



*6.5.1: Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes. It reviews teaching learning process, structure and methodologies of operations and learning outcomes at periodic intervals and records the incremental improvements in various activities*

#### 6.5.1 INDEX

S. No.	Contents
1	<u>Institutionalizing the quality assurance strategies and processes. Reviews of teaching learning process, structure and methodologies of operations and learning outcomes at periodic intervals and Record of the incremental improvements in various activities</u>



**Institutionalizing the quality assurance strategies and processes, Reviews of teaching learning process, Structure and methodologies of operations and learning outcomes at periodic intervals and Record of the improvements in various activities**





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The IQAC reviews teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals and records the incremental improvement in various activities.

The IQAC plays a dynamic role in guaranteeing operation of effective teaching-learning processes, steering student centric activities and recording the learning outcomes as per the systematic processes defined.

The periodic mechanism for reviewing the teaching learning and evaluation process involves:

- I. **Review of Teaching-Learning process through**
  - Regular e-monitoring on ERP portal
  - Departmental meetings
  - Feedback systems for teaching- learning
  - Academic audits
- II. **Review of Learning-Outcomes**
  - CO and PO attainment
  - Result analysis
- III. **Post Accreditation-Initiatives**
  - Addition/Enrichment of new programmes/courses
  - Strengthening of research activities

Above mechanisms are in place. Following two examples will illustrate IQAC's initiatives and systematic procedures set to ensure effective implementation of teaching-learning:

#### Mechanism 01: Feedback system

The college has a rigorous feedback mechanism for the effective implementation of curriculum enrichment. College opts following feedbacks which is being collected, analyzed and utilized for overall teaching learning process and development of the institution:

##### **1. Feedback on curriculum by teachers**

The focus of this feedback is to understand curriculum based clarity of learning objectives, involvement of students in learning etc. It attempts to focus contribution of curriculum to meet the needs of current and



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contemporary requirements, relevance of subjects to meet industrial standards, benefits of curriculum to society and environment etc.

**2. Feedback on curriculum by students**

This feedback focuses on the level at which curriculum contributes to the students in providing basic knowledge comprehension with pharmacy profession, level of skill of critical analysis in decision making, critical thinking, level of abilities of selection, learning and using modern tools, understanding analysis and communicating the values of professional roles with respect to health safety and legal issues of society, level of skills in writing reports, making presentations, preparing documents etc.

**3. Feedback on curriculum by employers**

Employers are the major stakeholders to contribute for ushering the institute to achieve industrial standard by providing fruitful and meaningful feedback about the accomplishment of the curriculum. In this context institute has designed industry-oriented feedback form in order to seek the feedback of employers about the delivery of the curriculum and its relevance to industrial needs. The feedback sought from the employers is very vivid to prove that the content delivery of the curriculum.

**4. Feedback on curriculum by alumni**

Alumni of the college are major stakeholders to contribute for quality enhancement and sustenance. A feedback is collected from alumni to seek their inputs regarding the effective translation of the curriculum and subsequent transformation of graduates after the successful completion of program. Competencies expected out of the course, relevance of subjects in syllabus in relevance to the course, relevance of textbooks and reference books by their international recognition to the subjects, size of the syllabus in terms of the load on the student etc. are the parameters in the feedback.

**5. Feedback on National Service Scheme by students**

The contribution of youth service to nation building and mitigating societal needs for transforming demographic ethos, beliefs and superstitions for sustainability and peaceful life. Hence NSS unit of this college is actively working for the varied cause of the community by performing different activities. In this context a feedback form has been designed regarding the active participation of youth in community services. The evaluation of feedback from participants of NSS activity has categorically revealed that the youth participation of NSS helps for indirect attainment of aims and objectives of the curriculum.

**6. Feedback on library by students**

Student is the main stakeholder of the library. The library feedback is collected, analyzed on the following points viz sufficiency of textbooks, reference books, journals, services provided by library, cooperation and assistance from library, usefulness of electronic display of new books arrivals, assistance from library staff in availing ICT tools etc.

**7. Feedback on institute by students**



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This feedback aims to review the rating given by students to the institute on the basis of facilities provided to them. To say few, internet facility, canteen facility, teaching aids, placements, computer facility, drinking water facility, academic ambience and son on. The supporting facilities and infrastructure helps the students indirectly to thrive and be successful.

#### 8. Feedback on teaching-learning by students

College is very particular about getting feedback from students about qualities and capacities of the teachers during teaching. The aim of this feedback is to review the qualities of teachers usually impacts on delivery of the sessions/lectures/practicals to the students. In this context, teachers are being evaluated for the quality of explanation given by them, the pace with which the faculty taught, leadership of the faculty in the class, the subject interest developed among the students, the discussion encouraged on the subject, the think and learn ability developed by the faculty, preparedness of the contents and so on. The review of the feedback helps teachers to deliver the contents by still better way.

#### 9. Feedback on institute by alumni

A feedback is collected from alumni to seek their inputs regarding the contribution of the institute in developing graduates. The feedback is collected on academic ambience, infrastructure facility, library, faculty, students' placements, extracurricular and co-curricular activities and counseling etc.

**For better understanding, feedback on curriculum by teachers is explained in detail here. Rest feedbacks are in place for all five academic years.**

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Filled Feedback Sample Form  
On  
Curriculum by Teachers  
(B. Pharm.)  
A.Y. 2022-23



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Vision	Mission	Program Educational Objectives
"To achieve excellence in pharmacy education, innovative research and provide service to the society and profession."	"To impart futuristic learning in pharmacy to develop a pool of professionally competent, ethically sound and skilled pharmacist at par with global standards"	<ol style="list-style-type: none"> <li>To equip students with pharmacy and interdisciplinary knowledge, skills and competencies at par with global standards by imparting learner centric futuristic pedagogical methods.</li> <li>To instill ethics, morals, integrity, scholastic temperament, sense of social responsibility and empathy in students to contribute for the cause of community.</li> <li>To inculcate leadership qualities, entrepreneurial talent, problem solving and effective communication in students for professional competency.</li> <li>To infuse frugality, ingenuity, inquisitiveness and professionalism in students to produce industry fit Pharma professionals.</li> <li>To cultivate research culture and inspire students for futuristic and higher learning utilizing state-of-the-art infrastructure, modern tools and ecofriendly resources</li> </ol>

**Feedback on Curriculum by Teacher's (Academic Year: 2022 to 2023)**

Name of Faculty	Dr. A. R. Balap
Program	B. Pharmacy
Contact Number	9421061023
E-mail	balapaishwarya8@gmail.com
Designation	Associate Professor

Please rate each parameter with respect to curriculum by providing appropriate rating in the following prescribed tabular format

(Instructions: Kindly put ✓ whichever you feel appropriate)

Sr. no.	Program Outcome (PO) mapped	Parameters	3: Substantial (High)	2: Moderate (Medium)	1: Slight (Low)
1.	PO1, PO5	Scope of curriculum with respect to knowledge & Skills developed in the student	✓		
2.	PO11	Clarity of learning objective to achieve need of the Student	✓		
3.	PO4	Does the curriculum meet the needs of current & contemporary requirement	✓		
4.	PO2, PO3, PO8	Magnitude of curriculum that develops planning, problem solving ability & communication skill	✓		
5.	PO5	Student involvement in an active learning with respect to curriculum	✓		
6.	PO6	Relevance of subject to meet current industrial standards	✓		
7.	PO5, PO6	Relevance of subject to accomplish stated mission	✓		
8.	PO7	Does the curriculum inculcate pharmaceutical ethics in students		✓	
9.	PO9, PO10	Benefits of curriculum content to the society & environment to maintain sustainability		✓	

Any Suggestion: -

More subjects of Pharm. Analysis should be included in B. Pharm. curriculum.

"Thank you for your valuable feedback"

Sign:

A. R. Balap

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**Filled Feedback Sample Form  
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(M. Pharm.)  
A.Y. 2022-23**



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Vision	Mission	Program Educational Objectives
"To achieve excellence in pharmacy education, innovative research and provide service to the society and profession."	"To impart futuristic learning in pharmacy to develop a pool of professionally competent, ethically sound and skilled pharmacist at par with global standards"	<ol style="list-style-type: none"> <li>1. To equip students with pharmacy and interdisciplinary knowledge, skills and competencies at par with global standards by imparting learner centric futuristic pedagogical methods.</li> <li>2. To instill ethics, morals, integrity, scholastic temperament, sense of social responsibility and empathy in students to contribute for the cause of community.</li> <li>3. To inculcate leadership qualities, entrepreneurial talent, problem solving and effective communication in students for professional competency.</li> <li>4. To infuse frugality, ingenuity, inquisitiveness and professionalism in students to produce industry fit Pharma professionals.</li> <li>5. To cultivate research culture and inspire students for futuristic and higher learning utilizing state-of-the-art infrastructure, modern tools and ecofriendly resources</li> </ol>

**Feedback on Curriculum by Teacher's (Academic Year: 20 22 to 20 23)**

Name of Faculty	Dr. A. A. Phatak
Program	M. Pharmacy (Pattern 2019)
Contact Number	9822449380
E-mail	atulapin@ymcph.com
Department	Pharmaceutics

Please rate each parameter with respect to curriculum by providing appropriate rating in the following prescribed tabular format

(Instructions: Kindly put ✓ whichever you feel appropriate)

Sr. no.	Program Outcome (PO) mapped	Parameters	3: Substantial (High)	2: Moderate (Medium)	1: Slight (Low)
1.	PO1	Scope of curriculum with respect to Scientific knowledge	✓		
2.	PO2, PO10	Clarity of learning objective & technical application to achieve need of the Student		✓	
3.	PO6, PO7	Does the curriculum meet the needs of developing potent researchers?		✓	
4.	PO2, PO5, PO6	Does Magnitude of curriculum develops practical skills of formulation and development in students	✓		
5.	PO1, PO2, PO3, PO5	Student involvement in an active learning with of development & evaluation of new formulation.		✓	
6.	PO4, PO6, PO8	Relevance of subject to meet current industrial standards		✓	
7.	PO9, PO10	Relevance of subject to accomplish stated mission		✓	
8.	PO8, PO9, PO10	Does the curriculum inculcate pharmaceutical ethics and promote professional identity in students?	✓		
9.	PO9, PO10	Benefits of curriculum content to the society & environment to maintain sustainability		✓	

Any Suggestion: -

Adequate

Designation:

"Thank you for your valuable feedback"

Sign:

APR



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## Criteria 6: Governance, Leadership and Management



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Vision	Mission	Program Educational Objectives
"To achieve excellence in pharmacy education, innovative research and provide service to the society and profession."	"To impart futuristic learning in pharmacy to develop a pool of professionally competent, ethically sound and skilled pharmacist at par with global standards"	1. To equip students with pharmacy and interdisciplinary knowledge, skills and competencies at par with global standards by imparting learner centric futuristic pedagogical methods; 2. To instill ethics, morals, integrity, scholastic temperament, sense of social responsibility and empathy in students to contribute for the cause of community. 3. To inculcate leadership qualities, entrepreneurial talent, problem solving and effective communication in students for professional competency. 4. To infuse frugality, ingenuity, inquisitiveness and professionalism in students to produce industry fit Pharma professionals. 5. To cultivate research culture and inspire students for futuristic and higher learning utilizing state-of-the-art infrastructure, modern tools and ecofriendly resources

### Feedback on Curriculum by Teacher's (Academic Year: 2022 to 2023)

Name of Faculty	Mr. Siddhartha. Sandekar
Program	Pharm D
Contact Number	9960722672
E-mail	mcopsiddhartha@gmail.com

Please rate each parameter with respect to curriculum by providing appropriate rating in the following prescribed tabular format

(Instructions: Kindly put ✓ whichever you feel appropriate)

Sr. no.	Program Outcome (PO) mapped	Parameters	3: Substantial (High)	2: Moderate (Medium)	1: Slight (Low)
1.	PO1	Scope of curriculum with respect to core knowledge & Skills developed in the student related to pharmacy practice	✓		
2.	PO8	Clarity of learning objective to achieve need of the patient centric care	✓		
3.	PO4	Does the syllabus helps to built problem solving and decision making power in students	✓		
4.	PO2	Does magnitude of curriculum develops Professionalism , patient health care, social and cultural awareness in student		✓	
5.	PO4, PO5	Student involvement in an active learning with respect to curriculum by practicing community pharmacy, patient care services; etc	✓		
6.	PO3, PO6, PO7	Relevance of subject to accomplish stated mission	✓		
7.	PO5, PO7	Does the curriculum inculcate pharmaceutical ethics and professionalism in students	✓		
8.	PO3, PO5, PO7	Benefits of curriculum content to the society & environment to maintain sustainability	✓		

Any Suggestion: -

In pharmacotherapeutics the medication management plan part can be inculcated in every sub diseases.

Designation:

Sign:

"Thank you for your valuable feedback"



**Feedback Analysis Report  
On  
Curriculum by Teachers  
(B. Pharm)  
A.Y. 2022-23**



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Principal

Prof. Dr. G. R. Ekbote  
M.S., M.N.A.M.S.  
Chairman, Business Council

**Questions of Feedback on Curriculum by Teacher's (B. Pharm)**

Sr. no.	Questions
1.	Scope of curriculum with respect to knowledge & Skills developed in the student
2.	Clarity of learning objective to achieve need of the Student
3.	Does the curriculum meet the needs of current & contemporary requirement
4.	Magnitude of curriculum that develops planning, problem solving ability & communication skill
5.	Student involvement in an active learning with respect to curriculum
6.	Relevance of subject to meet current industrial standards
7.	Relevance of subject to accomplish stated mission
8.	Does the curriculum inculcate pharmaceutical ethics in students
9.	Benefits of curriculum content to the society & environment to maintain sustainability



  
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P. E. S. Modern College of Pharmacy, Yamunanagar. Nigdi										
Feedback analysis on curriculum from Teachers										
Academic Year 2022-23 ( B pharmacy)										
	Teacher	Que.1	Que.2	Que.3	Que.4	Que.5	Que.6	Que.7	Que.8	Que.9
1	MS.SURBHI C. GUPTA	3	3	2	3	2	2	3	3	2
2	DR.SMITA PIMPLE	3	3	3	3	3	3	3	3	2
3	MR.PRASHANT A.PAWAR	3	3	2	2	2	2	3	2	3
4	DR.MINAL T.HARDE	3	3	3	3	3	3	3	3	3
5	BHUSHAN P.PIMPLE	1	2	1	1	1	2	2	2	1
6	CHAUDHARI S.Y	3	3	3	3	3	2	2	2	3
7	D.L.VISOKAR	3	3	3	2	3	3	3	3	3
8	PRIYANKA VIJENDRA BAGADE	3	2	3	3	3	2	3	3	3
9	KHADE SHUBHAM RAMCHANDRA	3	3	3	3	3	2	3	3	3
10	DR.A.A.PHATAK	3	2	3	2	3	3	3	2	3
11	DR.ANURADHA G.MORE	3	3	3	3	2	3	3	3	3
12	DR.U.C .GALGATTE	3	3	3	3	3	2	3	3	3
13	NIKITA MARUTI GAIKWAD	3	3	2	2	2	3	3	3	3
14	DR.V.V.CHOPADE	3	3	3	2	3	3	2	3	3
15	DR.PADMAJA SANTOSH KORE	3	3	3	3	2	3	3	3	3
16	DR.DEEPATI D. BANDAWANE	3	3	3	3	3	2	3	3	3

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17	DR. S. S. NIPATE	3	3	3	3	3	2	3	3	3
18	MR.ROHIT M.GURAV	3	3	3	3	3	2	3	3	3
19	MS.S.D.CHAUDHARI	3	3	3	3	2	3	3	3	3
20	DR.A.R. BALAP	3	3	3	3	3	3	3	2	2
21	DR.PALLAVI M.PATIL	2	2	3	2	2	3	3	2	3
22	DR.SHAILAJA JADHAV	2	3	2	2	2	2	2	3	2
23	DR.A.S. TAPKIR	3	3	3	3	3	2	2	2	3
24	DR.M.C.KUCHEKAR	3	3	3	3	2	2	2	3	3
25	DR.KALAYANI S.KAKAD	2	2	2	3	3	2	2	2	2
26	MRS.SNEHAL. G. SHELKE	3	3	2	2	3	2	3	3	2
27	DR.UJWALA DESAI	3	3	2	2	3	2	2	3	3
28	MS.NIKITA KALE	3	3	2	3	3	3	3	3	3
	Average	2.82	2.82	2.67	2.61	2.61	2.43	2.71	2.71	2.71



*(Signature)*

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### Question wise percent feedback responses (2022-23)

Following table shows percent responses on curriculum feedback received by B. Pharm faculty members.

Sr. no.	Parameters	3: Substantial (High)	2: Moderate (Medium)	1: Slight (Low)
1.	Scope of curriculum with respect to knowledge & Skills developed in the student	85.71	10.71	3.57
2.	Clarity of learning objective to achieve need of the Student	82.14	17.86	0.00
3.	Does the curriculum meet the needs of current & contemporary requirement	67.86	28.57	3.57
4.	Magnitude of curriculum that develops planning, problem solving ability & communication skill	64.29	32.14	3.57
5.	Student involvement in an active learning with respect to curriculum	64.29	32.14	3.57
6.	Relevance of subject to meet current industrial standards	42.86	57.14	0.00
7.	Relevance of subject to accomplish stated mission	71.43	28.57	0.00
8.	Does the curriculum inculcate pharmaceutical ethics in students	71.43	28.57	0.00
9.	Benefits of curriculum content to the society & environment to maintain sustainability	75.00	21.43	3.57



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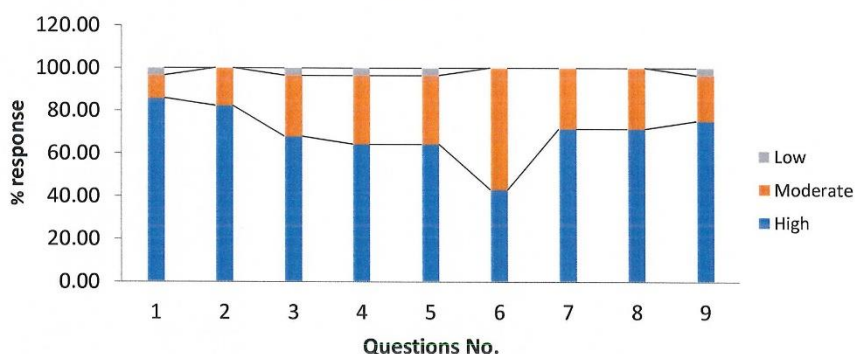
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**Feedback Analysis [Graphical Representation]  
(2022-23)**



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Curriculum by Teachers  
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Principal

Prof. Dr. G. R. Ekbote  
M.S., M.N.A.M.S.  
Chairman, Business Council

**Questions of Feedback on Curriculum by Teacher's (M. Pharm)**

**Department: Pharmaceutics**

Sr. no.	Questions
1.	Scope of curriculum with respect to Scientific knowledge
2.	Clarity of learning objective & technical application to achieve need of the Student
3.	Does the curriculum meet the needs of developing potent researchers?
4.	Does Magnitude of curriculum develops practical skills of formulation and development in students
5.	Student involvement in an active learning with of development & evaluation of new formulation.
6.	Relevance of subject to meet current industrial standards
7.	Relevance of subject to accomplish stated mission
8.	Does the curriculum inculcate pharmaceutical ethics and promote professional identity in students?
9.	Benefits of curriculum content to the society & environment to maintain sustainability



*[Signature]*  
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**Questions of Feedback on Curriculum by Teacher's (M. Pharm)**

**Department: Quality Assurance Technique**

Sr. no.	Questions
1.	Scope of curriculum with respect to analytical knowledge & analytical reasoning in the student
2.	Clarity of learning objective to achieve need of the Student
3.	Does the curriculum meet the needs of developing good researchers?
4.	Magnitude of curriculum that develops planning & problem solving ability
5.	Student involvement in an active learning with handling of modern tools, follow GLP & documentation.
6.	Relevance of subject to meet current industrial standards
7.	Relevance of subject to accomplish stated mission
8.	Does the curriculum inculcate experimental ethics and promote professional identity in students?
9.	Benefits of curriculum content to the society & environment to maintain sustainability



  
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Questions of Feedback on Curriculum by Teacher's (M. Pharm)

Department: Pharmaceutical Chemistry

Sr. no.	Questions
1.	Scope of curriculum with respect to chemistry knowledge
2.	Clarity of learning objective to achieve need of the Student
3.	Does the curriculum meet the needs of developing potent researchers?
4.	Magnitude of curriculum that develops planning & problem solving ability
5.	Student involvement in an active learning with synthesize and designing of new molecule
6.	Relevance of subject to meet current industrial standards
7.	Relevance of subject to accomplish stated mission
8.	Does the curriculum inculcate experimental ethics and promote professional identity in students?
9.	Benefits of curriculum content to the society & environment to maintain sustainability



  
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Questions of Feedback on Curriculum by Teacher's (M. Pharm)

**Department: Pharmacology**

Sr. no.	Questions
1.	Scope of curriculum with respect to acquire knowledge of various drug classes and its MOA
2.	Clarity of learning objective to achieve need of the Student
3.	Does the curriculum meet the needs of developing good researchers?
4.	Magnitude of curriculum that develops planning & analytical reasoning in student
5.	Student involvement in an active learning with handling of animals, follow GLP & statistical analysis.
6.	Relevance of subject to meet current industrial standards
7.	Relevance of subject to accomplish stated mission
8.	Does the curriculum inculcate experimental ethics and promote professional identity in students?
9.	Benefits of curriculum content to the society & environment to maintain sustainability



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**Feedback analysis on curriculum by M. Pharm teaching faculty**

**Department: Pharmaceutics**

P. E. S. Modern College of Pharmacy, Yamunanagar. Nigdi										
Feedback analysis on curriculum from Teachers										
Academic Year 2022-23 ( M pharmacy- Pharmaceutics)										
	Teacher	Que.1	Que.2	Que.3	Que.4	Que.5	Que.6	Que.7	Que.8	Que.9
1	DR.SMITA PIMPLE	3	3	3	3	3	3	3	3	2
2	D.L.VISOKAR	3	3	3	3	3	3	3	3	3
3	DR.A.A.PHATAK	3	2	2	3	2	2	2	3	2
4	DR.UPENDRA C .GALGATTE	3	3	3	3	3	3	3	3	3
5	DR. ANURADHA G. MORE	3	3	3	3	3	3	3	3	3
	Average	3	2.8	2.8	3	2.8	2.8	2.8	3	2.6

**Department:QAT**

P. E. S. Modern College of Pharmacy, Yamunanagar. Nigdi										
Feedback analysis on curriculum from Teachers										
Academic Year 2022-23 ( M pharmacy- QAT)										
	Teacher	Que.1	Que.2	Que.3	Que.4	Que.5	Que.6	Que.7	Que.8	Que.9
1	DR.UJWALA DESAI	3	3	2	3	3	3	2	3	3
2	NIKITA MARUTI GAIKWAD	3	3	3	3	2	3	3	3	3
3	DR. K. S. SHAIKH	3	3	3	3	3	3	3	3	3
4	DR. ANURADHA G. MORE	3	3	3	3	3	3	3	3	3
	Average	3	3	2.75	3	2.75	3	2.75	3	3

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## Criteria 6: Governance, Leadership and Management



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### Department: Pharmacology

P. E. S. Modern College of Pharmacy, Yamunanagar, Nigdi										
Feedback analysis on curriculum from Teachers										
Academic Year 2022-23 ( M pharmacy- Pharmacology)										
	Teacher	Que. 1	Que. 2	Que. 3	Que. 4	Que. 5	Que. 6	Que. 7	Que. 8	Que. 9
1	DR.DEEPATI D. BANDAWANE	3	3	3	3	3	2	3	3	3
2	DR.SONALI S.NIPATE	3	3	3	3	3	3	3	3	3
	Average	3	3	3	3	3	2.5	3	3	3

### Department: Pharmaceutical chemistry

P. E. S. Modern College of Pharmacy, Yamunanagar, Nigdi										
Feedback analysis on curriculum from Teachers										
Academic Year 2022-23 ( M pharmacy- Pharmaceutical chemistry)										
	Teacher	Que.1	Que.2	Que.3	Que.4	Que.5	Que.6	Que.7	Que.8	Que.9
1	DR.PALLAVI M.PATIL	3	2	3	2	2	3	2	3	2
2	DR.SHAILAJA JADHAV	3	3	3	3	3	3	3	3	3
3	DR.A.S. TAPKIR	3	3	3	3	3	3	3	3	3
4	DR.A.R. BALAP	3	3	3	3	3	2	3	3	2
	Average	3	2.75	3	2.75	2.75	2.75	2.75	3	2.5

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Percent response on curriculum feedback from Teachers M.Pharm (Pharmaceutics)

Sr. no.	Parameters	3: Substantial (High)	2: Moderate (Medium)	1: Slight (Low)
1.	Scope of curriculum with respect to Scientific knowledge	100	0	0
2.	Clarity of learning objective & technical application to achieve need of the Student	80	20	0
3.	Does the curriculum meet the needs of developing potent researchers?	80	20	0
4.	Does Magnitude of curriculum develops practical skills of formulation and development in students	100	0	0
5.	Student involvement in an active learning with of development & evaluation of new formulation.	80	20	0
6.	Relevance of subject to meet current industrial standards	80	20	0
7.	Relevance of subject to accomplish stated mission	80	20	0
8.	Does the curriculum inculcate pharmaceutical ethics and promote professional identity in students?	100	0	0
9.	Benefits of curriculum content to the society & environment to maintain sustainability	60	40	0



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Chairman, Business Council

Percent response on curriculum feedback from Teachers M.Pharm (QAT)

Sr. no.	Parameters	3: Substantial (High)	2: Moderate (Medium)	1: Slight (Low)
1.	Scope of curriculum with respect to analytical knowledge & analytical reasoning in the student	100	0	0
2.	Clarity of learning objective to achieve need of the Student	100	0	0
3.	Does the curriculum meet the needs of developing good researchers?	75	25	0
4.	Magnitude of curriculum that develops planning & problem solving ability	100	0	0
5.	Student involvement in an active learning with handling of modern tools, follow GLP & documentation.	75	25	0
6.	Relevance of subject to meet current industrial standards	100	0	0
7.	Relevance of subject to accomplish stated mission	75	25	0
8.	Does the curriculum inculcate experimental ethics and promote professional identity in students?	100	0	0
9.	Benefits of curriculum content to the society & environment to maintain sustainability	100	0	0



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 Chairman, Business Council

Percent response on curriculum feedback from Teachers M.Pharm (Pharmacology)

Sr. no.	Parameters	3: Substantial (High)	2: Moderate (Medium)	1: Slight (Low)
1.	Scope of curriculum with respect to acquire knowledge of various drug classes and its MOA	100	0	0
2.	Clarity of learning objective to achieve need of the Student	100	0	0
3.	Does the curriculum meet the needs of developing good researchers?	100	0	0
4.	Magnitude of curriculum that develops planning & analytical reasoning in student	100	0	0
5.	Student involvement in an active learning with handling of animals, follow GLP & statistical analysis.	100	0	0
6.	Relevance of subject to meet current industrial standards	50	50	0
7.	Relevance of subject to accomplish stated mission	100	0	0
8.	Does the curriculum inculcate experimental ethics and promote professional identity in students?	100	0	0
9.	Benefits of curriculum content to the society & environment to maintain sustainability	100	0	0



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Percent response on curriculum feedback from Teachers M.Pharm (Pharmaceutical Chemistry)

Sr. no.	Parameters	3: Substantial (High)	2: Moderate (Medium)	1: Slight (Low)
1.	Scope of curriculum with respect to chemistry knowledge	100	0	0
2.	Clarity of learning objective to achieve need of the Student	75	25	0
3.	Does the curriculum meet the needs of developing potent researchers?	100	0	0
4.	Magnitude of curriculum that develops planning & problem solving ability	75	25	0
5.	Student involvement in an active learning with synthesise and designing of new molecule	75	25	0
6.	Relevance of subject to meet current industrial standards	75	25	0
7.	Relevance of subject to accomplish stated mission	75	25	0
8.	Does the curriculum inculcate experimental ethics and promote professional identity in students?	100	0	0
9.	Benefits of curriculum content to the society & environment to maintain sustainability	50	50	0



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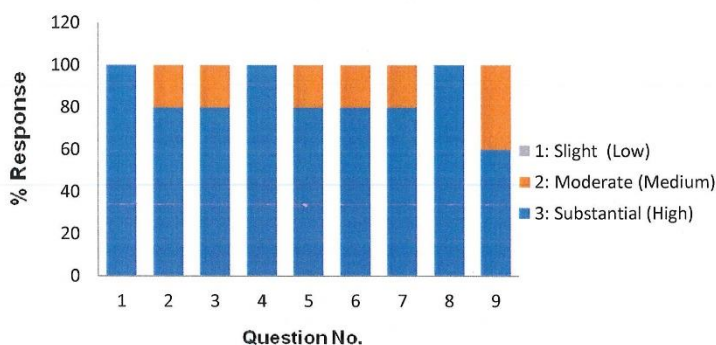
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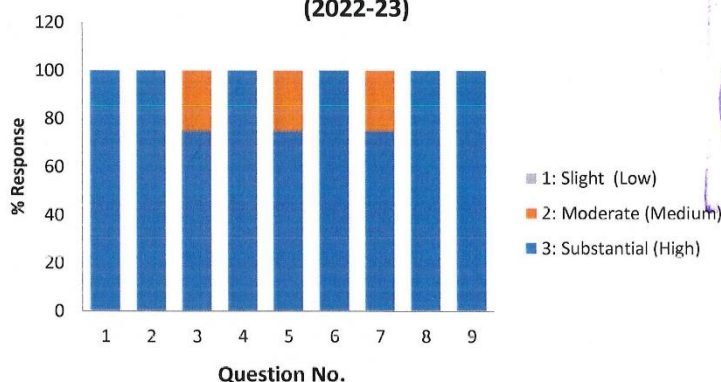
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**Feedback Analysis Graphical Representation  
(Pharmaceutics)  
(2022-23)**



**Feedback Analysis [Graphical Representation]  
(Quality Assurance Techniques)  
(2022-23)**



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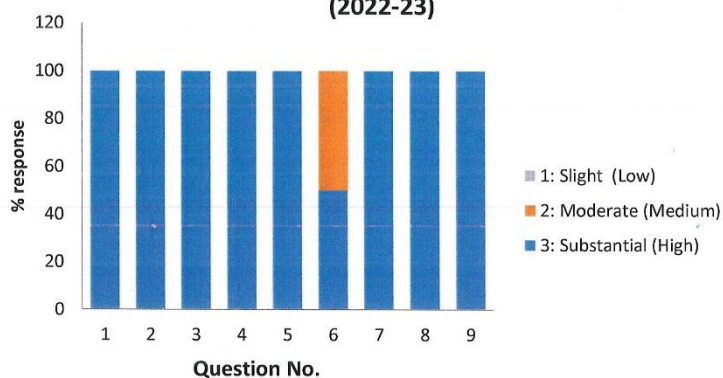
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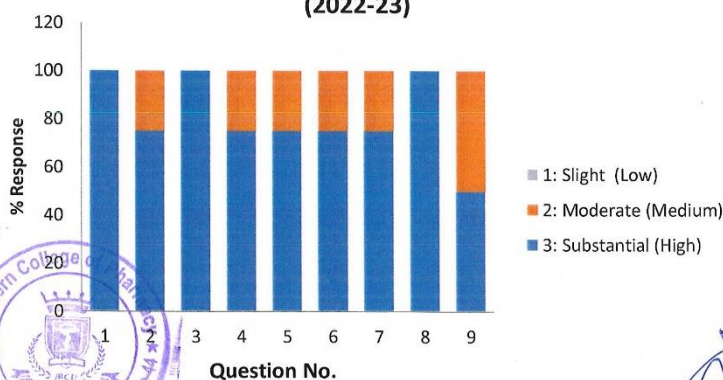
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**Feedback Analysis [Graphical Representation]  
(Pharmacology)  
(2022-23)**



**Feedback Analysis [Graphical Representation]  
(Pharmaceutical Chemistry)  
(2022-23)**



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Feedback Analysis Report  
On  
Curriculum by Teachers  
(Pharm. D.)  
A.Y. 2022-23



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**Feedback Analysis on Curriculum by Pharm. D Teachers**  
**(Academic Year 2022-23)**

P. E. S. Modern College of Pharmacy, Yamunanagar, Nigdi									
Feedback analysis on curriculum from Teachers									
Academic Year 2022-23 ( PHARM D)									
	Teacher	Que. 1	Que. 2	Que. 3	Que. 4	Que. 5	Que. 6	Que. 7	Que. 8
1	Dr. R.B. Mali	3	3	3	3	3	2	3	3
2	Dr. Mayuri Khaparde	2	2	3	2	3	3	2	3
3	Surbhi Chandrashekhar Gupta	3	2	3	2	3	3	2	3
4	Dr. Rohini Chavan	3	3	3	2	2	3	2	3
5	Mr. Siddhartha R. Savdekar	3	3	3	2	3	3	3	3
6	Mrs. V. S. Bavdekar	3	3	3	2	3	3	2	3
7	Dr. Sangita A. Kale	3	3	3	3	3	3	3	3
8	Dr. Anjali Kumbhar	3	3	3	3	3	2	3	3
9	Mr. R. A. Jinturkar	3	3	3	2	3	3	3	3
	<b>Average</b>	<b>2.89</b>	<b>2.75</b>	<b>3.00</b>	<b>2.33</b>	<b>2.89</b>	<b>2.75</b>	<b>2.50</b>	<b>3.00</b>



*(Signature)*

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## Criteria 6: Governance, Leadership and Management



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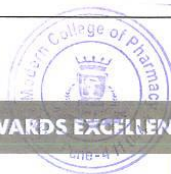
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### Percent Response on Curriculum Feedback from Teachers Pharm. D (2022-23)

Sr. no.	Parameters	3: Substantial (High)	2: Moderate (Medium)	1: Slight (Low)
1.	Scope of curriculum with respect to core knowledge & Skills developed in the student related to pharmacy practice	89	11	0
2.	Clarity of learning objective to achieve need of the patient centric care	78	22	0
3.	Does the syllabus helps to built problem solving and decision making power in students	100	0	0
4.	Does magnitude of curriculum develops Professionalism , patient health care, social and cultural awareness in student	33	67	0
5.	Student involvement in an active learning with respect to curriculum by practicing community pharmacy, patient care services; etc	89	11	0
6.	Relevance of subject to accomplish stated mission	78	22	0
7.	Does the curriculum inculcate pharmaceutical ethics and professionalism in students	56	44	0
8.	Benefits of curriculum content to the society & environment to maintain sustainability	100	0	0



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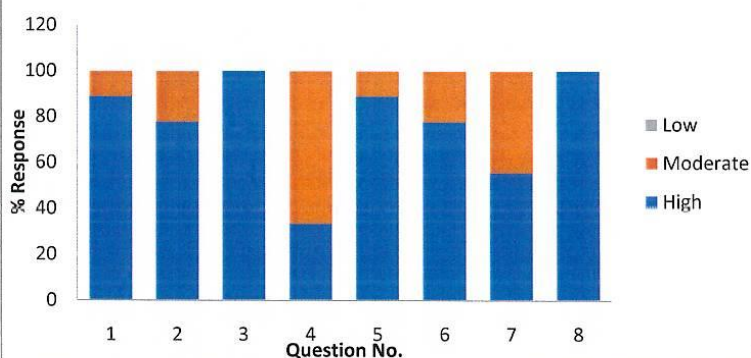
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Feedback Analysis [Pharm D] (2022-23)



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**Action Taken Report of Feedback Responses  
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(B. Pharm)**



## Criteria 6: Governance, Leadership and Management



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### Teachers Feedback Responses & Action Taken Report

The college collected feedback on B. Pharm & M. pharm curriculum from teachers. The feedback was analyzed and suggestions are forwarded to respective authority for necessary action.

Stakeholder (Teachers)	Feedback response	Action taken on curriculum response	Action taken by SPPU, Pune	Action taken by Institute
2018-19	Medicinal chemistry subject can be included in one more semester	Issue raised and communicated to BOS Chairman via letter reference no. mcop/lett/2018-19/464-1	NA	NA
2019-20	In F.Y.B.Pharm curriculum, a section on Latin terms should be included in the subject pharmaceuticals	Issue raised and communicated to BOS Chairman via letter reference no. mcop/lett/2019-20/442-2	NA	List of Latin words used in pharmacy provided to students.
	More instrument handling should be included in curriculum	Issue raised and communicated to BOS Chairman via letter reference no. mcop/lett/2019-20/442-1	NA	Students are provided project-based learning assignments by creating a working model.
	P.E. practical (S.Y.B Pharm)-2018 pattern: - Practical syllabus must be oriented towards actual handling of machines.	Issue raised and communicated to BOS Chairman via letter reference no. mcop/lett/2019-20/442-3	NA	
2020-21	Curriculum need to be upgraded as per the contemporary industrial demands	Issue raised and communicated to BOS Chairman via letter reference no. mcop/lett/2020-21/773-1	Industry oriented subjects added by SPPU in curriculum as a elective & compulsory subject	NA

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	Final year B.pharm, In AIT Subject, ESR chapter should be included.	Issue raised and communicated to BOS Chairman via letter reference no. mcop/lett/2020-21/773-2	NA	Interpretation in NMR and Mass Spectroscopy
	In curriculum, we need to introduce community pharmacy subject	Issue raised and communicated to BOS Chairman via letter reference no. mcop/lett/2020-21/773-3	NA	NA
2021-22	Topic that increases industrial institute interaction should be added.	Issue raised and communicated to BOS Chairman via letter reference no. mcop/lett/2021-22/799-1	One month industrial training is mandatory for students in their curriculum.	Industrial visit organized by institute for students (Omni Protect & Haffkin Biopharmaceuticals)
	There should be a complete subject on biostatistics	Issue raised and communicated to BOS Chairman via letter reference no. mcop/lett/2021-22/799-2	Biostatistics and research methodology as a compulsory subject included in B. Pharm Final year	NA
	Spectrophotometer analysis of phytoconstituents should be added in curriculum	Issue raised and communicated to BOS Chairman via letter reference no. mcop/lett/2021-22/799-3	Herbal drug technology theory & practical subject added in 2018 & 2019 pattern	NA
2022-23	Hospital / Industrial Related case study should be given to understand current scenario	Issue raised and communicated to BOS Chairman via letter reference no. mcop/lett/2022-23/369-5	NA	The institute intends to act on the proposals made in the coming academic year.

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More subject of pharmaceutical Analysis be should included in B pharm curriculum	Issue raised and communicated to BOS Chairman via letter reference no. mcp/lett/2022-23/369-4	NA	
Need to improve industry oriented syllabus & add industrial training program in curriculum	Issue raised and communicated to BOS Chairman via letter reference no. mcp/lett/2022-23/369-1	NA	
Enrichment of syllabus or curriculum should be done or implemented as per current scenario	Issue raised and communicated to BOS Chairman via letter reference no. mcp/lett/2022-23/369-2	NA	
S.Y.B.Pharm PP-I and PP-II should include topic diffusion and dissolution studies	Issue raised and communicated to BOS Chairman via letter reference no. mcp/lett/2022-23/369-3	NA	



  
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### Teachers (M. Pharm) Feedback Responses & Action Taken Report

The college collected feedback on B. Pharm & M. pharm curriculum from teachers. The feedback wear analyzed and suggestions are forwarded to respective authority for necessary action.

Stakeholder ( Teachers)	Feedback response (M. Pharm)	Action taken on curriculum response	Action taken by SPPU, Pune	Action taken by Institute
2018-19	Preclinical experiment related to metabolic disorder can be included practical's	Issue raised communicated to BOS Chairman via letter reference no. mcop/lett/2018-19/464-3	NA	NA
	Industrial collaborative mini project to be induced	Issue raised communicated to BOS Chairman via letter reference no. mcop/lett/2018-19/464-2	NA	Students performed mini projects in M. Pharm Sem II & sem III under their respective guides at institute level
2019-20	Practical reference book must be updated in syllabus	Issue raised communicated to BOS Chairman via letter reference no. mcop/lett/2019-20/442-4	NA	Reference book list provided by library to students.
	Need for a certificate course in six sigma	Issue raised communicated to BOS Chairman via letter reference no. mcop/lett/2019-20/442-6	NA	Certificate course on six sigma added by institute
	Audit & regulatory affair syllabus must be more oriented to actually practice of audit and documentation	Issue raised communicated to BOS Chairman via letter reference no. mcop/lett/2019-20/442-5	NA	Industrial visit organized for students at Vishwaconnect QAQC department & they demonstrated How to maintain documentation.

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2020-21	Students must get industrial experience about formulation scale up	Issue raised communicated to BOS Chairman via letter reference no. mcop/lett/2020-21/773-5	NA	Industrial visit organized for students at manufacturing & QAQC unit of callidus research lab.
	Overall guidelines of safety management in pharmaceutical industry must be included	Issue raised communicated to BOS Chairman via letter reference no. mcop/lett/2020-21/773-4	NA	Safety guidelines displayed in the every lab of the college.
2021-22	students must get practical experience on cosmetic formulation (Subject C&C)	Issue raised communicated to BOS Chairman via letter reference no. mcop/lett/2021-22/799-6	NA	Actual experience of formulation scale up was given to students through industrial visit of pacifflora.
	Demonstration should be there on safety & Hazardous management.	Issue raised communicated to BOS Chairman via letter reference no. mcop/lett/2021-22/799-5	NA	NA
	Actually training or atleast one visit of industry regarding fire safety	Issue raised communicated to BOS Chairman via letter reference no. mcop/lett/2021-22/799-1	NA	NA
	Need for hands on training of different statistical, formulation, analytical & computational software	Issue raised communicated to BOS Chairman via letter reference no. mcop/lett/2021-22/799-4	NA	Certificate course on statistical analysis system was organized for students.



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Chairman, Business Council

2022-23	Clarity of subtopic should be added in the syllabus	Issue raised communicated to BOS Chairman via letter reference no. mcp/lett/2022-23/369-6	NA	The institute intends to act on the proposals made in the coming academic year.
	Process automation for non-parenteral Formulation must be included	Issue raised communicated to BOS Chairman via letter reference no. mcp/lett/2022-23/369-7	NA	



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Action Taken Report of Feedback Responses  
on  
Curriculum by Teachers  
(Pharm. D.)



**Pharm D teachers**

Stakeholder	Feedback response	Action taken on curriculum response	Action taken by SPPU, Pune	Action taken by Institute
2019-20	Preliminary evaluation of pharmaceutical dosage in pharmaceutics should be included in practicals	Issue raised communicated to BOS Chairman via letter reference no. mcop/lett/2019-20/470-1	NA	Video demonstration was given to students
	Overall syllabus is good		NA	-
2020-21	In human and physiology subject physiology subject part should be in depth it helps for student	Issue raised communicated to BOS Chairman via letter reference no. mcop/lett/2020-21/797-2	NA	More emphasis on physiology given while teaching.
	Every subject have one topic of clinical applicability or relevance with respect to Pharm D		NA	NA
2021-22	Pharmaceutical analysis is very depth subject, not so much relevance with pharm D	Issue raised communicated to BOS Chairman via letter reference no. mcop/lett/2021-22/557-1	NA	NA
			NA	-
	Pharmacotherapeutics II syllabus is little more in 3 year		NA	NA
	Pharmaceutical organic chemistry syllabus needs to be shorter		NA	NA
	Overall syllabus help student to gain knowledge and		NA	NA
2022-23	Addition of microbial spoilage topic in microbiology	Issue raised communicated to BOS Chairman via letter reference no. mcop/lett/2022-23/368-1	NA	Information in the form of PPT was shared with students.
	Clerkship syllabus should be more specific regarding case collection		NA	The institute will take action on given feedback in upcoming academic year
	Therapeutics syllabus needs to have management of medication plans speciality wise for key systems		NA	
	Simulation models for practical of Biopharmaceutics		NA	
	Syllabus must be more project oriented		NA	



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**Feedback Related Communication to SPPU Authority  
(BOS chairman)  
(A.Y. 2022-23)**



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Ref: MCOP/Lett/2022-23/369-5

Date: 25/05/23

To,

Dr. Sohan Chitlange

BOS, Pharmaceutical Chemistry

Savitribai Phule Pune University, Pune

**Subject: Regarding feedback from faculty members about curriculum**

Respected Sir,

As per the feedback received from our faculty, following are the recommendation regarding the syllabus which needs to be improved into the B . pharm 2019 pattern.

1. Hospital / Industrial Related case study should be given to understand current scenario

Kindly request you to consider the above mentioned and hope for the positive responses in the forthcoming syllabus.

From

Dr. N. K. Kale

Pharmaceutical Chemistry Dept.

MCOP, Nigdi, Pune



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Chairman

Dr. (Mrs.) Bhagyashree Patil  
Vice Chairperson

Dr. Somnath Patil  
Secretary

Dr. Sohan Chitlange  
Principal

Ref. No. : DPO/Pharmacy/2023/127

Date : 07/06/2023

To,

Ms. Nikita K. Kale

Pharmaceutical Chemistry Dept.

MCOP, Nigdi, Pune

**Subject: Regarding feedback from faculty members about curriculum**

Respected Madam,

I would like to express my gratitude to you for your insightful advice on Hospital / Industrial Related case study should be given to understand current scenario.

I can promise you that your recommendation will be addressed in the future BOS Pharmaceutical chemistry meeting and that appropriate action will be taken at the faculty and academic council meeting of Savitribai Phule Pune University.

Thank you once again for your valuable suggestions.

From

Dr. Sohan Chitlange

BOS, Pharmaceutical Chemistry

Savitribai Phule Pune University, Pune



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**Mechanism 02: Attainment of Programme outcomes (POs) and course outcomes (COs)**

Attainment of Programme outcomes and course outcomes are evaluated by the institution. The course outcomes (COs) are prepared for each course (each subject) considering the curriculum given by the Pharmacy Council of India, Vision and Mission statement, PEO's and program outcomes envisaged by NBA. The POs are assigned to Average course outcomes of each course (subject) in each year/semester. Each PO was given in the context of the course details as high (3), moderate (2) and low (1) attainment levels. Such course outcomes are made average for each PO. The POs are assigned for each course, and then each PO is averaged on the scale of 1 to 3 (slight to high) and taken to prepare CO-PO matrix of courses of all years of study. The assessment is based on the performance of the students in internal and external examinations, seminars, performance in practical, assignment co-curricular and extracurricular activities.

Sample of CO-PO attainment is given below. CO-PO attainment for all subjects is in place.

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7/5/23, 10:53 AM

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**Progressive Education Society's Modern College of Pharmacy, Nigdi, Pune**

B. Pharmacy [2020-21]

**CO PO Desired Mapping Report**

Year : Second Year - Fourth Semester ( Div B)

Subject : Pharmacognosy and Phytochemistry-I - Theory

Faculty : Dr. Mohini Chetan Kuchekar

Course Code : BP405T

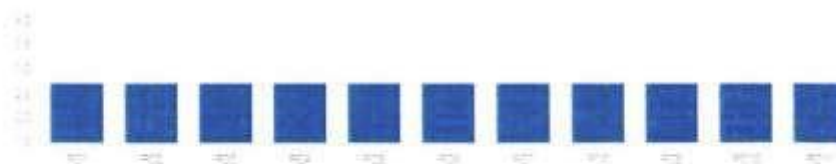
**Course Outcome Details**

#	Course Outcome	Description
1	BP 405 CO1	Summarize the basic knowledge of importance and scope of pharmacognosy and phytochemistry-I in pharmacy field and its role in various systems of medicine.
2	BP 405 CO2	Apply knowledge of pharmacognostic study and quality control of crude drugs
3	BP 405 CO3	Describe biological source, chemical nature, properties, identification test and uses of crude drugs as well as plant products of natural origin (Primary and secondary metabolites).
4	BP 405 CO4	Classify crude drugs and explain importance of cultivation, collection, processing, evaluation, preservation and storage of drugs of natural origin as well as plant tissue culture.

**Desired Attainment Details**

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BP 405 CO1	3	3	3	3	3	3	3	3	3	2	3
BP 405 CO2	3	3	3	3	3	3	3	3	3	3	3
BP 405 CO3	2	2	2	2	2	2	2	2	2	3	2
BP 405 CO4	3	3	3	3	3	3	3	3	3	3	3
Average	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75

Desired Attainment Average : 2.75


<https://portal.vmedulife.com/faculty/Outcome/COPODesiredMapping.php?value=eyJnaWQOJE5NzEainR5cGUICU0aVvbmhECjZmJjZC3N...> 1/1


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**Progressive Education Society's Modern College of Pharmacy, Nigdi, Pune**

**Pharmacognosy and Phytochemistry-I Theory (2020-21) [Dr. Mohini Chaitan Kachkar]**

**Internal Assessment**

Title	Type	% Weightage	BP 405 CO1	BP 405 CO2	BP 405 CO3	BP 405 CO4
Continuous Placement Marks out of 10 Pharmacognosy and Phytochemistry-I	Internal	40	1.20	1.20	1.20	1.20
Semester I Pharmacognosy and Phytochemistry-I	Internal	30	0.90	0.90	0.90	0.90
Semester II Pharmacognosy and Phytochemistry-I	Internal	30	0.90	0.90	0.90	0.90
Percent course outcome weightage			100.00	100.00	100.00	100.00
Attainment at per percent weightage			3.00	3.00	3.00	3.00
Final attainment			3	3	3	3

**External Assessment**

Title	Type	% Weightage	BP 405 CO1	BP 405 CO2	BP 405 CO3	BP 405 CO4
External Pharmacognosy and Phytochemistry-I	External	100	3.00	3.00	3.00	3.00
Percent course outcome weightage			100.00	100.00	100.00	100.00
Attainment at per percent weightage			3	3	3	3
Final attainment			3	3	3	3

**Direct Total Attainment**

Course Outcome	Internal	External
BP 405 CO1	3.00	3.00
BP 405 CO2	3.00	3.00
BP 405 CO3	3.00	3.00
BP 405 CO4	3.00	3.00
Average	3.00	3.00
Weightage	25	75
Direct Total Attainment	6.75	2.25
Final Direct Course Attainment		3.00

**Final Attainment**

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Final Attainment	3.75	3.75	3.75	3.75	3.75	3.75	3.75	4.75	4.75	100.00	2.75
Percentage	91.67	91.67	91.67	91.67	91.67	91.67	91.67	91.67	91.67	100.00	91.67



  
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### The activities strongly institutionalized and showing incremental growth

Due to the constant efforts of IQAC the following best practices amongst many, have been strongly institutionalized. The timely inputs, directions and reviews of IQAC are evident in incremental growth of institution during last five years.

#### Activity 01: Problem Solving Learning Initiatives

**Objective:** To improve critical thinking, interpretation, evaluation, analytical and problem solving skills among students.

**IQAC Initiative:** Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences and teachers also use ICT-enabled tools including online resources for effective teaching and learning process. Teaching-learning is a pivot of quality education and the faculty play a pivotal role to enhance and sustain the process of teaching-learning. College is poised to adopt futuristic learning with relevance to the ever-changing landscape of pharmacy education.

Initiatives for problem solving learning are given here. Research projects are mandated as per syllabus for postgraduate students of all courses at various settings like Industry, academic institutes, research institutes, hospital and community settings and are completed by students of all departments yearly with submission of thesis after stringent scrutiny and evaluation by all responsible authorities. Also undergraduate students are encouraged to conduct research projects in all kinds of settings under the guidance of competent guides and submit their reports timely at the end of the year. Case studies are provided to improve critical thinking, creativity and problem solving skills among students and are asked to prepare evaluation notes after interpretation of the cases and submit the report. Students are encouraged for participation and completion of other value added courses like NPTEL which is run by the college as a local chapter. All undergraduate and postgraduate students are motivated for publishing their results of researches completed in competent and quality journals and also going ahead with copyright and patents as applicable. Due to these types of approaches the learners are attracted to new challenges and can solve problems intuitively. This learning process also involves conceiving new ideas, evaluation, analysis, interpretation, generalization and conceptualization. Following is the summary of outcomes as a result of Problem Solving Learning Initiatives. The data is incremental.



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### Summary of Research Projects completed by undergraduate students (Last 5 Years)

S. No.	Academic Year	No. of Research Projects completed by	
		Undergraduate students	Postgraduate students
1	2022-2023	48	60
2	2021-2022	38	39
3	2020-2021	13	36
4	2019-2020	15	35
5	2018-2019	06	34

### Data of NPTEL Courses Completed by Students (Last 5 Years)

A.Y. 2022-23			
S. No.	Name of Course	No. of Students Enrolled	No. of Students Completed
1	NPTEL Course on Introduction to Research	22	22
2	NPTEL Course on Intellectual Property Rights and Competition Law	11	11
A.Y. 2021-22			
1	NPTEL Course on CURRENT REGULATORY REQUIREMENTS FOR CONDUCTING CLINICAL TRIALS IN INDIA FOR INVESTIGATIONAL NEW DRUGS/NEW DRUG (VERSION 3.0)	13	13
2	NPTEL Course on Intellectual Personality	15	15
A.Y. 2020-21			



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**No Enrolment due to COVID Pandemic**

**A.Y. 2019-2020**

1	NPTEL Course on Roadmap on Patent Creation	8	8
2	NPTEL Course on Soft skills and Personality	12	12

**A.Y. 2018-19**

1	NPTEL Course on Six Sigma	9	9
2	NPTEL Course on English Language for competitive exams	1	1
3	NPTEL Course on Medicinal Chemistry	6	6
4	NPTEL Course on Better Spoken English	1	1
5	NPTEL Course on Stress Management	1	1
6	NPTEL Course on Biomedical Nanotechnology	2	2



*[Signature]*  
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### Fifth Year Pharm. D. Hospital Projects Details -2022-23

Grp No.	Name of the Students	Title of the Study	Name and Details of the Principal Investigator	Name and Details of the Guides	Department (DMH) for Conducting Study
1.	Ms. Pratiksha Bhoite Mr. Swapnil Ghatule Mr. Atharva Nanday Mr. Sumeet Udawant	Study of Onset Time, Risk Factors, and Prescription Pattern in Patients with Stroke.	Dr. Rahul Kulkarni; M.B.B.S. M.D. (Medicine), D.M. (Neurology), D.N.B (Neurology), FAAN  Department of Neurology, DMHRC	Dr. Rajani Mali Pharm. D.  Assistant Professor Department of Doctor of Pharmacy, Modern College of Pharmacy.	Department of Neurology, DMHRC, Pune.
2.	Ms. Aparna Awhad Ms. Divya Hagawane Ms. Muskan Radhanpura Mr. Pranav Yelamkar	Assessment of Anti-Microbial agent usage pattern as per the given susceptibility testing report.	Dr. Ashwini Joshi, Consultant, M.B.B.S.D.N.B. (Medicine), CCEBDM D.N.B. (Medicine)  Department of General Medicine, DMHRC	Dr. Mayuri Khaparde  Pharm. D. Assistant Professor  Department of Pharmacy Practice, Modern College of Pharmacy.	Department of General Medicine, DMHRC, Pune.
3.	Ms. Rachita Ranasubhe Mr. Sanket Talegaonkar Ms. Saloni Yadav Ms. Jagruti Yenpure	To study incidence, cost analysis and drug utilization pattern of anticoagulants in patient with VTE.	Dr. Narendra Javadekar ;M.B.B.S.M.D.(Medicine), D.N.B.(Medicine), M.A.(Economics)  Department of General Medicine, DMHRC	Dr. Rajani Mali Pharm. D. Assistant Professor  Department of Pharmacy Practice, Modern College of Pharmacy.	Department of General Medicine, DMHRC, Pune.
4.	Ms. Shweta Kendre Mr. Shiva Khanal Ms. Pranali Mahajan Ms. Shraddha Nachane	Assessment of drugs dose adjustment in chronic kidney disease patients in tertiary care hospital.	Dr. Atul Mulay M.B.B.S.  M.D., (Medicine), D.N.B. (Nephrology),  M.Sc. (Epidemiology),  Department of Nephrology, DMHRC, Pune	Dr. Rohini Chavan  Pharm. D. Assistant Professor  Department of Pharmacy Practice, Modern College of Pharmacy.	Department of Nephrology, DMHRC, Pune.



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## Criteria 6: Governance, Leadership and Management



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5.	Ms. Sukshamta Balure  Mr. Satyawar Kumbhar  Mr. Akash Mahamuni  Ms. Sujata Thokal	To design, develop and validate the screening tool for minimizing prescription error in neonates.	Dr. Shilpa Kalane;  M.B.B.S., D.N.B (Pediatrics), Dr. N. B. (Neonatology),  Department of Neonatology, DMHRC, Pune	Dr. Mayuri Khaparde  Pharm. D. Assistant Professor Department of Pharmacy Practice,	Department of Neonatology, DMHRC, Pune.
6.	Ms. Vaishnavi Deshmukh  Mr. Gaurav Memane  Ms. Vaishnavi Panchariya  Mr. Vedant Patil	Design, development and validation of screening tool for IV medications incompatibility in neonates.	Dr. Shilpa Kalane;  M.B.B.S., D.N.B (Pediatrics), Dr.N.B. (Neonatology),  Department of Neonatology, DMHRC, Pune	Dr. Sunita Pawar  M. Pharm (Pharmacy Practice), PhD  Associate Professor, Head of Department of Pharmacy Practice, Modern College of Pharmacy.	Department of Neonatology, DMHRC, Pune.
7.	Ms. Vaishnavi Chavan  Mr. Harshal Jadhav  Ms. Pranali Kumbhar  Mr. Shubham Shewale	To evaluate the drug utilization and analysis of antiepileptic drugs at tertiary care hospital	Dr. Rahul Kulkarni; M.B.B.S. M.D. (Medicine ), D.M. (Neurology), D.N.B (Neurology), FAAN  Department of Neurology, DMHRC	Dr. Anjali Kumbhar  Pharm. D.  Assistant Professor Department of Pharmacy Practice, Modern College of Pharmacy.	Department of Neurology, DMHRC, Pune.
8.	Mr. Nitesh Agrawal Ms. Shruti Akhade Mr. Shubham Kudale Ms. Ashwini Vare	Development Of The Mobile Application For Digital Literacy Related To Cardiovascular Risk Factors In Sociological Factors.	Mr. Nitesh Agrawal Ms. Shruti Akhade Mr. Shubham Kudale Ms. Ashwini Vare	Mr. Siddhartha Savdekar  M. Pharm (Pharmacy Practice)  Assistant Professor Department of Pharmacy Practice, Modern College of Pharmacy.	Community Health Organisations
9.	Mr. Abhishek Khaire Ms. Esha Patel Ms. Sumedha Savane	Assessment of drug related problems among cervical cancer patients.	Dr. Asma Pathan M.B.B.S M.D. ( Medical Oncologist)	Dr. Anjali Kumbhar  Pharm. D.  Assistant Professor Department of	Department of Oncology  Indrayani Hospital and Cancer

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### **Activity 02- Strengthening of research activities**

#### **Objectives:**

- i. To sustain in innovative research and
- ii. To strengthen patentable research

#### **IQAC Initiatives:**

Various initiatives have been taken by IQAC with regards to research and development. The faculty members are encouraged to carry out various research activities and design major and minor projects for submission to funding agencies like Savitribai Phule Pune University (SPPU), UGC, DST, SERB, AICTE etc. The faculty and students have been motivated to publish their research work in quality peer reviewed creditable journals and present research papers in national and international conferences. The faculty members are encouraged to publish many books and book chapters on various subjects and publish many research/review articles in renowned journals. To enhance research, there are policies viz 1) Incentives policy and 2) Policy for attending seminar/conference/workshop/MOOC courses. Faculty have applied for research funds and are sanctioned and received from various funding agencies. Innovation and incubation center was established in the college as per norms of Savitribai Phule Pune University, Pune. Poster/Oral Presentations, Publications, Journal Club Activity for PG Students are significant. Trainingsessions on sophisticated instruments are organized by the institute. MOU/Collaboration for research, Seminars, Webinars, FDP, STTP are attended by faculty and students. Guest lectures have been organized. Advance equipment purchases like HPLC (Shimadzu, quaternary) helped to enhance the quality of research of Ph. D. scholars and post graduate students. Awards for Innovation has been won by Institution/Teachers/Research scholars/Students. As a result, college has published significant patents on their research work. Thus, research activity is incremental.



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The incremental growth in Research and Development is evidenced on the basis of following parameters

S. No.	Parameter	Before accreditation of NAAC	After accreditation of NAAC
1	Research grant sanctioned Rs	INR 5410000 Total no of projects: 18 Major Projects Sanctioned: 02 Minor Projects Sanctioned: 16	INR 23520048 Total no of projects: 46 Major Projects Sanctioned: 06 Minor Projects Sanctioned: 40
2	Research publications	Total publications: 354	Total publications: 689
3	Intellectual Property Rights (IPRs)	Filed 02 research patents	i) Research and design patents granted: 10 ii) Research patents filed and published: 49 iii) Design patents filed: 10 iv) Copyrights filed and registered: 21
4	Ph. D awarded	Nil	20

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