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Academic Year 2022-2023

Vision Mission **Programe Educational Objectives (PEOs) Program Outcomes** (POs) **Course Outcomes** (COs)

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# RUBRIC DEVELOPED TO VALIDATE PROGRAM OUTCOMES (POS)

- Pharmacy Knowledge.
- O Planning Ability.
- O Problem Analysis.
- O Modern Tool Usage.
- O Leadership Skills.
- O Professional Identity.
- O Pharmaceutical Ethics.
- Communication.
- O Pharmacist and Society.
- Environment and Sustainability.
- O Lifelong Learning.

#### **Course outcomes (COs)**

- O COs are statements that describe what students should be able to do at the end of a course. They can be 6 for courses with 2 to 4 credits.
- **O** The course outcomes are prepared for each subject in the B. Pharmacy program after giving due consideration to the syllabus prescribed by the SGBAU, Amravati

#### **CO-PO MATRICES OF COURSES SELECTED**

The course outcomes are mapped with each program outcome; for each subject in the B. Pharmacy program. The rubrics for CO-PO mapping are defined as follows.

Course code/ Course title	Course outcomes							
	The student should able to							
	CO1: Understand basic knowledge about cell and tissue of the body							
	CO2: understand anatomy and physiology of skin							
BP 101 T:Human Anatomy And	CO3: understand how our body skeleton is made and its complexity with physiology							
Physiology- I ;B Pharm Sem I; (Year: 2021-22)	CO4: understand components of haemopoietic system and its significance in body and its relation to diseases							
	CO5: get concept related to peripheral nervous system and its functioning							
	CO6: understand anatomy and physiology of cardiovascular system and get aware about diseases occurs in it,							

Sr.	Program	Correl	ation levels1, 2 or 3, as defined below	:
No	Outcomes	3: Substantial (High)	2: Moderate (Medium)	1: Slight (Low)
1	Pharmacy	Knowledge in the field of pharmacyand allied	Knowledge in the field of Pharmacy.	Knowledge in the field ofallied subjects
1	Knowledge	subjects of life sciences.		of life Sciences.
	Planning	Ability of understanding, andoffer remedial	Ability of understanding the Scenario	Ability of learning the scenarioin
2	Ability	solutions inPharmaceutical Industries, Health	inpharmaceutical industries, health	pharmaceutical industries, health
		sectors.	sectors.	sectors.
	Problem	Ability to conduct, analyze and understand	Ability to conduct the scientific data of	Ability to understand the scientific data
	Analysis	the scientific data of pharmaceutical	pharmaceutical industries in area of	of pharmaceutical industries in area of
3		industries in area of Manufacturing, Quality	Manufacturing, Quality control, Quality	Manufacturing, Quality control, Quality
		control, Quality Assurance, Marking	Assurance, Marking Management and	Assurance, Marking Management and
		Management and Clinical Research.	Clinical Research.	Clinical Research.
	Modern Tool	Ability to learn, select and apply appropriate	Ability to learn, select and apply	Ability to learn and select appropriate
	Usage	procedure, resources in the area of	appropriate procedure, resources in the	procedure, resources in the area of
4		Manufacturing, Marketing and Quality control.	area of Manufacturing, Marketing and	Manufacturing, Marketing and Quality
		The graduate students will implement newly	Quality control.	control.
		implemented software to solve the problems		
		in the above areas.		

	Leadership	Ability to understand and consider the human	Ability to understand the leadership and	Ability to learn the leadership and team
	Skills	reply , leadership and team building as and	team building as and when the planning	building, required for accomplishment in
		when the planning changes which is required	change which is required for	the area of Manufacturing, Marketing
5		for accomplishment in the area of	accomplishment in the area of	and Quality control and Assurance,
		Manufacturing, Marketing and Quality control	Manufacturing, Marketing and Quality	practice, professional and societal
		and Assurance, practice , professional and	control and Assurance, practice,	responsibilities.
		societal responsibilities.	professional and societal responsibilities.	
6	Professional	Understand, analyze and communicate the	Understand and analyze the value of	Understand the value of their
	Identity	value of their professional roles in society.	their professional roles in society.	professional roles in society.
7	Pharmaceutical	Maintain the high professional identity and	Understand professional identity so that	Learn about professional identity
	Ethics	render the services in the society as per the	they can render the services in the	required to render the services in the
		ethics and moral value given in Pharmacy	society as per the ethics and moral value	society as per the ethics and moral
		oath and pharmaceutical jurisprudence	given in Pharmacy oath and	value given in Pharmacy oath and
			pharmaceutical jurisprudence	pharmaceutical jurisprudence
8	Communication	Communicate the policies of the industries,	Understand the policies of the industries,	Learn the policies of the industries,
		academic and healthcare departments to the	academic and healthcare departments in	academic and healthcare departments.
		society through effective communication	order to communicate to the society.	
		through verbal and written.		
9	Pharmacist and	Apply reasoning informed appropriate	Understand reasoning and appropriate	Learn reasoning and appropriate
	Society	knowledge to improve the drug safety and	knowledge required to improve the drug	knowledge required to improve the drug
		action through patient counseling.	safety and action through patient	safety and action through patient
			counseling.	counseling.

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10	Environment	Understand and communicate the importance	Understand	the	importance	of Learn the	impor	tance of	profe	essional
	and	of professional pharmacy practice solutions in	professional ph	armacy	practice solution	spharmacy	practio	e solutio	ns in	society
	Sustainability	society and environment issues.	in society and e	environm	nent issues.	and enviro	nment	issues.		
11	Lifelong	Confidence for self education and ability for	Motivated for	self edu	cation and abili	y Understan	d the	importa	ince	of self
	learning	lifelong learning.	for lifelong lear	ning.		education	and	ability	for	lifelong
						learning.				

If there is no correlation, put '-'

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### **MAPPING OF CO-PO OF COURSES SELECTED**

		% attainment of PO											
Sr. No	Program Outcomes		(2022- 3)		Ym1 3-24)		Ym2 4-25)	CAYm3	_	CAYm4 (	2026-27)	Average	% Average
		Scale of 3	Out of 100%	Scale of 3	Out of 100%	Scale of 3	Out of 100%	Scale of 3	Out of 100%	Scale of 3	Out of 100%	scale of 3	attainment
1	Pharmacy Knowledge	2.4	80.42									2.4	80.42
2	Planning Ability	1.6	51.67									1.6	51.67
3	Problem Analysis	1.6	52.17									1.6	52.17
4	Modern Tool Usage	1.6	54.07									1.6	54.07
5	Leadership Skills	1.6	51.71									1.6	51.71
6	Professional Identity	1.6	53.51									1.6	53.51
7	Pharmaceutical Ethics	1.5	50.52									1.5	50.52

8	Communication	1.6	52.56					1.6	52.56
9	Pharmacist and Society	1.8	60.23					1.8	60.23
10	Environment and Sustainability	1.5	50.22					1.5	50.22
11	Lifelong learning	2.2	73.20					2.2	73.20

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**MAPPING OF CO-PO OF COURSES B.Pharmacy** 

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# RUBRIC DEVELOPED TO VALIDATE PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

#### **Program Educational Objectives (PEOs)**

- **O PEO 1:**To provide comprehensive knowledge of fundamental principles and their applications in the area of Pharmaceutical Sciences and Technology.
- **O PEO 2:**To produce pharmacy students with strong fundamental concepts and high technical competence.
- **O PEO 3:**To introduce discipline, professionalism, team spirit, communication skills, social and ethical commitment to the students.
- **O PEO 4:**To train the students to contribute towards the health care system and creating awareness about healthcare issues.

#### **Program outcomes (POs)**

- 1. Pharmacy Knowledge.
- 2. Planning Ability.
- 3. Problem Analysis.
- 4. Modern Tool Usage.
- 5. Leadership Skills.
- 6. Professional Identity.
- 7. Pharmaceutical Ethics.
- 8. Communication.
- 9. Pharmacist and Society.
- 10. Environment and Sustainability.
- 11. Lifelong learning.

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#### PO-PEO MATRICES OF COURSES SELECTED

The program outcomes are mapped with each program educational objective. The rubrics for PO-PEO mapping are defined as follows.

Sr. No	Program Educational Objectives	Correla	ition levels1, 2 or 3, as defi	ined below:
		3: Substantial (High)	2: Moderate (Medium)	1: Slight (Low)
1	<b>PEO 1:</b> To provide comprehensive knowledge of fundamental principles and their applications in the area of Pharmaceutical Sciences and Technology.	The graduate should have: Excellent pharmacy knowledge with planning ability, problem analysis using modern toolsand demonstrate lifelong learning attitude.	The graduate should have: Goodpharmacy knowledge with planning ability, problem analysis using modern tools and demonstrate lifelong learning attitude.	The graduate should have: Pharmacy knowledge with planning ability, problem analysis using modern tools and demonstrate lifelong learning attitude.
2	PEO 2:To produce pharmacy students with strong fundamental concepts and high technical competence.	The graduate should have: Excellent planning abilitywith problem analysis,effective communication and show concern aboutenvironment and sustainability with lifelong learning approach.	The graduate should have: Good planning abilitywith problem analysis,effective communication and show concern aboutenvironment and sustainability with lifelong learning approach.	The graduate should have: Planning abilitywith problem analysis, effective communication and show concern aboutenvironment and sustainability with lifelong learning approach.

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3	•	introduce discipline, team spirit, communication ethical commitment to the	The graduate should have: Excellentleadership skills, professional identity with pharmaceutical ethics and	The graduate should have: Goodleadership skills, professional identity withpharmaceutical ethics	The graduate should have: Leadership skills, professional identity withpharmaceutical ethics and
	students.		effectivecommunication.	and effectivecommunication.	effectivecommunication.
4	PEO 4:To train	the students to contribute	The graduate should have:	The graduate should have:	The graduate should have:
	towards the heal	th care system and creating	Excellent pharmacy	Good pharmacy	Pharmacy knowledge,
	awareness about l		knowledge, leadership Skills, pharmaceutical	knowledge, leadership Skills, pharmaceutical	leadership Skills, pharmaceutical ethics with
			ethics with communication	ethics with communication	communication skill and know
			skill and know	skill and know	responsibility of pharmacist
			responsibility of	responsibility of	towards Society.
			pharmacist towards	pharmacist towards	
			Society.	Society.	

If there is no correlation, put '-'

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#### **MAPPING OF PO-PEOs**

							% Attai	inment o	of PEO				
Sr. No	Program Educational Objectives (PEOs)	CAY (20	)22-23)		1 (2023- 24)	CAYm2	-		′ (2025- 6)		(2026- 7)	Average	% Average
		Scale of 3	Out of 100%	Scale of 3	Out of 100%	Scale of 3	Out of 100%	Scale of 3	Out of 100%	Scale of 3	Out of 100%	attainment in scale of 3	attainment
1	<b>PEO 1:</b> To provide comprehensive knowledge of fundamental principles and their applications in the area of Pharmaceutical Sciences and Technology.	1.00	62.306									1.88	62.306

2	<b>PEO 2:</b> To produce pharmacy students with strong fundamental concepts and high technical competence.	57.4					1.75	57.4
3	<b>PEO 3:</b> To introduce discipline, professionalism, team spirit, communication skills, social and ethical commitment to the students.	52.075					1.575	52.075
4	<b>PEO 4:</b> To train the students to contribute towards the health care system and creating awareness about healthcare issues.	59.088					1.78	59.088

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# RUBRIC DEVELOPED TO VALIDATE CONSISTENCY OF PEOS WITH MISSION OF INSTITUTE

#### **Mission**

- O High-quality technical education and training methodologies, M1: To conduct high quality educational and training activities using state of the art facilities, so as to produce qualified and competent pharmacists of National standards.
- O Foster the spirit of research and innovation, M2: To lengthenknowledge with academia, industry and society by participating in scientific activities, research and awareness program.
- O Foster the spirit of entrepreneurship, M3: To apply knowledgegained from other institutions, industry and societyto establish as an entrepreneur.
- O Contribute to the profession and society, M4: To upgrade and exchange existing knowledge by deputing students, faculty and staff to attend educational/scientific/social events, trainings and program conducted by the institutions, industry and society.

#### **Program Educational Objectives (PEOs)**

- **O PEO 1:**To provide comprehensive knowledge of fundamental principles and their applications in the area of Pharmaceutical Sciences and Technology.
- **O PEO 2:**To produce pharmacy students with strong fundamental concepts and high technical competence.
- **O PEO 3:**To introduce discipline, professionalism, team spirit, communication skills, social and ethical commitment to the students.
- **O PEO 4:**To train the students to contribute towards the health care system and creating awareness about healthcare issues.

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#### RUBRIC DEVELOPED TO VALIDATE CONSISTENCY OF PEOS WITH MISSION OF INSTITUTE

Sr. No	Mission Highlights	Correlation levels1, 2 or 3	3, as defined below:	
		3: Substantial (High)	2: Moderate (Medium)	1: Slight (Low)
1	High-quality technical education and	Institute should	Instituteshould	Instituteshould demonstrate
	training methodologies, M1: To conduct high	demonstrate outstanding	demonstrate	comprehensive knowledge of
	quality educational and training activities using	comprehensive knowledge	goodcomprehensive	fundamental principles and
	state of the art facilities, so as to produce	of fundamental principles	knowledge of fundamental	their applications in the area of
	qualified and competent pharmacists of National	and their applications in	principles and their	Pharmaceutical Sciences and
	standards.	the area of Pharmaceutical	applications in the area of	Technology.
		Sciences and Technology.	Pharmaceutical Sciences	
			and Technology.	
2	Foster the spirit of research and innovation,	Instituteshould	Institute should	Institute should demonstrate
	M2: To lengthenknowledge with academia,	demonstrate outstanding	demonstrate	performance of graduates with
	industry and society by participating in scientific	performance of graduates	goodperformance of	strong fundamental concepts
	activities, research and awareness program.	with strong fundamental	graduates with strong	and high technical
		concepts and high	fundamental concepts and	competence.
		technical competence.	high technical	
			competence.	
3	Foster the spirit of entrepreneurship, M3: To	Institute should	Institute should	Institute should demonstrate
	apply knowledgegained from other institutions,	demonstrate outstanding	demonstrate good	discipline, professionalism,
	industry and societyto establish as an	discipline, professionalism,	discipline, professionalism,	team spirit, communication

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	entrepreneur.	team spirit,	team spirit,	skills, social and ethical
		communication skills,	communication skills,	commitment to the students.
		social and ethical	social and ethical	
		commitment to the	commitment to the	
		students.	students.	
4	Contribute to the profession and society,	Institute should	Institute should	Institute should demonstrate
	M4: To upgrade and exchange existing	demonstrate conduction of	demonstrate conduction of	conduction oftraining activities
	knowledge by deputing students, faculty and	outstanding training	good training activities for	for students to contribute
	staff to attend educational/scientific/social	activities for students to	students to contribute	towards the health care
	events, trainings and program conducted by the	contribute towards the	towards the health care	system and creating
	institutions, industry and society.	health care system and	system and creating	awareness about healthcare
		creating awareness about	awareness about	issues.
		healthcare issues	healthcare issues	

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### **MAPPING OF PEOs-Mission**

		2022-23		2023-24		2024-25		2025-26		2026-27		Total At	tainment
		Scale of 3	% Attainme nt	Scale of 3	% Attainment	Scale of 3	% Attainment	Scale of	% Attainmen t	Scale of 3	% Attainme nt	Average Attainment in scale of 3	% Average Attainment
M 1 M 2	PEO 1	1.88	62.31									1.88	62.31
	PEO 2	1.75	57.40									1.75	57.40
	PEO 3	1.58	52.08									1.58	52.08
	Average	1.74	57.26									1.74	57.26
	PEO 1	1.88	62.31									1.88	62.31
	PEO 2	1.75	57.40									1.75	57.40
	PEO 4	1.78	59.09									1.78	59.09
	Average	1.80	59.60									1.80	59.60
	PEO 1	1.88	62.31									1.88	62.31
M 3	PEO 3	1.58	52.08									1.58	52.08
	PEO 4	1.78	59.09									1.78	59.09
	Average	1.75	57.82									1.75	57.82
M	PEO 2	1.75	57.40									1.75	57.40

4	PEO 3	1.58	52.08					1.58	52.08
	PEO 4	1.78	59.09					1.78	59.09
	Average	1.70	56.19					1.70	56.19