistry I – Theory	1.52	-	1.2	0.76	-	-	-	-	0.76	-	1.2
BP203T	Biochemistry – Theory	2.7	-	0.9	0.9	-	-	-	-	0.9	0.9	0.9
BP204T	Pathophysiology – Theory	2.4	0.8	0.8	1.6	-	-	-	-	1.6	1.6	1.6
BP301T	Pharmaceutical Organic Chemistry II – Theory	2.66	1.6	2.58	2.32	2.32	2.14	2.22	2.13	-	2.22	2.57
BP302T	Physical Pharmaceutics I – Theory	2.12	1.75	2.12	1.5	1	1	0.75	0.75	1.5	1.25	1.5
BP303T	Pharmaceutical Microbiology – Theory	3	1	2.4	1.6	-	-	1.3	-	1	1.15	2
BP304T	Pharmaceutical Engineering I – Theory	2.45	1.78	2.23	1.78	-	-	-	-	-	1.12	1.78
BP401T	Pharmaceutical Organic Chemistry III – Theory	2.87	0.96	1.91	1.91	-	1.91	-	0.96	1.91	1.91	2.87
BP402T	Medicinal Chemistry I – Theory	2.64	2.39	2.47	2.47	2.47	2.56	2.46	2.71	-	2.39	2.39
BP403T	Physical Pharmaceutics II – Theory	2.2	1.87	1.98	1.98	2.2	2.2	-	-	-	-	-
BP404T	Pharmacology I – Theory	1.82	1.56	2.07	2.48	1.86	1.53	1.63	1.92	1.71	-	1.71
BP405T	Pharmacognosy & Phytochemistry I – Theory	1.71	0.98	0.98	0.98	-	0.98	0.98	0.98	0.98	-	0.98
BP501T	Medicinal Chemistry II – Theory	1.71	-	1.63	1.91	-	-	-	-	1.46	-	1.97
BP502T	Industrial Pharmacy I – Theory	1.9	1.72	1.46	1.46	0.73	1.46	1.46	1.46	1.46	-	1.46
BP503T	Pharmacology II – Theory	2.72	-	-	-	-	1.8	1.85	1.75	1.9	-	1.7
BP504T	Pharmacognosy & Phytochemistry II – Theory	1.74	1.74	1.21	-	1.91	2.08	1.39	0.87	1.91	1.91	2.35
BP505T	Pharmaceutical Jurisprudence – Theory	2.31	1.93	2.31	1.02	1.39	1.85	1.29	2.12	2.12	0.83	1.21
BP601T	Medicinal Chemistry III – Theory	1.59	-	1.59	0.87	-	-	-	-	1.59	-	2.22
BP602T	Pharmacology III – Theory	2.74	-	-	-	-	1.83	1.83	1.83	1.63	-	1.73



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COURSE CODE	COURSE NAME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BP603T	Herbal Drug Technology – Theory	2.17	2.17	2.17	1.97	1.77	1.77	1.77	1.77	1.77	1.77	1.97
BP604T	Biopharmaceutics & Pharmacokinetics TH	1.92	1.71	1.81	2.15	-	1.71	1.71	1.71	1.71	-	1.71
BP605T	Pharmaceutical Biotechnology – Theory	2.96	2.96	-	1.98	-	1.24	1.98	1.98	1.98	-	1.98
BP606T	Quality Assurance –Theory	2.21	2.65	2.21	2.65	2.43	1.77	1.77	-	2.65	2.21	1.77
BP701T	Instrumental Methods of Analysis -Theory	2.55	0.85	1.7	-	0.85	0.85	0.85	-	0.85	0.85	2.55
BP702T	Industrial Pharmacy II – Theory	2.3	1.97	2.19	2.05	1.64	1.64	1.64	1.64	1.64	-	1.64
BP703T	Pharmacy Practice – Theory	2.92	2.92	1.95	2.95	2.19	2.92	2.92	2.68	2.68	-	2.92
BP704T	Novel Drug Delivery System – Theory	2.42	1.98	2.2	2.2	-	2.42	1.76	1.98	1.76	-	2.2
BP801T	Biostatistics and Research Methodology	2.42	1.72	1.72	1.72	1.5	1.72	1.72	1.72	-	-	1.72
BP802T	Social and Preventive Pharmacy	2.87	2.87	2.87	1.91	2.39	2.87	1.91	2.87	2.87	-	2.39
BP803ET	Pharma Marketing Management	2.56	2.43	2.76	1	2.01	1.87	1.87	1.77	1.77	0.97	2.61
BP805ET	Pharmacovigilance	2.38	2.38	1.985	-	-	-	-	-	1.58	-	2.38
	<b>Total PO Attainment</b>	<b>2.40</b>	<b>1.89</b>	<b>1.90</b>	<b>1.77</b>	<b>1.80</b>	<b>1.90</b>	<b>1.78</b>	<b>1.88</b>	<b>1.69</b>	<b>1.51</b>	<b>2</b>

(Attainment Levels: 3- High, 2-Moderate, 1-Low, '-' Nil)



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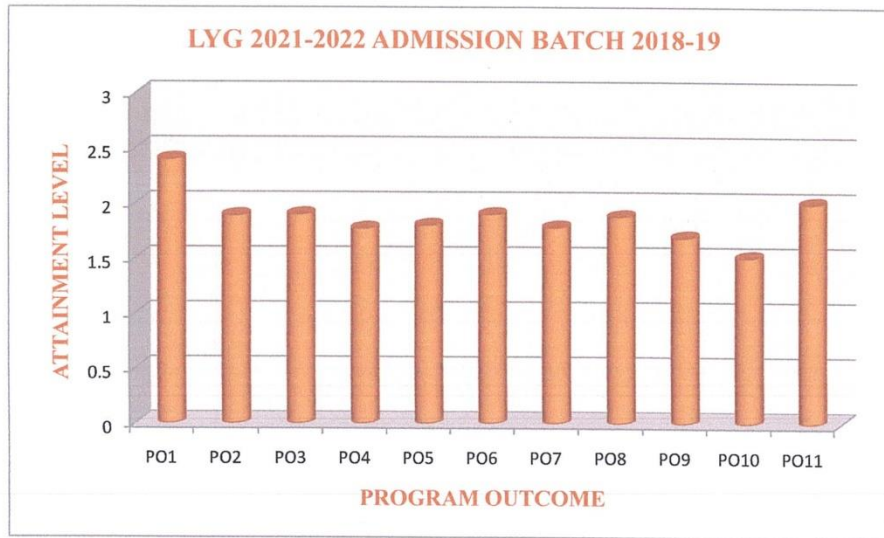
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**Graphical Representation of Program Outcome (PO) Attainment for**

**B. Pharmacy:**



*[Handwritten Signature]*

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b. M. Pharmacy (Pharmaceutics)



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PROGRAM OUTCOME (PO) ATTAINMENT

M.PHARMACY PHARMACEUTICS

LATEST GRADUATING YEAR LYG 2021-2022 ADMISSION BATCH 2020-21

COURSE CODE	COURSE NAME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
MPH 101T	Modern pharmaceutical analytical techniques	2.64	1.76	1.76	2.64	2.64	2.64	1.98	1.96	2.42	-	2.2
MPH 102T	Drug Delivery System	1.78	1.78	1.78	1.19	-	1.63	1.19	0.59	1.48	-	1.78
MPH 103T	Modern Pharmaceutics	2.57	2.57	2.57	2.57	-	1.71	1.71		1.71	1.71	2.57
MPH 104T	Regulatory affairs	3	2.25	1.75	2.25	1.5	1	2.75	1.25	2.25	1	2
MPH 105P	Pharmaceutics Practical I	2.86	2.86	2.86	1.91	-	0.95	1.91	-	-	1.91	2.86
MPH 201T	Molecular pharmaceuticals	3	3	2.5	3	-	1	2	-	3	2	3
MPH 202T	Advanced Bio pharmaceuticals and Pharmacokinetics	2.54	1.9	2.11	2.54	1.69	1.9	2.11	1.69	1.69	1.13	1.69
MPH203T	Computer Aided Drug Delivery	2.66	2.66	1.77	2.66	-	1.77	-	-	1.77	1.77	2.66
MPH 204T	Cosmetics & Cosmeceuticals	2.94	2.2	2.45	2.45	1.71	1.69	1.96	1.22	1.71	1.96	0.98
MPH 205P	Pharmaceutics Practical II	2.72	2.72	2.72	2.72	-	1.81	0.91	-	1.81	1.81	2.72
MRM301T	Research methodology	3	3	3	3	3	3	3	3	-	3	3
	<b>Total PO attainment</b>	<b>2.70</b>	<b>2.42</b>	<b>2.29</b>	<b>2.44</b>	<b>2.10</b>	<b>1.73</b>	<b>1.95</b>	<b>1.61</b>	<b>1.98</b>	<b>1.81</b>	<b>2.31</b>

(Attainment Levels: 3- High, 2-Moderate, 1-Low, '-' Nil)



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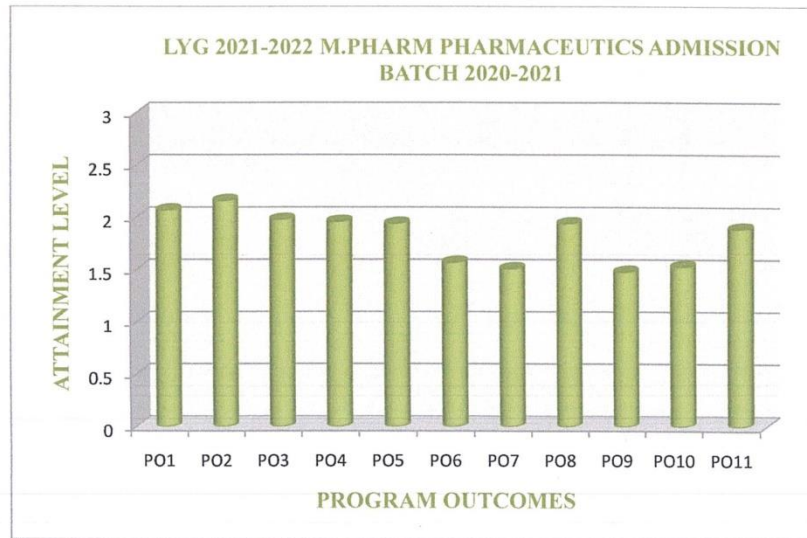
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**Graphical Representation of Program Outcome (PO) Attainment for M. Pharm (Pharmaceutics):**



*Dr. S.V. Patil*

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## c. M. Pharmacy (Pharmaceutical Quality Assurance)



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## PROGRAM OUTCOME ATTAINMENT

## M. PHARMACY Pharmaceutical Quality Assurance

## LATEST GRADUATING YEAR LYG 2021-2022 ADMISSION BATCH 2020-21

COURSE CODE	COURSE NAME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
MQA101T	Modern pharmaceutical analytical technique	2.31	2.31	1.15	2.31	0.77	0.77	0.77	-	-	0.77	0.77
MQA 102T	Quality Management System	2.52	2.1	2.31	2.1	-	1.89	1.89	1.89	1.89	-	2.31
MQA 103T	Quality Control and Quality Assurance	2.53	2.3	2.53	2.3	-	2.3	2.53	2.3	2.45	-	2.53
MQA 104T	Product Development and Technology Transfer	2.38	1.73	1.3	1.95	1.44	1.3	1.73	1.08	1.3	1.08	1.08
MQA 105P	Pharmaceutical Quality Assurance I Practical	2.63	3	2	2.33	2.33	2	2.67	2	2.5	2	2.67
MQA101T	Safety and hazards	3	2	2	2	3	3	2.5	2.25	2.75	3	2.75
MQA 202T	Pharmaceutical Validation	2.75	2.75	2.5	2.5	-	2.5	2.5	2.5	2.5	-	2.25
MQA 203T	Audits & Regulatory Compliance	2.16	1.62	1.62	1.44	1.26	1.8	1.62	1.44	1.8	1.2	1.44
MQA 204T	Pharmaceutical Manufacturing Technology	2.75	2.25	2.5	2.5	-	2.5	2.5	2.5	2.5	-	2.5
MQA205P	Pharmaceutical Quality Assurance II Practical	2.88	2.24	1.92	2.57	2.24	2.24	2.57	2.24	2.24	2.24	2.24
MRM301T	Research methodology	3	3	3	3	3	3	3	3	-	3	3
	<b>Total PO attainment</b>	<b>2.63</b>	<b>2.3</b>	<b>2.08</b>	<b>2.27</b>	<b>2.00</b>	<b>2.12</b>	<b>2.20</b>	<b>2.12</b>	<b>2.21</b>	<b>1.89</b>	<b>2.14</b>

(Attainment Levels: 3- High, 2-Moderate, 1-Low, '-' Nil)



*[Signature]*  
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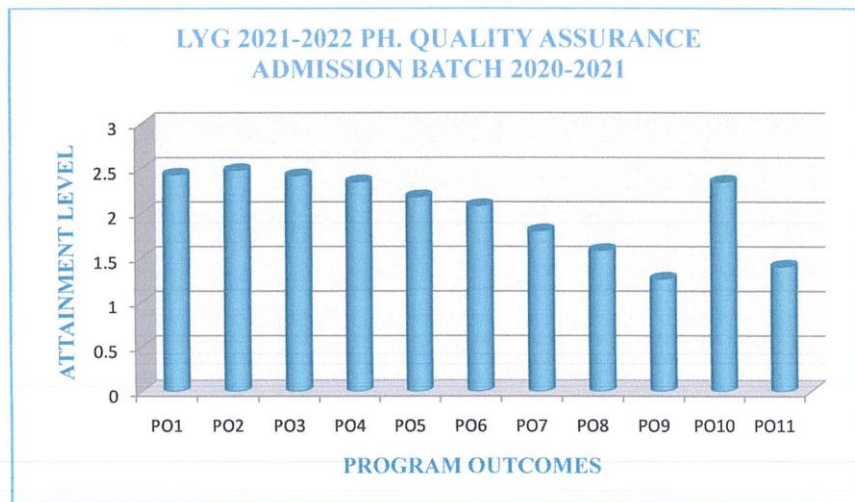
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**Graphical Representation of Program Outcome (PO) Attainment for  
 M. Pharmacy (Pharmaceutical Quality Assurance):**



*Dr. S.V. Patil*

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