Criterion 2

Teaching-learning and Evaluation	
Key Indicator 2.6	**Student Performance and Learning Outcome**
2.6.2. Attainment of POs and COs are evaluated	

2.6 Student Performance and Learning Outcome

Documents Uploaded

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1. Course Outcomes:

Course Outcomes are the statements that help the learners to understand the reason for pursuing the course and help them to identify what he will be able to do at the end of the course. Course outcomes were framed for the courses of the B. Pharmacy and M. Pharmacy program by considering course/subject syllabus prescribed by Pharmacy Council of India. The following domains can be considered while writing the course outcomes.

1. Knowledge
2. Skill
3. Attitude
4. Problem solving ability.
5. Service to Society & Profession

Also, Bloom's Taxonomy has been applied while framing the COs and care has been taken that COs should be a measurable, observable, and specific statement that clearly indicates what a student should know and be able to do at end of course.

Course outcomes of all subjects of B. Pharmacy and M. Pharmacy were uploaded and updated on Vmedulife Learning Management System (LMS). COs are linked to course contents and mapped with question papers by using this LMS.

Example of Course Outcome: B. Pharmacy

Bharati Vidyapeeth College of Pharmacy, Kolhapur

B. Pharmacy [2022-23]

Course Outcome

Year : Second Year - Third Sem (DIV. 1)
Subject : PHYSICAL PHARMACEUTICS - I(Theory | Regular)
Course Code : NC302

Sr. No.	CO Id	Course Outcome	PO/PSO	Cognitive Levels	Knowledge Categories
1	NC302.1	Students will be able to discuss and elaborate physicochemical principles of matters, Solubility of drugs, buffers & isotonic solutions, interfacial phenomenon, adsorption, complexation and protein binding.	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11	Remember, Understand, Apply, Analyse, Evaluate, Create	Factual, Conceptual, Procedural, Meta-cognitive, Fundamental Design Principles, Criteria & Specifications, Practical Constraints
2	NC302.2	Students will be able to apply principles of solubility & distribution, phase rule, isotonicity & pH adjustments, adsorption isotherms, interface interactions, complexation in development of pharmaceutical dosage forms	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11	Apply, Create	Factual, Conceptual, Procedural, Meta-cognitive, Fundamental Design Principles, Criteria & Specifications, Practical Constraints, Factual
3	NC302.3	Students will be able to analyze effect of physicochemical properties on performance and stability of pharmaceutical formulations	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11	Analyse, Evaluate	Conceptual, Procedural, Meta-cognitive, Criteria & Specifications, Practical Constraints
4	NC302.4	Conceptual understanding & mathematical calculations pertaining to gas behavior, optical rotation, refractive index, isotonicity adjustments, buffer preparation, surface & interfacial properties.	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11	Understand, Apply, Evaluate	Factual, Conceptual, Procedural, Meta-cognitive, Criteria & Specifications
5	NC302.5	Students will be able to choose effective therapies through understanding of physicochemical phenomena governing in vitro and in vivo actions of pharmaceutical products	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11	Apply, Analyse, Evaluate, Create	Conceptual, Procedural, Meta-cognitive, Fundamental Design Principles, Criteria & Specifications, Practical Constraints

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Example of Course Outcome: M. Pharmacy

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Pharmaceutical Quality Assurance [2022-23]

Course Outcome

Year : First Year - First Sem M.Pharm
Subject : Quality Control and Quality Assurance(Theory | Regular)
Course Code : MQA103T

Sr. No.	CO Id	Course Outcome	PO/PSO	Cognitive Levels	Knowledge Categories
1	MQA103T.1	Understand the main attributes of quality assurance, responsibilities of QA & QC departments and interpret the regulatory aspects of GLP in pharmaceutical industry.	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11	Remember, Understand, Apply, Analyse, Evaluate	Factual, Procedural, Meta-cognitive, Fundamental Design Principles, Criteria & Specifications
2	MQA103T.2	To relate cGMP guidelines as per regulatory authorities requirements.	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11	Remember, Understand, Apply, Analyse, Evaluate	Factual, Conceptual, Procedural, Meta-cognitive, Fundamental Design Principles, Criteria & Specifications, Practical Constraints, Factual
3	MQA103T.3	To apply standard specification limits to pharmaceutical products as well as bulk drugs and understand store management.	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11	Remember, Understand, Apply, Analyse, Evaluate, Create	Factual, Conceptual, Procedural, Meta-cognitive, Fundamental Design Principles, Criteria & Specifications, Practical Constraints
4	MQA103T.4	Frame documentary requirements needed at industrial level and learn process of document maintenance.	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11	Remember, Understand, Apply, Analyse, Evaluate, Create	Factual, Conceptual, Procedural, Meta-cognitive, Fundamental Design Principles, Criteria & Specifications, Practical Constraints, Factual
5	MQA103T.5	Understand basic concepts of manufacturing operations as well as intellectual property rights	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11	Remember, Understand, Apply	Factual, Conceptual, Procedural, Meta-cognitive

https://portal.vmedulife.com/faculty/Outcome/CourseOutcome.php?isIframe=&value=eyJnaWQiOjEyMjA3LCJ0eXBlIjoidGhlb3J5Iiwic3ViWQiOjU1MT...

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2. Program Outcomes

Program Outcomes (POs) are carefully crafted declarations that articulate the knowledge, skills, and attitudes—collectively referred to as attributes—that students are expected to have acquired upon completing a specific program. These outcomes are meticulously established with the primary goal of evaluating and quantifying the range of capabilities, skills, and competencies that students have successfully developed and internalized over the entire duration of the program. The program outcomes are achieved through curriculum that offers several mandatory courses as well as elective courses.

There are 11 POs prescribed by National Board of Accreditation (NBA) for Pharmacy Course and are listed below:

1. PO1: Pharmacy Knowledge,
2. PO2: Planning Abilities,
3. PO3: Problem Analysis,
4. PO4: Modern tool usage,
5. PO5: Leadership skills,
6. PO6: Professional Identity,
7. PO7: Pharmaceutical Ethics,
8. PO8: Communication,
9. PO9: The Pharmacist and society,
10. PO10: Environment and sustainability,
11. PO11: Life-long learning.

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Pharmacy Knowledge

Possess knowledge and comprehension of the core and basic knowledge associated with the profession of pharmacy, including biomedical sciences; pharmaceutical sciences; behavioral, social, and administrative pharmacy sciences; and manufacturing practices.

Planning Abilities

Demonstrate effective planning abilities including time management, resource management, delegation skills and organizational skills. Develop and implement plans and organize work to meet deadlines.

Problem Analysis

Utilize the principles of scientific enquiry, thinking analytically, clearly and critically, while solving problems and making decisions during daily practice. Find, analyze, evaluate and apply information systematically and shall make defensible decisions.

Modern Tool Usage

Learn, select, and apply appropriate methods and procedures, resources, and modern pharmacy-related computing tools with an understanding of the limitations.

Leadership Skills

Understand and consider the human reaction to change, motivation issues, leadership and team-building when planning changes required for fulfillment of practice, professional and societal responsibilities. Assume participatory roles as responsible citizens or leadership roles when appropriate to facilitate improvement in health and wellbeing.

Professional Identity

Understand, analyze and communicate the value of their professional roles in society (e.g. health care professionals, promoters of health, educators, managers, employers, employees).

Pharmaceutical Ethics

Honour personal values and apply ethical principles in professional and social contexts. Demonstrate behavior that recognizes cultural and personal variability in values, communication and lifestyles. Use ethical frameworks; apply ethical principles while making decisions and take responsibility for the outcomes associated with the decisions.

Communication

Communicate effectively with the pharmacy community and with society at large, such as, being able to comprehend and write effective reports, make effective presentations and documentation, and give and receive clear instructions.

The Pharmacist and Society

Apply reasoning informed by the contextual knowledge to assess societal, health, safety and legal issues and the consequent responsibilities relevant to the professional pharmacy practice.

Environment and Sustainability

Understand the impact of the professional pharmacy solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

Life-long 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. Selfassess and use feedback effectively from others to identify learning needs and to satisfy these needs on an ongoing basis.

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3. List of Courses and Course Codes of B. Pharmacy and M. Pharmacy:

B. Pharmacy

Sr. No.	Name of Subject	Code
	First Year	
Semester I		
1.	Human Anatomy and Physiology I– Theory	NC101
2.	Pharmaceutical Analysis I – Theory	NC102
3.	Pharmaceutics I – Theory	NC103
4.	Pharmaceutical Inorganic Chemistry – Theory	NC104
5.	Communication skills – Theory	NC105
6.	Remedial Biology – Theory	NC106B
7.	Remedial Mathematics – Theory	NC106M
8.	Human Anatomy and Physiology – Practical	NC107
9.	Pharmaceutical Analysis I – Practical	NC108
10.	Pharmaceutics I – Practical	NC109
11.	Pharmaceutical Inorganic Chemistry – Practical	NC110
12.	Communication skills – Practical	NC111
13.	Remedial Biology – Practical	NC112
Semester II		
1.	Human Anatomy and Physiology II – Theory	NC201
2.	Pharmaceutical Organic Chemistry I – Theory	NC202
3.	Biochemistry – Theory	NC203
4.	Pathophysiology – Theory	NC204
5.	Computer Applications in Pharmacy – Theory	NC205
6.	Environmental sciences – Theory	NC206
7.	Human Anatomy and Physiology II –Practical	NC207
8.	Pharmaceutical Organic Chemistry I– Practical	NC208
9.	Biochemistry – Practical	NC209
10.	Computer Applications in Pharmacy – Practical	NC210
	Second Year	
Semester III		
1.	Pharmaceutical Organic Chemistry II – Theory	NC301
2.	Physical Pharmaceutics I – Theory	NC302
3.	Pharmaceutical Microbiology – Theory	NC303
4.	Pharmaceutical Engineering – Theory	NC304
5.	Pharmaceutical Organic Chemistry II – Practical	NC305
6.	Physical Pharmaceutics I – Practical	NC306
7.	Pharmaceutical Microbiology – Practical	NC307
8.	Pharmaceutical Engineering –Practical	NC308

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Semester IV		
1.	Pharmaceutical Organic Chemistry III– Theory	NC401
2.	Medicinal Chemistry I – Theory	NC402
3.	Physical Pharmaceutics II – Theory	NC403
4.	Pharmacology I – Theory	NC404
5.	Pharmacognosy and Phytochemistry I– Theory	NC405
6.	Medicinal Chemistry I – Practical	NC406
7.	Physical Pharmaceutics II – Practical	NC407
8.	Pharmacology I – Practical	NC408
9.	Pharmacognosy and Phytochemistry I – Practical	NC409
Third Year		
Semester V		
1.	Medicinal Chemistry II – Theory	NC501
2.	Industrial Pharmacy I– Theory	NC502
3.	Pharmacology II – Theory	NC503
4.	Pharmacognosy and Phytochemistry II– Theory	NC504
5.	Pharmaceutical Jurisprudence – Theory	NC505
6.	Industrial Pharmacy I – Practical	NC506
7.	Pharmacology II – Practical	NC507
8.	Pharmacognosy and Phytochemistry II – Practical	NC508
Semester VI		
1.	Medicinal Chemistry III – Theory	NC601
2.	Pharmacology III – Theory	NC602
3.	Herbal Drug Technology – Theory	NC603
4.	Biopharmaceutics and Pharmacokinetics – Theory	NC604
5.	Pharmaceutical Biotechnology – Theory	NC605
6.	Quality Assurance –Theory	NC606
7.	Medicinal chemistry III – Practical	NC607
8.	Pharmacology III – Practical	NC608
9.	Herbal Drug Technology – Practical	NC609

	Final Year	
Semester VII		
1.	Instrumental Methods of Analysis – Theory	NC701
2.	Industrial Pharmacy II – Theory	NC702
3.	Pharmacy Practice – Theory	NC703
4.	Novel Drug Delivery System – Theory	NC704
5.	Instrumental Methods of Analysis – Practical	NC705
6.	Practice School PS-I PS-II PS-III	 NC706A NC706B NC706C
Semester VIII		
1.	Biostatistics and Research Methodology	NC801
2.	Social and Preventive Pharmacy	NC802
3.	Pharma Marketing Management	NC803
4.	Pharmaceutical Regulatory Science	NC804
5.	Pharmacovigilance	NC805
6.	Quality Control and Standardization of Herbals	NC806
7.	Computer Aided Drug Design	NC807
8.	Cell and Molecular Biology	NC808
9.	Cosmetic Science	NC809
10.	Experimental Pharmacology	NC810
11.	Advanced Instrumentation Techniques	NC811
12.	Dietary Supplements and Nutraceuticals	NC812
13.	Project Work	NC813

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M. Pharmacy (Pharmaceutics)

Sr. No.	Name of Subject	Code
	First Year	
Semester I		
14.	Modern Pharmaceutical Analytical Techniques	MPH101T
15.	Drug Delivery System	MPH102T
16.	Modern Pharmaceutics	MPH103T
17.	Regulatory Affair	MPH104T
18.	Pharmaceutics Practical I	MPH105P
19.	Seminar/Assignment	MPH106S
Semester II		
11.	Molecular Pharmaceutics (Nano Tech and Targeted DDS)	MPH201T
12.	Advanced Biopharmaceutics & Pharmacokinetics	MPH202T
13.	Computer Aided Drug Delivery System	MPH203T
14.	Cosmetic and Cosmeceuticals	MPH204T
15.	Pharmaceutics Practical II	MPH205P
16.	Seminar/Assignment	MPH206S

M. Pharmacy (Pharmaceutical Chemistry)

Sr. No.	Name of Subject	Code
	First Year	
Semester I		
1.	Modern Pharmaceutical Analytical Techniques	MPC101T
2.	Advanced Organic Chemistry -I	MPC1012T
3.	Advanced Medicinal chemistry	MPC103T
4.	Chemistry of Natural Products	MPC104T
5.	Pharmaceutical Chemistry Practical I	MPC105P
6.	Seminar/Assignment	MPC106S
Semester II		
1.	Advanced Spectral Analysis	MPC201T
2.	Advanced Organic Chemistry -II	MPC202T
3.	Computer Aided Drug Design	MPC203T
4.	Pharmaceutical Process Chemistry	MPC204T
5.	Pharmaceutical Chemistry Practical II	MPC205P
6.	Seminar/Assignment	MPC206S

M. Pharmacy (Pharmaceutical Quality Assurance)

Sr. No.	Name of Subject	Code
First Year		
Semester I		
1.	Modern Pharmaceutical Analytical Techniques	MQA101T
2.	Quality Management System	MQA102T
3.	Quality Control and Quality Assurance	MQA103T
4.	Product Development and Technology Transfer	MQA104T
5.	Pharmaceutical Quality Assurance Practical I	MQA105P
6.	Seminar/Assignment	MQA106S
Semester II		
1.	Hazards and Safety Management	MQA201T
2.	Pharmaceutical Validation	MQA202T
3.	Audits and Regulatory Compliance	MQA203T
4.	Pharmaceutical Manufacturing Technology	MQA204T
5.	Pharmaceutical Quality Assurance Practical II	MQA205P
6.	Seminar/Assignment	MQA206S

M. Pharmacy (Common for all Specializations)

Sr. No.	Name of Subject	Code
Second Year		
Semester III		
1.	Research Methodology and Biostatistics	MRM301T
2.	Journal club	MJC302
3.	Discussion / Presentation (Proposal Presentation)	RPP303
4.	Research Work	RWP304
Semester IV		
1.	Journal Club	MJC401
2.	Research work and Colloquium	RWP402
3.	Discussion/Final Presentation	RPP403

4. CO Assessment Process and Tools:

The assessment process for course outcomes comprises of internal assessment and external assessment of students. The internal assessment (periodic test/sessional examination) is conducted by college and external assessment (semester/ end semester examination) is conducted by university. Vmedulife a cloud-based learning and academic management platform is used for CO and PO assessments.

In direct assessment of COs, first, COs are mapped based on sessional examination question papers. Subsequently, CO attainment is carried out for student performance in sessional examinations. For student performance in semester examination, neither mark scored by students in each question of semester examination, nor average/median marks are provided by university. Hence, we have set 50% as a target/threshold for semester examination results, and same target is kept for sessional examination results also.

Following direct assessment tools are used for assessing the COs, based on student performance in examinations,

Assessment Tool	Frequency
Sessional Examination	Two per semester per Course at the Institute level
Semester/ End Semester Examination	One at the end of the semester at the University level.
Continuous Evaluation mode	Throughout semester at Institute level

The details of CO attainment process are as under,

- The attainment of course outcomes have been carried out based on performance of students in internal assessment and external assessments. Weightages have been assigned to assessment tools based on schemes for internal assessments and end semester examinations given in syllabus.

- As per CBCS curriculum, internal assessment has a weightage of 25% for theory, and 30% for practical. And, for semester examination, weightage of theory and practical examination is 75% and 70% respectively. Internal assessment includes sessional examinations, and

continuous mode evaluation. Continuous mode evaluation of theory sessional examinations considers attendance, quizzes, assignment, open book test, field work, group discussion and seminar, student–teacher interaction. Whereas, continuous mode evaluation of practical sessional examination, is based on attendance, practical records, regular viva voce.

- For certain courses, non-university examinations have been prescribed in the curriculum. For some courses having non-university examination, the weightage of internal assessment and end semester examination is prescribed as 30% and 70% for theory and 40% and 60% for practical respectively, whereas, for remaining courses having non-university examination the weightage has been prescribed as 33% and 67% for theory respectively.

- As university does not provide average or median marks, we have set University pass percentage as 50% as the target/threshold level for both theory courses and practical courses separately.

Attainment Levels and Weightages:

For assigning scores to the student performance in assessment, the following levels have been considered for attainment calculations.

- *If up to 60% of students have scored marks more than target, then the level is considered as low (Level 1).*

- *If 60% to 70% of students have scored marks more than target, then the level is considered as medium (Level2).*

- *If 70% or more of students have scored marks more than target, then the level is considered as high (Level 3).*

Weightages for different exam modules of B. Pharmacy and M. Pharmacy have been assigned based on marking scheme prescribed in syllabus. Weightages assigned to different exam modules is as follows:

Weightages for different subjects of B. Pharmacy

For regular subjects:

	Theory			
	Sessional Exams (M15)		Continuous Mode (M10)	End Exam (M75)
	Sessional I (M30)	Sessional II (M30)		Semester Exam
Weightage	30%	30%	40%	100%
Threshold	50%	50%	50%	50%
	Practical			
	Sessional Exams (M10)		Continuous Mode (M5)	End Exam (M35)
	Sessional I (M40)	Sessional II (M40)		Semester Exam
Weightage	33%	33%	34%	100%
Threshold	50%	50%	50%	50%

For subjects having Non-University Exam: (Communication skills –Theory, Remedial Biology/Mathematics – Theory, Communication skills – Practical, Remedial Biology –Practical)

	Theory			
	Sessional Exams (M10)		Continuous Mode (M5)	End Exam
	Sessional I (M30)	Sessional II (M30)		Semester Exam (M35)
Weightage	33%	33%	34%	100%
Threshold	50%	50%	50%	50%
	Practical			
	Sessional Exams (M5)		Continuous Mode (M5)	End Exam (M15)
Practical	Sessional I (M40)	Sessional II (M40)		Semester Exam
Weightage	25%	25%	50%	100%
Threshold	50%	50%	50%	50%

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For subjects having Non-University Exam: (Computer Applications in Pharmacy – Theory, Environmental sciences – Theory, Computer Applications in Pharmacy – Practical)

Theory				
	Sessional Exams (M15)		Continuous Mode (M10)	End Exam
	Sessional I (M30)	Sessional II (M30)		Semester Exam (M50)
Weightage	30%	30%	40%	100%
Threshold	50%	50%	50%	50%
Practical				
	Sessional Exams (M5)		Continuous Mode (M5)	End Exam (M15)
	Sessional I (M40)	Sessional II (M40)		Semester Exam
Weightage	25%	25%	50%	100%
Threshold	50%	50%	50%	50%

Weightages for different subjects of M. Pharmacy:

Theory				
	Sessional Exams (M15)		Continuous Mode (M10)	End Exam (M75)
	Sessional I (M30)	Sessional II (M30)		Semester Exam
Weightage	30%	30%	40%	100%
Threshold	50%	50%	50%	50%
Practical				
	Sessional Exams (M30)		Continuous Mode (M20)	End Exam (M100)
	Sessional I (M30)	Sessional II (M30)		Semester Exam
Weightage	30%	30%	40%	100%
Threshold	50%	50%	50%	50%

Example of Mapping of Question Papers with COs: B. Pharmacy

Bharati Vidyapeeth College of Pharmacy, Kolhapur

B. Pharmacy [2021-22]

First Sessional Theory Examination Oct/Nov 2021

Subject : [NC302] PHYSICAL PHARMACEUTICS - I - Theory

Year : Second Year - SECOND YEAR B Pharm. Sem. III **Marks :** 30 **Date :** 7 December, 2021 **Duration :** 75 Minutes

- Figures to the right indicate full marks.
- Draw neat diagram wherever necessary.
- Assume suitable data if necessary, stating it clearly.

Question		Marks	Course Outcome
Q. I Answer Any Five (Objective Type Questions)			
i)	Define Surface tension. Give its CGS & SI units	10.00	NC302.1,NC302.2,NC302.3,NC302.4,NC302.5
ii)	Give any four pharmaceutical applications of interfacial studies.		
iii)	Ordinarily, interfacial tensions are less than surface tensions. TRUE OR FALSE		
iv)	Write equations of surface tension in terms of surface free energy & pressure difference across interface.		
v)	What is CMC? Enlist factors affecting CMC		
vi)	Define solubility. Enlist any two criteria for ideal solutions.		
vii)	Compare and contrast molarity and molality		
Q. II Answer Any Two (Short Answer Questions)			
i) Construct the equation of spreading coefficient and write its applications		5.00	NC302.1,NC302.2,NC302.3,NC302.4,NC302.5
ii) Discuss Griffin HLB scale. Add a note on functional classification of surfactants.		5.00	NC302.1,NC302.2,NC302.3,NC302.4,NC302.5
iii) Explain in detail deviations from Raoult'slaw with suitable examples.		5.00	NC302.1,NC302.2,NC302.3,NC302.5
Q. III Answer Any One (Long Answer Questions)			
i) Derive equation of Langmuir adsorption isotherm. Explain various types of adsorption isotherms.		10.00	NC302.1,NC302.2,NC302.3,NC302.4
ii) Enlist various methods of determination of surface tension. Explain in detail any two methods.		10.00	NC302.1,NC302.2,NC302.3,NC302.4,NC302.5

Quality of Question Paper:

Bharati Vidyapeeth College of Pharmacy, Kolhapur

B. Pharmacy [2021–22]

Title : First Sessional Theory Examination Oct/Nov 2021
Subject : PHYSICAL PHARMACEUTICS - I - Theory
Faculty : Mr,Udaykumar Patil
Year : Second Year – SECOND YEAR B Pharm. Sem. III
Marks : 30

Marks distribution as per Bloom's level

Bloom's Level	Linked Question Count	Marks	Percentage
Create	4	30	66.67
Evaluate	4	35	77.78
Analyze	2	15	33.33
Apply	2	15	33.33
Understand	5	40	88.89
Remember	2	20	44.44

NOTE : Percentage for each Bloom's level is calculated using following formula

*Percentage = (Marks per Bloom's level / Total marks of all questions [OPTIONAL question included]) * 100*

Total marks of all questions [OPTIONAL question included] = 45

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Quality of Question Paper:

Bharati Vidyapeeth College of Pharmacy, Kolhapur
B. Pharmacy [2021-22]

Title : First Sessional Theory Examination Oct/Nov 2021
Subject : PHYSICAL PHARMACEUTICS - I - Theory
Faculty : Mr,Udaykumar Patil
Year : Second Year – SECOND YEAR B Pharm. Sem. III
Marks : 30

Marks distribution as per course outcome

Course Outcome	Linked Question Count	Marks	Percentage
NC302.1	6	45	100.00
NC302.2	6	45	100.00
NC302.3	6	45	100.00
NC302.4	5	40	88.89
NC302.5	5	35	77.78

NOTE : Percentage for each course outcome is calculated using following formula

*Percentage = (Marks per course outcome / Total marks of all questions [OPTIONAL question included]) * 100*

Total marks of all questions [OPTIONAL question included] = 45

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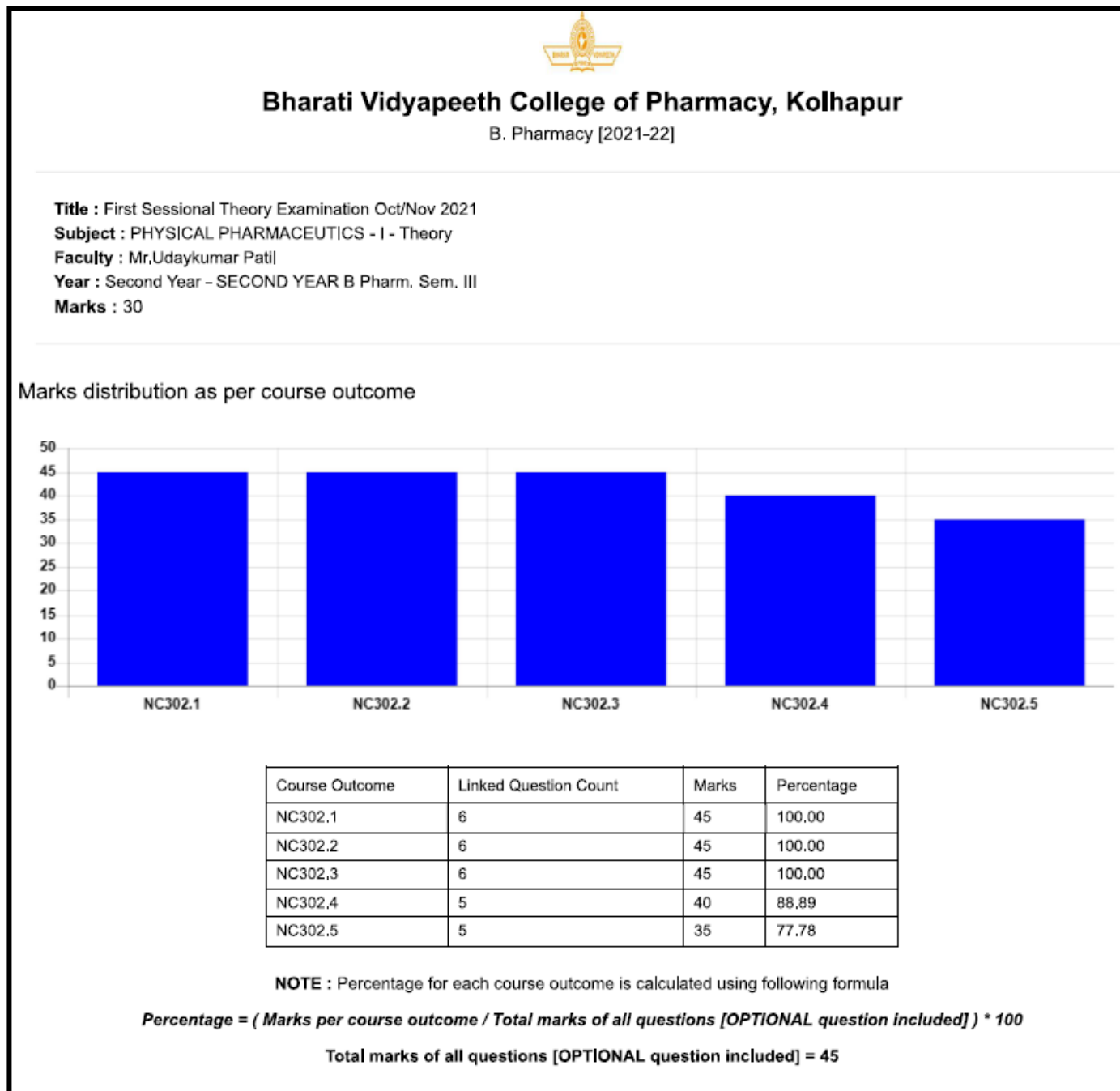
Example of Mapping of Question Papers with COs: M. Pharmacy

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Bharati Vidyapeeth College of Pharmacy, Kolhapur

Pharmaceutical Quality Assurance [2022-23]

QCQA First Sessional Exam

Subject : [MQA103T] Quality Control and Quality Assurance – Theory

Year : First Year – First Sem M.Pharm **Marks :** 30 **Date :** 15 February, 2023 **Duration :** 60 Minutes

Instructions :

1. Question No. 1 is compulsory.
2. Answer any two questions from remaining.
3. Figures to the right indicate full marks.

Question	Marks	Course Outcome
Q. 1 Answer any Two of the following. 1. Define Quality Assurance, Quality Control, GMP and GLP. What is the difference between GMP and GLP. 2. What is quality assurance unit. What are the functions of quality assurance unit. 3. What are ICH QSEM guidelines, List out all the ICH quality guidelines.	10,00	MQA103T,1,MQA103T,2
Q. 2 What are the major aspects covered by WHO under cGMP guidelines. Add a detailed note on personnel responsibilities and sanitation.	10,00	MQA103T,2
Q. 3 What are IPQC tests for tablets as per Indian Pharmacopoeia. Explain with specifications.	10,00	MQA103T,3
Q. 4 Describe the protocol for conduct of nonclinical testing, Add a note on scope of GLP.	10,00	MQA103T,1

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Pharmaceutical Quality Assurance [2022-23]

Title : QCQA First Sessional Exam
Subject : Quality Control and Quality Assurance - Theory
Faculty : Dr. Mrs. Neela Bhatia
Year : First Year - First Sem M.Pharm
Marks : 30

Marks distribution as per Bloom's level

Legend: Create | Evaluate | Analyze | Apply | Understand | Remember

Bloom's Level	Linked Question Count	Marks	Percentage
Create	4	40	100.00
Evaluate	4	40	100.00
Analyze	4	40	100.00
Apply	4	40	100.00
Understand	4	40	100.00
Remember	4	40	100.00

NOTE : Percentage for each Bloom's level is calculated using following formula

*Percentage = (Marks per Bloom's level / Total marks of all questions [OPTIONAL question included]) * 100*

Total marks of all questions [OPTIONAL question included] = 40

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Quality of Question Paper:

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Bharati Vidyapeeth College of Pharmacy, Kolhapur

Pharmaceutical Quality Assurance [2022-23]

Title : QCQA First Sessional Exam
Subject : Quality Control and Quality Assurance - Theory
Faculty : Dr, Mrs, Neela Bhatia
Year : First Year - First Sem M.Pharm
Marks : 30

Marks distribution as per course outcome

Course Outcome	Linked Question Count	Marks	Percentage
MQA103T,1	2	20	50,00
MQA103T,2	2	20	50,00
MQA103T,3	1	10	25,00
MQA103T,4	0	0	0,00
MQA103T,5	0	0	0,00

NOTE : Percentage for each course outcome is calculated using following formula

Percentage = (Marks per course outcome / Total marks of all questions [OPTIONAL question included]) * 100

Total marks of all questions [OPTIONAL question included] = 40

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Question wise analysis and Calculation of CO attainments as per threshold, and attainment levels assigned: B. Pharmacy

11/1/23, 8:24 PM   vmedulife Account

Students Score - (First Sessional Theory Examination Oct/Nov. 2019) Threshold 50%

		First Sessional Theory Examination Oct/Nov. 2019							
		Q. I Answer Any Five (Objective Type Questions)	Q. II Answer Any Two (Short Answer Questions)			Q. III Answer Any One (Long Answer Questions)			
Roll No	Name	i...[10.00 Marks]	i...[5.00 Marks]	i...[5.00 Marks]	i...[5.00 Marks]	i...[10.00 Marks]	i...[10.00 Marks]		Total	Mark As Absent
1	Ajit Amate	5		4	2	5		Saved	16	☐
2	Rutuja Badakar	4	4	2.5			4	Saved	14.	☐
4	Disha Budhwani	6		4			7	Saved	17	☐
5	Ravina Chawla	6	3	3			7	Saved	19	☐
8	Ankita Dhangar	10	4.5	4.5		6		Saved	25	☐
10	Prasad Eksambekar							Saved	0	☑
13	Manasi Godase	5	4	4		3		Saved	16	☐
15	Pradnya Jadhav	3	0	4			4	Saved	11	☐
16	Rohit Jadhav	4	2.5	5		2		Saved	13.	☐
17	Rushikesh Jadhav	3	2	3			4	Saved	12	☐
19	Pavan Jagtap	9		4	4		6	Saved	23	☐
22	Kranti Kadam	10	5	5			5	Saved	25	☐

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First Sessional Theory Examination Oct/Nov. 2019

Roll No	Name	Q. I Answer Any Five (Objective Type Questions) i... [10.00 Marks]	Q. II Answer Any Two (Short Answer Questions) i... [5.00 Marks]	i... [5.00 Marks]	i... [5.00 Marks]	Q. III Answer Any One (Long Answer Questions) i... [10.00 Marks]	i... [10.00 Marks]		Total	Mark As Absent
23	Kamalesh Kamble	4	0	0				Saved	4	☐
24	Mugdha Kambli	6	5	3		7		Saved	21	☐
25	Simran Keswani	7	5	5			6	Saved	23	☐
26	Pratiksha Khade	6						Saved	6	☐
27	Rushikesh Kumbhar	6		1	1		6	Saved	14	☐
29	Rutuja Landge	4		3			6	Saved	13	☐
30	Anjali Mahadik	4	1				2	Saved	7	☐
32	Vaishnavi More	5		2		4		Saved	11	☐
33	Sanjivani Mulik	10	4	4		7		Saved	25	☐
36	Aishwarya Patil	10	4	4			10	Saved	28	☐
38	Akash Patil	1		0	2		5	Saved	8	☐
40	Amruta Patil	5	3			5		Saved	13	☐
41	Janhavi Patil	6	4		2		5	Saved	17	☐
44	Pradip Pawar	8		3	3		6	Saved	20	☐

First Sessional Theory Examination Oct/Nov. 2019

Roll No	Name	Q. I Answer Any Five (Objective Type Questions) i... [10.00 Marks]	Q. II Answer Any Two (Short Answer Questions) i... [5.00 Marks]	i... [5.00 Marks]	i... [5.00 Marks]	Q. III Answer Any One (Long Answer Questions) i... [10.00 Marks]	i... [10.00 Marks]		Total	Mark As Absent
45	Pratiksha Pawar	7	4	4			8	Saved	23	☐
47	Vivek Pawar	2	4	3.5		2		Saved	11.5	☐
50	Apurva Salunkhe	2	0	1			4	Saved	7	☐
53	Rutvik Shinde	6	3	3			4	Saved	16	☐
54	Poonam Sutar	8	4				4	Saved	16	☐
55	Manoj Tambe	5	5	5		4		Saved	19	☐
56	Pranoti Tomake	5	4	4			2	Saved	15	☐
57	Shraddha Ubale	7		4	1		4	Saved	16	☐
58	Parmeshwar Zinge	7	4	4			5	Saved	20	☐
60	Pooja Daware	8		3.5	2	4		Saved	17.	☐
61	Sayali Kamble	8	2.5	3.5			4	Saved	18	☐
62	Soham Katruwar	8		3.5			4	Saved	15.	☐
63	Rohan Kesarkar	8	1	4			3	Saved	16	☐
66	Parvej Nadaf	8	1	3		4		Saved	16	☐

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		First Sessional Theory Examination Oct/Nov. 2019								
		Q. I Answer Any Five (Objective Type Questions)	Q. II Answer Any Two (Short Answer Questions)			Q. III Answer Any One (Long Answer Questions)				
Roll No	Name	i... [10.00 Marks]	i... [5.00 Marks]	i... [5.00 Marks]	i... [5.00 Marks]	i... [10.00 Marks]	i... [10.00 Marks]		Total	Mark As Absent
68	Shivani Patil	6	2	2			2	Saved	12	☐

SAVE ALL

	i...	i...	i...	i...	i...	i...
Number of student(s) attempted question	40	28	35	8	12	26
Percentage of student(s) above threshold	75.00	71.43	82.86	25.00	41.67	50.00
Linked course outcome	NC302.1...	NC302.1...	NC302.1...	NC302.1	NC302.1...	NC302.2...
Attainment	3	3	3	0	1	1

Course outcome	NC302.1	NC302.2	NC302.3	NC302.4	NC302.5
Final attainment	2.00	2.20	2.33	3.00	3.00

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Question wise analysis and Calculation of CO attainments as per threshold, and attainment levels assigned: M. Pharmacy

11/2/23, 8:11 PM   vmedulife Account

Students Score – (QCQA First Sessional Exam)   Threshold 50%

Roll No	Name	Q. 1 Answer an... [10.00 Marks]	Q. 2 What are... [10.00 Marks]	Q. 3 What are ... [10.00 Marks]	Q. 4 Describe... [10.00 Marks]		Total	Mark As Absent
1	Lahu Andhale	6.5	6	7	0	Saved	19.5	☐
2	Balaji Bismile	6.5	0	8	5	Saved	19.5	☐
3	Sambhaji Chande	7	0	8	4	Saved	19	☐
4	Kunal Chapudkar	5.5	8.5	8	0	Saved	22	☐
5	Vaibhavi Deshmukh	8.5	8.5	8	0	Saved	25	☐
6	Rohit Jadhav	6	4	7	0	Saved	17	☐
7	Prathamesh Kendale	7	5	7	0	Saved	19	☐
8	Anjali Mahadik	6	0	8	7	Saved	21	☐
9	Akash Mule	5	0	8	5	Saved	18	☐
10	Akshay Nayakavadi	8.5	7	8	0	Saved	23.5	☐
11	Akash Patil	4.5	0	8.5	4	Saved	17	☐
12	Omkar Patil	8	0	9	7	Saved	24	☐
13	Vivek Pawar	3.5	0	5	8	Saved	16.5	☐
14	Tejal Rode					Saved	0	☑
15	Apurva Salunkhe	9	0	8	8	Saved	25	☐
16	Isha Shete	8.5	7	8.5	0	Saved	24	☐
17	Manasi Zade	8.5	5	9	0	Saved	22.5	☐

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	Q. 1 Answer an...	Q. 2 What are...	Q. 3 What are ...	Q. 4 Describe...
Number of student(s) attempted question	16	16	16	16
Percentage of student(s) above threshold	87.50	43.75	100.00	37.50
Linked course outcome	MQA103T...	MQA103T...	MQA103T...	MQA103T...
Attainment	3	0	3	0

Course outcome	MQA103T.1	MQA103T.2	MQA103T.3	MQA103T.4	MQA103T.5
Final attainment	1.50	1.50	3.00		

Detailed CO attainment report of a subject:

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Bharati Vidyapeeth College of Pharmacy, Kolhapur
Pharmaceutical Quality Assurance (2022-23)

Subject : MQA103T - Quality Control and Quality Assurance (Theory)
Year : First Year - First Sem M.Pharm
Instructor : Dr. Mrs. Neela Bhatia
Exam Name : QCQA First Sessional Exam
Exam Date : Wed Feb 15 2023
Exam Marks : 30

1) Roll No. - 1   Student Name - Lahu Andhale

Course Outcome	Question(s)				Score	% Course Outcome
	Q1 (10 Marks)	Q2 (10 Marks)	Q3 (10 Marks)	Q4 (10 Marks)		
MQA103T.1	06.50	-	-	-	6.5/20	32.50
MQA103T.2	06.50	06.00	-	-	12.5/20	62.50
MQA103T.3	-	-	07.00	-	7/10	70.00
MQA103T.4	-	-	-	-	-	-
MQA103T.5	-	-	-	-	-	-

2) Roll No. - 2   Student Name - Balaji Bismile

Course Outcome	Question(s)				Score	% Course Outcome
	Q1 (10 Marks)	Q2 (10 Marks)	Q3 (10 Marks)	Q4 (10 Marks)		
MQA103T.1	06.50	-	-	05.00	11.5/20	57.50
MQA103T.2	06.50	-	-	-	6.5/20	32.50
MQA103T.3	-	-	08.00	-	8/10	80.00
MQA103T.4	-	-	-	-	-	-
MQA103T.5	-	-	-	-	-	-

3) Roll No. - 3   Student Name - Sambhaji Chande

Course Outcome	Question(s)				Score	% Course Outcome
	Q1 (10 Marks)	Q2 (10 Marks)	Q3 (10 Marks)	Q4 (10 Marks)		
MQA103T.1	07.00	-	-	04.00	11/20	55.00
MQA103T.2	07.00	-	-	-	7/20	35.00
MQA103T.3	-	-	08.00	-	8/10	80.00
MQA103T.4	-	-	-	-	-	-
MQA103T.5	-	-	-	-	-	-

4) Roll No. - 4   Student Name - Kunal Chapudkar

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Course Outcome	Question(s)				Score	% Course Outcome
	Q1 (10 Marks)	Q2 (10 Marks)	Q3 (10 Marks)	Q4 (10 Marks)		
MQA103T.1	05.50	-	-	-	5.5/20	27.50
MQA103T.2	05.50	08.50	-	-	14/20	70.00
MQA103T.3	-	-	08.00	-	8/10	80.00
MQA103T.4	-	-	-	-	-	-
MQA103T.5	-	-	-	-	-	-

5) Roll No. - 5   Student Name - Vaibhavi Deshmukh

Course Outcome	Question(s)				Score	% Course Outcome
	Q1 (10 Marks)	Q2 (10 Marks)	Q3 (10 Marks)	Q4 (10 Marks)		
MQA103T.1	08.50	-	-	-	8.5/20	42.50
MQA103T.2	08.50	08.50	-	-	17/20	85.00
MQA103T.3	-	-	08.00	-	8/10	80.00
MQA103T.4	-	-	-	-	-	-
MQA103T.5	-	-	-	-	-	-

6) Roll No. - 6   Student Name - Rohit Jadhav

Course Outcome	Question(s)				Score	% Course Outcome
	Q1 (10 Marks)	Q2 (10 Marks)	Q3 (10 Marks)	Q4 (10 Marks)		
MQA103T.1	06.00	-	-	-	6/20	30.00
MQA103T.2	06.00	04.00	-	-	10/20	50.00
MQA103T.3	-	-	07.00	-	7/10	70.00
MQA103T.4	-	-	-	-	-	-
MQA103T.5	-	-	-	-	-	-

7) Roll No. - 7   Student Name - Prathamesh Kendale

Course Outcome	Question(s)				Score	% Course Outcome
	Q1 (10 Marks)	Q2 (10 Marks)	Q3 (10 Marks)	Q4 (10 Marks)		
MQA103T.1	07.00	-	-	-	7/20	35.00
MQA103T.2	07.00	05.00	-	-	12/20	60.00
MQA103T.3	-	-	07.00	-	7/10	70.00
MQA103T.4	-	-	-	-	-	-
MQA103T.5	-	-	-	-	-	-

8) Roll No. - 8   Student Name - Anjali Mahadik

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Course Outcome	Question(s)				Score	% Course Outcome
	Q1 (10 Marks)	Q2 (10 Marks)	Q3 (10 Marks)	Q4 (10 Marks)		
MQA103T.1	06.00	-	-	07.00	13/20	65.00
MQA103T.2	06.00	-	-	-	6/20	30.00
MQA103T.3	-	-	08.00	-	8/10	80.00
MQA103T.4	-	-	-	-	-	-
MQA103T.5	-	-	-	-	-	-

9) Roll No. - 9   Student Name - Akash Mule

Course Outcome	Question(s)				Score	% Course Outcome
	Q1 (10 Marks)	Q2 (10 Marks)	Q3 (10 Marks)	Q4 (10 Marks)		
MQA103T.1	05.00	-	-	05.00	10/20	50.00
MQA103T.2	05.00	-	-	-	5/20	25.00
MQA103T.3	-	-	08.00	-	8/10	80.00
MQA103T.4	-	-	-	-	-	-
MQA103T.5	-	-	-	-	-	-

10) Roll No. - 10   Student Name - Akshay Nayakavadi

Course Outcome	Question(s)				Score	% Course Outcome
	Q1 (10 Marks)	Q2 (10 Marks)	Q3 (10 Marks)	Q4 (10 Marks)		
MQA103T.1	08.50	-	-	-	8.5/20	42.50
MQA103T.2	08.50	07.00	-	-	15.5/20	77.50
MQA103T.3	-	-	08.00	-	8/10	80.00
MQA103T.4	-	-	-	-	-	-
MQA103T.5	-	-	-	-	-	-

11) Roll No. - 11   Student Name - Akash Patil

Course Outcome	Question(s)				Score	% Course Outcome
	Q1 (10 Marks)	Q2 (10 Marks)	Q3 (10 Marks)	Q4 (10 Marks)		
MQA103T.1	04.50	-	-	04.00	8.5/20	42.50
MQA103T.2	04.50	-	-	-	4.5/20	22.50
MQA103T.3	-	-	08.50	-	8.5/10	85.00
MQA103T.4	-	-	-	-	-	-
MQA103T.5	-	-	-	-	-	-

12) Roll No. - 12   Student Name - Omkar Patil

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Course Outcome	Question(s)				Score	% Course Outcome
	Q1 (10 Marks)	Q2 (10 Marks)	Q3 (10 Marks)	Q4 (10 Marks)		
MQA103T.1	08.00	-	-	07.00	15/20	75.00
MQA103T.2	08.00	-	-	-	8/20	40.00
MQA103T.3	-	-	09.00	-	9/10	90.00
MQA103T.4	-	-	-	-	-	-
MQA103T.5	-	-	-	-	-	-

13) Roll No. – 13   Student Name – Vivek Pawar

Course Outcome	Question(s)				Score	% Course Outcome
	Q1 (10 Marks)	Q2 (10 Marks)	Q3 (10 Marks)	Q4 (10 Marks)		
MQA103T.1	03.50	-	-	08.00	11.5/20	57.50
MQA103T.2	03.50	-	-	-	3.5/20	17.50
MQA103T.3	-	-	05.00	-	5/10	50.00
MQA103T.4	-	-	-	-	-	-
MQA103T.5	-	-	-	-	-	-

14) Roll No. – 14   Student Name – Tejal Rode [ABSENT]

15) Roll No. – 15   Student Name – Apurva Salunkhe

Course Outcome	Question(s)				Score	% Course Outcome
	Q1 (10 Marks)	Q2 (10 Marks)	Q3 (10 Marks)	Q4 (10 Marks)		
MQA103T.1	09.00	-	-	08.00	17/20	85.00
MQA103T.2	09.00	-	-	-	9/20	45.00
MQA103T.3	-	-	08.00	-	8/10	80.00
MQA103T.4	-	-	-	-	-	-
MQA103T.5	-	-	-	-	-	-

16) Roll No. – 16   Student Name – Isha Shete

Course Outcome	Question(s)				Score	% Course Outcome
	Q1 (10 Marks)	Q2 (10 Marks)	Q3 (10 Marks)	Q4 (10 Marks)		
MQA103T.1	08.50	-	-	-	8.5/20	42.50
MQA103T.2	08.50	07.00	-	-	15.5/20	77.50
MQA103T.3	-	-	08.50	-	8.5/10	85.00
MQA103T.4	-	-	-	-	-	-
MQA103T.5	-	-	-	-	-	-

17) Roll No. – 17   Student Name – Manasi Zade

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Course Outcome	Question(s)				Score	% Course Outcome
	Q1 (10 Marks)	Q2 (10 Marks)	Q3 (10 Marks)	Q4 (10 Marks)		
MQA103T.1	08.50	-	-	-	8.5/20	42.50
MQA103T.2	08.50	05.00	-	-	13.5/20	67.50
MQA103T.3	-	-	09.00	-	9/10	90.00
MQA103T.4	-	-	-	-	-	-
MQA103T.5	-	-	-	-	-	-

Short CO attainment report of subject:

11/2/23, 8:17 PM   vmedulife Account

Bharati Vidyapeeth College of Pharmacy, Kolhapur

Pharmaceutical Quality Assurance (2022–23)

MQA103T – Quality Control and Quality Assurance (Theory)
Year : First Year – First Sem M.Pharm
Instructor : Dr. Mrs. Neela Bhatia
Exam Name : QCQA First Sessional Exam
Exam Date : Wed Feb 15 2023
Exam Marks : 30

Sr.No.	Roll No.	Student Name	Course Outcome				
			MQA103T.1	MQA103T.2	MQA103T.3	MQA103T.4	MQA103T.5
1	1	Lahu Andhale	32.50	62.50	70.00	-	-
2	2	Balaji Bismile	57.50	32.50	80.00	-	-
3	3	Sambhaji Chande	55.00	35.00	80.00	-	-
4	4	Kunal Chapudkar	27.50	70.00	80.00	-	-
5	5	Vaibhavi Deshmukh	42.50	85.00	80.00	-	-
6	6	Rohit Jadhav	30.00	50.00	70.00	-	-
7	7	Prathamesh Kendale	35.00	60.00	70.00	-	-
8	8	Anjali Mahadik	65.00	30.00	80.00	-	-
9	9	Akash Mule	50.00	25.00	80.00	-	-
10	10	Akshay Nayakavadi	42.50	77.50	80.00	-	-
11	11	Akash Patil	42.50	22.50	85.00	-	-
12	12	Omkar Patil	75.00	40.00	90.00	-	-
13	13	Vivek Pawar	57.50	17.50	50.00	-	-
14	14	Tejal Rode	Absent				
15	15	Apurva Salunkhe	85.00	45.00	80.00	-	-
16	16	Isha Shete	42.50	77.50	85.00	-	-
17	17	Manasi Zade	42.50	67.50	90.00	-	-

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5. Method of Assessment of POs:

Program Outcome attainment levels for all POs are set first and then attainment levels are evaluated by two assessment methods.

1. **Direct assessment methods** such as student performance in internal assessment & end semester examination of both theory & Practical considered for attainment of POs.

2. **Indirect assessment method** which includes students exit survey, parent survey and GPAT etc.

Direct Assessment tools and processes

For attainment of POs, direct assessment has been performed using internal assessment and end semester examination results as a tool. Various direct assessment tools used for assessing the students, with aim, frequency, POs mapped have been tabulated below.

In direct assessment, COs are mapped based on sessional examination question papers. The question wise performance of students in sessional examination is recorded and CO attainments are calculated. For semester examination, neither mark scored by students in each question, nor average/median marks are provided by university, hence, marks scored by every student in each course are used to calculate COs attained. The target has been set as 50% for both sessional and semester examinations. The contribution of performance in sessional and semester examination towards attainment of COs is kept in accordance with the weightage of both prescribed in curriculum. COs are mapped with POs and based on percentage of CO attained PO attainment is calculated. The weightage of direct attainment in final attainment of POs has been kept at 80%.

Following direct assessment tools are used for assessment of COs and subsequent POs as follows,

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Assessment Tool	Aim	Frequency	Program Outcome
Sessional Examination	To assess the understanding, knowledge gained, and practical skills acquired by the students	Two per semester per Course at the Institute level	All POs
Continuous Evaluation mode	To assess attendance, knowledge, skills, attitude of students	Throughout semester at Institute level	All POs
End Semester Examination	To assess the understanding, knowledge gained, and practical skills acquired by the students	One at the end of the semester at the University level.	All POs

Indirect Assessment Tools and Processes

In an indirect assessment, extracurricular, co-curricular activity outcomes are analyzed along with the feedback given by students for different activities. Feedback/surveys taken/performed periodically are tabulated below as an assessment tool employed. These tools (Feedback/surveys) are further analyzed for activity outcome (AO) attainments. Feedbacks are received on the basis of a rating scale of 1 to 3 for specific AO, where 3 indicates an excellent rating. AO attainment is calculated as an average rating. This average rating is used to calculate PO attainment by considering desired AO-PO mapping.

The total contribution of Indirect Assessment tools and processes towards attainment of POs is 20%.

List of. Feedback/surveys taken/performed:

Assessment Tool/Feedback	Aim	Frequency
Placement and Entrepreneurship Development Cell (EDC)	To assess the efforts put by college towards placement of students and inculcation of entrepreneurship culture in them. To assess the adequacy of job opportunities availed to students	After graduation of students and activities taken by placement cell.
Program Exit Survey	To assess the contribution of B. Pharmacy Program in overall development of students. To assess their preparedness for career likely to be opted	Every year after graduation of students
Industrial In-Plant Training	To assess observational and practical skills acquired by students and application of industrial scenario in academic mileu. To assess changes occurred in students in interpersonal relations.	After third/Final year of program
Professional Activities	To assess the professional attitude and ethics inculcated along with sense of responsibility discharged towards society	After every academic year
Student Projects and Research	To assess the problem identification and problem-solving attitude built. Also assess the logical and rational thinking	At the end of Final Year B. Pharm & M. Pharm
Co-curricular Activities	Improvement in planning abilities, communications skills, leadership qualities, and research orientation is assessed	After every academic year
GPAT & Competitive Exam	To assess planning abilities, improved knowledge, critical thinking and patience imparted	Every year after GPAT results
Alumni Survey	Assessment of effectiveness of program towards career plan attainments	Round the year/ during Alumni meet
Employer Survey	Quality of graduates is assessed through employer survey	Round the year

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Assessment Tool/Feedback	Aim	Frequency
Health care activities	To assess the health awareness created, societal healthcare problems identified and sorted out	After every academic year
NSS and Social Activities	Inculcation of social and ethical values along with health and hygiene awareness is assessed.	Once in a year after NSS activity
Sports Facilities and Activities	Improved health, sportsmanship spirit, and team performance skills are assessed	After sports week, every year
Cultural Activities	To assess performing skills and overall persona.	Once in a year at the time of term end.
Professional Visit	Assessment of observation skills and ability to correlate classroom studies to industrial and field scenario.	Every year after visit
Skill Development Programs	To assess the improvements brought about in overall personality of students.	After each Soft skill enhancement activity
Lab Equipment, CFC and Technical Services	To evaluate students' experience, learning gains, and satisfaction with lab equipment, CFC, and technical services and accordingly do improvements.	Once in a year at the time of term end.
Library	To assess students' usage, satisfaction, and learning outcomes associated with the library's resources and services.	Once in a year at the time of term end.

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Example of Mapping of CO with PO: B. Pharmacy

Bharati Vidyapeeth College of Pharmacy, Kolhapur

B. Pharmacy [2022-23]

CO PO Desired Mapping Report

Year : Second Year - Third Semester
Subject : PHYSICAL PHARMACEUTICS - I - Theory
Faculty : Mr.Udaykumar Patil
Course Code : NC302

Course Outcome Details

#	Course Outcome	Description
1	NC302.1	Students will acquire knowledge of physicochemical principles of matters, Solubility of drugs, buffers & isotonic solutions, interfacial phenomenon, adsorption, complexation and protein binding.
2	NC302.2	Application of principles of solubility & distribution, phase rule, isotonicity & pH adjustments, adsorption isotherms, interface interactions, complexation in development of pharmaceutical dosage forms.
3	NC302.3	Analyze effect of physicochemical properties on performance and stability of pharmaceutical formulations.
4	NC302.4	Conceptual understanding & mathematical calculations pertaining to gas behavior, optical rotation, refractive index, isotonicity adjustments, buffer preparation, surface & interfacial properties.
5	NC302.5	Students will be able to choose effective therapies through understanding of physicochemical phenomena governing in vitro and in vivo actions of pharmaceutical products

Desired Attainment Details

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
NC302.1	3	1	2	3	1	1		2	2	1	2
NC302.2	3	3	3	2	2	2	2	2	1	2	3
NC302.3	2	3	3	1	2	2	2	2	2		2

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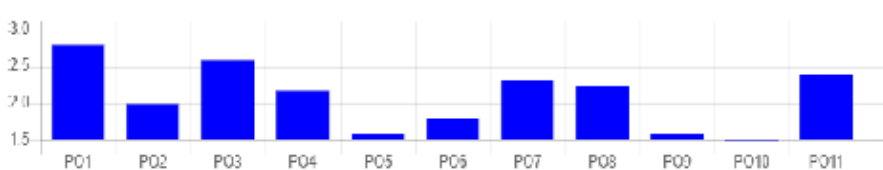
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NC302.4	3	1	3	3	1	1			1		2
NC302.5	3	2	2	2	2	3	3	3	2		3
Average	2.80	2.00	2.60	2.20	1.60	1.80	2.33	2.25	1.60	1.50	2.40

Desired Attainment Average : 2.10

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Example of Mapping of CO with PO: M. Pharmacy

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Bharati Vidyapeeth College of Pharmacy, Kolhapur
B. Pharmacy [2022-23]

CO PO Desired Mapping Report

Year : First Year – First Sem M.Pharm
Subject : Quality Control and Quality Assurance - Theory
Faculty : Dr. Mrs. Neela Bhatia
Course Code : MQA103T

Course Outcome Details

#	Course Outcome	Description
1	MQA103T.1	Understand the main attributes of quality assurance, responsibilities of QA & QC departments and interpret the regulatory aspects of GLP in pharmaceutical industry.
2	MQA103T.2	To relate cGMP guidelines as per regulatory authorities requirements.
3	MQA103T.3	To apply standard specification limits to pharmaceutical products as well as bulk drugs and understand store management.
4	MQA103T.4	Frame documentary requirements needed at industrial level and learn process of document maintenance.
5	MQA103T.5	Understand basic concepts of manufacturing operations as well as intellectual property rights

Desired Attainment Details

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
MQA103T.1	3	3	3	2	3	3	3	3	3	2	2
MQA103T.2	3	3	3	2	3	2	2	3	3	2	2
MQA103T.3	3	3	2	3	3	2	3	3	3	1	2
MQA103T.4	3	2	3	2	3	3	3	3	2	1	1
MQA103T.5	3	3	3	3	2	2	2	2	2	1	3
Average	3.00	2.80	2.80	2.40	2.80	2.40	2.60	2.80	2.60	1.40	2.00

Desired Attainment Average : 2.51

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Desired CO-PO Mapping for Direct Assessment:

(B. Pharmacy: Odd Semesters)

BVCOP
Desired CO PO Mapped Outcome - B. Pharmacy [2022-23]

First Semester

NC101 Human Anatomy and Physiology I [Theory | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
NC101.1	3	1	1	1	2	1	1	1	1	1	2
NC101.2	3	1	1	2	2	2	1	1	1	1	2
NC101.3	3	2	3	2	2	3	1	1	2	1	2
NC101.4	3	3	2	3	3	3	2	2	2	1	2
NC101.5	3	3	2	2	3	2	2	3	2	1	2
Average	3	2	1.8	2	2.4	2.2	1.4	1.6	1.6	1	2

NC102 Pharmaceutical Analysis [Theory | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
NC102.1	3	2	2	1	1	3	2	1	2	1	3
NC102.2	3	3	3	1	1	2	3	1	2	2	2
NC102.3	3	2	2	2	1	3	3	2	3	1	2
NC102.4	3	3	3	1	2	2	2	3	2	2	2
NC102.5	3	2	2	2	1	2	2	2	3	3	2
Average	3	2.4	2.4	1.4	1.2	2.4	2.4	1.8	2.4	1.8	2.2

NC103 Pharmaceutics I [Theory | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	3	1	1	1	2	3	2	1	3	1	3
CO2	3	2	2	2	2	3	2	2	3	2	3
CO3	3	3	2	3	1	3	2	3	2	2	2
CO4	3	3	3	3	2	2	2	3	2	1	1
CO5	3	2	2	2	2	2	1	2	1	2	2
Average	3	2.2	2	2.2	1.8	2.6	1.8	2.2	2.2	1.6	2.2

NC104 Pharmaceutical Inorganic Chemistry [Theory | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
NC104.1	3	2	2	1	1	2	3	1	1		2
NC104.2	3	2	2	2	2	2	2	2	1	1	2
NC104.3	3	1	2	1	2	2	1	2	1	1	2
NC104.4	3	1	1	1	1	2	2	1	2	2	2
NC104.5	3	3	2	2	2	1	2	1	1		2
Average	3	1.8	1.8	1.4	1.6	1.8	2	1.4	1.2	1.25	2

NC105 Communication Skills [Theory | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11

NC105.1	1	3	3	2	3	3	3	3	3	2	3
NC105.2	2	3	3	2	3	3	2	3	3		3
NC105.3	1	3	3	3	3	3	3	3	2	2	3
NC105.4	2	3	3	3	3	3	3	3	3	2	3
NC105.5		3	3		3	3	3	3	3		3
Average	1.5	3	3	2.5	3	3	2.8	3	2.8	2	3

NC106B REMEDIAL BIOLOGY [Theory | Elective]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	2	3	2	2	2	2	2	3	2	3	2
CO2	3	3	2	2	2	2	2	3	3	3	2
CO3	3	3	3	2	2	3	2	3	2	3	3
CO4	3	3	2	2	2	2	2	2	3	3	2
CO5	3	3	2	2	2	2	2	2	3	3	2
Average	2.8	3	2.2	2	2	2.2	2	2.6	2.6	3	2.2

NC106M REMEDIAL MATHS [Theory | Elective]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
NC106.1	3	2	2	2	3	2	1	2	1	1	2
NC106.2	2	2	3	2	2	2	2	2	2	1	2
NC106.3	3	3	2	3	2	2	1	2	2	1	2
NC106.4	3	3	3	2	1	2	1	3	1	1	2
NC106.5	3	2	3	3	1	2	2	3	2	1	2
Average	2.8	2.4	2.6	2.4	1.8	2	1.4	2.4	1.6	1	2

NC107 Human Anatomy and Physiology I [Practical | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
NC107.1	3	2	2	3	2	2		1	2	1	2
NC107.2	3	2	2	1	2	1	1	1	1	1	2
NC107.3	3	3	3	2	2	2	3	1	2	1	2
Average	3	2.33	2.33	2	2	1.67	2	1	1.67	1	2

NC108 Pharmaceutical Analysis [Practical | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
NC107.1	3	3	2	2	2	2	2	3	2	1	2
NC107.2	3	3	3	1	2	3	2	2	2	3	2
NC107.3	2	3	3	1	2	3	3	2	2	2	2
Average	2.67	3	2.67	1.33	2	2.67	2.33	2.33	2	2	2

NC109 Pharmaceutics I [Practical | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	3	2	2	1	2	2	2	2	2	2	1
CO2	3	3	2	3	2	2	2	2	1	1	2
CO3	3	3	3	2	2	2	2	1	2	3	2

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	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Average	3	2.67	2.33	2	2	2	2	1.67	1.67	2	1.67

NC110 Pharmaceutical Inorganic Chemistry [Practical | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
NC110.1	3	2	2	1	1	2	2	1	1		2
NC110.2	3	2	3	2	2	1	1	1	1	1	2
NC110.3	3	2	3	2	1	1	1	2	2	1	2
Average	3	2	2.67	1.67	1.33	1.33	1.33	1.33	1.33	1	2

NC111 Communication Skills [Practical | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
NC111.1	1	3	3	2	3	3	3	3	3	1	3
NC111.2	1	3	3	2	3	3	3	3	3		3
NC111.3	2	3	3	3	3	3	3	3	3		3
Average	1.33	3	3	2.33	3	3	3	3	3	1	3

NC112 REMEDIAL BIOLOGY [Practical | Elective]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	3	3	3	2	2	2	2	2	2	2	2
CO2	2	3	2	2	2	2	2	3	3	3	3
CO3	3	3	2	3	2	2	2	2	2	2	2
Average	2.67	3	2.33	2.33	2	2	2	2.33	2.33	2.33	2.33

Third Semester

NC105 Communication Skill [Theory | Elective]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
NC105.1	1	3	3	2	3	3	3	3	3	2	3
NC105.2	2	3	3	2	3	3	2	3	3		3
NC105.3	1	3	3	3	3	3	3	3	2	2	3
NC105.4	2	3	3	3	3	3	3	3	3	2	3
NC105.5		3	3		3	3	3	3	3		3
Average	1.5	3	3	2.5	3	3	2.8	3	2.8	2	3

NC111 Communication Skill [Practical | Elective]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
NC111.1	1	3	3	2	3	3	3	3	3	1	3
NC111.2	1	3	3	2	3	3	3	3	3		3
NC111.3	2	3	3	3	3	3	3	3	3		3
Average	1.33	3	3	2.33	3	3	3	3	3	1	3

NC301 PHARMACEUTICAL ORGANIC CHEMISTRY II [Theory | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
NC301.1	3	1	1	2		2	3	2	3	3	3
NC301.2	2	3	2	1	1	2	3		2	2	2
NC301.3	3	1	3	2	1	3	2	2	3	3	1

NC301.4	3	2	2	2	3	3	2	2	3	3	1
NC301.5	3	3	3	3	2	3	2	2	3	3	3
Average	2.8	2	2.2	2	1.75	2.6	2.4	2	2.8	2.8	2

NC302 PHYSICAL PHARMACEUTICS – I [Theory | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
NC302.1	3	1	2	3	1	1		2	2	1	2
NC302.2	3	3	3	2	2	2	2	2	1	2	3
NC302.3	2	3	3	1	2	2	2	2	2		2
NC302.4	3	1	3	3	1	1			1		2
NC302.5	3	2	2	2	2	3	3	3	2		3
Average	2.8	2	2.6	2.2	1.6	1.8	2.33	2.25	1.6	1.5	2.4

NC303 PHARMACEUTICAL MICROBIOLOGY [Theory | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
NC303.1	3	2	3	3	2	2	2	2	3	1	2
NC303.2	3	3	3	2	1	2	1	2	2	1	1
NC303.3	3	3	3	3	1	1	2	1	2	2	2
NC303.4	2	2	1	2	2	3	3	2	2	2	1
NC303.5	2	1	2	1	2	3	2	3	3	2	1
Average	2.6	2.2	2.4	2.2	1.6	2.2	2	2	2.4	1.6	1.4

NC304 PHARMACEUTICAL ENGINEERING [Theory | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
NC304.1	3	2	1	1	2	2	3	1	2	3	2
NC304.2	3	3	2	3	1	1	2	3	2	2	1
NC304.3	3	3	3	3	2	2	2	3	2	2	2
NC304.4	3	3	2	3	1	2	1	2	2	2	2
NC304.5	3	2	2	3	2	2	1	3	2	1	1
Average	3	2.6	2	2.6	1.6	1.8	1.8	2.4	2	2	1.6

NC305 PHARMACEUTICAL ORGANIC CHEMISTRY II [Practical | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
NC305.1	3	3	2		1	3	3	1	3	2	2
NC305.2	2	2	3	1	2	3	2	1	3	3	2
NC305.3	2	3	3	2	2	3	2	1	3	3	1
Average	2.33	2.67	2.67	1.5	1.67	3	2.33	1	3	2.67	1.67

NC306 PHYSICAL PHARMACEUTICS - I [Practical | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
NC306.1	3	2	2	3	3	2		2	2		2
NC306.2	3	3	3	3	3	3	1	2	1	2	3
NC306.3	3	3	3	3	2	3	2	3	1		3
Average	3	2.67	2.67	3	2.67	2.67	1.5	2.33	1.33	2	2.67

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NC307 PHARMACEUTICAL MICROBIOLOGY [Practical | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
NC307.1	3	3	3	1	1	2	2	2	2	2	2
NC307.2	3	3	3	2	1	1	3	2	2	1	2
NC307.3	3	2	3	1	3	3	3	2	2	1	2
Average	3	2.67	3	1.33	1.67	2	2.67	2	2	1.33	2

NC308 PHARMACEUTICAL ENGINEERING [Practical | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
NC308.1	3	2	3	3	2	2	3	2	3	1	3
NC308.2	3	3	2	2	2	3	2	2	2	2	1
NC308.3	3	3	3	2	3	2	2	2	2	1	3
Average	3	2.67	2.67	2.33	2.33	2.33	2.33	2	2.33	1.33	2.67

Fifth Semester

NC501 Medicinal Chemistry-II [Theory | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
NC501.1	3	3	3	3	2	2	3	2	2	2	3
NC501.2	3	2	3	3	2	2	3	2	2	2	3
NC501.3	3	3	3	3	2	2	3	2	2	2	3
NC501.4	3	2	2	3	2	2	3	2	2	2	3
NC501.5	3	2	2	3	2	2	2	2	2	2	3
Average	3	2.4	2.6	3	2	2	2.8	2	2	2	3

NC502 Industrial Pharmacy-I [Theory | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
NC502.1	3	3	3	3	2	2	2	2	1	2	2
NC502.2	3	3	2	3	2	2	2	1	3	2	2
NC502.3	3	3	3	3	2	3	3	2	3	2	2
NC502.4	3	3	2	2	2	3	2	2	2	2	2
NC502.5	3	3	2	2	2	2	3	1	1	2	1
Average	3	3	2.4	2.6	2	2.4	2.4	1.6	2	2	1.8

NC503 Pharmacology - II [Theory | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
NC503.1	3	2	3	1	2	2	2	2	3	1	2
NC503.2	3	2	3	2	2	2	2	2	3	1	2
NC503.3	3	2	2	2	2	2	3	2	2	1	2
NC503.4	3	3	3	3	2	3	3	2	3	3	2
NC503.5	3	2	3	3	3	3	3	3	3	1	2
Average	3	2.2	2.8	2.2	2.2	2.4	2.6	2.2	2.8	1.4	2

NC504 Pharmacognosy and Phytochemistry II [Theory | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11

NC504.1	3	2	2	3	1	3	2	2	3	1	1
NC504.2	3	3	3	2	1	2	2	2	2	1	1
NC504.3	3	3	3	2	1	2	2	1	2	1	1
NC504.4	3	2	2	1	1	1	3	2	3	2	1
NC504.5	3	1	2	1	1	1	2	3	3	2	1
Average	3	2.2	2.4	1.8	1	1.8	2.2	2	2.6	1.4	1

NC505 Pharmaceutical Jurisprudence [Theory | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
C505.1	3	2	2	2	2	3	3	2	3	1	2
C505.2	3	2	2	2	2	3	3	2	2	1	2
C505.3	3	2	2	2	2	3	2	2	2	1	2
C505.4	3	2	2	2	2	3	3	2	2	1	2
C505.5	3	2	2	1	2	3	3	2	2	2	2
Average	3	2	2	1.8	2	3	2.8	2	2.2	1.2	2

NC506 Industrial Pharmacy I [Practical | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
NC506.1	3	3	3	3	2	2	2	2	1	2	2
NC506.2	3	3	3	3	2	3	3	2	3	2	2
NC506.3	3	2	3	3	2	2	2	2	2	2	2
Average	3	2.67	3	3	2	2.33	2.33	2	2	2	2

NC507 Pharmacology - II [Practical | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
NC507.1	3	3	3	3	2	3	3	2	2	3	2
NC507.2	3	3	3	3	2	3	2	3	2	3	2
NC507.3	3	3	2	2	2	2	3	2	3	1	2
Average	3	3	2.67	2.67	2	2.67	2.67	2.33	2.33	2.33	2

NC508 Pharmacognosy and Phytochemistry II [Practical | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
NC508.1	3	2	2	1	1	3	2	2	2	1	1
NC508.2	3	2	2	2	2	2	1	2	2	1	1
NC508.3	3	2	2	1	2	2	2	2	2	2	1
Average	3	2	2	1.33	1.67	2.33	1.67	2	2	1.33	1

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Seventh Semester

NC701 Instrumental Methods of Analysis [Theory | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
NC701.1	3	3	1	3	2	1	2	2	1	1	1
NC701.2	3	2	2	2	2	2	2	2	3	2	2
NC701.3	3	2	2	2	2	2	2	2	2	1	2
NC701.4	3	3	2	3	1	2	2	2	2	1	2
NC701.5	3	3	2	3	1	1	2	2	2	1	1
Average	3	2.6	1.8	2.6	1.6	1.6	2	2	2	1.2	1.6

NC702 Industrial Pharmacy II [Theory | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
NC702.1	3	3	3	3	3	2	1	2	1	2	1
NC702.2	3	3	2	3	2	3	3	2	3	3	3
NC702.3	3	3	3	3	3	2	3	2	3	2	3
NC702.4	3	2	2	2	2	2	3	2	3	2	1
NC702.5	3	2	1	1	1	1	2	1	2	3	2
Average	3	2.6	2.2	2.4	2.2	2	2.4	1.8	2.4	2.4	2

NC703 Pharmacy Practice [Theory | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
NC703.1	3	3	2	3	2	3	2	3	3	1	2
NC703.2	3	3	2	2	1	2	2	3	3	1	2
NC703.3	3	3	3	2	2	3	2	3	3	1	2
NC703.4	3	3	3	2	2	3	2	2	3	1	2
NC703.5	3	3	3	2	3	2	2	2	2	1	2
Average	3	3	2.6	2.2	2	2.6	2	2.6	2.8	1	2

NC704 Novel Drug Delivery System [Theory | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	3	2	2	3	1	3	3	2	3	3	3
CO2	3	2	3	3	2	3	3	3	3	3	3
CO3	3	3	3	3	2	3	3	2	2	3	3
CO4	3	3	3	3	2	3	3	2	3	3	3
CO5	3	2	3	3	2	3	3	1	3	3	3
Average	3	2.4	2.8	3	1.8	3	3	2	2.8	3	3

NC705 Instrumental Methods of Analysis [Practical | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
NC705.1	3	3	3	3	3	3	2	3	3	1	3
NC705.2	3	3	3	3	3	3	3	3	3	1	3
NC705.3	3	3	3	3	3	3	2	3	3	1	3
Average	3	3	3	3	3	3	2.33	3	3	1	3

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NC706 C PRACTICE SCHOOL.3 [Practical | Elective]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
NC706.1	3	2	3	2	2	3	3	3	3	1	2
NC706.2	3	3	3	3	2	3	2	2	3	1	2
NC706.3	3	2	3	2	2	2	1	2	2	3	2
Average	3	2.33	3	2.33	2	2.67	2	2.33	2.67	1.67	2

NC706A PRACTICE SCHOOL.1 [Practical | Elective]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BP706.1	3	3	3	2	3	3	2	2	2	3	3
BP706.2	3	3	3	2	3	3	3	3	3	2	3
BP706.3	3	3	3	3	3	3	2	3	3	2	3
Average	3	3	3	2.33	3	3	2.33	2.67	2.67	2.33	3

NC706B PRACTICE SCHOOL.2 [Practical | Elective]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
NC706B.1	3	3	3	3	3	3	2	3	2	2	3
NC706B.2	3	3	3	2	3	3	2	3	2	2	3
NC706B.3	3	3	3	2	3	3	3	3	2	2	3
Average	3	3	3	2.33	3	3	2.33	3	2	2	3

Desired CO-PO Mapping (B. Pharmacy: Even Semesters)

BVCOP
Desired CO PO Mapped Outcome - B. Pharmacy [2022-23]

Second Semester

NC201 Human Anatomy and Physiology II [Theory | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	3	2	1	2	1	1	2	2	2	1	2
CO2	3	3	2	2	2	2	2	3	2	1	2
CO3	3	1	3	2	2	1	2	2	2	1	2
CO4	3	1	1	3	2	1	2	2	2	1	2
CO5	3	2	3	3	3	3	3	3	3	1	2
Average	3	2	1.8	2	2.4	2.2	1.5	1.6	1.6	1	2

NC202 Pharmaceutical Organic Chemistry I [Theory | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	3	1	2	1	1	1	1	1	1	1	2
CO2	3	1	2	1		1		1	1	1	2
CO3	3	2	2	1	1	1	1	2	2	2	2
CO4	3	2	2	1	2	2	1	2	1	1	2
CO5	3	2	2	2	2	2	1	2	2	2	2
Average	3	1.6	2	1.2	1.5	1.4	1	1.6	1.4	1.4	2

NC203 Biochemistry [Theory | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	3	2	1	3	2	2	3	3	1	2	3
CO2	3	3	3	3	3	3	2	1	3	2	3
CO3	3	3	3	1	3	3	2	3	3	2	3
CO4	2	3	3	3	1	3	3	2	3	2	2
CO5	3	3	3	1	2	3	3	3	3	3	2
Average	2.8	2.8	2.6	2.2	2.2	2.8	2.6	2.4	2.6	2.2	2.6

NC204 Pathophysiology [Theory | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
NC203T.1	3	1	3	1	1	2	2	1	2	1	2
NC203T.2	3	3	3	2	2	2	3	3	3	3	2
NC203T.3	3	2	3	1	2	2	2	2	2	1	2
NC203T.4	3	1	3	1	1	1	1	1	2	1	2
NC203T.5	3	2	3	3	2	2	2	2	3	2	2
Average	3	1.8	3	1.6	1.6	1.8	2	1.8	2.4	1.6	2

NC205 Computer Applications in Pharmacy [Theory | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11

NC205.1	3	2	2	3	2	2	2	3	2	2	3
NC205.2	3	2	2	3	2	2	2	3	2	2	2
NC205.3	3	3	3	3	2	2	2	3	2	2	3
NC205.4	3	2	2	3	2	2	2	3	2	2	3
NC205.5	3	2	2	3	2	2	2	3	2	2	3
Average	3	2.2	2.2	3	2	2	2	3	2	2	2.8

NC206 ENVIRONMENTAL SCIENCES [Theory | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
NC206.1	3	2	3	1	2	1	2	2	2	3	2
NC206.2	2	3	3	1	3	1	3	2	1	3	3
NC206.3	2	2	2	3	1	3	1	1	3	3	2
NC206.4	3	2	2	1	1	1	2	1	2	3	2
NC206.5	3	2	1	2	2	1	1	1	2	3	2
Average	2.6	2.2	2.2	1.6	1.8	1.4	1.8	1.4	2	3	2.2

NC207 Human Anatomy and Physiology II [Practical | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
NC207.1	3	3	3	3	1	1	1	2	1	1	2
NC207.2	3	3	3	2	1	1	1	2	2	1	2
NC207.3	3	3	2	2	2	2	3	2	3	1	2
Average	3	3	2.67	2.33	1.33	1.33	1.67	2	2	1	2

NC208 Pharmaceutical Organic Chemistry I [Practical | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	3	2	2	1	2	2	1	2	2	1	2
CO2	3	2	2	1	1	2	1	2	1	1	2
CO3	3	2	2	2	2	2	1	2	2	2	2
Average	3	2	2	1.33	1.67	2	1	2	1.67	1.33	2

NC209 Biochemistry [Practical | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
NC209.1	3	2	2	3	1	2	3	2	3	2	2
NC209.2	2	3	3	2	3	2	2	1	2	2	2
NC209.3	3	1	3	2	3	3	2	1	3	3	3
Average	2.67	2	2.67	2.33	2.33	2.33	2.33	1.33	2.67	2.33	2.33

NC210 Computer Applications in Pharmacy [Practical | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
NC210.1	3	2	2	3	2	2	2	2	2	2	3
NC210.2	3	2	2	3	2	2	2	2	2	2	3
NC210.3	3	2	2	3	2	2	2	2	2	2	3
Average	3	2	2	3	2	2	2	2	2	2	3

Fourth Semester

NC 404 Pharmacology I [Theory | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
201	3	3	3	2	1	3	1	2	3	1	2
201	3	3	3	2	1	3	1	1	3	1	1
201	3	3	3	2	1	3	2	2	3	2	1
201	3	3	3	3	2	3	2	3	3	3	2
201	3	3	3	3	2	3	3	3	3	2	2
Average	3	3	3	2.4	1.4	3	1.8	2.2	3	1.8	1.6

NC205 Computer Applications in Pharmacy [2nd year] [Theory | Elective]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
NC205.1	3	2	2	3	2	2	2	3	2	2	3
NC205.2	3	2	2	3	2	2	2	3	2	2	2
NC205.3	3	3	3	3	2	2	2	3	2	2	3
NC205.4	3	2	2	3	2	2	2	3	2	2	3
NC205.5	3	2	2	3	2	2	2	3	2	2	3
Average	3	2.2	2.2	3	2	2	2	3	2	2	2.8

NC210 Computer Applications in Pharmacy [2nd year] [Practical | Elective]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
NC210.1	3	2	2	3	2	2	2	2	2	2	3
NC210.2	3	2	2	3	2	2	2	2	2	2	3
NC210.3	3	2	2	3	2	2	2	2	2	2	3
Average	3	2	2	3	2	2	2	2	2	2	3

NC401 Pharmaceutical Organic Chemistry III [Theory | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
NC401.1	3	1	1	2	3	2	3	2	3	3	3
NC401.2	2	3	2	1	1	2	3	2	2	2	2
NC401.3	3	1	3	2	1	3	2	2	3	3	1
NC401.4	3	2	2	2	3	3	2	2	3	3	1
NC401.5	3	3	3	3	2	3	2	2	3	3	3
Average	2.8	2	2.2	2	1.75	2.6	2.4	2	2.8	2.8	2

NC402 Medicinal Chemistry I [Theory | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
NC402.1	3	3	2	3	2	2	3	2	3	1	3
NC402.2	3	3	2	3	2	2	3	2	3	1	3
NC402.3	3	3	2	3	2	2	3	2	3	1	3
NC402.4	3	3	2	3	2	2	3	2	3	1	3
NC402.5	3	3	2	3	2	2	3	2	3	1	3
Average	3	3	2	3	2	2	3	2	3	1	3

NC403 Physical Pharmaceutics II [Theory | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
NC403.1	3	2	3	3	2	2	2	3	1	1	2
NC403.2	3	3	3	3	3	2		2		2	3
NC403.3	3	2	3	2	3	1	1	1	2		2
NC403.4	3	2	1	3	2			2		1	2
NC403.5	2		2		2	3	3	2	2		2
Average	2.8	2.25	2.4	2.75	2.4	2	2	2	1.67	1.33	2.2

NC405 Pharmacognosy and Phytochemistry I [Theory | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
NC405.1	3	2	2	3	1	3	2	2	3	1	1
NC405.2	3	3	3	2	1	2	2	2	2	1	1
NC405.3	3	1	2	1	2	3	2	3	3	2	1
NC405.4	3	2	2	1	2	3	3	2	2	2	1
NC405.5	3	1	2	1	2	3	2	3	3	2	1
Average	3	1.8	2.2	1.6	1.6	2.8	2.2	2.4	2.6	1.6	1

NC406 Medicinal Chemistry I [Practical | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
NC406.1	3	2	2	2	2	2	1	2	1	1	3
NC406.2	3	2	2	2	2	2	1	2	2	2	3
NC406.3	3	2	2	2	2	2		2	1	1	3
Average	3	2	2	2	2	2	1	2	1.33	1.33	3

NC407 Physical Pharmaceutics II [Practical | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
NC407.1	3	3	2	3	2	3	1	2	2	2	2
NC407.2	3	3	3	3	3	3	2	2	1	2	3
NC407.3	3	2	3	1	2	2		3	2		2
Average	3	2.67	2.67	2.33	2.33	2.67	1.5	2.33	1.67	2	2.33

NC408 Pharmacology I [Practical | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
NC201.1	3	2	2	3	2	2	1	1	2	1	2
NC201.2	3	2	2	1	2	1	1	1	1	1	2
NC201.3	3	3	3	2	2	2	3	1	2	1	2
Average	3	2.33	2.33	2	2	1.67	1.67	1	1.67	1	2

NC409 Pharmacognosy and Phytochemistry I [Practical | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	3	2	2	3	2	3	2	2	3	2	2
CO2	3	3	2	2	2	2	1	1	2	2	2
CO3	3	3	2	2	2	2	2	1	2	2	2
Average	3	2.67	2	2.33	2	2.33	1.67	1.33	2.33	2	2

Sixth Semester

NC601 Medicinal Chemistry III [Theory | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
NC601.1	3	3	3	3	2	2	2	2	3	3	3
NC601.2	3	3	3	3	1	2	2	2	3	2	3
NC601.3	3	3	3	3	1	2	3	2	3	3	3
NC601.4	3	3	3	3	2	2	3	2	3	1	3
NC601.5	3	3	3	3	2	2	2	2	3	3	3
Average	3	3	3	3	1.6	2	2.4	2	3	2.4	3

NC602 Pharmacology III [Theory | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
NC602.1	3	3	3	3	2	3	3	3	3	1	3
NC602.2	3	3	3	3	2	3	3	3	3	2	3
NC602.3	3	3	3	3	2	3	3	3	3	1	3
NC602.4	3	3	3	2	2	3	3	3	3	2	3
NC602.5	3	3	3	2	2	3	3	3	3	2	3
Average	3	3	3	2.6	2	3	3	3	3	1.6	3

NC603 Herbal Drug Technology [Theory | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
NC603.1	3	1	3	1	1	2	2	2	2	3	1
NC603.2	3	1	3	2	1	2	2	2	2	3	1
NC603.3	3	2	2	3	1	3	2	2	3	2	1
NC603.4	3	2	3	2	2	3	1	2	3	3	2
NC603.5	3	3	3	3	2	3	3	2	3	2	3
Average	3	1.8	2.8	2.2	1.4	2.6	2	2	2.6	2.6	1.6

NC604 Biopharmaceutics and Pharmacokinetics [Theory | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
NC604.3	3	3	2	2	2	1	2	2	2	3	2
NC604.1	3	3	2	1	2	2	1	2	2	2	2
NC604.2	3	2	2	2	1	2	2	2	2	3	2
NC604.4	3	2	3	2	2	3	2	2	2	1	2
NC604.5	3	3	2	2	2	2	2	1	2	2	2
Average	3	2.6	2.2	1.8	1.8	2	1.8	1.8	2	2.2	2

NC605 Pharmaceutical Biotechnology [Theory | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
NC605.1	3	2	3	3	1	2	2	2	3	2	3
NC605.2	3	3	3	2	1	2	2	1	2	2	2
NC605.3	3	3	3	2	1	1	2	1	2	2	2
NC605.4	3	2	2	2	2	3	2	1	2	2	2

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NC605.5	3	1	2	1	2	3	2	3	3	2	1
Average	3	2.2	2.6	2	1.4	2.2	2	1.6	2.4	2	2

NC606 Quality Assurance [Theory | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	3	3	3	1	3	2	3	2	1		2
CO2	3	3	3	2	2	2	2	3	1		2
CO3	3	3	2	3	2	1	2	2	1	1	2
CO4	3	3	2	2	2	2	3	2	1	1	2
CO5	3	2	2	1	2	3	2	3	2	1	2
Average	3	2.8	2.4	1.8	2.2	2	2.4	2.4	1.2	1	2

NC607 Medicinal Chemistry III [Practical | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
NC607.1	3	3	3	3	3	2	2	2	2	3	2
NC607.2	3	3	3	3	2	2	1	2	2	1	2
NC607.3	3	3	2	2	2	2	3	2	3	1	2
Average	3	3	2.67	2.67	2.33	2	2	2	2.33	1.67	2

NC608 Pharmacology III [Practical | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
NC608.1	3	3	3	3	2	3	3	2	2	3	2
NC608.2	3	3	3	3	2	3	2	3	2	3	2
NC608.3	3	3	2	2	2	2	3	2	3	1	3
Average	3	3	2.67	2.67	2	2.67	2.67	2.33	2.33	2.33	2.33

NC609 Herbal Drug Technology [Practical | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
NC609.1	3	2	2	1	1	3	2	2	2	2	2
NC699.2	3	2	2	2	2	2	1	1	2	2	2
NC609.3	3	2	2	1	2	2	2	2	2	2	2
Average	3	2	2	1.33	1.67	2.33	1.67	1.67	2	2	2

CO1	3	2	3	2	3	2	3	1	1	1	2
CO2	3	2	2	2	2	2	2	2	2	1	2
CO3	3	3	2	1	2	1	2	2	2	2	2
CO4	3	2	3	2	2	2	2	2	2	2	1
CO5	3	2	2	1	2	2	1	1	2	2	1
Average	3	2.2	2.4	1.6	2.2	1.8	2	1.6	1.8	1.6	1.6

NC803 Pharmaceutical Marketing Management [Theory | Elective]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
T803.1	3	2	3	2	3	3	2	3	3	1	2
T803.2	3	2	2	2	1	2	2	2	2	1	1
T803.3	3	3	2	2	3	3	2	3	3	1	2
T803.4	3	3	2	2	3	3	2	3	3	1	2
T803.5	3	2	2	2	2	3	2	3	2	1	2
Average	3	2.4	2.2	2	2.4	2.8	2	2.8	2.6	1	1.8

NC805 Pharmacovigilance [Theory | Elective]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
NC805.1	3	1	3	2	1	3	1	2	3	1	2
NC805.2	3	3	3	3	3	2	2	2	3	1	2
NC805.3	3	3	3	2	3	2	3	2	3	1	2
NC805.4	3	3	3	3	3	2	3	3	2	3	2
NC805.5	3	2	2	3	2	2	1	2	3	1	2
Average	3	2.4	2.8	2.6	2.4	2.2	2	2.2	2.8	1.4	2

NC809 Cosmetic Science [Theory | Elective]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
NC809.1	3	1	3	2	1	2	2	2	2	3	1
NC809.2	3	1	3	2	1	2	2	2	2	3	1
NC809.3	3	2	2	3	2	3	2	2	3	2	1
NC809.4	3	2	3	2	2	3	1	2	3	3	2
NC809.5	3	3	3	3	2	3	3	2	3	2	3
Average	3	1.8	2.8	2.4	1.6	2.6	2	2	2.6	2.6	1.6

NC811 Analytical Instrumental Techniques [Theory | Elective]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
NC811.1	3	3	3	3	3	2	2	3	1	1	3
NC811.2	3	2	3	3	2	3	3	3	3	2	2
NC811.3	3	3	3	3	3	3	3	3	2	1	3
NC811.4	3	1	1	3	2	1	2	2	1	1	1
NC811.5	3	3	3	3	3	3	2	3	2	1	3
Average	3	2.4	2.6	3	2.6	2.4	2.4	2.8	1.8	1.2	2.4

NC813 PROJECT [Theory | Elective]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	3	3	3	3	3	2	3	3	3	2	3
CO2	3	3	3	2	3	2	3	2	3	2	2
CO3	3	3	3	3	3	3	2	2	3	2	2
Average	3	3	3	2.67	3	2.33	2.67	2.33	3	2	2.33

Course PO Matrix of all courses of B. Pharmacy (2022-2023):

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
NC101	3.00	2.00	1.80	2.00	2.40	2.20	1.50	1.60	1.60	1.00	2.00
NC102	3.00	2.40	2.40	1.40	1.20	2.60	2.40	1.80	2.40	1.80	2.20
NC103	3.00	2.20	2.00	2.40	1.80	2.60	1.80	2.20	2.20	2.00	2.20
NC104	3.00	1.80	1.80	1.40	1.60	1.80	2.00	1.40	1.40	1.33	2.00
NC105	2.00	2.20	1.80	1.50	2.60	2.40	1.75	3.00	2.40	2.00	2.00
NC106B	2.80	3.00	2.20	2.00	2.00	2.20	2.00	2.60	2.60	3.00	2.20
NC106M	2.80	2.40	2.60	2.40	1.80	2.00	1.40	2.40	1.60	1.00	2.00
NC107	2.00	2.33	2.00	2.33	2.67	2.33	2.33	2.67	2.33	3.00	2.33
NC108	2.67	3.00	2.67	1.33	2.00	2.67	2.33	2.33	2.00	2.00	2.00
NC109	3.00	2.67	2.67	2.00	1.67	2.00	1.67	2.00	1.67	2.00	2.00
NC110	3.00	2.00	2.67	1.67	1.33	1.33	1.33	1.33	1.33	1.00	2.00
NC111	1.33	3.00	3.00	2.33	3.00	3.00	3.00	3.00	3.00	1.00	3.00
NC112	2.67	3.00	2.33	2.33	2.00	2.00	2.00	2.33	2.33	2.33	2.33
NC201	3.00	2.00	1.80	2.00	2.40	2.20	1.50	1.60	1.60	1.00	2.00
NC202	3.00	1.60	2.00	1.20	1.50	1.40	1.00	1.60	1.40	1.40	2.00
NC203	2.80	2.80	2.60	2.20	2.20	2.80	2.60	2.40	2.60	2.20	2.60
NC204	3.00	1.80	3.00	1.60	1.60	1.80	2.00	1.80	2.60	1.60	2.00
NC205	3.00	2.00	2.00	1.80	1.20	2.40	1.60	2.60	2.20	1.20	2.00
NC206	2.60	2.20	2.20	1.60	1.80	1.40	1.80	1.40	2.00	3.00	2.20
NC207	3.00	3.00	2.67	2.33	1.33	1.33	1.67	2.00	2.00	1.00	2.00
NC208	3.00	2.00	2.00	1.33	1.67	2.00	1.00	2.00	1.67	1.33	2.00
NC209	2.67	2.00	2.67	2.33	2.33	2.33	2.33	1.33	2.67	2.33	2.33
NC210	3.00	2.00	2.00	2.33	1.00	2.00	1.33	2.33	2.33	1.00	2.00
NC301	2.80	2.00	2.20	2.00	1.75	2.60	2.40	2.00	2.80	2.80	2.00
NC302	2.80	2.00	2.60	2.20	1.60	1.80	2.33	2.25	1.60	1.50	2.40
NC303	2.60	2.20	2.40	2.20	1.60	2.20	2.00	2.00	2.40	1.60	1.40
NC304	3.00	2.60	2.00	2.60	1.60	1.80	1.80	2.40	2.00	2.00	1.60

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Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
NC305	2.33	2.67	2.67	1.50	1.67	3.00	2.33	1.33	3.00	2.67	2.00
NC306	3.00	2.67	2.67	2.33	2.33	2.67	1.50	2.33	1.67	2.00	2.33
NC307	3.00	2.67	3.00	1.33	1.67	2.00	2.67	2.00	2.00	1.33	2.00
NC308	3.00	2.67	2.67	2.33	2.33	2.33	2.33	2.00	2.33	1.33	2.67
NC401	3.00	3.00	2.20	2.40	3.00	2.00	2.00	1.60	2.00	2.00	3.00
NC402	3.00	3.00	2.80	2.60	1.80	2.20	2.00	2.00	2.00	1.00	2.80
NC403	2.80	2.25	2.40	2.75	2.40	2.00	2.00	2.00	1.67	1.33	2.20
NC404	3.00	2.20	2.40	2.40	2.20	2.60	2.60	2.20	2.80	1.40	2.00
NC405	3.00	2.20	2.40	1.80	1.40	2.60	2.20	2.00	2.40	1.40	1.00
NC406	3.00	2.67	2.67	2.00	2.00	2.00	2.00	2.00	2.00	1.33	3.00
NC407	3.00	2.67	2.67	2.33	2.33	2.67	1.33	2.33	1.67	2.00	2.33
NC408	3.00	3.00	2.67	2.67	2.00	2.00	3.00	2.00	2.33	2.33	2.00
NC409	3.00	2.67	2.00	2.33	2.00	2.67	1.67	1.33	2.33	2.00	2.00
NC501	3.00	2.40	2.60	3.00	2.00	2.00	2.80	2.00	2.00	2.00	3.00
NC502	3.00	3.00	2.40	2.60	2.00	2.40	2.40	1.60	2.00	2.00	1.80
NC503	3.00	2.20	2.80	2.20	2.20	2.40	2.60	2.20	2.80	1.40	2.00
NC504	3.00	2.20	2.40	1.80	1.00	1.80	2.20	2.00	2.60	1.40	1.00
NC505	3.00	2.00	2.00	1.80	2.00	3.00	2.80	2.00	2.20	1.20	2.00
NC506	3.00	2.67	3.00	3.00	2.00	2.33	2.33	2.00	2.00	2.00	2.00
NC507	3.00	3.00	2.67	2.67	2.00	2.67	2.67	2.33	2.33	2.33	2.00
NC508	3.00	2.00	2.00	1.33	1.67	2.33	1.67	2.00	2.00	1.33	1.00
NC601	3.00	3.00	3.00	3.00	1.60	2.00	2.40	2.00	3.00	2.40	3.00
NC602	3.00	3.00	3.00	2.60	2.00	3.00	3.00	3.00	3.00	1.60	3.00
NC603	3.00	1.80	2.80	2.20	1.40	2.60	2.00	2.00	2.60	2.60	1.60
NC604	3.00	2.60	2.20	1.80	1.80	2.00	1.80	1.80	2.00	2.20	2.00
NC605	3.00	2.20	2.60	2.00	1.40	2.20	2.00	1.60	2.40	2.00	2.00
NC606	3.00	2.80	2.40	1.80	2.20	2.00	2.40	2.40	1.20	1.00	2.00
NC607	3.00	3.00	2.67	2.67	2.33	2.00	2.00	2.00	2.33	1.67	2.00

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
NC608	3.00	3.00	2.67	2.67	2.00	2.67	2.67	2.33	2.33	2.33	2.33
NC609	3.00	2.00	2.00	1.33	1.67	2.33	1.67	1.67	2.00	2.00	2.00
NC701	3.00	2.60	1.80	2.60	1.60	1.60	2.00	2.00	2.00	1.20	1.60
NC702	3.00	2.60	2.20	2.40	2.20	2.00	2.40	1.80	2.40	2.40	2.00
NC703	3.00	3.00	2.60	2.20	2.00	2.60	2.00	2.60	2.80	1.00	2.00
NC704	3.00	2.40	2.80	3.00	1.80	3.00	3.00	2.00	2.80	3.00	3.00
NC705	3.00	3.00	3.00	3.00	3.00	3.00	2.33	3.00	3.00	1.00	3.00
NC706A	3.00	3.00	3.00	2.33	3.00	3.00	2.33	2.67	2.67	2.33	3.00
NC706B	3.00	3.00	3.00	2.33	3.00	3.00	2.33	3.00	2.00	2.00	3.00
NC706C	3.00	2.33	3.00	2.33	2.00	2.67	2.00	2.33	2.67	1.67	2.00
NC801	3.00	2.20	2.60	2.00	1.40	2.20	2.00	1.60	2.40	2.00	2.00
NC802	3.00	2.20	2.40	1.60	2.20	1.80	2.00	1.60	1.80	1.60	1.60
NC803	3.00	2.40	2.20	2.00	2.40	2.80	2.00	2.80	2.60	1.00	1.80
NC805	3.00	2.40	2.80	2.60	2.40	2.20	2.00	2.20	2.80	1.40	2.00
NC809	3.00	1.80	2.80	2.40	1.60	2.60	2.00	2.00	2.60	2.60	1.60
NC811	3.00	2.40	2.60	3.00	2.60	2.40	2.40	2.80	1.80	1.20	2.40
NC813	3.00	3.00	3.00	2.67	3.00	2.33	2.67	2.33	3.00	2.00	2.33
Average	**2.90**	**2.47**	**2.48**	**2.17**	**1.98**	**2.29**	**2.10**	**2.10**	**2.24**	**1.77**	**2.14**

Desired CO-PO Mapping of M. Pharmacy (Pharmaceutical Chemistry): Odd Semesters

BVCOP
Desired CO PO Mapped Outcome -[Pharmaceutical Chemistry - 2022–23]

First Sem M.Pharm

Advanced Medicinal Chemistry [Theory | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
MPC103.1	3	2	2	3	2	2	2	3	2	2	2
MPC103.2	3	3	3	2	2	2	2	2	1	2	2
MPC103.3	3	2	3	2	1	3	1	2	3	2	2
MPC103.4	3	2	3	3	2	3	2	3	2	1	2
MPC103.5	3	3	2	3	2	2	2	2	2	3	2
Average	3	2.4	2.6	2.6	1.8	2.4	1.8	2.4	2	2	2

Chemistry of Natural Products [Theory | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
MPC104T.1	3	3	3	3	1	2	2	1	2	1	2
MPC104T.2	3	3	3	2	2	2	2	2	2	2	2
MPC104T.3	3	2	3	2	2	3	2	2	1	2	3
MPC104T.4	3	2	3	3	2	3	3	3	2	1	2
MPC104T.5	2	3	2	3	2	2	2	2	2	3	2
Average	2.8	2.6	2.8	2.8	1.8	2.4	2.2	2	1.8	1.8	2.2

Pharmaceutical Chemistry Practical I [Practical | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
MPC105P.1	3	2	2	2	2	2	2	2	1	1	3
MPC105P.2	3	2	2	2	2	2	1	2	2	2	3
MPC105P.3	3	2	2	2	2	2	2	2	1	1	3
Average	3	2	2	2	2	2	1.67	2	1.33	1.33	3

MPC101T Modern Pharmaceutical Analytical Techniques [Theory | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
MPC101T.1	3	3	3	1	2	2	2	2	2	1	2
MPC101T.2	3	3	3	2	2	2	2	3	2	1	3
MPC101T.3	3	3	2	3	2	1	2	2	2	1	2
MPC101T.4	3	3	2	2	2	2	3	2	1	2	2
MPC101T.5	3	3	3	1	2	3	2	3	2	1	2
Average	3	3	2.6	1.8	2	2	2.2	2.4	1.8	1.2	2.2

MPC102T Advanced Organic Chemistry - I [Theory | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
MPC102T.1	3	2	3	3	2	2	2	1	2	1	2
MPC102T.2	3	3	3	2	2	2	2	2	2	2	2

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MPC102T.3	3	2	3	3	2	3	3	2	3	2	2
MPC102T.4	3	2	3	3	2	3	3	3	2	1	2
MPC102T.5	3	3	2	3	2	2	2	2	2	3	2
Average	3	2.4	2.8	2.8	2	2.4	2.4	2	2.2	1.8	2

MPC106S Seminar [Theory | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
MPC106S.1	3	3	3	3	3	2	3	2	3	3	3
MPC106S.2	3	3	3	3	3	3	2	3	2	1	2
MPC106S.3	3	3	2	3	2	2	3	3	3	2	3
Average	3	3	2.67	3	2.67	2.33	2.67	2.67	2.67	2	2.67

Third Sem M.Pharm

MJC302 Journal Club [Theory | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
MJC302 .1	3	3	3	1	3	2	3	2	3	1	3
MJC302.2	3	3	3	2	3	2	2	3	1	2	2
MJC302.3	3	3	2	2	3	1	2	2	2	1	3
Average	3	3	2.67	1.67	3	1.67	2.33	2.33	2	1.33	2.67

MRM301T Research Methodology and Biostatistics [Theory | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
MRM301T.1	3	3	3	2	2	3	3	2	3	1	2
MRM301T.2	3	3	3	2	2	2	2	2	2	1	2
MRM301T.3	3	3	2	3	2	3	2	2	2	1	3
MRM301T.4	3	2	2	2	2	3	2	2	3	2	3
MRM301T.5	3	3	3	3	2	2	2	3	2	3	3
Average	3	2.8	2.6	2.4	2	2.6	2.2	2.2	2.4	1.6	2.6

RPP303 Discussion / Presentation (Proposal Presentation) [Practical | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
RPP303.1	3	3	3	3	3	3	3	3	2	2	3
RPP303.2	3	3	3	3	2	1	3	3	3	3	3
RPP303.3	3	3	3	3	2	1	2	3	2	2	3
Average	3	3	3	3	2.33	1.67	2.67	3	2.33	2.33	3

RWP304 Research work [Practical | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
RWP304.1	3	3	3	3	2	2	3	2	1	2	3
RWP304.2	3	3	3	3	2	3	3	2	3	2	3
RWP304.3	3	3	3	3	2	2	3	2	3	2	3
Average	3	3	3	3	2	2.33	3	2	2.33	2	3

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Desired CO-PO Mapping of M. Pharmacy (Pharmaceutical Chemistry): Even Semesters

BVCOP
Desired CO PO Mapped Outcome -[Pharmaceutical Chemistry - 2022-23]

Second Sem M.Pharm

Advanced Spectral Analysis [Theory | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
MPC201T.1	3	3	3	1	2	2	3	2	2	1	3
MPC201T.2	3	3	3	2	2	2	2	3	2	1	3
MPC 201T.3	3	3	2	3	2	1	2	2	2	1	3
MPC 201T.4	3	3	2	2	2	2	3	2	1	2	3
MPC 201T.5	3	3	3	1	2	3	2	3	2	1	3
Average	3	3	2.6	1.8	2	2	2.4	2.4	1.8	1.2	3

Pharmaceutical Chemistry Practical II [Practical | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
MPC205P.1	3	2	2	2	2	2	2	2	1	1	3
MPC205P.2	3	2	2	2	2	2	1	2	2	2	3
MPC205P.3	3	2	2	2	2	2	2	2	1	1	3
Average	3	2	2	2	2	2	1.67	2	1.33	1.33	3

MPC202T Advanced Organic Chemistry - II [Theory | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
MPC202T.1	3	3	3	1	2	2	3	2	2	1	3
MPC202T.2	3	3	3	2	2	2	2	3	2	1	3
MPC202T.3	3	3	2	3	2	1	2	2	2	1	3
MPC202T.4	3	3	2	2	2	2	3	2	1	2	3
MPC202T.5	3	3	3	1	2	3	2	3	2	1	3
Average	3	3	2.6	1.8	2	2	2.4	2.4	1.8	1.2	3

MPC203T Computer Aided Drug Design [Theory | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
MPC 203T CO1	3	2	3	3	1	2	1	1	2	1	2
MPC 203T CO2	3	3	3	2	1	1	1	1	2	1	2
MPC 203T CO3	3	2	3	3	2	3	3	2	3	1	2
MPC 203T CO4	3	2	3	3	2	3	3	3	2	1	2
MPC 203T CO5	3	3	2	3	2	2	2	2	2	3	2
Average	3	2.4	2.8	2.8	1.6	2.2	2	1.8	2.2	1.4	2

MPC204T Pharmaceutical Process Chemistry [Theory | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
MPC204T.1	3	2	3	3	2	2	2	1	2	1	2
MPC204T.2	3	3	3	2	2	2	2	2	2	2	2
MPC204T.3	3	2	3	3	2	3	3	2	3	2	2
MPC204T.4	3	2	3	3	2	3	3	3	2	1	2
MPC204T.5	3	3	2	3	2	2	2	2	2	2	2
Average	3	2.4	2.8	2.8	2	2.4	2.4	2	2.2	1.6	2

MPC206S Seminar [Theory | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
MPC206S.1	3	3	3	3	3	2	3	2	3	3	3
MPC206S.2	3	3	3	3	3	3	2	3	2	1	2
MPC206S.3	3	3	2	3	2	2	3	3	3	2	3
Average	3	3	2.67	3	2.67	2.33	2.67	2.67	2.67	2	2.67

Fourth Sem M.Pharm

MJC401 Journal Club [Theory | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
MJC401.1	3	3	3	1	3	2	3	2	3	1	3
MJC401.2	3	3	3	2	3	2	2	3	1	2	2
MJC401.3	3	3	2	2	3	1	2	2	2	1	3
Average	3	3	2.67	1.67	3	1.67	2.33	2.33	2	1.33	2.67

RPP403 Discussion / Presentation (Proposal Presentation) [Practical | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
RPP403.1	3	3	3	3	3	3	3	3	2	2	3
RPP403.2	3	3	3	3	2	1	3	3	3	3	3
RPP403.3	3	3	3	3	2	1	2	3	2	2	3
Average	3	3	3	3	2.33	1.67	2.67	3	2.33	2.33	3

RWP402 Research work and Colloquium [Practical | Regular]

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
RWP402.1	3	3	3	3	2	2	3	2	1	2	3
RWP402.2	3	3	3	3	2	3	3	2	3	2	3
RWP402.3	3	3	3	3	2	2	3	2	3	2	3
Average	3	3	3	3	2	2.33	3	2	2.33	2	3

Course PO Matrix of all courses of M. Pharmacy (Pharmaceutical Chemistry) 2022-2023:

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
MPC101T	3.00	3.00	2.60	1.80	2.00	2.00	2.20	2.40	1.80	1.20	2.20
MPC102T	3.00	2.40	2.80	2.80	2.00	2.40	2.40	2.00	2.20	1.80	2.00
MPC103T	3.00	2.40	2.60	2.60	1.80	2.40	1.80	2.40	2.00	2.00	2.00
MPC104T	2.80	2.60	2.80	2.80	1.80	2.40	2.20	2.00	1.80	1.80	2.20
MPC105P	3.00	2.00	2.00	2.00	2.00	2.00	1.67	2.00	1.33	1.33	3.00
MPC106S	3.00	3.00	2.67	3.00	2.67	2.33	2.67	2.67	2.67	2.00	2.67
MPC201T	3.00	3.00	2.60	1.80	2.00	2.00	2.40	2.40	1.80	1.20	3.00
MPC202T	3.00	3.00	2.60	1.80	2.00	2.00	2.40	2.40	1.80	1.20	3.00
MPC203T	3.00	2.40	2.80	2.80	1.60	2.20	2.00	1.80	2.20	1.40	2.00
MPC204T	3.00	2.40	2.80	2.80	2.00	2.40	2.40	2.00	2.20	1.60	2.00
MPC205P	3.00	2.00	2.00	2.00	2.00	2.00	1.67	2.00	1.33	1.33	3.00
MPC206S	3.00	3.00	2.67	3.00	2.67	2.33	2.67	2.67	2.67	2.00	2.67
MRM301T	3.00	2.80	2.60	2.40	2.00	2.60	2.20	2.20	2.40	1.60	2.60
MJC302	3.00	3.00	2.67	1.67	3.00	1.67	2.33	2.33	2.00	1.33	2.67
RPP303	3.00	3.00	3.00	3.00	2.33	1.67	2.67	3.00	2.33	2.33	3.00
RWP304	3.00	3.00	3.00	3.00	2.00	2.33	3.00	2.00	2.33	2.00	3.00
MJC401	3.00	3.00	2.67	1.67	3.00	1.67	2.33	2.33	2.00	1.33	2.67
RWP402	3.00	3.00	3.00	3.00	2.00	2.33	3.00	2.00	2.33	2.00	3.00
RPP403	3.00	3.00	3.00	3.00	2.33	1.67	2.67	3.00	2.33	2.33	3.00
Average	**2.99**	**2.74**	**2.68**	**2.47**	**2.17**	**2.13**	**2.35**	**2.29**	**2.08**	**1.67**	**2.61**

Course PO Matrix of all courses of M. Pharmacy (Pharmaceutics) 2022-2023:

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
MPH101T	3.00	3.00	2.60	1.80	2.00	2.00	2.20	2.40	1.80	1.20	2.20
MPH102T	3.00	2.40	3.00	2.80	2.00	2.80	2.40	2.40	3.00	1.60	3.00
MPH103T	3.00	2.60	3.00	2.80	2.60	2.80	2.80	2.20	2.00	1.40	2.80
MPH104T	2.80	1.80	2.40	2.40	1.80	2.20	2.00	2.20	2.40	1.00	2.20
MPH105P	3.00	3.00	2.67	3.00	2.00	3.00	3.00	2.00	2.00	2.00	2.00
MPH106S	3.00	3.00	2.67	3.00	2.67	2.33	2.67	2.67	2.67	2.00	2.67
MPH201T	3.00	2.40	2.40	2.60	2.00	2.40	2.20	3.00	2.40	1.20	2.40
MPH202T	3.00	2.20	2.80	2.40	2.00	3.00	2.40	2.20	2.80	1.00	3.00
MPH203T	3.00	2.80	2.40	1.80	2.20	2.00	2.40	2.40	1.80	1.60	2.20
MPH204T	3.00	2.80	2.20	2.20	1.80	3.00	2.80	2.20	3.00	1.80	2.00
MPH205P	3.00	3.00	2.67	3.00	2.00	3.00	3.00	2.00	2.00	2.00	2.00
MPH206S	3.00	3.00	2.67	3.00	2.67	2.33	2.67	2.67	2.67	2.00	2.67
MRM301T	3.00	2.80	2.60	2.40	2.00	2.60	2.20	2.20	2.40	1.60	2.60
MJC302	3.00	3.00	2.67	1.67	3.00	1.67	2.33	2.33	2.00	1.33	2.67
RPP303	3.00	3.00	3.00	3.00	2.33	1.67	2.67	3.00	2.33	2.33	3.00
RWP304	3.00	3.00	3.00	3.00	2.00	2.33	3.00	2.00	2.33	2.00	3.00
MJC401	3.00	3.00	2.67	1.67	3.00	1.67	2.33	2.33	2.00	1.33	2.67
RWP402	3.00	3.00	3.00	3.00	2.00	2.33	3.00	2.00	2.33	2.00	3.00
RPP403	3.00	3.00	3.00	3.00	2.33	1.67	2.67	3.00	2.33	2.33	3.00
Average	**2.99**	**2.78**	**2.71**	**2.55**	**2.23**	**2.36**	**2.57**	**2.38**	**2.33**	**1.67**	**2.58**

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Course PO Matrix of all courses of M. Pharmacy (Pharmaceutical Quality Assurance) 2022-2023:

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
MQA101T	3.00	3.00	2.60	1.80	2.00	2.00	2.20	2.40	1.80	1.20	2.20
MQA102T	3.00	2.60	2.40	1.80	1.80	2.00	2.40	2.40	1.20	1.00	2.00
MQA103T	3.00	2.80	2.80	2.40	2.80	2.40	2.60	2.80	2.60	1.40	2.00
MQA104T	3.00	2.80	2.80	2.40	1.80	2.40	2.60	2.00	2.40	2.00	1.80
MQA105P	3.00	3.00	2.33	2.33	2.67	2.33	2.67	2.33	2.33	1.00	1.67
MQA106S	3.00	3.00	2.67	3.00	2.67	2.33	2.67	2.67	2.67	2.00	2.67
MQA201T	3.00	2.80	2.40	1.80	2.20	2.00	2.40	2.40	1.80	1.60	2.20
MQA202T	3.00	2.80	2.80	2.40	1.80	2.20	2.40	2.00	2.40	1.00	1.80
MQA203T	3.00	2.80	2.40	1.40	2.40	2.00	2.40	2.60	1.20	1.00	2.00
MQA204T	3.00	2.40	2.80	2.60	1.40	2.40	2.40	1.60	2.00	2.20	1.60
MQA205P	3.00	3.00	3.00	3.00	3.00	2.67	2.67	2.00	2.33	2.00	2.33
MQA206S	3.00	3.00	2.67	3.00	2.67	2.33	2.67	2.67	2.67	2.00	2.67
MRM301T	3.00	2.80	2.60	2.40	2.00	2.60	2.20	2.20	2.40	1.60	2.60
MJC302	3.00	3.00	2.67	1.67	3.00	1.67	2.33	2.33	2.00	1.33	2.67
RPP303	3.00	3.00	3.00	3.00	2.33	1.67	2.67	3.00	2.33	2.33	3.00
RWP304	3.00	3.00	3.00	3.00	2.00	2.33	3.00	2.00	2.33	2.00	3.00
MJC401	3.00	3.00	2.67	1.67	3.00	1.67	2.33	2.33	2.00	1.33	2.67
RWP402	3.00	3.00	3.00	3.00	2.00	2.33	3.00	2.00	2.33	2.00	3.00
RPP403	3.00	3.00	3.00	3.00	2.33	1.67	2.67	3.00	2.33	2.33	3.00
Average	**3.00**	**2.88**	**2.72**	**2.40**	**2.31**	**2.16**	**2.54**	**2.35**	**2.16**	**1.65**	**2.36**

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Desired AO-PO Matrix for Indirect Assessment based on Feedback Analysis:

B. Pharmacy:

Feedback	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Placement and Entrepreneurship Development Cell (EDC)	2.71	2.43	2.57	2.71	2.57	2.86	2.29	2.71	2.29	2.57	2.86
Program Exit Survey	3.00	2.83	2.92	2.75	2.50	2.92	2.92	2.83	2.83	1.83	2.92
Industrial In-Plant Training	3.00	2.29	2.29	2.71	2.43	2.57	2.86	2.71	1.57	2.14	2.00
Professional Activities	2.80	2.50	2.33	1.50	2.17	2.50	2.67	2.50	2.67	2.00	2.33
Student Projects and Research	2.86	2.43	2.14	2.00	2.57	3.00	2.71	3.00	2.00	2.00	2.00
Co-curricular Activities	2.00	2.38	2.00	2.00	2.75	2.50	2.67	2.63	2.00	2.50	2.75
GPAT & Competitive Exam	3.00	3.00	3.00	2.33	2.33	2.33	2.00	2.25	2.33	2.00	3.00
Alumni Survey	2.67	2.33	2.33	2.67	2.00	2.17	1.83	2.33	2.00	2.00	2.67
Employer Survey	2.50	2.60	2.60	2.40	2.40	2.70	2.80	2.70	2.80	2.70	2.70
Health care activities	3.00	1.83	2.00	-	3.00	3.00	2.00	2.83	3.00	2.00	2.00
NSS and Social Activities	3.00	3.00	2.86	-	3.00	3.00	3.00	2.57	3.00	2.86	-
Sports Facilities and Activities	2.00	2.88	2.88	2.00	2.75	-	-	2.50	2.25	-	2.00

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Bharati Vidyapeeth College of Pharmacy, Kolhapur

Near Chitranagari, Kolhapur-416013, Maharashtra, India.
Website: http://copkolhapur.bharatividyapeeth.edu

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Feedback	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Cultural Activities	2.00	2.38	2.50	-	2.88	2.00	2.50	2.88	2.50	2.00	2.00
Professional Visit	3.00	2.13	2.33	3.00	2.00	3.00	3.00	2.00	3.00	3.00	2.13
Skill Development Programs	2.88	2.88	2.33	2.50	3.00	2.14	1.60	2.63	2.33	-	3.00
Average	**2.69**	**2.52**	**2.47**	**2.38**	**2.56**	**2.62**	**2.49**	**2.61**	**2.44**	**2.28**	**2.45**

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Desired AO-PO Matrix for Indirect Assessment based on Feedback Analysis:

M. Pharmacy:

Feedback	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Placement and Entrepreneurship Development Cell (EDC)	2.71	2.43	2.57	2.71	2.57	2.86	2.29	2.71	2.29	2.57	2.86
Program Exit Survey	3.00	2.83	2.92	2.75	2.50	2.92	2.92	2.83	2.83	1.83	2.92
Professional Activities	2.80	2.50	2.33	1.50	2.17	2.50	2.67	2.50	2.67	2.00	2.33
Student Projects and Research	2.86	2.43	2.14	2.00	2.57	3.00	2.71	3.00	2.00	2.00	2.00
Co-curricular Activities	2.00	2.38	2.00	2.00	2.75	2.50	2.67	2.63	2.00	2.50	2.75
Sports Facilities and Activities	2.00	2.88	2.88	2.00	2.75	-	-	2.50	2.25	-	2.00
Skill Development Programs	2.88	2.88	2.33	2.50	3.00	2.14	1.60	2.63	2.33	-	3.00
Lab Equipment, CFC and Technical Services	2.71	2.86	2.86	2.43	2.71	2.86	2.57	2.71	2.14	2.00	2.57
Library	3.00	2.80	2.60	2.75	2.67	2.83	2.17	3.00	2.00	2.00	3.00
Average	**2.66**	**2.66**	**2.51**	**2.29**	**2.63**	**2.70**	**2.45**	**2.72**	**2.28**	**2.13**	**2.60**

Desired PO attainment (Total) including Direct & Indirect Assessment:

B. Pharmacy:

Particulars	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Desired (Direct)	2.90	2.47	2.48	2.17	1.98	2.29	2.10	2.10	2.24	1.77	2.14
80% of Direct	2.32	1.98	1.98	1.74	1.58	1.83	1.68	1.68	1.79	1.42	1.71
Desired (Indirect)	2.69	2.52	2.47	2.38	2.56	2.62	2.49	2.61	2.44	2.28	2.45
20% of Indirect	0.54	0.50	0.49	0.48	0.51	0.52	0.50	0.52	0.49	0.46	0.49
Total Desired (80% + 20%)	**2.86**	**2.48**	**2.48**	**2.21**	**2.10**	**2.36**	**2.18**	**2.20**	**2.28**	**1.87**	**2.20**

M. Pharmacy (Pharmaceutical Chemistry):

Particulars	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Desired (Direct)	2.99	2.74	2.68	2.47	2.17	2.13	2.35	2.29	2.08	1.67	2.61
80% of Direct	2.39	2.19	2.14	1.98	1.74	1.70	1.88	1.83	1.66	1.34	2.09
Desired (Indirect)	2.66	2.66	2.51	2.29	2.63	2.70	2.45	2.72	2.28	2.13	2.60
20% of Indirect	0.53	0.53	0.50	0.46	0.53	0.54	0.49	0.54	0.46	0.43	0.52
Total Desired (80% + 20%)	**2.92**	**2.72**	**2.65**	**2.43**	**2.26**	**2.24**	**2.37**	**2.38**	**2.12**	**1.76**	**2.61**

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Desired PO attainment (Total) including Direct & Indirect Assessment:

M. Pharmacy (Pharmaceutics):

Particulars	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Desired (Direct)	2.99	2.78	2.71	2.55	2.23	2.36	2.57	2.38	2.33	1.67	2.58
80% of Direct	2.39	2.22	2.17	2.04	1.78	1.89	2.06	1.90	1.86	1.34	2.06
Desired (Indirect)	2.66	2.66	2.51	2.29	2.63	2.70	2.45	2.72	2.28	2.13	2.60
20% of Indirect	0.53	0.53	0.50	0.46	0.53	0.54	0.49	0.54	0.46	0.43	0.52
Total Desired (80% + 20%)	**2.92**	**2.76**	**2.67**	**2.50**	**2.31**	**2.43**	**2.55**	**2.45**	**2.32**	**1.76**	**2.58**

M. Pharmacy (Pharmaceutical Quality Assurance):

Particulars	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Desired (Direct)	3.00	2.88	2.72	2.40	2.31	2.16	2.54	2.35	2.16	1.65	2.36
80% of Direct	2.40	2.30	2.18	1.92	1.85	1.73	2.03	1.88	1.73	1.32	1.89
Desired (Indirect)	2.66	2.66	2.51	2.29	2.63	2.70	2.45	2.72	2.28	2.13	2.60
20% of Indirect	0.53	0.53	0.50	0.46	0.53	0.54	0.49	0.54	0.46	0.43	0.52
Total Desired (80% + 20%)	**2.93**	**2.84**	**2.68**	**2.38**	**2.37**	**2.27**	**2.52**	**2.42**	**2.18**	**1.75**	**2.41**

Calculation of PO attainment (Direct Assessment) B. Pharmacy:
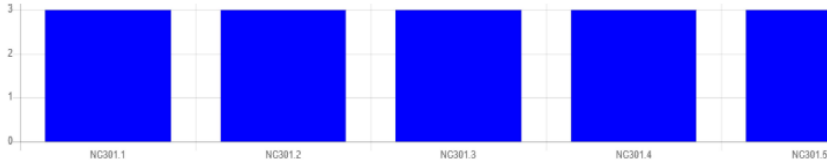
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PHARMACEUTICAL ORGANIC CHEMISTRY II - Theory (2022-23) [Rohankumar R Chavan] [Dr. Dipak Mali]
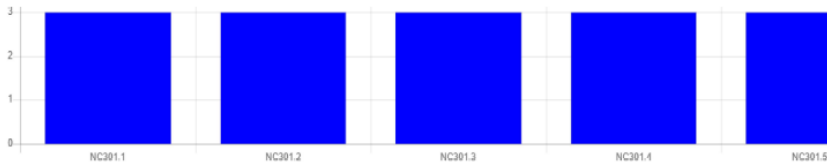
Internal Assessment

Title	Type	% Weightage	NC301,1	NC301,2	NC301,3	NC301,4	NC301,5
First Sessional Examination 2022–23	Internal	30	0,90	0,90	0,90	0,90	0,90
Second Sessional Theory Examination	Internal	30	0,90	0,90	0,90	0,90	0,90
CME	Internal	40	1,20	1,20	1,20	1,20	1,20
Percent course outcome weightage			100.00	100.00	100.00	100.00	100.00
Attainment as per percent weightage			3,00	3,00	3,00	3,00	3,00
Final attainment			3	3	3	3	3

External Assessment

Title	Type	% Weightage	NC301,1	NC301,2	NC301,3	NC301,4	NC301,5
SUK Examination	External	100	3,00	3,00	3,00	3,00	3,00
Percent course outcome weightage			100.00	100.00	100.00	100.00	100.00
Attainment as per percent weightage			3	3	3	3	3
Final attainment			3	3	3	3	3

Direct Total Attainment

Course Outcome	Internal	External
NC301,1	3,00	3,00
NC301,2	3,00	3,00
NC301,3	3,00	3,00
NC301,4	3,00	3,00
NC301,5	3,00	3,00
Average	3,00	3,00
Weightage	25	75
Direct Total Attainment	0,75	2,25
Final Direct Course Attainment	3,00	

Final Attainment

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	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Final Attainment	2.80	2.00	2.20	2.00	1.75	2.60	2.40	2.00	2.80	2.80	2.00
Percentage	93.33	66.67	73.33	66.67	58.33	86.67	80.00	66.67	93.33	93.33	66.67

🛈 *Last published on 2023-10-16 14:03:29*

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Calculation of PO attainment (Direct Assessment) M. Pharmacy

Bharati Vidyapeeth College of Pharmacy, Kolhapur

Quality Control and Quality Assurance – Theory (2022-23) [Dr. Mrs. Neela Bhatia]

Internal Assessment

Title	Type	% Weightage	MQA103T.1	MQA103T.2	MQA103T.3	MQA103T.4	MQA103T.5
QCQA First Sessional Exam	Internal	30	0.90	0.90	0.90	0.90	0.90
Contineous Mode	Internal	40	1.20	1.20	1.20	1.20	1.20
QCQA second Sessional Exam	Internal	30	0.90	0.90	0.90	0.90	0.90
Percent course outcome weightage			100.00	100.00	100.00	100.00	100.00
Attainment as per percent weightage			3.00	3.00	3.00	3.00	3.00
Final attainment			3	3	3	3	3

External Assessment

Title	Type	% Weightage	MQA103T.1	MQA103T.2	MQA103T.3	MQA103T.4	MQA103T.5
University Exam	External	100	3.00	3.00	3.00	3.00	3.00
Percent course outcome weightage			100.00	100.00	100.00	100.00	100.00
Attainment as per percent weightage			3	3	3	3	3
Final attainment			3	3	3	3	3

Direct Total Attainment

Course Outcome	Internal	External
MQA103T.1	3.00	3.00
MQA103T.2	3.00	3.00
MQA103T.3	3.00	3.00
MQA103T.4	3.00	3.00
MQA103T.5	3.00	3.00
Average	3.00	3.00
Weightage	25	75
Direct Total Attainment	0.75	2.25
Final Direct Course Attainment	3.00	

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Final Attainment

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Final Attainment	3.00	2.80	2.80	2.40	2.80	2.40	2.60	2.80	2.60	1.40	2.00
Percentage	100,00	93,33	93,33	80,00	93,33	80,00	86,67	93,33	86,67	46,67	66,67

ⓘ Last published on 2023-10-30 10:43:14

Calculation of PO attainment (Indirect Assessment):

Feedback Analysis (Program Exit Survey 2022-23)

Bharati Vidyapeeth College of Pharmacy, Kolhapur

Feedback Analysis

Title : Program Exit Survey
Academic Year : 2022-23
Class : Eighth Sem [B. Pharmacy]
Details : Activity

Total number of response(s) : 67 / 75

Question	Faculty performance & academic advising			
Answer	Value	No. of response(s)	Response value	Response %
Excellent	3	20	60	29,85
Good	2	41	82	40,80
Average	1	6	6	2,99
Performance				73,63

Question	Instructional delivery and adequacy of interaction with faculty			
Answer	Value	No. of response(s)	Response value	Response %
Excellent	3	19	57	28,36
Good	2	44	88	43,78
Average	1	4	4	1,99
Performance				74,13

Question	Knowledge and opportunity for skill development,			
Answer	Value	No. of response(s)	Response value	Response %
Excellent	3	13	39	19,40
Good	2	50	100	49,75
Average	1	4	4	1,99
Performance				71,14

Question	Programs ability to keep pace with recent developments in pharmacy profession			
Answer	Value	No. of response(s)	Response value	Response %
Excellent	3	16	48	23,88
Good	2	47	94	46,77
Average	1	4	4	1,99
Performance				72,64

Question	Assessment and evaluation of student learning and curricular effectiveness			
Answer	Value	No. of response(s)	Response value	Response %
Excellent	3	15	45	22,39
Good	2	49	98	48,76
Average	1	3	3	1,49
Performance				72,64

Question	Opportunities for career development and employment			
Answer	Value	No. of response(s)	Response value	Response %
Excellent	3	19	57	28,36
Good	2	42	84	41,79
Average	1	6	6	2,99
Performance				73,13

Question	Physical facilities for learning			
Answer	Value	No. of response(s)	Response value	Response %
Excellent	3	18	54	26,87
Good	2	44	88	43,78
Average	1	5	5	2,49
Performance				73,13

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Question	Campus life and other activities			
Answer	Value	No. of response(s)	Response value	Response %
● Excellent	3	20	60	29.85
● Good	2	42	84	41.79
● Average	1	5	5	2.49
Performance				74.13

Question	Inculcation of social and moral values and positive self esteem			
Answer	Value	No. of response(s)	Response value	Response %
● Excellent	3	19	57	28.36
● Good	2	44	88	43.78
● Average	1	4	4	1.99
Performance				74.13

Question	Assistance from administrative staff			
Answer	Value	No. of response(s)	Response value	Response %
● Excellent	3	18	54	26.87
● Good	2	45	90	44.78
● Average	1	4	4	1.99
Performance				73.63

Question	Availability of student health services			
Answer	Value	No. of response(s)	Response value	Response %
● Excellent	3	15	45	22.39
● Good	2	47	94	46.77
● Average	1	5	5	2.49
Performance				71.64

Question	Overall quality of program and satisfaction with program			
Answer	Value	No. of response(s)	Response value	Response %
● Excellent	3	13	39	19.40
● Good	2	49	98	48.76
● Average	1	5	5	2.49
Performance				70.65

Achieved 72.88 | Scope for improvement 27.12

Indirect Outcome attainment Calculation based on feedback Analysis.

Bharati Vidyapeeth College of Pharmacy, Kolhapur

Feedback Analysis

Title : Program Exit Survey
Academic Year : 2022-23
Class : Eighth Sem [B. Pharmacy]
Details : Activity

Total number of response(s) : 67 / 75

Question	Faculty performance & academic advising			
Answer	Value	No. of response(s)	Response value	Response %
Excellent	3	20	60	29.85
Good	2	41	82	40.80
Average	1	6	6	2.99
Performance				73.63
Final Attainment				2.21

Question	Instructional delivery and adequacy of interaction with faculty			
Answer	Value	No. of response(s)	Response value	Response %
Excellent	3	19	57	28.36
Good	2	44	88	43.78
Average	1	4	4	1.99
Performance				74.13
Final Attainment				2.22

Question	Knowledge and opportunity for skill development,			
Answer	Value	No. of response(s)	Response value	Response %
Excellent	3	13	39	19.40
Good	2	50	100	49.75
Average	1	4	4	1.99
Performance				71.14
Final Attainment				2.13

Question	Programs ability to keep pace with recent developments in pharmacy profession			
Answer	Value	No. of response(s)	Response value	Response %
Excellent	3	16	48	23.88
Good	2	47	94	46.77
Average	1	4	4	1.99
Performance				72.64
Final Attainment				2.18

Question	Assessment and evaluation of student learning and curricular effectiveness			
Answer	Value	No. of response(s)	Response value	Response %
Excellent	3	15	45	22.39
Good	2	49	98	48.76
Average	1	3	3	1.49
Performance				72.64
Final Attainment				2.18

Question	Opportunities for career development and employment			
Answer	Value	No. of response(s)	Response value	Response %
Excellent	3	19	57	28.36
Good	2	42	84	41.79
Average	1	6	6	2.99
Performance				73.13
Final Attainment				2.19

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Question	Physical facilities for learning			
Answer	Value	No. of response(s)	Response value	Response %
● Excellent	3	18	54	26.87
● Good	2	44	88	43.78
● Average	1	5	5	2.49
Performance				73.13
Final Attainment				2.19

Question	Campus life and other activities			
Answer	Value	No. of response(s)	Response value	Response %
● Excellent	3	20	60	29.85
● Good	2	42	84	41.79
● Average	1	5	5	2.49
Performance				74.13
Final Attainment				2.22

Question	Inculcation of social and moral values and positive self esteem			
Answer	Value	No. of response(s)	Response value	Response %
● Excellent	3	19	57	28.36
● Good	2	44	88	43.78
● Average	1	4	4	1.99
Performance				74.13
Final Attainment				2.22

Question	Assistance from administrative staff			
Answer	Value	No. of response(s)	Response value	Response %
● Excellent	3	18	54	26.87
● Good	2	45	90	44.78
● Average	1	4	4	1.99
Performance				73.63
Final Attainment				2.21

Question	Availability of student health services			
Answer	Value	No. of response(s)	Response value	Response %
● Excellent	3	15	45	22.39
● Good	2	47	94	46.77
● Average	1	5	5	2.49
Performance				71.64
Final Attainment				2.15

Question	Overall quality of program and satisfaction with program			
Answer	Value	No. of response(s)	Response value	Response %
● Excellent	3	13	39	19.40
● Good	2	49	98	48.76
● Average	1	5	5	2.49
Performance				70.65
Final Attainment				2.12

NOTE:
- Response Value = (Value * No.of Responses)
- Response % = (Response Value / (Max Value * No.of Responses))

Questionwise Attainment

Activity Number	Attainment
1	2,21
2	2,22
3	2,13
4	2,18
5	2,18
6	2,19
7	2,19

Questionwise Attainment

Activity Number	Attainment
8	2,22
9	2,22
10	2,21
11	2,15
12	2,12

Program outcome and question mapping

AO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
AO1	3	3	3	3	2	3	3	3	3	2	3
AO2	3	3	3	3	2	2	2	2	3	2	3
AO3	3	3	3	3	3	3	3	3	3	2	3
AO4	3	3	3	3	3	3	3	3	3	1	3
AO5	3	3	3	3	3	3	3	3	2	1	3
AO6	3	3	3	2	3	3	3	3	2	1	3
AO7	3	3	3	3	2	3	3	3	3	2	3
AO8	3	3	3	3	3	3	3	3	3	2	3
AO9	3	2	3	2	3	3	3	3	3	3	3
AO10	3	3	3	3	2	3	3	2	3	2	2
AO11	3	2	2	2	1	3	3	3	3	2	3
AO12	3	3	3	3	3	3	3	3	3	2	3
Average	3,00	2,83	2,92	2,75	2,50	2,92	2,92	2,83	2,83	1,83	2,92

Program outcome attainment

AO	AO Attainment	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
AO1	2,21	2,21	2,21	2,21	2,21	1,47	2,21	2,21	2,21	2,21	1,47	2,21
AO2	2,22	2,22	2,22	2,22	2,22	1,48	1,48	1,48	1,48	2,22	1,48	2,22
AO3	2,13	2,13	2,13	2,13	2,13	2,13	2,13	2,13	2,13	2,13	1,42	2,13
AO4	2,18	2,18	2,18	2,18	2,18	2,18	2,18	2,18	2,18	2,18	0,73	2,18
AO5	2,18	2,18	2,18	2,18	2,18	2,18	2,18	2,18	2,18	1,45	0,73	2,18
AO6	2,19	2,19	2,19	2,19	1,46	2,19	2,19	2,19	2,19	1,46	0,73	2,19
AO7	2,19	2,19	2,19	2,19	2,19	1,46	2,19	2,19	2,19	2,19	1,46	2,19
AO8	2,22	2,22	2,22	2,22	2,22	2,22	2,22	2,22	2,22	2,22	1,48	2,22
AO9	2,22	2,22	1,48	2,22	1,48	2,22	2,22	2,22	2,22	2,22	2,22	2,22
AO10	2,21	2,21	2,21	2,21	2,21	1,47	2,21	2,21	1,47	2,21	1,47	1,47
AO11	2,15	2,15	1,43	1,43	1,43	0,72	2,15	2,15	2,15	2,15	1,43	2,15
AO12	2,12	2,12	2,12	2,12	2,12	2,12	2,12	2,12	2,12	2,12	1,41	2,12
Average	2,19	2,19	2,07	2,13	2,00	1,82	2,12	2,12	2,06	2,07	1,34	2,13

Achieved 72.88 | Scope for improvement 27.12

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6. Flow sheet summary of PO attainment Process:

Direct Attainment Tools/ Methods		Indirect Attainment Tools/ Methods
↓		↓
Student Performance in Sessional & Semester Examination		Feedbacks & Surveys from all stake holders
↓		↓
Attainment of Course Outcome		Attainment of Activity Outcome
↓		↓
Attainment of POs		Attainment of POs
↓		↓
80% of Direct Attainment		20% of Direct Attainment

Total Attainment
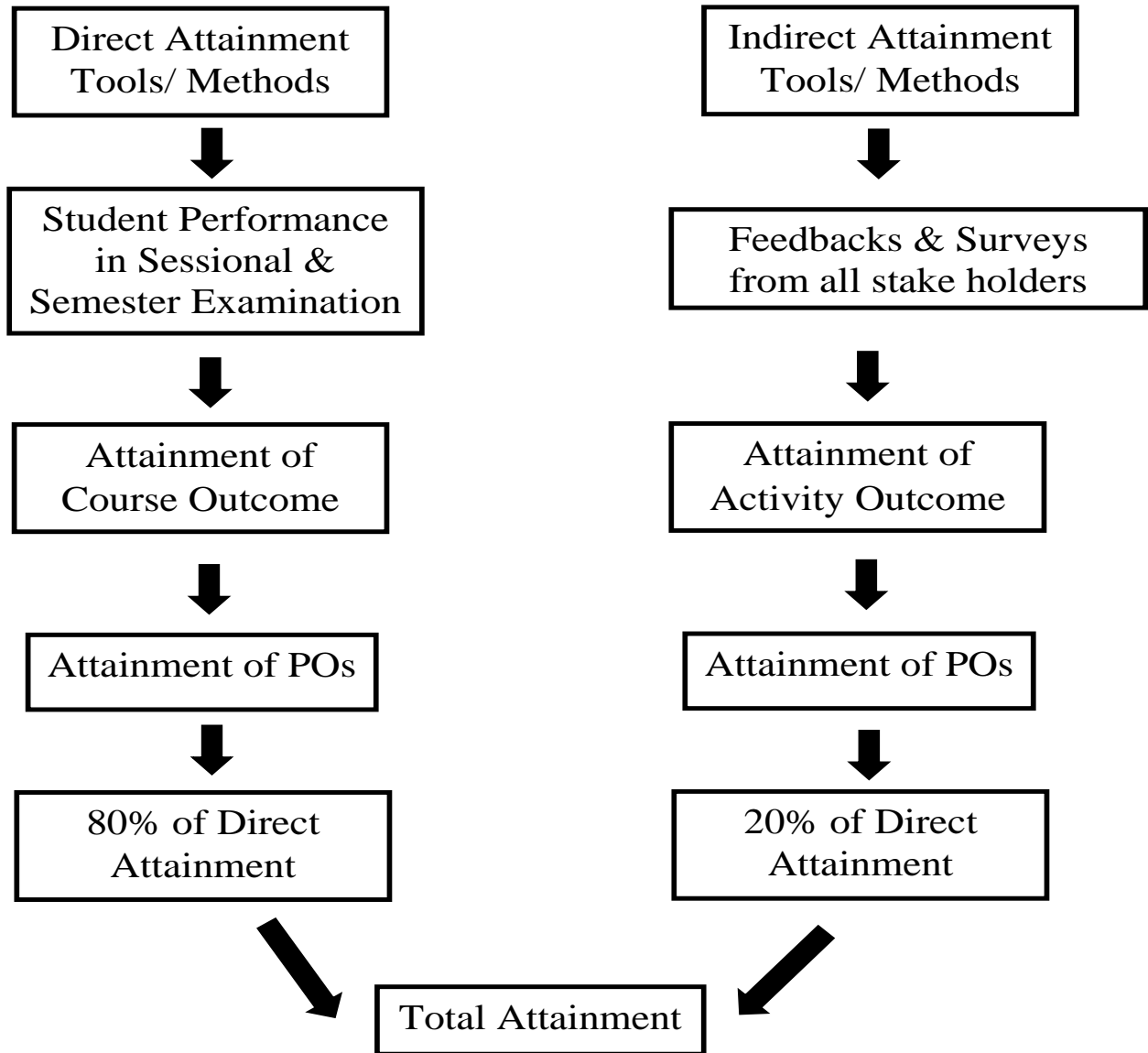
7. PO attainment of Batch 2019-2023:

B. Pharmacy

Course	Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Human Anatomy Physiology I TH	NC101	2.90	1.93	1.74	1.93	2.32	2.13	1.35	1.55	1.55	0.97	1.93
Pharmaceutical Analysis I TH	NC102	3.00	2.40	2.40	1.40	1.20	2.40	2.40	1.80	2.40	1.80	2.20
Pharmaceutics I TH	NC103	1.45	1.06	0.96	1.06	0.87	1.25	0.87	1.06	1.06	0.77	1.06
Pharmaceutical Inorganic Chemistry TH	NC104	3.00	1.80	1.80	1.40	1.60	1.80	2.00	1.40	1.20	1.25	2.00
Communication skills TH	NC105	1.50	3.00	3.00	2.50	3.00	3.00	2.80	3.00	2.80	2.00	3.00
Remedial Biology TH	NC106B	2.80	3.00	2.20	2.00	2.00	2.20	2.00	2.60	2.60	3.00	2.20
Remedial Mathematics – Theory	NC106M	2.80	2.40	2.60	2.40	1.80	2.00	1.40	2.40	1.60	1.00	2.00
Human Anatomy and Physiology – PR	NC107	2.90	2.25	2.25	1.93	1.93	1.61	1.93	0.97	1.61	0.97	1.93
Pharmaceutical Analysis I – PR	NC108	2.67	3.00	2.67	1.33	2.00	2.67	2.33	2.33	2.00	2.00	2.00
Pharmaceutics I – PR	NC109	2.64	2.35	2.05	1.76	1.76	1.76	1.76	1.47	1.47	1.76	1.47
Pharmaceutical Inorganic Chemistry – PR	NC110	3.00	2.00	2.67	1.67	1.33	1.33	1.33	1.33	1.33	1.00	2.00
Communication skills – PR	NC111	1.33	3.00	3.00	2.33	3.00	3.00	3.00	3.00	3.00	1.00	3.00

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College of Pharmacy, Kolhapur

Ranked 79th in India

Course	Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Human Anatomy and Physiology II – TH	NC201	1.33	3.00	3.00	2.33	3.00	3.00	3.00	3.00	3.00	1.00	3.00
Pharmaceutical Organic Chemistry I – TH	NC202	3.00	1.60	2.00	1.20	1.50	1.40	1.00	1.60	1.40	1.40	2.00
Biochemistry – TH	NC203	3.00	1.60	2.00	1.20	1.50	1.40	1.00	1.60	1.40	1.40	2.00
Pathophysiology – TH	NC204	2.90	1.74	2.90	1.55	1.55	1.74	1.93	1.74	2.32	1.55	1.93
Computer Applications in Pharmacy – TH	NC205	3.00	2.20	2.20	3.00	2.00	2.00	2.00	3.00	2.00	2.00	2.80
Environmental sciences – TH	NC206	2.60	2.20	2.20	1.60	1.80	1.40	1.80	1.40	2.00	3.00	2.20
Human Anatomy and Physiology II –PR	NC207	3.00	3.00	2.67	2.33	1.33	1.33	1.67	2.00	2.00	1.00	2.00
Pharmaceutical Organic Chemistry I– PR	NC208	2.95	1.96	1.96	1.31	1.64	1.96	0.98	1.96	1.64	1.31	1.96
Biochemistry – PR	NC209	2.60	1.94	2.60	2.27	2.27	2.27	2.27	1.29	2.60	2.27	2.27
Computer Applications in Pharmacy – PR	NC210	2.80	1.87	1.87	2.80	1.87	1.87	1.87	1.87	1.87	1.87	2.80
Pharmaceutical Organic Chemistry II – TH	NC301	3.00	2.40	2.20	2.40	1.60	2.60	2.20	1.75	2.80	2.80	2.20
Physical Pharmaceutics I – TH	NC302	2.80	2.00	2.60	2.20	1.60	1.80	2.33	2.25	1.60	1.50	2.40

Course	Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Pharmaceutical Microbiology – TH	NC303	2.60	2.20	2.40	2.20	1.60	2.20	2.00	2.00	2.40	1.60	1.40
Pharmaceutical Engineering – TH	NC304	3.00	2.60	2.00	2.60	1.60	1.80	1.80	2.40	2.00	2.00	1.60
Pharmaceutical Organic Chemistry II – PR	NC305	2.33	2.67	2.67	1.33	1.67	3.00	2.33	1.33	3.00	2.67	2.00
Physical Pharmaceutics I – PR	NC306	3.00	2.67	2.67	2.33	2.33	2.67	1.50	2.33	1.67	2.00	2.33
Pharmaceutical Microbiology – PR	NC307	3.00	2.67	3.00	1.33	1.67	2.00	2.67	2.00	2.00	1.33	2.00
Pharmaceutical Engineering – PR	NC308	3.00	2.67	2.67	2.33	2.33	2.33	2.33	2.00	2.33	1.33	2.67
Pharmaceutical Organic Chemistry III– TH	NC401	3.00	2.80	3.00	1.60	2.60	1.60	1.00	1.80	1.20	1.40	2.20
Medicinal Chemistry I – TH	NC402	3.00	3.00	3.00	2.40	1.80	2.20	2.00	2.00	2.00	1.00	3.00
Physical Pharmaceutics II – TH	NC403	2.46	1.98	2.11	2.42	2.11	1.76	1.76	1.76	1.47	1.17	1.94
Pharmacology I – TH	NC404	3.00	2.20	2.40	2.40	2.20	2.60	2.60	2.20	2.80	1.40	2.00
Pharmacognosy and Phytochemistry I– TH	NC405	2.81	1.69	1.88	1.69	1.88	2.44	2.06	2.06	1.88	1.69	1.88
Medicinal Chemistry I – PR	NC406	2.92	2.60	2.60	1.95	1.95	1.63	1.95	1.95	1.95	1.30	2.92

Course	Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Physical Pharmaceutics II – PR	NC407	3.00	2.67	2.67	2.33	2.33	2.67	1.33	2.33	1.67	2.00	2.33
Pharmacology I – PR	NC408	3.00	3.00	2.67	2.67	2.00	2.00	3.00	2.00	2.33	2.33	2.00
Pharmacognosy and Phytochemistry I – PR	NC409	3.00	1.67	1.67	2.00	1.67	1.67	1.67	1.67	1.67	3.00	3.00
Medicinal Chemistry II – TH	NC501	2.60	2.08	2.08	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90
Industrial Pharmacy I– TH	NC502	3.00	3.00	2.40	2.60	2.00	2.40	2.40	1.60	2.00	2.00	1.80
Pharmacology II – TH	NC503	2.54	2.54	2.54	2.20	1.69	2.54	2.54	2.54	2.54	1.35	2.54
Pharmacognosy and Phytochemistry II– TH	NC504	3.00	2.20	2.40	1.80	1.20	2.60	2.20	2.00	2.40	1.40	1.00
Pharmaceutical Jurisprudence – TH	NC505	2.58	1.72	1.72	1.55	1.72	2.58	2.40	1.72	1.89	1.03	1.72
Industrial Pharmacy I – PR	NC506	2.91	2.59	2.91	2.91	1.94	2.26	2.26	1.94	1.94	1.94	1.94
Pharmacology II – PR	NC507	3.00	3.00	2.67	2.67	2.00	2.67	2.67	2.33	2.33	2.33	2.00
Pharmacognosy and Phytochemistry II – PR	NC508	3.00	2.00	2.33	1.33	1.67	2.67	2.33	2.00	2.33	1.67	1.00

Bharati Vidyapeeth College of Pharmacy, Kolhapur

Near Chitranagari, Kolhapur-416013, Maharashtra, India.
Website: http://copkolhapur.bharatividyapeeth.edu

Course	Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Medicinal Chemistry III – TH	NC601	3.00	3.00	3.00	3.00	1.40	2.00	2.20	2.00	3.00	2.20	3.00
Pharmacology III – TH	NC602	3.00	3.00	3.00	2.60	2.00	3.00	3.00	3.00	3.00	1.60	3.00
Herbal Drug Technology – TH	NC603	3.00	2.60	2.40	1.60	1.60	2.40	2.40	2.60	2.80	2.60	2.40
Biopharmaceutics and Pharmacokinetics – TH	NC604	3.00	2.60	2.20	1.80	1.80	2.00	1.80	1.80	2.00	2.20	2.00
Pharmaceutical Biotechnology – TH	NC605	2.96	2.17	2.57	1.97	1.38	2.17	1.97	1.58	2.37	1.97	1.97
Quality Assurance –Theory	NC606	2.94	2.74	2.35	1.76	2.16	1.96	2.35	2.35	1.76	1.57	2.16
Medicinal chemistry III – TH	NC607	2.98	2.98	2.98	2.98	2.31	1.98	2.31	2.31	2.98	2.98	2.98
Pharmacology III – PR	NC608	3.00	3.00	2.67	2.67	2.00	2.67	2.67	2.33	2.33	2.33	3.00
Herbal Drug Technology – PR	NC609	2.98	2.31	2.31	1.99	1.99	1.66	1.66	1.66	1.66	1.99	2.65
Instrumental Methods of Analysis – TH	NC701	3.00	2.60	2.00	2.60	2.00	1.80	2.00	2.00	2.00	1.40	2.00
Industrial PharmacyII – TH	NC702	2.80	2.40	2.80	3.00	2.40	2.40	2.40	2.80	2.40	2.40	2.80
Pharmacy Practice – TH	NC703	3.00	3.00	2.60	2.20	2.00	2.60	2.00	2.60	2.80	1.00	2.00

Course	Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Novel Drug Delivery System – TH	NC704	2.77	2.22	2.59	2.77	1.66	2.77	2.77	1.85	2.59	2.77	2.77
Instrumental Methods of Analysis – PR	NC705	3.00	3.00	3.00	3.00	3.00	3.00	2.33	3.00	2.33	1.33	3.00
Practice School -I	NC706A	3.00	3.00	3.00	2.33	3.00	3.00	2.33	2.67	2.67	2.33	3.00
Practice School -II	NC706B	3.00	3.00	3.00	2.33	3.00	3.00	2.33	3.00	2.00	2.00	3.00
Practice School -III	NC706C	3.00	2.33	3.00	2.33	2.00	2.67	2.00	2.33	2.67	1.67	2.00
Biostatistics and Research Methodology TH	NC801	3.00	2.60	2.80	2.40	2.20	2.00	2.40	2.00	2.00	1.60	3.00
Social and Preventive Pharmacy TH	NC802	3.00	2.20	2.40	1.60	2.20	1.80	2.00	1.60	1.80	1.60	1.60
Pharma Marketing Management TH	NC803	3.00	2.40	2.20	2.00	2.40	2.80	2.00	2.80	2.60	1.00	1.80
Pharmacovigilance	NC805	2.60	2.80	2.80	2.40	2.60	2.60	2.60	2.40	2.40	2.40	2.60
Cosmetic Science	NC809	3.00	2.80	2.60	2.60	2.60	2.60	3.00	2.40	3.00	2.20	2.20
Advanced Instrumentation Techniques	NC811	3.00	2.40	2.60	3.00	2.60	2.40	2.40	2.80	1.80	1.20	2.40
Project Work	NC813	3.00	3.00	3.00	2.67	3.00	2.33	2.67	2.33	3.00	2.00	2.33

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	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Average course PO attainment	2.81	2.45	2.48	2.14	1.99	2.22	2.11	2.09	2.15	1.76	2.24
Direct Attainment (80%)	2.25	1.96	1.98	1.71	1.60	1.78	1.68	1.67	1.72	1.41	1.79
Indirect Attainment (20%)	0.45	0.42	0.40	0.37	0.45	0.44	0.41	0.44	0.43	0.37	0.40
Total	2.70	2.38	2.38	2.08	2.05	2.22	2.09	2.11	2.15	1.78	2.19

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PO attainment of M. Pharmacy (Pharmaceutical Chemistry) Batch 2021-2023:

Course	Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Modern Pharmaceutical Analytical Techniques	MPC101T	2.79	2.79	2.42	1.67	1.86	1.86	2.05	2.23	1.67	1.12	2.05
Advanced Organic Chemistry -I	MPC1012T	3.00	2.40	2.80	2.80	2.00	2.40	2.40	2.00	2.20	1.80	2.00
Advanced Medicinal chemistry	MPC103T	3.00	2.40	2.60	2.60	1.80	2.40	1.80	2.40	2.00	2.00	2.00
Chemistry of Natural Products	MPC104T	2.80	2.60	2.80	2.80	1.80	2.40	2.20	2.00	1.80	1.80	2.20
Pharmaceutical Chemistry Practical I	MPC105P	3.00	2.00	2.00	2.00	2.00	2.00	1.67	2.00	1.33	1.33	3.00
Seminar/Assignment	MPC106S	3.00	3.00	2.67	3.00	2.67	2.33	2.67	2.67	2.67	2.00	2.67
Advanced Spectral Analysis	MPC201T	3.00	3.00	2.60	1.80	2.00	2.00	2.40	2.40	1.80	1.20	3.00
Advanced Organic Chemistry -II	MPC202T	3.00	2.40	2.80	2.80	2.00	2.40	2.40	2.00	2.20	1.80	2.00
Computer Aided Drug Design	MPC203T	3.00	2.40	2.80	2.80	1.60	2.20	2.00	1.80	2.20	1.40	2.00
Pharmaceutical Process Chemistry	MPC204T	3.00	2.40	2.80	2.80	2.00	2.40	2.40	2.00	2.20	1.60	2.00
Pharmaceutical Chemistry Practical II	MPC205P	3.00	2.00	2.00	2.00	2.00	2.00	1.67	2.00	1.33	1.33	3.00
Seminar/Assignment	MPC206S	3.00	3.00	2.67	3.00	2.67	2.33	2.67	2.67	2.67	2.00	2.67

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Course	Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Research Methodology and Biostatistics	MRM301T	3.00	2.80	2.60	2.40	2.00	2.60	2.20	2.20	2.40	1.60	2.60
Journal club	MJC302	3.00	3.00	2.67	1.67	3.00	1.67	2.33	2.33	2.00	1.33	2.67
Discussion / Presentation (Proposal Presentation)	RPP303	3.00	3.00	3.00	3.00	2.33	1.67	2.67	3.00	2.33	2.33	3.00
Research Work	RWP304	3.00	3.00	3.00	3.00	2.00	2.33	3.00	2.00	2.33	2.00	3.00
Journal Club	MJC401	3.00	3.00	2.67	1.67	3.00	1.67	2.33	2.33	2.00	1.33	2.67
Research work and Colloquium	RWP402	3.00	3.00	3.00	3.00	2.00	2.33	3.00	2.00	2.33	2.00	3.00
Discussion/Final Presentation	RPP403	3.00	3.00	3.00	3.00	2.33	1.67	2.67	3.00	2.33	2.33	3.00
Average course PO attainment		2.98	2.69	2.68	2.52	2.16	2.14	2.34	2.26	2.09	1.70	2.55
Direct Attainment (80%)		2.38	2.16	2.14	2.01	1.73	1.71	1.87	1.81	1.68	1.36	2.04
Indirect Attainment (20%)		0.47	0.49	0.47	0.42	0.49	0.47	0.41	0.49	0.41	0.40	0.47
Total		2.85	2.65	2.61	2.43	2.22	2.18	2.28	2.30	2.09	1.76	2.51

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PO attainment of M. Pharmacy (Pharmaceutics) Batch 2021-2023:

Course	Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Modern Pharmaceutical Analytical Techniques	MPH101T	3.00	3.00	2.60	1.80	2.00	2.00	2.20	2.40	1.80	1.20	2.20
Drug Delivery System	MPH102T	3.00	2.40	3.00	2.80	2.00	2.80	2.40	2.40	3.00	1.60	3.00
Modern Pharmaceutics	MPH103T	3.00	2.60	3.00	2.80	2.60	2.80	2.80	2.20	2.00	1.40	2.80
Regulatory Affair	MPH104T	2.80	1.80	2.40	2.40	1.80	2.20	2.00	2.20	2.40	1.00	2.20
Pharmaceutics Practical I	MPH105P	3.00	3.00	2.67	3.00	2.00	3.00	3.00	2.00	2.00	2.00	2.00
Seminar/Assignment	MPH106S	3.00	3.00	2.67	3.00	2.67	2.33	2.67	2.67	2.67	2.00	2.67
Molecular Pharmaceutics (Nano Tech and Targeted DDS)	MPH201T	3.00	2.40	2.40	2.60	2.00	2.40	2.20	3.00	2.40	1.20	2.40
Advanced Biopharmaceutics & Pharmacokinetics	MPH202T	3.00	2.20	2.80	2.40	2.00	3.00	2.40	2.20	2.80	1.00	3.00
Computer Aided Drug Delivery System	MPH203T	3.00	2.80	2.40	1.80	2.20	2.00	2.40	2.40	1.80	1.60	2.20
Cosmetic and Cosmeceuticals	MPH204T	3.00	2.80	2.20	2.20	1.80	3.00	2.80	2.20	3.00	1.80	2.00
Pharmaceutics Practical II	MPH205P	3.00	3.00	2.67	3.00	2.00	3.00	3.00	2.00	2.00	2.00	2.00
Seminar/Assignment	MPH206S	3.00	3.00	2.67	3.00	2.67	2.33	2.67	2.67	2.67	2.00	2.67

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Course	Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Research Methodology and Biostatistics	**MRM301T**	3.00	2.80	2.60	2.40	2.00	2.60	2.20	2.20	2.40	1.60	2.60
Journal club	**MJC302**	3.00	3.00	2.67	1.67	3.00	1.67	2.33	2.33	2.00	1.33	2.67
Discussion / Presentation (Proposal Presentation)	**RPP303**	3.00	3.00	3.00	3.00	2.33	1.67	2.67	3.00	2.33	2.33	3.00
Research Work	**RWP304**	3.00	3.00	3.00	3.00	2.00	2.33	3.00	2.00	2.33	2.00	3.00
Journal Club	**MJC401**	3.00	3.00	2.67	1.67	3.00	1.67	2.33	2.33	2.00	1.33	2.67
Research work and Colloquium	**RWP402**	3.00	3.00	3.00	3.00	2.00	2.33	3.00	2.00	2.33	2.00	3.00
Discussion/Final Presentation	**RPP403**	3.00	3.00	3.00	3.00	2.33	1.67	2.67	3.00	2.33	2.33	3.00
Average course PO attainment		**2.99**	**2.78**	**2.71**	**2.55**	**2.23**	**2.36**	**2.57**	**2.38**	**2.33**	**1.67**	**2.58**
Direct Attainment (80%)		**2.39**	**2.22**	**2.17**	**2.04**	**1.79**	**1.89**	**2.05**	**1.90**	**1.86**	**1.34**	**2.07**
Indirect Attainment (20%)		**0.48**	**0.49**	**0.47**	**0.41**	**0.49**	**0.52**	**0.46**	**0.51**	**0.41**	**0.41**	**0.45**
Total		**2.87**	**2.71**	**2.64**	**2.45**	**2.28**	**2.41**	**2.51**	**2.41**	**2.27**	**1.75**	**2.52**

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PO attainment of M. Pharmacy (Pharmaceutical Quality Assurance) Batch 2021-2023:

Course	Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Modern Pharmaceutical Analytical Techniques	MQA101T	2.93	2.93	2.54	1.76	1.96	1.96	2.15	2.35	1.76	1.17	2.15
Quality Management System	MQA102T	3.00	2.60	2.40	1.80	1.80	2.00	2.40	2.40	1.20	1.00	2.00
Quality Control and Quality Assurance	MQA103T	2.92	2.73	2.73	2.34	2.73	2.34	2.53	2.73	2.53	1.36	1.95
Product Development and Technology Transfer	MQA104T	3.00	2.80	2.80	2.40	2.00	2.40	2.60	2.20	2.40	2.00	2.20
Pharmaceutical Quality Assurance Practical I	MQA105P	3.00	3.00	2.33	2.33	2.67	2.33	2.67	2.33	2.33	1.00	1.67
Seminar/Assignment	MQA106S	3.00	3.00	2.67	3.00	2.67	2.33	2.67	2.67	2.67	2.00	2.67
Hazards and Safety Management	MQA201T	3.00	2.80	2.40	2.20	2.20	2.20	2.40	2.20	2.00	1.80	2.00
Pharmaceutical Validation	MQA202T	3.00	2.80	2.80	2.40	1.80	2.20	2.40	2.00	2.40	1.00	1.80
Audits and Regulatory Compliance	MQA203T	3.00	2.80	2.40	1.40	2.40	2.00	2.40	2.60	1.20	1.00	2.00
Pharmaceutical Manufacturing Technology	MQA204T	3.00	2.40	2.80	2.60	2.00	2.40	2.40	2.00	2.00	2.20	2.00

Course	Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Pharmaceutical Quality Assurance Practical II	MQA205P	3.00	3.00	3.00	3.00	3.00	2.67	2.67	2.00	2.33	2.00	2.33
Seminar/Assignment	MQA206S	3.00	3.00	2.67	3.00	2.67	2.33	2.67	2.67	2.67	2.00	2.67
Research Methodology and Biostatistics	MRM301T	3.00	2.80	2.60	2.40	2.00	2.60	2.20	2.20	2.40	1.60	2.60
Journal club	MJC302	3.00	3.00	2.67	1.67	3.00	1.67	2.33	2.33	2.00	1.33	2.67
Discussion / Presentation (Proposal Presentation)	RPP303	3.00	3.00	3.00	3.00	2.33	1.67	2.67	3.00	2.33	2.33	3.00
Research Work	RWP304	3.00	3.00	3.00	3.00	2.00	2.33	3.00	2.00	2.33	2.00	3.00
Journal Club	MJC401	3.00	3.00	2.67	1.67	3.00	1.67	2.33	2.33	2.00	1.33	2.67
Research work and Colloquium	RWP402	3.00	3.00	3.00	3.00	2.00	2.33	3.00	2.00	2.33	2.00	3.00
Discussion/Final Presentation	RPP403	3.00	3.00	3.00	3.00	2.33	1.67	2.67	3.00	2.33	2.33	3.00
Average course PO attainment		2.99	2.88	2.71	2.42	2.35	2.16	2.53	2.37	2.17	1.66	2.39
Direct Attainment (80%)		2.39	2.30	2.17	1.94	1.88	1.73	2.03	1.90	1.74	1.32	1.91
Indirect Attainment (20%)		0.47	0.49	0.47	0.43	0.48	0.48	0.41	0.49	0.41	0.41	0.47
Total		2.86	2.79	2.64	2.37	2.36	2.21	2.44	2.39	2.15	1.73	2.38

Percentage PO attainment:

B. Pharmacy Batch 2019-2023

Particulars	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
PO Attainment	2.70	2.38	2.38	2.08	2.05	2.22	2.09	2.11	2.15	1.78	2.19
PO Desired	2.86	2.48	2.48	2.21	2.10	2.36	2.18	2.20	2.28	1.87	2.20
% Attainment	94.44	95.93	96.03	94.02	97.84	94.22	95.97	95.87	94.31	95.11	99.42

PO Attainment
B. Pharmacy Batch 2019-2023

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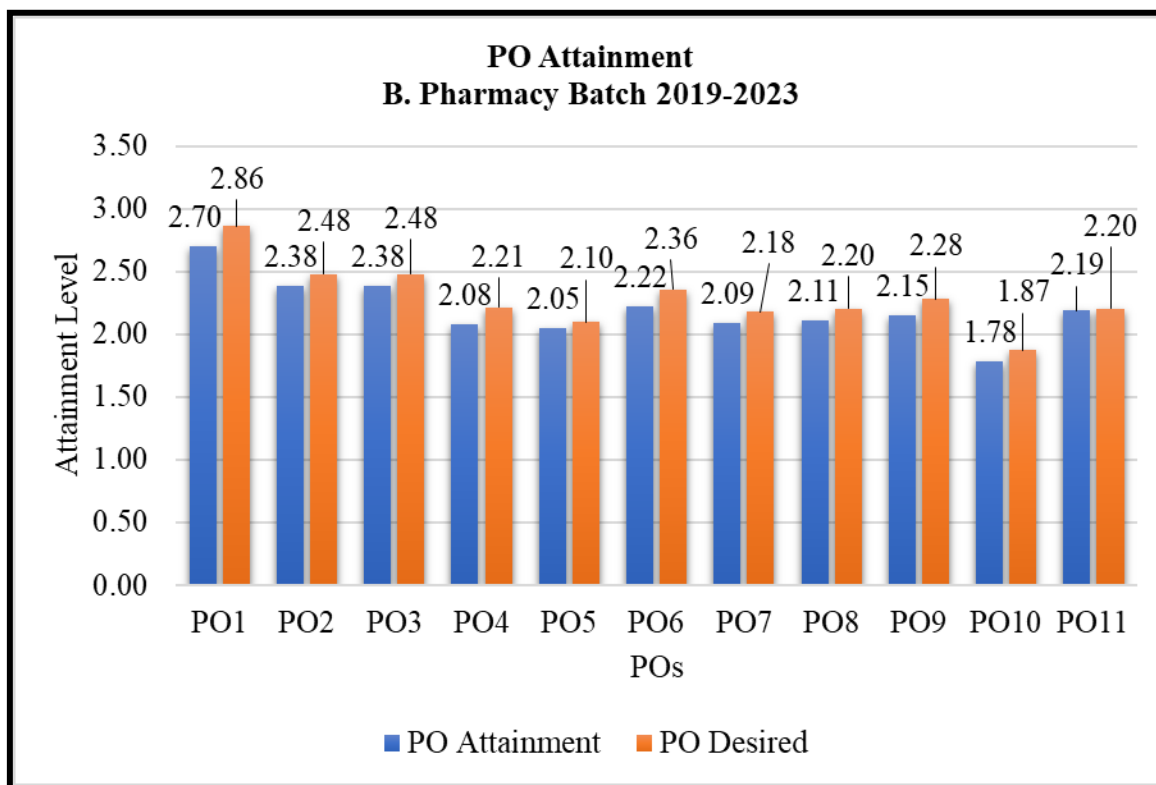
Percentage PO attainment:

M. Pharmacy (Pharmaceutical Chemistry) Batch 2021-2023

Particulars	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
PO Attainment	2.85	2.65	2.61	2.43	2.22	2.18	2.28	2.30	2.09	1.76	2.51
PO Desired	2.92	2.72	2.65	2.43	2.26	2.24	2.37	2.38	2.12	1.76	2.61
% Attainment	97.45	97.26	98.61	99.81	98.12	97.14	96.21	96.77	98.59	99.89	96.22
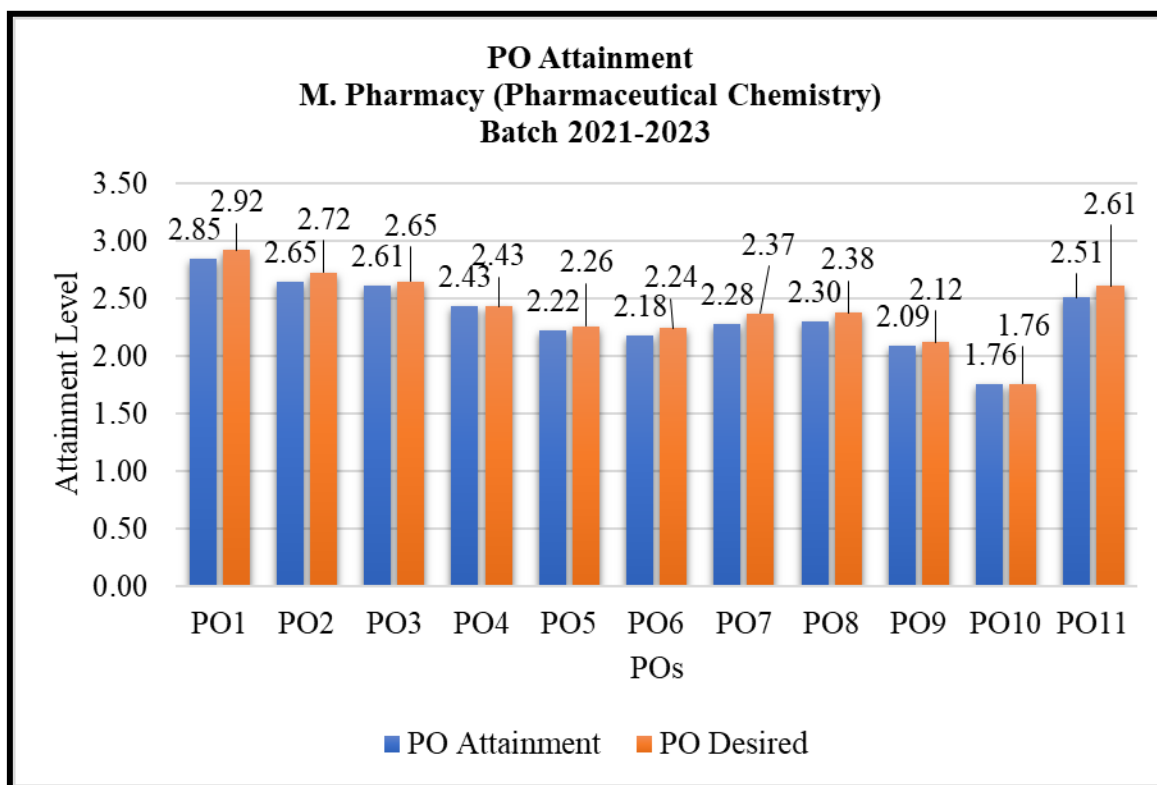
PO Attainment
M. Pharmacy (Pharmaceutical Chemistry)
Batch 2021-2023

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Bharati Vidyapeeth College of Pharmacy, Kolhapur

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Percentage PO attainment:

M. Pharmacy (Pharmaceutics) Batch 2021-2023

Particulars	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
PO Attainment	2.87	2.71	2.64	2.45	2.28	2.41	2.51	2.41	2.27	1.75	2.52
PO Desired	2.92	2.76	2.67	2.50	2.31	2.43	2.55	2.45	2.32	1.76	2.58
% Attainment	98.14	98.31	98.84	98.05	98.68	99.25	98.60	98.42	97.85	99.33	97.50

PO Attainment
M. Pharmacy (Pharmaceutics)
Batch 2021-2023

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Percentage PO attainment:

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M. Pharmacy (Pharmaceutical Quality Assurance) Batch 2021-2023

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Particulars	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
PO Attainment	2.86	2.79	2.64	2.37	2.36	2.21	2.44	2.39	2.15	1.73	2.38
PO Desired	2.93	2.84	2.68	2.38	2.37	2.27	2.52	2.42	2.18	1.75	2.41
% Attainment	97.53	98.35	98.55	99.63	99.39	97.44	96.76	98.57	98.45	99.09	98.81

PO Attainment — M. Pharmacy (Pharmaceutical Quality Assurance) Batch 2021-2023

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