College of Dentistry & Pharmacy

Program:	Doctor of Pharmacy (Pharm D)
Document:	Study Plan

Buraydah Colleges, P.O. Box 31717 | Buraydah 51418 | Kingdom of Saudi Arabia
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A. Program Identification and General Information

1. Program Main Location: Buraydah, Qassim
2. Branches Offering the Program: NA
3. Reasons for Establishing the Program: (Economic, social, cultural, and technological reasons, and national needs and development, etc.)
There is a large wealth of Literature that support the valuable role of clinical pharmacists with such degree in improving patient care, minimizing drug adverse outcomes, and reducing health expenditure. In addition, Pharm D holders had demonstrated a positive impact on improving patient education and knowledge of marketing and advertising the medications in industrial pharmacy.
4. Total Credit Hours for Completing the Program: 197 hrs.
5. Professional Occupations/Jobs:
Pharmacist in: Hospital, Education, Community, and Regulation
6. Major Tracks/Pathways (if any)**:** NA

B. Mission, Goals, and Learning Outcomes

1. Program Mission:
The Pharm D Program is committed to offer high quality education to its students and provide community services in different professional pharmacy settings.
2. Program Goals:
• Graduate high-quality clinical pharmacist. • Enabling the best teaching and learning practice. • Improvement of research outcomes. • Fostering community services.
3. Relationship between Program Mission and Goals and the Mission and Goals of the Institution/College.
The mission and goals of the Doctor of Pharmacy (PharmD) program are consistent with the mission and goals of BPC and the college. There is an alignment between mission and goals of BPS program with that of the institutional mission and goals as well as that for the college. **Program Mission:** The Pharm D Program is committed to offer high quality education to its students and provide community services in different professional pharmacy settings. **BPC Mission:** The colleges provide university education that meets the needs of the labor market and contributes effectively and permanently to achieving comprehensive development in the Kingdom by adhering to international standards of excellence in the fields of education, research, community service, and the integration of individuals, technology, business systems, and human capital development.
4. Graduate Attributes:
• The ability to apply “knowledge, critical thinking and problem-solving skills” in pharmacy practice. • The ability to employ “effective communication skills” in dealing with individuals and health care providers. • The ability to demonstrate “professionalism” in the workplace in accordance with values and code of ethics. • The ability to possess “leadership and management skills” across different responsibilities in pharmacy practice. • The ability to engage in "independent and life-long learning" from experiences to enhance continuous professional development. • The ability to provide patient-centered care by prioritizing individual needs, preferences, to optimize health outcomes and ensure safe and effective therapy. • The ability to apply evidence-based treatment strategies by integrating the best available evidence in making therapeutic decisions.

5.Program learning Outcomes*	
Knowledge and Understanding	
K1	Demonstrate in depth and breadth knowledge in essential biomedical, pharmaceutical, social/behavioral/administrative, and clinical sciences related to development and use of medications, natural remedies, and other therapies for the prevention and treatment of diseases.
K2	Demonstrate knowledge of drug physicochemical and biological properties to inform decisions regarding drug development, dosage, and administration in pharmacy settings.
K3	Describe the role of pharmacists according to legal, ethical, and professional standards in health promotion.
Skills	
S1	Deliver evidence-based patient-centered care that is ethical and culturally sensitive to patient's needs.
S2	Critically evaluate scientific literature to be effectively applied in evidence-based practice, conducting research and complex problem-solving.
S3	Apply appropriate research methods including pharmaceutical, phytochemical, medicinal, pharmacological, and clinical techniques to effectively solve scientific and practice-related problems.
S4	Communicate effectively with healthcare professionals, patients, and the public in various settings.
S5	Operate within a quality and management framework in pharmacy settings while educating patients or caregivers on the proper use of disease management and monitoring.
S6	Apply general and pharmacy-specific technologies and mathematical skills to optimize the medication use system.
S7	Demonstrate proficient fine and gross motor skills as measured by the successful performance of laboratory and technical tasks related to pharmacy practice.
Values	
V1	Collaborate and actively engage as an integral member of the interprofessional healthcare team showcasing effective leadership skills, a strong sense of responsibility and accountability in various settings
V2	Demonstrate integrity, self-awareness, and potential of entrepreneurship and professional development in various settings.

C. Progarm Curriculum Structure

Program Structure	Required/ Elective	No. of courses	Credit Hours	Percentage
Institution Requirements	Required	10	27	13.7%
	Elective	0	0	0%
College Requirements	Required	5	14	7.1%
	Elective	0	0	0%
Program Requirements	Required	52	114	57.87%
	Elective	2	4	2%
Capstone Course/Project	Required	1	3	1.5%
Field Experience/	Required	3	5	2.5%
Internship/Residency year	Required	5	15	7.6%
	Elective	5	15	7.6%
Others		0	0	0%
Total		**83**	**197**	**100%**

D. Program Study Plan (Pharm D)

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Type of requirements (Institution, College or Department)
Level 1	CS 140	Computer Skills	Required		3	College
	ENG 100	English (1)	Required		8	Institution
	MATHM140	Mathematics 1	Required		2	Program
	SCS140	Communication Skills	Required		2	College
Level 2	STAT 124	Biostatistics	Required		2	College
	BIOL 111	General Biology	Required		3	College
	PHYS 115	General Physics	Required		3	College
	CHEM 113	General chemistry	Required		3	College
	PHT 102	Pharmaceutical Terminology	Required		2	Program
	ENG 145	English for Health Purposes	Required		3	College
Level 3	IC101	Introduction to Islamic Culture	Required		2	Institution
	ARB 101	Linguistic Skills	Required		2	Institution
	PHT 201	Pharmaceutics-I	Required	Level 1 and 2	3 (2+1)	Program
	PHL 201	Biochemistry-I	Required		2(2+0)	Program
	PHSL 115	Principles of Physiology	Required		3 (3+0)	College
	PHC 201	Pharmaceutical Organic Chemistry	Required		3 (2+1)	Program
	ANAT 114	Principles of Anatomy	Required		3 (2+1)	College
	IC102	Islam and Community Building	Required	IC 101	2	Institution

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Type of requirements (Institution, College or Department)
Level 4	PHT 202	Pharmaceutical Microbiology	Required	Level 1 and 2	3 (2+1)	Program
	PHL 204	Biochemistry-II	Required	PHL 201	2 (2+0)	Program
	PHL 205	Physiology-II	Required	PHSL 115	2 (2+0)	Program
	PHC 202	Pharmaceutical Analytical Chemistry	Required	Level 1 and 2	3 (2+1)	Program
	TR 201	Pharmacy Training-I	Required	Level 1 and 2	1 (0+1)	Program
	PHC 203	Medicinal Chemistry I	Required	PHC 201	2 (2+0)	Program
Level 5	IC103	Economic System in Islam	Required	IC 102	2	Institution
	PHT 301	Pharmaceutics-II	Required	Level 3	3 (2+1)	Program
	PHT 302	Immunology	Required	Level 3 PHL 204	2 (2+0)	Program
	PHG 301	Pharmacognosy-I	Required	Level 3	3 (2+1)	Program
	PHL 301	Pharmacology-I	Required	Level 3	3 (2+1)	Program
	PHC 301	Medicinal Chemistry-II	Required	Level 3 PHC 203	2 (2+0)	Program
	PHCL 301	Introduction to Pathophysiology	Required	Level 3 PHL 205	2 (2+0)	Program
	PHCL 300	Drug information	Required	Level 3 TR 201	2 (1+1)	Program
Level 6	IC104	Political System in Islam	Required	IC 103	2	Institution
	PHCL 302	Self-care and community Pharmacy	Required	Level 4 Level 5	2 (1+1)	Program
	PHL 302	Pharmacology-II	Required	Level 4 PHL 301	2 (2+0)	Program
	PHC 302	Medicinal Chemistry-III	Required	Level 4	3 (2+1)	Program
	PHCL 304	Pharmacotherapy-I	Required	Level 4 PHL 301 PHC 301	2 (2+0)	Program
	PHCL 305	Pharmacy Practice Lab I	Required	Level 4 PHL 301 PHC 301	1 (0+1)	Program
	PHCL 306	Pharmacotherapy-II	Required	Level 4 PHL 301 PHC 301	2 (2+0)	Program
	PHT 303	Biopharmaceutics & Pharmacokinetics	Required	Level 4	3 (2+1)	Program
Summer	TR 302	Pharmacy Training-II 250 Hours (Community Pharmacy)	Required	Level 5 PHCL 302	2 (0+2)	Program
Level 7	ARB 103	Arabic Writing	Required	ARB 101	2	Institution
	PHT 401	Sterile & Parental Preparations	Required	Level 5 PHT 303	2 (2+0)	Program
	PHCL 401	Pharmacotherapy-III	Required	Level 5	2 (2+0)	Program

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Type of requirements (Institution, College or Department)
				PHL 302 PHC 302		
	PHCL 402	Pharmacy Practice Lab II	Required	Level 5 PHL 302 PHC 302	1 (0+1)	Program
	PHCL 403	Pharmacotherapy-IV	Required	Level 5 PHL 302 PHC 302	2 (2+0)	Program
	PHL 401	Pharmacology-III	Required	Level 5	2 (2+0)	Program
	PHC 401	Medicinal Chemistry-IV	Required	Level 5	2 (2+0)	Program
	PHG 401	Pharmacognosy-II	Required	Level 5	3 (2+1)	Program
Level 8	PHCL 404	Research Design & Pharmacoepidemiology	Required	Level 6 TR 302	3 (2+1)	Program
	PHT 402	Pharmaceutical Biotechnology	Required	Level 6 PHT 401	2 (2+0)	Program
	PHG 402	Pharmacognosy-III	Required	Level 6 PHG 401	1 (1+0)	Program
	PHCL 405	Pharmacotherapy-V	Required	Level 6 PHL 401 PHC 401	2 (2+0)	Program
	PHCL 406	Pharmacy Practice Lab III	Required	Level 6 PHL 401 PHC 401	1 (0+1)	Program
	PHCL 407	Pharmacotherapy-VI	Required	Level 6 PHL 401 PHC 401	2 (2+0)	Program
	PHL 402	Antimicrobial agents	Required	Level 6	2 (2+0)	Program
	PHL 403	Toxicology	Required	Level 6 PHT 401	2 (2+0)	Program
Summer	TR 401	Pharmacy Training-III 250 Hours (Hospital Pharmacy)	Required	Level 7 TR 302	2 (0+2)	Program
Level 9	PHCL 408	Pharmacoeconomics	Required	Level 7	2 (2+0)	Program
	PHCL 409	Social and behavioral Pharmacy	Required	Level 7	2 (2+0)	Program
	PHCL 410	Clinical Pharmacokinetics	Required	Level 7 PHCL 405 PHCL 406 PHCL 407 PHL 402	2 (2+0)	Program
	PHCL 411	Pharmacotherapy-VII	Required	Level 7 PHL 402	3 (2+1)	Program
	PHCL 412	Pharmacy Regulations & Ethics	Required	Level 7	2 (2+0)	Program
	PHCL 413	Health informatics	Required	Level 7 TR 401	1 (1+0)	Program
	PHL 406	Pharmacology-IV	Required	PHL 402	2 (2+0)	Program
		Free course	Elective	Level 7	2 (2+0)	Program
Level	PHG 403	Dietary supplement	Required	Level 8	2 (2+0)	Program

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Type of requirements (Institution, College or Department)
10	PHCL 414	Pharmacotherapy-VIII	Required	Level 8 PHL 406	3 (2+1)	Program
	PHCL 415	Pharmacy Management & Marketing	Required	Level 8	2 (2+0)	Program
	PHCL 416	Medication Safety	Required	Level 8	2 (2+0)	Program
	PHCL 417	Literature Evaluation	Required	Level 8 PHCL 408 PHCL 409	2 (2+0)	Program
	PHARM 401	Research project[$]	Required	Level 9	3 (0+3)	Program
		Free course	Elective	Level 8	2 (2+0)	Program
Level 11	TR 410	Internal medicine-I	Required	Level 10	3 (0+3)	Program
	TR 411	Internal medicine-II	Required		3 (0+3)	Program
	TR 412	Acute Care	Required		3 (0+3)	Program
		Elective	Elective		3 (0+3)	Program
		Elective	Elective		3 (0+3)	Program
Level 12	TR 413	Ambulatory Care*	Required	Level 10	3 (0+3)	Program
	TR 414	Advanced Pharmacy Practice*	Required		3 (0+3)	Program
		Elective	Elective		3 (0+3)	Program
		Elective	Elective		3 (0+3)	Program
		Elective	Elective		3 (0+3)	Program

[$] PHARM 401: will be taken starting level 10 and ending in level 12

- Students will take 5 core rotations, and five elective rotations from the following:

Rotations list "APPE"

TR 415	Internal medicine-III	3 (0+3)
TR 416	Internal medicine-IV	3 (0+3)
TR 417	Geriatric medicine	3 (0+3)
TR 418	Infectious disease	3 (0+3)
TR 419	Pain Management	3 (0+3)
TR 420	Transplantation	3 (0+3)
TR 421	Nephrology	3 (0+3)
TR 422	Hematology/ oncology	3 (0+3)
TR 423	Psychiatric	3 (0+3)
TR 424	Pediatric medicine	3 (0+3)
TR 425	Neonatal Intensive Care	3 (0+3)
TR 426	Drug Information	3 (0+3)
TR 427	Medication Safety	3 (0+3)
TR 428	Community Pharmacy	3 (0+3)
TR 429	Industrial and company	3 (0+3)
TR 430	Regulatory	3 (0+3)

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