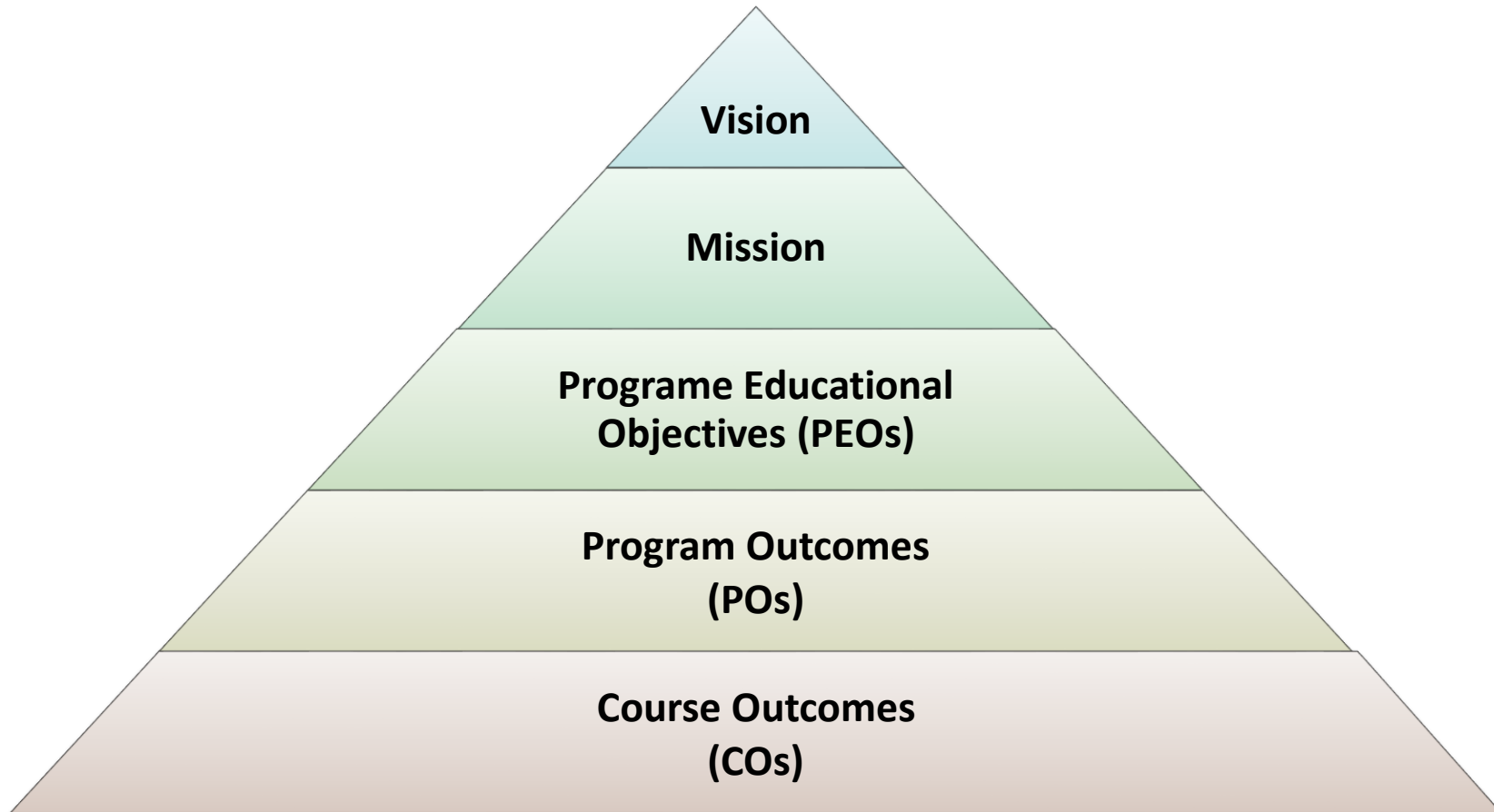


2.6.2 Attainment of Cos and POs for B. Pharmacy

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RUBRIC DEVELOPED TO VALIDATE PROGRAM

OUTCOMES (POs)

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

Course outcomes (COs)

- 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.
- 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
BP 101 T:Human Anatomy And Physiology- I ;B Pharm Sem I; (Year: 2021-22)	The student should able to
	CO1: Understand basic knowledge about cell and tissue of the body
	CO2: understand anatomy and physiology of skin
	CO3: understand how our body skeleton is made and its complexity with physiology
	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,	

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

2.6.2 Attainment of Cos and POs for B. Pharmacy

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

2.6.2 Attainment of Cos and POs for B. Pharmacy

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10	Environment and Sustainability	Understand and communicate the importance of professional pharmacy practice solutions in society and environment issues.	Understand the importance of professional pharmacy practice solutions in society and environment issues.	Learn the importance of professional pharmacy practice solutions in society and environment issues.
11	Lifelong learning	Confidence for self education and ability for lifelong learning.	Motivated for self education and ability for lifelong learning.	Understand the importance of self education and ability for lifelong learning.

If there is no correlation, put '-'

2.6.2 Attainment of Cos and POs for B. Pharmacy

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MAPPING OF CO-PO OF COURSES SELECTED

Sr. No	Program Outcomes	% attainment of PO											
		CAY (2022-23)		CAYm1 (2023-24)		CAYm2 (2024-25)		CAYm3 (2025-26)		CAYm4 (2026-27)		Average attainment in scale of 3	% Average attainment
		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%		
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

2.6.2 Attainment of Cos and POs for B. Pharmacy

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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

2.6.2 Attainment of Cos and POs for B. Pharmacy

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MAPPING OF CO-PO OF COURSES B.Pharmacy

2.6.2 Attainment of Cos and POs for B. Pharmacy

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Academic Year 2022-2023

RUBRIC DEVELOPED TO VALIDATE PROGRAM EDUCATIONAL OBJECTIVES(PEOS)

Program Educational Objectives (PEOs)

- **PEO 1:**To provide comprehensive knowledge of fundamental principles and their applications in the area of Pharmaceutical Sciences and Technology.
- **PEO 2:**To produce pharmacy students with strong fundamental concepts and high technical competence.
- **PEO 3:**To introduce discipline, professionalism, team spirit, communication skills, social and ethical commitment to the students.
- **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.

2.6.2 Attainment of Cos and POs for B. Pharmacy

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Academic Year 2022-2023**

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	Correlation levels 1, 2 or 3, as defined below:		
		3: Substantial (High)	2: Moderate (Medium)	1: Slight (Low)
1	PEO 1: 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 tools and demonstrate lifelong learning attitude.	The graduate should have: Good pharmacy 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 ability with problem analysis, effective communication and show concern about environment and sustainability with lifelong learning approach.	The graduate should have: Good planning ability with problem analysis, effective communication and show concern about environment and sustainability with lifelong learning approach.	The graduate should have: Planning ability with problem analysis, effective communication and show concern about environment and sustainability with lifelong learning approach.

2.6.2 Attainment of Cos and POs for B. Pharmacy

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3	PEO 3: To introduce discipline, professionalism, team spirit, communication skills, social and ethical commitment to the students.	The graduate should have: Excellent leadership skills, professional identity with pharmaceutical ethics and effective communication.	The graduate should have: Good leadership skills, professional identity with pharmaceutical ethics and effective communication.	The graduate should have: Leadership skills, professional identity with pharmaceutical ethics and effective communication.
4	PEO 4: To train the students to contribute towards the health care system and creating awareness about healthcare issues.	The graduate should have: Excellent pharmacy knowledge, leadership Skills, pharmaceutical ethics with communication skill and know responsibility of pharmacist towards Society.	The graduate should have: Good pharmacy knowledge, leadership Skills, pharmaceutical ethics with communication skill and know responsibility of pharmacist towards Society.	The graduate should have: Pharmacy knowledge, leadership Skills, pharmaceutical ethics with communication skill and know responsibility of pharmacist towards Society.

If there is no correlation, put '-'

2.6.2 Attainment of Cos and POs for B. Pharmacy

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MAPPING OF PO-PEOs

Sr. No	Program Educational Objectives (PEOs)	% Attainment of PEO											
		CAY (2022-23)		CAYm1 (2023-24)		CAYm2 (2024-25)		Cam3Y (2025-26)		CAYm4 (2026-27)		Average attainment in scale of 3	% Average attainment
		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%		
1	PEO 1: To provide comprehensive knowledge of fundamental principles and their applications in the area of Pharmaceutical Sciences and Technology.	1.88	62.306									1.88	62.306

2.6.2 Attainment of Cos and POs for B. Pharmacy

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RUBRIC DEVELOPED TO VALIDATE CONSISTENCY OF PEOs WITH MISSION OF INSTITUTE

Mission

- **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.
- **Foster the spirit of research and innovation, M2:** To lengthen knowledge with academia, industry and society by participating in scientific activities, research and awareness program.
- **Foster the spirit of entrepreneurship, M3:** To apply knowledge gained from other institutions, industry and society to establish as an entrepreneur.
- **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)

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

2.6.2 Attainment of Cos and POs for B. Pharmacy

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RUBRIC DEVELOPED TO VALIDATE CONSISTENCY OF PEOs WITH MISSION OF INSTITUTE

Sr. No	Mission Highlights	Correlation levels 1, 2 or 3, as defined below:		
		3: Substantial (High)	2: Moderate (Medium)	1: Slight (Low)
1	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.	Institute should demonstrate outstanding comprehensive knowledge of fundamental principles and their applications in the area of Pharmaceutical Sciences and Technology.	Institute should demonstrate good comprehensive knowledge of fundamental principles and their applications in the area of Pharmaceutical Sciences and Technology.	Institute should demonstrate comprehensive knowledge of fundamental principles and their applications in the area of Pharmaceutical Sciences and Technology.
2	Foster the spirit of research and innovation, M2: To lengthen knowledge with academia, industry and society by participating in scientific activities, research and awareness program.	Institute should demonstrate outstanding performance of graduates with strong fundamental concepts and high technical competence.	Institute should demonstrate good performance of graduates with strong fundamental concepts and high technical competence.	Institute should demonstrate performance of graduates with strong fundamental concepts and high technical competence.
3	Foster the spirit of entrepreneurship, M3: To apply knowledge gained from other institutions, industry and society to establish as an	Institute should demonstrate outstanding discipline, professionalism,	Institute should demonstrate good discipline, professionalism,	Institute should demonstrate discipline, professionalism, team spirit, communication

2.6.2 Attainment of Cos and POs for B. Pharmacy

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	entrepreneur.	team spirit, communication skills, social and ethical commitment to the students.	team spirit, communication skills, social and ethical commitment to the students.	skills, social and ethical commitment to the students.
4	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.	Institute should demonstrate conduction of outstanding training activities for students to contribute towards the health care system and creating awareness about healthcare issues	Institute should demonstrate conduction of good training activities for students to contribute towards the health care system and creating awareness about healthcare issues	Institute should demonstrate conduction of training activities for students to contribute towards the health care system and creating awareness about healthcare issues.

If there is no correlation, put '-'

2.6.2 Attainment of Cos and POs for B. Pharmacy

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MAPPING OF PEOs-Mission

		2022-23		2023-24		2024-25		2025-26		2026-27		Total Attainment	
		Scale of 3	% Attainment	Scale of 3	% Attainment	Scale of 3	% Attainment	Scale of 3	% Attainment	Scale of 3	% Attainment	Average Attainment in scale of 3	% Average Attainment
M 1	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
M 2	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
M 3	PEO 1	1.88	62.31									1.88	62.31
	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

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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

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