

2.6.2: Attainment of programme outcomes and course outcomes are evaluated by the institution

SUMMARY

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VISION, MISSION OF THE INSTITUTION

VISION:

To become a center of excellence in pharmaceutical education, training, research and continuous professional development of pharmacists in rural India.

MISSION:

1. Our mission is to introduce excellence in Pharmacy education through quality education, infrastructure and learning resources to meet the needs of students in pursuit of knowledge.
2. To develop, promote and nurture research activities in pharmaceutical sciences
3. To make professionally competent and ethical pharmacists of international standard to cater the needs of rural to global healthcare.

GOALS:

1. To educate and train pharmacists to cater for the needs of society.
2. To promote use of indigenous resources for pharmacy industry.
3. To create excellent research center at college to provide many innovative research methods to develop Institute-Industrial linkages.
4. To develop consortium for consultancy service in education, training, health care with reference to pharmacy profession.
5. To increase the global linkages by attracting international scientific forums for collaborative educational programmes.



DEFINITIONS

COURSE OUTCOME

They are the resultant knowledge skills the student acquires at the end of a **course**. It defines the cognitive processes a **course** provides.

PROGRAM OUTCOME

Program outcomes describe what students are expected to know and would be able to do by the time of graduation. These relate to the skills, knowledge, and behaviors that students acquire as they progress through the program.

PROGRAM EDUCATIONAL OBJECTIVES

Program educational objectives are broad statements that describe the career and professional accomplishments that the program is preparing graduates to achieve.

PROGRAM SPECIFIC OUTCOMES

Program Specific Outcomes are statements that describe what the Pharmacy graduates should be able to do.



STATEMENT OF PROGRAM EDUCATIONAL OBJECTIVES

PEO1	PROFESSIONAL DEVELOPMENT	To develop in the students the ability to acquire knowledge of various operations and skills required in the field of Pharmacy. Also to analyze and communicate the skills, values of their professional roles in society.
PEO2	CORE PROFICIENCY	To develop in the students the ability to design a system, component or process to meet desired needs within realistic constraints such as economic, environmental, sustainability social, ethical, health, safety and manufacturability for humans.
PEO3	TECHNICAL ACCOMPLISHMENTS	To equip the students with the ability to operate, control, analyze and evaluate chemical substances and finished products as well as processes within permissible limits.
PEO4	PROFESSIONALISM	To provide training, exposure and awareness on importance of life skills for better career and holistic personality development.
PEO5	LEARNING ENVIRONMENT	To provide students with an holistic environment which shall motivate them to develop urge for research, creativity, leadership, team building within the boundaries of professional ethics and develop in them a zest for lifelong learning on their path to become successful Pharma professionals.



STATEMENT OF PROGRAM SPECIFIC OUTCOMES

PSO1	To build graduate to excel in technical or professional careers in various pharmaceutical industry and/ or institute and /or Health care system through rigorous education. Also analyze and communicate the skills, values of their professional roles in society.
PSO2	To learn, select, apply appropriate methods, procedures, resources and modern pharmacy-related computing tools with an understanding of the limitations.
PSO3	To operate, control, analyze and evaluate chemical substances and finished products also processes within permissible limits.
PSO4	To design a system, component or process to meet desired needs within realistic constraints such as economic, environmental, sustainability social, ethical, health, safety and manufacturability for humans.



STATEMENT OF PROGRAM OUTCOME, PROGRAM SPECIFIC OUTCOMES, PROGRAM EDUCATIONAL OBJECTIVES

PO1	PHARMACY KNOWLEDGE	Possess knowledge and comprehension of the core and basic knowledge associated with the profession of pharmacy, including biomedical sciences; pharmaceutical sciences; behavioral, social, and administrative pharmacy sciences; and manufacturing practices.
PO2	PLANNING ABILITIES	Demonstrate effective planning abilities including time management, resource management, delegation skills and organizational skills. Develop and implement plans and organize work to meet deadlines.
PO3	PROBLEM ANALYSIS	Utilize the principles of scientific enquiry, thinking analytically, clearly and critically, while solving problems and making decisions during daily practice. Find, analyze, evaluate and apply information systematically and shall make defensible decisions.
PO4	MODERN TOOL USAGE	Learn, select, and apply appropriate methods and procedures, resources, and modern pharmacy-related computing tools with an understanding of the limitations.
PO5	LEADERSHIP SKILLS	Understand and consider the human reaction to change, motivation issues, leadership and team-building when planning changes required for fulfillment of practice, professional and societal responsibilities. Assume participatory roles as responsible citizens or leadership roles when appropriate to facilitate improvement in health and well-being.
PO6	PROFESSIONAL IDENTITY	Understand, analyze and communicate the value of their professional roles in society (e.g. health care professionals, promoters of health, educators, managers, employers, employees).



PO7	PHARMACEUTICAL ETHICS	Honour personal values and apply ethical principles in professional and social contexts. Demonstrate behavior that recognizes cultural and personal variability in values, communication and lifestyles. Use ethical frameworks; apply ethical principles while making decisions and take responsibility for the outcomes associated with the decisions.
PO8	COMMUNICATION	Communicate effectively with the pharmacy community and with society at large, such as, being able to comprehend and write effective reports, make effective presentations and documentation, and give and receive clear instructions.
PO9	THE PHARMACIST AND SOCIETY	Apply reasoning informed by the contextual knowledge to assess societal, health, safety and legal issues and the consequent responsibilities relevant to the professional pharmacy practice.
PO10	ENVIRONMENT & SUSTAINABILITY	Understand the impact of the professional pharmacy solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
PO11	LIFE LONG LEARNING	Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change. Self- assess and use feedback effectively from others to identify learning needs and to satisfy these needs on an ongoing basis.



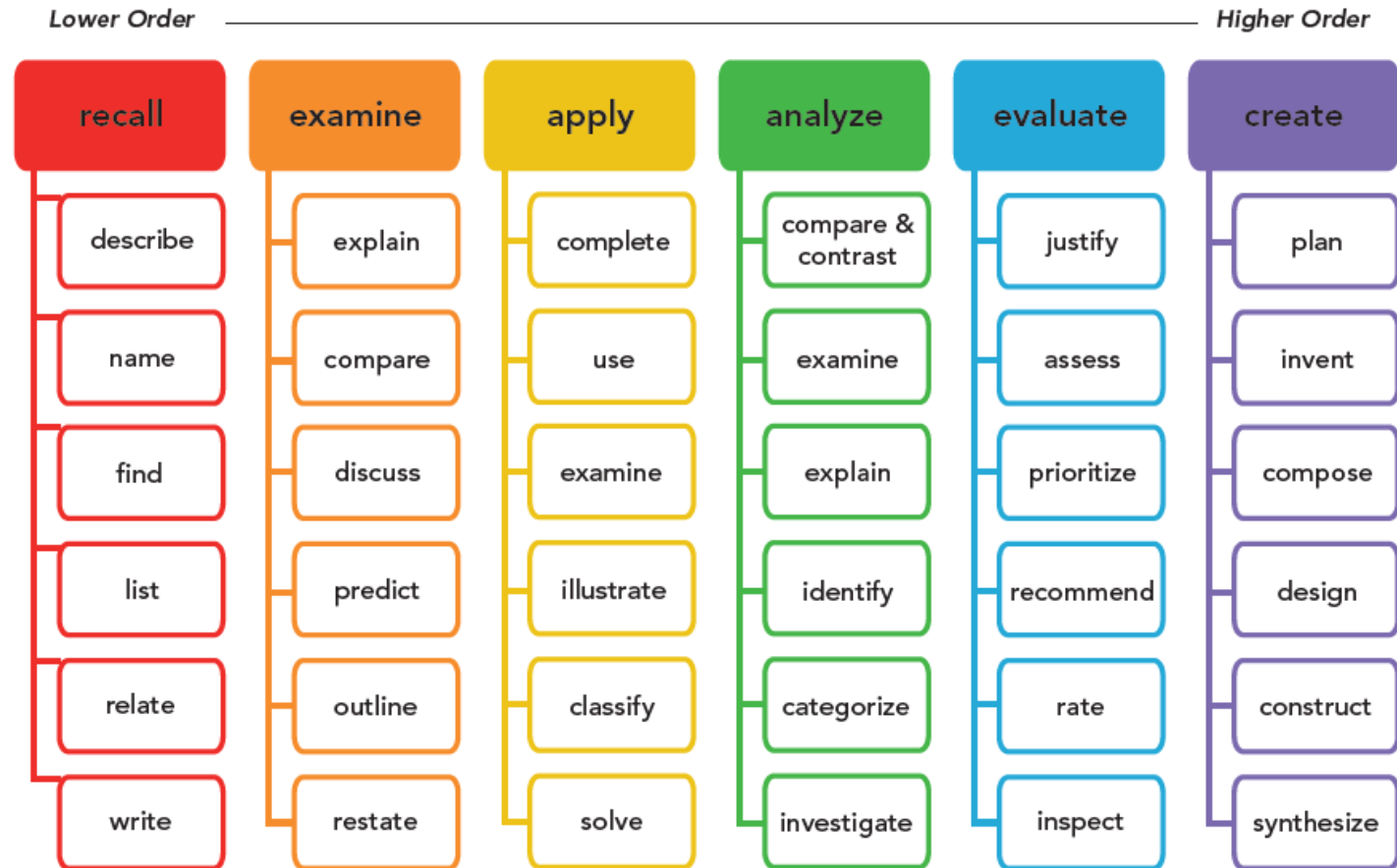
BLOOMS TAXONOMY AS AN TOOL FOR DEFINING COURSE OUTCOME

Bloom's Taxonomy was created by Benjamin Bloom in 1956, published as a kind of classification of learning outcomes and objectives that have, in the more than half-century since, been used for everything from framing digital tasks and evaluating apps to writing questions and assessments.

The original sequence of cognitive skills was Knowledge, Comprehension, Application, Analysis, Synthesis, and Evaluation. The framework was revised in 2001 by Lorin Anderson and David Krathwohl, yielding the revised Bloom's Taxonomy. The most significant change was the removal of 'Synthesis' and the addition of 'Creation' as the highest-level of Bloom's Taxonomy. And being at the highest level, the implication is that it's the most complex or demanding cognitive skill—or at least represents a kind of pinnacle for cognitive tasks.



Generating LOs using *Bloom's Cognitive Taxonomy* (adapted 2019)



Retrieved from <http://maasd.edublogs.org/2012/26/linking-ipads-blooms-taxonomy/>



First year B Pharm 2018 pattern

Sr.No	Name of subject	Subject Code	CA 1			CA2		Internal 1		Internal 2		External	
			Total Number of students	Number of students scoring more than 60%	Level of attainment	Number of students scoring more than 60%	Level of attainment	Number of students scoring more than 60%	Level of attainment	Number of students scoring more than 60%	Level of attainment	Number of students scoring more than 60%	Level of attainment
1	Human Anatomy and Physiology I	BP101T	60	57	3	55	3	49	3	51	3	26	0
2	Pharmaceutical Analysis-I	BP 102T	60	49	3	56	3	59	3	58	3	36	2
3	Pharmaceutics I	BP 103T	60	56	3	56	3	51	3	48	3	44	3
4	Pharmaceutical Inorganic Chemistry	BP 104T	60	60	3	60	3	50	3	50	3	45	3
5	Communication Skills	BP105T	60	58	3	55	3	55	3	51	3	53	3
6	Human Anatomy and Physiology II	BP201T	59	31	1	57	3	37	2	52	3	34	2
7	Pharmaceutical Organic Chemistry I	BP 202 T	59	59	3	59	3	44	3	45	3	44	2
8	Pharmaceutical Biochemistry	BP203T	59	58	3	58	3	58	3	56	3	51	3
9	Pathophysiology	BP204T	59	58	3	56	3	57	3	55	3	46	2



Second Year B.Pharm (2015 PATTERN)

Sr. No	Name of subject	Subject Code	CA 1			CA2		Internal		External	
			Total Number of students	Number of students scoring more than 60%	Level of attainment	Number of students scoring more than 60%	Level of attainment	Number of students scoring more than 60%	Level of attainment	Number of students scoring more than 60%	Level of attainment
1	Physical Pharmaceutics-I	2.3.1T	62	32	1	62	3	33	1	5	0
2	Pharmaceutical Microbiology	2.3.2T	62	46	3	54	3	52	3	37	1
3	Pharmaceutical Biochemistry	2.3.3T	62	52	3	61	3	38	2	16	0
4	Pharmaceutical organic chemistry III	2.3.4T	62	51	3	61	3	38	2	16	0
5	Pharmacology I	2.3.5.T	62	49	3	57	3	43	2	53	3
6	Pharmacognosy and Phytochemistry I	2.3.6T	62	53	3	40	2	58	3	58	3
7	Physical Pharmaceutics-II	2.4.1T	62	62	3	62	3	62	3	22	0
8	Pathophysiology and Clinical Biochemistry	2.4.2T	62	59	3	61	3	42	3	59	3
9	Pharmaceutical organic chemistry IV	2.4.3T	62	44	3	62	3	51	3	42	2
10	Pharmaceutical Analysis-II	2.4.4T	62	57	3	62	3	42	2	26	0
11	Pharmacognosy and Phytochemistry I	2.4.5T	62	59	3	58	3	59	3	58	3
12	Pharmaceutical Engineering	2.4.6T	62	52	3	46	3	58	3	19	0



Third Year B.Pharm (2015 PATTERN)

Sr.No	Name of subject	Subject Code	Total Number of students	CA 1		CA2		Internal		External	
				Number of students scoring more than 60%	Level of attainment	Number of students scoring more than 60%	Level of attainment	Number of students scoring more than 60%	Level of attainment	Number of students scoring more than 60%	Level of attainment
1	Industrial Pharmacy-I	3.5.1T	63	51	3	59	3	57	3	19	0
2	Pharmaceutical Analysis III	3.5.2T	63	53	3	59	3	60	3	13	0
3	Medicinal Chemistry- I	3.5.3T	63	57	3	64	3	63	3	41	2
4	Pharmacology II	3.5.4T	63	58	3	63	3	41	2	19	0
5	Analytical Pharmacognosy and Extraction Technology	3.5.5T	63	61	3	62	3	51	3	41	2
6	Pharmaceutical Business Management and	3.5.6T	63	36	2	63	3	60	3	19	0



	Disaster Management											
7	Active Pharmaceutical Ingredient Technology	3.5.7T	63	57	3	63	3	59	3	36	1	
8	Industrial Pharmacy-II	3.6.1T	63	63	3	63	3	62	3	16	0	
9	Pharmaceutical Analysis IV	3.6.2T	63	61	3	62	3	59	3	23	0	
10	Medicinal Chemistry-II	3.6.3T	63	63	3	63	3	63	3	60	3	
11	Pharmacology III	3.6.4T	63	62	3	63	3	63	3	42	2	
12	Natural product chemistry	3.6.5T	63	50	3	39	2	49	3	45	3	
13	Bioorganic Chemistry and Drug Design	3.6.6T	63	59	3	63	3	62	3	32	1	
14	Pharmaceutical Biotechnology	3.6.7T	63	49	3	63	3	51	3	55	3	



Fourth Year B.Pharm (2015 PATTERN)

Sr.No	Name of subject	Subject Code	Total Number of students	CA 1		CA2		Internal		External	
				Number of students scoring more than 60%	Level of attainment	Number of students scoring more than 60%	Level of attainment	Number of students scoring more than 60%	Level of attainment	Number of students scoring more than 60%	Level of attainment
1	Sterile Produc	4.7.1T	63	60	3	61	3	61	3	38	1
2	Pharmaceutical Analysis –V	4.7.2T	63	59	3	61	3	60	3	55	3
3	Medicinal Chemistry –III	4.7.3T	63	59	3	61	3	59	3	30	1
4	Pharmacology IV	4.7.4T	63	60	3	63	3	63	42	56	3
5	Natural Drug Technology	4.7.5T	63	57	3	62	3	60	3	59	3
6	Biopharmaceutics and Pharmacokinetics	4.7.6T	63	62	3	62	3	51	3	41	2

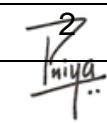


7	Pharmaceutical Jurisprudence	4.7.7T	63	62	3	62	3	61	3	40	2
8	Advanced Drug Delivery System	4.8.1T	63	59	3	63	3	61	3	17	0
9	Cosmetic Science	4.8.2T	63	63	3	63	3	61	3	60	3
10	Pharmaceutical Analysis –VI	4.8.3T	63	59	3	63	3	62	3	46	2
11	Medicinal Chemistry –III	4.8.4T	63	59	3	61	3	59	3	30	1
12	Pharmacology V (Including Biostatistics)	4.8.5T	63	63	3	63	3	63	3	63	3
13	Natural product commerce industry and Regulations	4.8.6T	63	55	3	62	3	62	3	51	3
14	Quality Assurance Technique	4.8.7T	63	63	3	63	3	63	3	49	3



First Year M.Pharm

Sr.No	Name of subject	Subject Code	Total Number of students	Internal		External	
				Number of students scoring more than 60%	Level of attainment	Number of students scoring more than 60%	Level of attainment
PHARMACEUTICAL CHEMISTRY							
1	Modern Pharmaceutical Analytical Techniques	MPC101T	44	44	3	12	0
2	Advance Organic Chemistry I	MPC102T	14	14	3	2	0
3	Advanced Medicinal Chemistry	MPC 103 T	14	14	3	7	1
4	Chemistry of Natural Products	MPC104T	14	14	3	3	0
5	Advanced Spectral Analysis	MPC201T	14	14	3	3	0
6	Advanced Organic Chemistry-I	MPC 202 T	14	14	3	9	2
7	Computer Aided Drug Design	MPC 203 T	14	14	3	12	3
8	Pharmaceutical process chemistry	MPC 204T	14	14	3	10	3
QUALITY ASSURANCE TECHNIQUE							
9	Quality Management System	MQA102T	15	15	3	6	1
10	Quality Control and Quality Assurance	MQA103T	15	15	3	5	1
11	Product Development and Technology Transfer	MQA104T	15	15	3	7	1
12	Hazards and Safety Management	MQA201T	15	15	3	10	



13	Pharmaceutical Validation	MQA202T	15	15	3	8	1
14	Audits and Regulatory Compliance	MQA203T	15	15	3	6	0
15	Pharmaceutical Manufacturing Technology	MQA204T	15	15	3	3	0
PHARMACOGNOSY							
16	Advanced Pharmacognosy-I	MPG10 2T	15	15	3	12	3
17	Pharmacognosy &Phytochemistry	MPG103T	15	15	3	10	2
18	Industrial Pharmacognostical Technology	MPG104T	15	15	3	14	3
19	Medicinal Plant biotechnology	MPG201T	15	13	3	7	0
20	Advanced Pharmacognosy II	MPG202T	15	15	3	0	0
21	Indian System of Medicine	MPG203T	15	15	3	13	3
22	Herbal Cosmetics	MPG204T	15	15	3	10	2

