



COLLEGE OF PHARMACY

STUDENT HANDBOOK

2024 - 2025

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DEAN'S WELCOME

Welcome to the College of Pharmacy! We are introduce you to a community dedicated to the future of pharmacy through committed staff and administrators. Our Pharm D supports our mission of educational excellence, aligning with Saudi Arabia's Vision prepare students for compassionate patient research excellence and societal contributions.



proud to
shaping
faculty,
program
2030 to
care,

This student handbook is a comprehensive guide for your journey, offering essential information on our mission, departments, admissions, academic regulations, curriculum, student rights, services, facilities, internship guidelines and conduct codes. Special thanks to our development and quality team for their work on this valuable resource.

Warm regards and best wishes for a successful academic journey!

Thank you!

Dr. Abdulkareem Alanezi

Dean

College of Pharmacy

University of Hafr Al Batin

VISION, MISSION AND GOALS



Vision

To be a pioneer in pharmacy education and research, and to enhance healthcare of the community both nationally and regionally.

Mission

Strive to positively impact and enhance quality of life through comprehensive, interdisciplinary education, training and research in pharmacy practice.

Goals:

1. Prepare the students with highly competent and innovative approaches to apply their knowledge in pharmacy practice to optimize patient-centered care.
2. Establish Pharm. D. leaders who are capable to improve public health and critical thinking for the best decision of medication use as per the needs of the community.
3. Achieve excellence in education and research by recruiting, developing, and retaining distinguished faculty.
4. Equip the students with the knowledge and skills needed for inter-professional communication to deliver the best possible pharmaceutical patient care.
5. Create a drug research culture in the students to be aware of the novel drug discovery.
6. Develop the students with life-long learning, self-awareness, and professionalism.



UNIVERSITY OF HAFR AL BATIN



By royal order, the University of Hafr Al-Batin was established. (20937) dated 06/02/1435 AH to integrate with the other Saudi institutions in order to support the educational process, be a tributary, and assist in carrying out the ambitious growth goals in the Kingdom of Saudi Arabia. The Colleges of Education for Girls in Hafr Al-Batin, Nairiyah, Qarya Ulya, and Al-Khafji had an academic impact from two prominent universities, the University of Dammam when they founded the University of Hafr Al-Batin. The King Fahd University of Petroleum and Minerals, which existed from its founding until the date of the university's declaration, was included under its jurisdiction, as were the Community College and University Colleges for Boys. It has a plan for the future and a strategy. We at Hafr Al-Batin University were eager to concretize these visions on the ground, in pursuit of our goal through. This success comes as a natural result of good planning, good implementation, and good follow-up, so in order to form a new generation capable of working and dealing with and building a knowledge economy led by innovation and modernization that leads to the renaissance of the nation.

University Entrance View



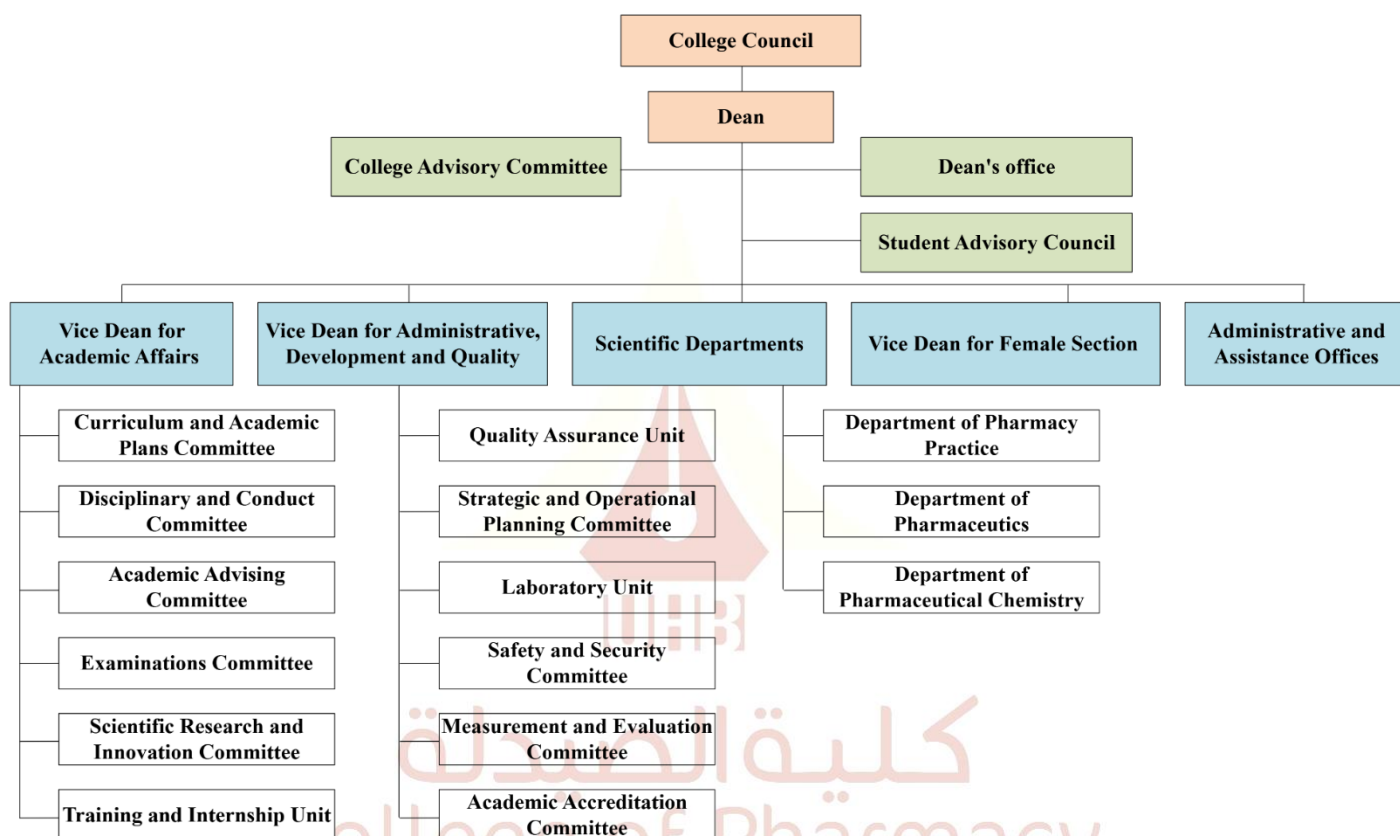
COLLEGE OF PHARMACY



The decision to establish the College of Pharmacy at University of Hafr Al-Batin was issued by Higher Education Council Resolution No. (23/75/1435) on 02/01/1435 (Islamic calendar). The College of Pharmacy aims to enhance its role in serving the local community by developing programs in collaboration with various segments of society and contributing to the community's growth through scientific research, studies, lectures, seminars, and providing consultations to the region's industrial sector. The strength of the College of Pharmacy lies in the unwavering support of the university administration, as well as the dedication and competence of its enthusiastic faculty members who are eager to prove themselves.

The College of Pharmacy is considered the foundation for other medical colleges. The College is continuously striving for growth, focusing on basic pharmaceutical sciences and their application to scientific knowledge. It also offers a distinguished academic plan that is constantly reviewed to keep up with advancements in pharmaceutical sciences. The faculty members enjoy excellent career prospects, with many continuing to conduct research despite the lack of adequate research equipment and laboratories. They rely primarily on collaboration with colleagues from other colleges and institutions. The College strives to provide a dynamic environment that fosters academic creativity, innovation and excellence in teaching, learning, and research. Believing in the importance of achieving quality to attain self-reliant continuous development and to reach competitive academic standards that qualify the College for accreditation, a team was formed to prepare a strategic plan. This plan aims to identify strengths and weaknesses, leverage strengths, address weaknesses and capitalize on available opportunities to ensure maximum benefit for the College while mitigating potential risks that could hinder its progress.

COLLEGE GOVERNANCE



جامعة حفر الباطن جامعة حفر الباطن

DEPARTMENTS

Department of Pharmacy Practice

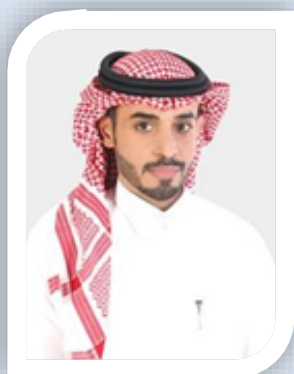
Overview

The Department of Pharmacy Practice in the University of Hafr Al Batin is an essential part in the College of Pharmacy, preparing the young pharmacists with essential elements that make care kind. The department lays emphasis on comprehensive education in both clinical and community pharmacy practice, thus preparing the students with knowledge in areas of pharmacotherapy, counseling, medication safety and ethics in healthcare.

The Department comprises faculty members who are practitioners and researchers experienced in both theoretical knowledge and hands-on experience. The collaboration of healthcare institutions with schools offers students a chance for real-life exposure. The curriculum is structured in a manner that develops critical thinking, communication, and clinical decision-making skills relevant for the practicing pharmacist in a range of practice environments, from the hospital to the community pharmacy.

Moreover, the department engages in various research activities that are directed toward improving pharmaceutical care, thus helping to advance knowledge in pharmacology, clinical pharmacy, and health outcomes. Thus, graduates are put in the frontline of practice by combining training with research that would enable them to contribute to changing the face of healthcare in Saudi Arabia and beyond.

Head of the Department



Dr. Mohammed Alshammari

Qualification: BSc, MSc, PhD.

Academic Rank: Associate Professor

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Honorable members of the faculty, distinguished students, and guests,

It is an honor to stand before you as the Head of the Pharmacy Practice Department at the University of Hafr Al-Batin. The philosophy in our department proceeds from a simple basis of excellence, innovation, and undertaking full preparation of the next generation of pharmacists to serve our communities with devotion, knowledge, and empathy.

As a significant aspect of health care, pharmacy practice is a delicate balance of scientific knowledge and caring for patients. The Department of Pharmacy Practice at the College is committed to a rigorous yet comprehensive education to prepare students for successful pharmacy careers in a variety of settings. Our graduates will be firmly equipped to contribute to meaningful improvements in health outcomes, medication safety, and the promotion of public health in hospitals, clinics, and community pharmacies.

Our curriculum focuses on pharmacotherapy and clinical decision-making, yet much emphasis is put on soft skills in communication, empathy, and ethics. We believe that these qualities are as important as technical knowledge in building a relationship

of trust with the patients and effectively collaborating with other health professionals.

Our faculty are highly engaged in research activities that address essential challenges in pharmacy and health care. It is through such research activities that we intend to contribute to the scientific society, but more importantly, bring evidence-based practices into patient care for improved public health.

As we forge ahead in this academic year, let me remind each one of you—our students, faculty, and staff to never stop pursuing greatness. Let us create impact together in pharmacy practice both here on campus and beyond, and commit ourselves to lifelong learning, professional growth, and compassionate service.

Thank you for all your hard work and commitment. We are building together that future wherein health care will be safer, more effective, and accessible for all.

Faculty Members:

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Department of Pharmaceutics

Overview

The Pharmaceutical Department at a College of Pharmacy aims to equip students with the necessary skills and knowledge to excel in various pharmacy-related careers. By integrating education, research, and community service, it plays a vital role in advancing healthcare and improving patient outcomes.

Head of the Department



Dr. Meshal Alotaibi

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Our collective efforts have not only contributed to the growth of our department but have also positively impacted patient care and safety. I encourage each of you to continue pursuing excellence in your work, embracing innovation, and collaborating with one another. Our strength lies in our commitment to research, quality assurance, and the development of effective therapies that meet the needs of our patients. Let us also prioritize our professional development. Thank you for your hard work and dedication. Together, we can achieve remarkable things.

Faculty Members:

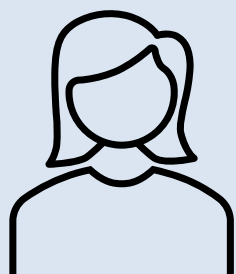
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Department of Pharmaceutical Chemistry

Overview

The Department of Pharmaceutical Chemistry focuses on the synthesis, structural characterization and therapeutic development of medicinal molecules. The department fosters drug discovery and development by combining research, education, as well as community service to train future pharmaceutical chemists. Our complete approach includes molecular design, structure-activity connections, and drug-target interactions, all underpinned by rigorous laboratory training and safety regulations. The department actively contributes to public health by conducting research, offering educational programs, and engaging with the community, ultimately increasing pharmaceutical sciences and healthcare outcomes through methodical drug development and professional training.

Head of the Department



Dr. Afaf Almuqati

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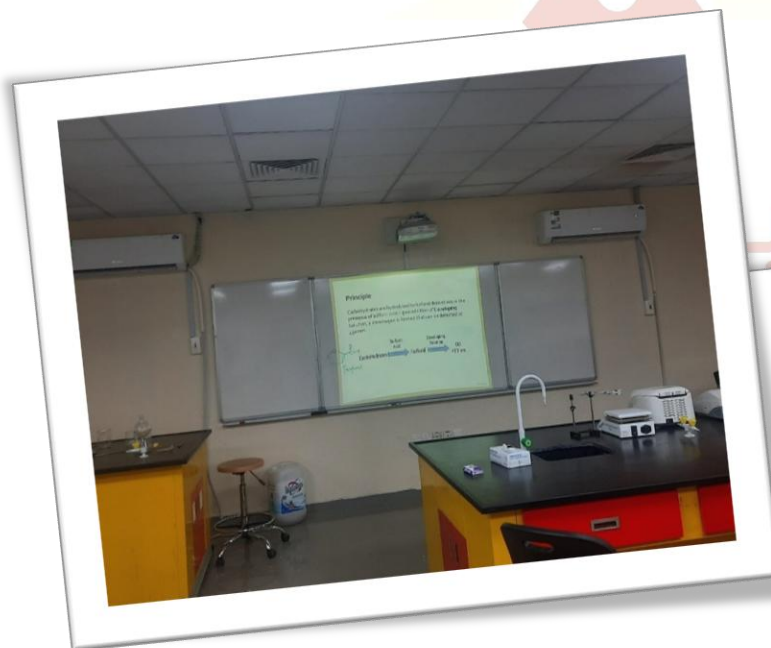
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Welcome to the Department of Pharmaceutical Chemistry at the University of Hafr Al-Batin, which has been an integral element of the College of Pharmacy since 1439 AH. Our department specializes at preparing remarkable Pharm D graduates with a broad curriculum in pharmaceutical, organic, medicinal, biochemistry and analytical chemistry. We provide superior undergraduate education, perform cutting-edge research

and plan to build future postgraduate programs in pharmaceutical sciences and drug design. We prepare skilled pharmacists while supporting the Hafr Al-Batin community through health awareness projects, pharmaceutical advice and professional consultations. Our comprehensive approach to pharmaceutical education and research is still shaping the future of pharmacy practice and pharmaceutical sciences in the region.

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PHARM D PROGRAM

ADMISSION REQUIREMENTS

The University Council adopts the admission requirements and controls proposed by the Deanship of Admission and Registration -in coordination with the colleges- the discipline available for admission and the numbers of students who can be admitted each academic year, taking into account the decisions of the University Affairs Council, national development requirements, employment-related statistical studies, the need for the labor market, future discipline and absorptive capacity. Specific admission criteria for the preparatory year and the Doctor of Pharmacy (Pharm.D) program are determined by the College of Pharmacy and require approval from both the College Board and the University Council.

Students must complete the preparatory year program after high school.

General conditions for admission to the College of Pharmacy (Doctor of Pharmacy program):

- Obtaining the General Secondary Certificate - Scientific Section - or its equivalent from inside or outside the Kingdom.
- Obtain a minimum of 90% in the high school diploma.
- The weighted percentage should not be less than 80%.
- The general ability exam should not be less than 75%.
- The grade of the achievement test should not be less than 70%.
- Students are accepted directly to the College of Pharmacy for those who meet the above requirements
- The average of the preparatory year should not be less than 2.75 out of 4.

- The student's average for allocation in the College of Pharmacy should not be less than C in the following subjects: English, Chemistry and Biology.
- Preference in accepting graduates of the same year.
- It meets any other conditions determined by the University Council.

Conditions for transfer to the College of Pharmacy:

1. The transfer is between health colleges only. The transfer is based on the preference in achieving higher grades according to the transferred percentage, as follows:
2. Transfer rate = weighted ratio + preparatory year average rate
3. The transfer is according to the available vacancies, and the Academic Committee has the exception.
4. Fill out the transfer request electronically and electronically.

General conditions for admission to the College of Pharmacy (Doctor of Pharmacy program):

1. Pass all the common first-year Health Track Courses.
2. The admission will be according to the availability of the seats in the program.
3. The criteria to measure the student performance in the common first year were according to the following:
 - 60 % cumulative GPA in the common first year.
 - 40 % cumulative GPA for the following courses:
 - ✓ ENGL 1601
 - ✓ ENGL 1602
 - ✓ CHEM 1301
 - ✓ BIOL 1301

Students must also meet the performance-based criteria to enroll in the program, set by University Council and Standing Committee for Curriculum and Academic Systems each academic year.

<https://www.uhb.edu.sa/Pages/Admission.aspx?active=2>

RULES AND REGULATIONS

1. Admission regulations:

The student has to attain the following criteria for admission:

- General criteria abide by the rules and regulations of Ministry of Education.
- Student must meet the criteria for admission in University of Hafr Al Batin, set by University Council each academic year.
- Student must meet the performance-based criteria to enroll in the program, set by University Council and Standing Committee for Curriculum and Academic Systems each academic year.

Rules and regulations can be accessed at:

1. <https://www.uhb.edu.sa/en/Deanship/AdmissionAndRegistration/Admission/Pages/default.aspx>
2. <http://admitportal.uohb.edu.sa/Website2/admitportal/web.html>
3. <https://www.uhb.edu.sa/Pages/Admission.aspx?active=2>

2. Attendance Regulations:

A minimum of 85% attendance in lectures and practice/lab sessions is required to sit for final exams. Students falling below this threshold receive a "Denied (DN)" grade but may be exempted if they provide a valid excuse accepted by the college advisory council.

3. Exam Regulations:

- If a student fails to attend a final examination in any course but offers a compelling excuse, the college council may choose to accept his/her excuse and allow him/her to take a make-up examination prior to the end of the following semester.
- The student may advance to the next level if the student successfully passes all the requirements of the course at a particular level.
- If the student fails in the minimum aggregate of the credit hours (12 hours) or in more than one course, they should repeat only the failed courses.
- If the student fails in less than the minimum credit hours, they should repeat the courses in which they failed along with enrolling in additional courses of the levels following his current level. However, the registration must be made for courses in accordance with the restrictions of the academic calendar and schedules.
- Students have to complete all courses from the first to fourth year and pass all of them with the minimum GPA of 2.00 in order to continue their clerkships during the fourth-year summer and the whole of the fifth year.
- A student can request for re checking/re grading his/her exams scores within two weeks of the announcing result, if he/she has evidence or believes that

evidence exists to show that an inappropriate grade has been assigned as a result of prejudice, caprice or other improper conditions such as mechanical error or assignment of a grade inconsistent with those assigned other students.

- The student is accountable to place an appeal through his academic advisor using case specific appeal form.
- Academic advisors are accountable to consult with the student in detail to spot students need and provide guidance to fill out the appeal form. During this consultation process, academic advisors are responsible to fetch necessary record from corresponding student file to support his opinion. When an appeal has been finalized and submitted by the student, academic advisors are accountable to attach necessary supporting documents with this appeal and forward this appeal to the academic advising unit through the University's correspondence tracking system for further evaluation.
- The College Council that offers the course may approve the re-grading of examination papers within a period not to exceed the beginning of the next semester's examinations.
- If the request is accepted by College Council, College Dean would form a committee with Program coordinator, subject coordinator and faculty of that subject's knowledge group.
- Committee should recheck and verify the grading. Then allow student to check and compare his/her answers with correct ones from student course file. The final grades should be informed to the student in writing duly signed.

REGISTRATION DETAILS

1. Course Registration:

- Confirmed registration opens at the start of each semester, with restrictions on adding/dropping courses based on the academic calendar.
- Registration is mandatory each semester, with early registration required. Students may not register for courses with prerequisites unless the prerequisites are passed, except for those graduating that semester or the next.

2. Modification of Schedule:

- Students may drop or add courses within the specified period in the academic calendar, ensuring adherence to the minimum academic load required.

GRADES AND GRADUATION

1. Credit Hours Requirement:

- A total of 222 credit hours is required for graduation.

2. Progression and Academic Performance:

- Students must achieve satisfactory grades in each course to progress through program levels and meet graduation standards.

The Scores Obtained by The Student In Each Course Are Calculated As Follows:

Grade weight out of 4	Grade weight out of 5	Symbol in Arabic	Symbol in English	Grade in Arabic	Grade in English	Percentage
4.00	5	أ+	A+	ممتاز مرتفع	Exceptional	95 - 100
3.75	4.75	أ	A	ممتاز	Excellent	90 to less than 95
3.50	4.5	ب	B+	جيد جدا مرتفع	Superior	85 to less than 90
3.00	4.00	ب+	B	جيد جدا	Very Good	80 to less than 85
2.50	3.5	ج+	C+	جيد مرتفع	Above Average	75 to less than 80
2.00	3.00	ج	C	جيد	Good	70 to less than 75
1.50	2.5	د+	D+	مقبول مرتفع	High Pass	65 to less than 70
1.00	2.00	د	D	مقبول	Pass	60 to less than 65
0.00	1.00	هـ	F	راسب	Fail	less than 60
----	----	م	IP	مستمر	In - Progress	-
----	----	ل	IC	غير مكتمل	In - Complete	-
0.00	1.00	ح	DN	محروم	Denial	
----	----	ن د	NP	ناجح دون درجة	No grade - pass	60 and over
----	-----	د هـ	NF	راسب دون درجة	No grade - Fail	less from 60
----	-----	ع	W	منسحب بعذر	Withdrawn with excuse	-
----	-----	عف	F	معفى	Exempt	-

جامعة حفر الباطن University of Hafr Al Batin

INTERNSHIP

Experiential education in the Pharm.D program allows students to apply classroom and lab knowledge to real-world pharmacy settings, preparing them to provide effective pharmaceutical care. The program includes two training phases: the Introductory Pharmacy Practice Experience (IPPE), offered as summer sessions after the second and third years, and the Advanced Pharmacy Practice Experience (APPE), a year-long internship in the fifth year. APPE clinical rotations focus on continuity of care across diverse patient settings, enhancing students' practice skills, professionalism, and cultural competence to work effectively within interprofessional healthcare teams.

1. APPE Clinical Rotations

According to Accreditation Council for Pharmacy Education (ACPE) standards, our pharm. D program curriculum includes no less than 40 weeks (1600 hours) of APPE clinical rotations. All the students were exposed to a minimum of 160 hours in each required APPE rotation. The majority of APPE is focused on direct patient care. Clinical rotations are categorized as core and elective rotations. Core APPE clinical rotations occur in two practice settings: (1) Medical departments; and (2) Pharmacies. Elective APPEs are structured to give students the opportunity to mature professionally and secure the breadth and depth of experiences needed to achieve educational outcomes.

- Total number of rotations = 10 (8 core; 2 elective)
- The total duration of rotations = 10 months
- Duration of each rotation = 4 weeks
- Number of days of rotation in a week = 5 days
- Duration of each rotation per day = 8 hours
- Contact hours for each rotation = 160 clock hours (8 hours x 5 days x 4 weeks)
- Total contact hours of all clinical rotations = 1600 clock hours (160 hours x 10 rotations)
- 4 credits for each rotation 40 credits for all the rotations

2. Eligibility criteria for internship:

Pre-requisites:

To be eligible, interns must provide proof that they have successfully completed all the following requirements for graduation from the Doctor of Pharmacy program at the College of Pharmacy:

- All the didactic courses of Pharm. D program curriculum.
- Introductory Pharmacy Practice Experience I (IPPE-I)
- Introductory Pharmacy Practice Experience II (IPPE -II)
- Exit exam.

Documents to be submitted:

- Training application form completing all the required fields.

- Copy of the Saudi national ID.
- Two personal photos.
- Copy of valid passport.
- Basic Life Support (BLS) course certificate.
- Should complete an infection control course provided by one of the accredited bodies.
- Completion of all vaccinations recommended by the training authority.
- Undergo medical examination according to the requirements of the training site.

3. Criteria for the completion of the internship:

To pass the internship year, interns must:

- Successfully complete all core and elective rotations without breaching any professional ethics.
- Get a minimum 60 % in each training rotation.
- Complete all the tasks assigned to internship students.

4. Training process

The training process is a knowledge ladder in which the student will be graduated, according to the training stage assigned by the college to apply the skills and knowledge acquired during his/her study duration. Consequently, the training should be processed as follows:

- Direct supervision by the training supervisor or the actual representative in the training institution for any work performed by the student and the main responsibility lies on the training supervisor in the training institution.
- Provide appropriate Pharmaceutical Education.
- Focus on the gradual increment of responsibilities assigned to the student.
- Imply the basics of professional ethics and health practice literature at each stage of the training period.

5. Rules of clinical rotations schedule

- Internship begins at the end of June every year, unless an exception is approved by the internship unit and the dean of Pharmacy College.
- The internship unit at the college prepares training schedule in coordination with the internship unit in the training institution.
- The internship unit at the college coordinates with training institutions outside of the Hafr Al Batin area after the designated form has been filled out.
- Adherence to the maximum capacity limit for enrolled interns at each training institution.
- Priority in assign allocation to a training rotation is given to the students who have compulsory rotations.
- Changes between rotations are not allowed once the training site allotment lists have been issued, unless there is a consideration from the internship unit and the training institution.
- Splitting one rotation among more than one training institution is prohibited.

6. Responsibilities of the internship unit

- Ensure the student is placed in the best environment possible to acquire the necessary education and training.
- Organize orientation sessions for interns prior to the start of their internship.
- Handle issues and conflicts that may arise during the training period and recommend a mechanism for their resolution.
- Periodically review the regulations for the internship year and propose appropriate amendments.
- Develop plans to improve the internship program.
- Issue a training completion report after reviewing the student's evaluations in the training periods provided by the training institutions ensuring that all the requirements for issuing an internship completion certificate are satisfied.

7. College administrative coordinator responsibilities

Collaborate with offices of experienced medical education and academic affairs in the training institutions to facilitate the training process and fulfill admission requirements.

- Follow up on the issuance of internship cards from training institutions.
- Monitor continuous communication between interns and the internship unit at the college.
- Report complaints, grievances, and observations to the internship unit at the college.

8. Preceptor responsibilities

The training coordinator serves as the primary communication link between the internship unit and the training institution to oversee every aspect of the internship program. The following traits are necessary for the training coordinator:

- Easily reachable by students at the training institution.
- Good communicator who understands the internship unit's goals and respond to students with the utmost professionalism.
- Provide daily advice, guidance, scientific discussion, and direct observation to the interns during the training period.
- Discuss the progress of the training with the students and review the skills that are expected to be acquired through the training.
- Evaluate the students and communicate directly with the training coordinator at the college.

9. Student responsibilities

- Comply with the training institution's attendance and leave policies.
- Participating in departmental shifts at the training institution is required, and the student must maintain regular communication with the training supervisor and the shift team.

- Participating in shifts during Eid al-Fitr or Eid al-Adha vacations in accordance with the work distribution schedules at the training institution, and as per work interest in the department.
- Dress code must be in compliance with the rules and regulations of the training institution.
- Perform prescription dispensing only under the supervision of a licensed pharmacist/ preceptor at the training institution.

10. Student rights

- An appropriate professional training environment should be provided to students.
- Students are encouraged to present and participate in seminars and scientific conferences, when applicable in accordance with training regulations.
- Students receive a monthly allowance according to the Ministry of Education regulations.
- Students are granted the right to take leave as stated in leave regulations.
- In accordance with postponement regulations, students have the right to postpone all or part of the training, after the approval of the internship unit.

11. Leave regulations

Regular leave: Internship students have seven days of leave during the internship period of the academic year, if it does not exceed three working days in any rotation.

Official vacations: the intern is eligible to avail vacations as that for government employees in the Kingdom of Saudi Arabia according to what is officially announced, except if the training institution needs to assign the student to work during the time of official holidays, then this assignment period will be counted within the training course.

Educational leave: the intern student is permitted to attend Continuous Education activities in the field of specialization (session, conference, workshop, or seminar) for no more than three days during the internship program, and the student must submit evidence of attendance of activity to the training supervisor in the training institution as well as the internship unit at the college, provided that the university does not bear any financial burdens resulting from attending these activities. The leave period can be divided into days as needed after obtaining the approval of the internship unit at the college.

As for the above-mentioned leaves, coordination must be made with the training institution and the internship unit at the college before the start of the academic year by at least two weeks (by filling out the specified form), and the internship unit at the college has the right to make any exceptions to this in coordination with the training institution.

For regular and scientific leaves, a request must be submitted before the desired date by at least two weeks.

Sick leave: If the intern has a sick leave with an authenticated medical report, this period of leave should be compensated before obtaining the certificate of

completion of the internship year (if it is three days or less), but if the duration of the sick leave exceeds three days, the intern must repeat the entire training rotation. **Maternity leave:** Pregnant intern may stop her training program for a period not exceeding 30 days and the internship unit must be notified of the expected date of delivery to coordinate and resume training rotations after she fully recovers from her childbirth.

Marriage leave: the intern is entitled to take a marriage vacation for two weeks after notifying the internship unit of the expected date of the marriage. Proof of the marriage must be provided before claiming this vacation.

12. Discontinuation

- If the intern has a period of discontinuation from training (less than twenty weeks), previous courses that have been successfully passed before discontinuation will be considered, and the duration of this discontinuation must be compensated at the end of the training period.
- In the event of discontinuation for a period (more than twenty weeks and less than forty weeks), the intern is required to repeat the internship year, and any previous training period spent in the internship is not counted.
- In the event of discontinuation for a period exceeding forty weeks, the college has the right to compel a student to attend exams or other evaluations that the college is suggesting, provided that he is not allowed to start the internship until passing those procedures.

13. Postponement

- In cases of extreme necessity, it is permissible for the student to delay starting the internship year for a period not exceeding twenty weeks, and the student must provide sufficient justifications to the internship unit in the college.
- In the event that the postponement period exceeds twenty weeks but is less than forty weeks, the internship unit has the right to allow the student to start the internship year if he provided sufficient justifications to the college.
- If the postponement period exceeded twenty weeks but is less than forty weeks, the internship unit would have the right to allow the student to start the internship year if he provided sufficient justifications to the college.

14. Absence and compensation regulations

If the unexcused absence does not exceed 3 days, this absence period should be compensated in the same training rotation, in coordination with the training supervisor at the training institution.

If the number of days of absence exceeds three days in one training rotation, the student must repeat the entire rotation without an allowance.

Regarding the interns who receive the internship allowances, they must compensate periods of absence without allowances in case they received them during the period in which they were absent.

15. Internship evaluation

The training supervisor at the training site must prepare and sign a report to be approved by the head of the department in the training site after the completion of each training rotation in the various departments according to the form approved by the College of Pharmacy.

Reports on the performance of the internship must be sent to the internship unit office immediately after the end of each training rotation.

Each rotation is evaluated as follows: 50% for the training institution and 50% for the college, as detailed in the evaluation form attached to these regulations.

If the internship student obtained an evaluation of less than 60% in any training rotation, the student must repeat it.

16. Violations and penalties

If the internship student breaches his/her professional duties or obligations, or commits any behavioral or ethical violation that impacts the ethics of the profession, the internship unit in the college must recommend the formation of an investigation committee in the college issue in coordination with the training supervisor at the training institution, and then submit the recommendations to the college dean.

The disciplinary guidelines approved by the University of Hafr Al-Batin are applied to internship students.



CURRICULUM STRUCTURE, ORGANIZATION AND MAP

Common First Year																	
Semester I	Course		Title		LT	LB	CR	Prerequisite	Semester II	Course		Title		LT	LB	CR	Prerequisite
	ENGL	1601	English Language I		0	16	6			ENGL	1602	English Language II		0	16	6	ENGL 1601
	CHEM	1301	General Chemistry		2	2	3			PHYS	1301	General Physics		2	2	3	
	BIOL	1301	General Biology		2	2	3			HEAL	1201	Medical Terminology		2	0	2	
	MATH	1302	General Statistics		3	0	3			CSEN	0341	Information Technology Skills and Its Applications		2	2	3	
	TUTR	0231	Thinking and Learning Skills		2	0	2			ARAB	0221	Arabic Editing		2	0	2	
									ISLM	0211	Islamic Culture		2	0	2		
				9	20	17							10	20	18		
Second Year																	
Semester I	Course		Title		LT	LB	CR	Prerequisite	Semester II	Course		Title		LT	LB	CR	Prerequisite
	PHDR	2101	Pharm. D Orientation		1	0	1			PHDR	2303	Pharmaceutics I		2	2	3	PHDR 2202
	BSHC	2401	Human Anatomy and Physiology I		3	2	4	BIOL 1301		BSHC	2405	Human Anatomy and Physiology II		3	2	4	BSHC 2401
	BSHC	2302	Pharmaceutical Organic Chemistry I		2	2	3	CHEM 1301		BSHC	2306	Pharmaceutical Organic Chemistry II		2	2	3	BSHC 2302
	BSHC	2303	Biochemistry I		2	2	3	CHEM 1301		BSHC	2207	Biochemistry II		2	0	2	BSHC 2303
	BSHC	2304	Microbiology		2	2	3	BIOL 1301		BSHC	2208	Pathophysiology I		2	0	2	BSHC 2401
	PHDR	2202	Pharmaceutical Calculations		2	0	2		BSHC	2209	Molecular Biology		2	0	2		
	ISLM	0212	Intellectual Awareness		2	0	2		UNIV	0XXX	University Elective Course I		2	0	2		
				14	8	18							15	6	18		
Third Year																	
Semester I	Course		Title		LT	LB	CR	Prerequisite	Semester II	Course		Title		LT	LB	CR	Prerequisite
	BSHC	3210	Pathophysiology II		2	0	2	BSHC 2208		PHDR	3208	Pharmaceutical Biotechnology		2	0	2	BSHC 2209
	PHDR	3304	Pharmacology I		2	2	3	BSHC 2405		PHDR	3309	Pharmacology II		2	2	3	PHDR 3304
	PHDR	3305	Pharmaceutics II		2	2	3	PHDR 2303		PHDR	3310	Pharmaceutics III		2	2	3	PHDR 3305
	PHDR	3306	Medicinal Chemistry I		3	0	3	BSHC 2306		PHDR	3211	Medicinal Chemistry II		2	0	2	PHDR 3306
	BSHC	3211	Immunology		2	0	2			PHDR	3412	Therapeutics I		3	2	4	BSHC 3210
	PHDR	3307	Pharmacognosy		2	2	3		PHDR	3213	Pharmacy Practice Skills I		2	0	2	PHDR 3304	
	UNIV	0XXX	University Elective Course II		2	0	2		UNIV	0XXX	University Elective Course III		2	0	2		
				15	6	18							15	6	18		
Summer Training I																	
Course Code		Title		LT	LB	CR	Total Weeks	Total Training Hours						Prerequisite			
PHDR 3381		IPPE 1- Community Pharmacy		0	40	3	4	4 weeks x 5 days x 8 hours = 160 hours						PHDR 3304			
Fourth Year																	
Semester I	Course		Title		LT	LB	CR	Prerequisite	Semester II	Course		Title		LT	LB	CR	Prerequisite
	PHDR	4314	Pharmacology III		3	0	3	PHDR 3309		PHDR	4324	Pharmacology IV		3	0	3	PHDR 4314
	PHDR	4415	Therapeutics II		3	2	4	PHDR 3412		PHDR	4425	Therapeutics III		3	2	4	PHDR 4415
	PHDR	4316	Pharmacy Practice Skills II		2	2	3	PHDR 3213		PHDR	4226	Pharmacy Practice Skills III		1	2	2	PHDR 4316
	PHDR	4317	Biopharmaceutics and Pharmacokinetics		2	2	3	PHDR 3310		PHDR	4227	Clinical Pharmacokinetics		2	0	2	PHDR 4317
	PHDR	4118	Pharmacy in Healthcare System		1	0	1			PHDR	4228	Alternative and Complementary Therapies		2	0	2	BSHC 3210
	PHDR	XXXX	Program Elective Course I		2	0	2		PHDR	4329	Patient Safety and Informatics		2	2	3		
	UNIV	0XXX	University Elective Course IV		2	0	2		UNIV	0XXX	University Elective Course V		2	0	2		
				15	6	18							15	6	18		
Summer Training II																	
Course Code		Title		LT	LB	CR	Total Weeks	Total Training Hours						Prerequisite			
PHDR 4381		IPPE 2- Institutional Pharmacy		0	40	3	4	4 weeks x 5 days x 8 hours = 160 hours						PHDR 3381			
Fifth Year																	
Semester I	Course		Title		LT	LB	CR	Prerequisite	Semester II	Course		Title		LT	LB	CR	Prerequisite
	PHDR	5430	Therapeutics IV		3	2	4	PHDR 4425		PHDR	5441	Therapeutics V		3	2	4	PHDR 5430
	PHDR	5231	Toxicology		2	0	2	PHDR 4324		PHDR	5242	Self-care and Non-Prescription Medications		2	0	2	PHDR 3310
	PHDR	5332	Drug Information and Literature Evaluation		2	2	3	PHDR 4324		PHDR	5143	Pharmacoepidemiology		1	0	1	PHDR 5235
	PHDR	5233	Pharmacy Law and Ethics		2	0	2			PHDR	5244	Pharmacoeconomics		2	0	2	PHDR 5235
	PHDR	5234	Pharmacy Practice Management and Marketing		2	0	2			PHDR	5145	Leadership and Professional Development		1	0	1	
	PHDR	5235	Research Methodology		2	0	2		PHDR	5146	First Aid and Emergency Medicine		0	2	1	BSHC 3210	
	PHDR	XXXX	Program Elective Course II		2	0	2		PHDR	5247	Pharmacogenomics		2	0	2	BSHC 2209	
									PHDR	5191	Pharmacy Project and Seminar		1	0	1	PHDR 5235	
									XXXX	XXXX	Free Elective Course		2	0	2		
				15	4	17							14	4	16		

Sixth Year [APPE Clinical Rotations]									
Course		Title	LT	LB	CR	Total Weeks	Total Rotation Hours		Prerequisite
PHDR	6401	Internal Medicine I	0	40	4	4	Each Rotation : 4 weeks x 5 days x 8 hours = 160 hours		All courses including IPPE 1 and IPPE 2
PHDR	6402	Internal Medicine II	0	40	4	4			
PHDR	6403	Critical Care	0	40	4	4			
PHDR	6404	Community Pharmacy	0	40	4	4			
PHDR	6405	Hospital Pharmacy	0	40	4	4			
PHDR	6406	Ambulatory Care	0	40	4	4			
PHDR	6407	Infectious Diseases	0	40	4	4			
PHDR	xxxx	Elective Rotation	0	40	4	4			
PHDR	xxxx	Elective Rotation	0	40	4	4			
PHDR	xxxx	Elective Rotation	0	40	4	4			
			0	400	40	40			
Total Credits - 222									



COURSE DESCRIPTIONS

First Year – 1st Semester (1st Level)

ENGL 1601	English Language I	(0-16-6)
This first part of English as a foreign language program (240 hours) is targeting both semi-beginners and beginner levels. Emphasis is on building the skills of reading, listening, writing, and speaking for application to academic studies in science and technology. Instruction in vocabulary and grammar supports development of these skills. At the same time, word-processing skills are introduced and practiced, study skills are developed and attitudes to study and work are reshaped. Instruction is facilitated through classroom instruction, assignments, project work and computer-based programs.		
Prerequisite	None	
CHEM 1301	General Chemistry	(2-2-3)
This course is an introductory course of chemistry for the students at medical colleges. Basic concepts of the structure, properties, interactions of matter and energy are studied qualitatively and quantitatively with special focus on gaseous state. The properties of simple solutions, acids and bases are also considered. An overview of naming, structure, synthesis, properties, and reactions of organic compounds is given. The topics include hydrocarbons, alcohols, thiols, aldehydes, ketones carboxylic acids derivatives, amines, amides, amino acids, protein, lipids, and carbohydrates. Selected practical topics for fundamental inorganic and organic chemistry.		
Prerequisite	None	
BIOL 1301	General Biology	(2-2-3)
This course is a one-semester introductory course. It is concerned with the fundamental aspects of life through explanation and understanding of the structure and functions of the cell, as well as clarification of the structure, function, and mode of action of some body systems. Students will investigate biological concepts including the chemical basis of life, cell structure, and function, metabolism, reproduction, and genetics. Also, will investigate the importance of the digestive and circulatory systems, as well as the central and peripheral nervous system and their functions.		
Prerequisite	None	
MATH 1302	General Statistics	(3-0-3)
This course covers Descriptive Statistics such as, graphical presentation of data, measures of location, dispersion, and skewness. Introduction to Probability, Discrete and Continuous Random variables and Probability Distributions such as: Binomial, Poisson, Geometric, Normal, Exponential, T and F distribution. It also covers the Sampling Distribution of the Mean, Point and Interval Estimation, Testing Hypotheses of Mean and Proportions, Correlation and Regression Analysis.		
Prerequisite	None	
TUTR 0231	Thinking and Learning Skills	(2-0-2)

The first component of this course deals with the concept of thinking and its types, besides thinking skills, levels, patterns, and programs. Creative thinking, its skills and development methods are also targeted, along with critical thinking and associated skills and strategies. There shall be applications and real-life-based activities. The second part of the course focuses on the concept of learning and highlights its effective skills, cognitive methods, principles, and characteristics.

Prerequisite	None
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First Year – 2nd Semester (2nd Level)

ENGL 1602	English Language II	(0-16-6)
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This second part of intensive English as a foreign language (240 hours) covers both pre-intermediate and intermediate levels. More importance is paid to developing basic language skills of listening, speaking, reading, and writing aiming at reaching advanced language mastering. Likewise, application of these skills is focused and oriented towards scientific and technological specialized discourse. Thus, grammatical units, theme-based glossary as well as study skills are supposed to enhance knowledge, practice, and reutilization of acquired abilities in diversified situations. A higher level of cognitive knowledge, such as analyzing, searching, comparing and knowledge internalization, is also targeted to help students develop self-reliance and confidence while using language.

Prerequisite	ENGL 1601
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PHYS 1301	General Physics	(2-2-3)
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This course is an introductory study and tools of physical science and will enable the students to describe the physical phenomena in terms of models, laws, and principles. The topics include Units, Physical Quantities, and Vectors, Motion Along a Straight Line, Motion in Two or Three Dimensions, Newton's Laws of Motion, Applying Newton's Laws, Work and Kinetic Energy, Potential Energy and Energy Conservation, Momentum, Impulse, and Collisions, Rotation of Rigid Bodies, Fluid Mechanics, Temperature and Heat, Mechanical Waves, Optics and Nuclear Physics.

Prerequisite	None
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HEAL 1201	Medical Terminology	(2-0-2)
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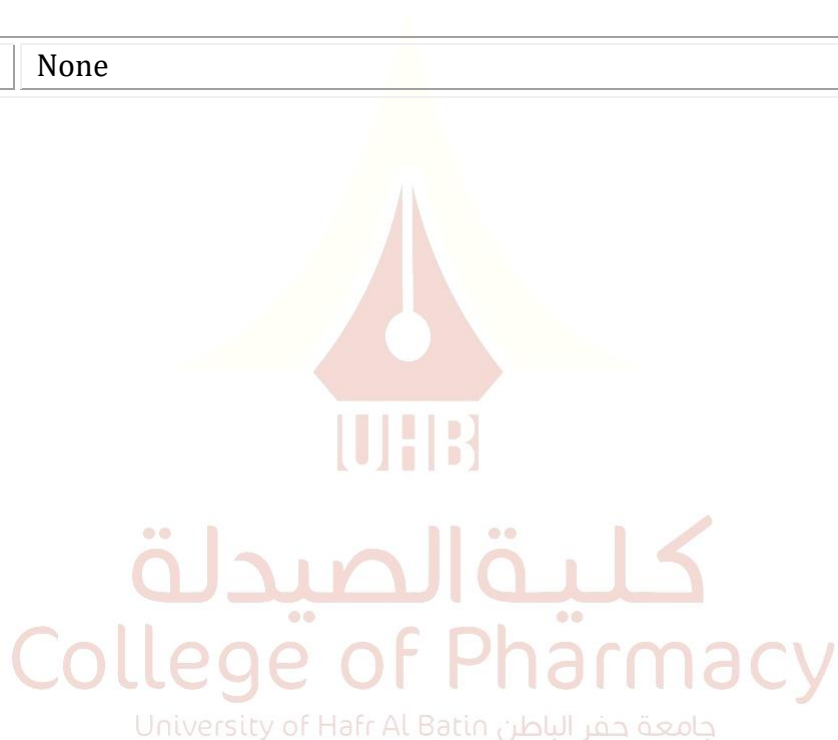
This course introduces prefixes, suffixes, and word roots used in the language of medical science. Topics include medical vocabulary and the terms that relate to the anatomy, physiology, pathological conditions, and treatment of selected systems. Upon completion, students should be able to pronounce, spell and define medical terms as related to selected body systems and their pathological disorders.

Prerequisite	None
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CSEN 0341	Information Technology Skills and Its Applications	(2-2-3)
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This course provides an introduction to computer and different components. It also introduces applications for word processing, presentations and databases. The second part of the course covers an introduction to the risks and threats encountered by computer users and countermeasures for protection.

Prerequisite	None	
ARAB 0221	Arabic Editing	(2-0-2)
This course aims at developing the student's writing skills in Arabic. It deals with methods of appropriate and correct writing of letters, reports, records, minutes, and research.		
Prerequisite	None	
ISLM 0211	Islamic Culture	(2-0-2)
This course deals with the concept of Islamic culture, its relationship to knowledge and civilization, encountered challenges and means of overcoming them. The course underlines the general characteristics of Islam, such as being the religion of science, moderation, and morals. It also covers the inter-civilizations dialogue as well as introducing Islamic doctrine and pillars besides discussing faith nullifiers.		
Prerequisite	None	



Second Year – 1 st Semester (3 rd Level)		
PHDR 2101	Pharm. D Orientation	(1-0-1)
The course is designed to provide the students with an introductory knowledge of pharmacy profession and enables an understanding of pharmacist role in the society and healthcare systems. The course explores various career opportunities in pharmacy profession with an overview of carer guidance and pharmacy licensure examinations. The course will also provide the curriculum of Pharm. D program with its vision, mission, goals, graduate attributes, learning outcomes, teaching, and learning assessments methods, experiential learning, course descriptions and program academic regulations and policies.		
Prerequisite	None	
BSHC 2401	Human Anatomy and Physiology I	(3-2-4)
The course aims to provide medical field students with an introduction to the basic concepts regarding the anatomical and physiological aspects of the human body. It is an outcome-based integrated course in which students will understand the functions of different body parts to maintain homeostasis that affects health and well-being considering the structural organization of the human body. The course content gives extensive knowledge and understanding about the basics of Cells & tissues, anatomy and physiology of the musculoskeletal system, integumentary system, blood and cardiovascular system, and respiratory system.		
Prerequisite	BIOL 1301	
BSHC 2302	Pharmaceutical Organic Chemistry I	(2-2-3)
This course provides students in pharmacy with a solid foundation in organic chemistry where relevant pharmaceutical topics will be applied to illustrate organic chemistry. It covers the molecular orbital theory of organic compounds, saturated aliphatic cyclic and acyclic hydrocarbons, principles of the IUPAC nomenclature of organic compounds, unsaturated hydrocarbons, halogen compounds, isomerism and stereoisomerism of organic compounds, alkyl halides, free-radical reactions, alcohols, ethers, epoxides, sulfides, and their pharmaceutical applications. Laboratory experiments include the identification, purification, and synthesis of the organic compounds that are discussed in the theoretical class.		
Prerequisite	CHEM 1301	
BSHC 2303	Biochemistry I	(2-2-3)
This course introduces students to the fundamental concepts of biochemistry and their applications in pharmacy. These encompass structure, properties, biological functions, and regulation of macromolecules and micronutrients essential to life including carbohydrates, lipids, steroids, prostaglandins, amino acids, proteins, nucleotides, nucleic acids, hemoproteins, enzymes, xenobiotics, vitamins, minerals, free radicals, and antioxidants. The experimental part deals with the biochemical identification and estimation of biomolecules in serum samples.		
Prerequisite	CHEM 1301	
BSHC 2304	Microbiology	(2-2-3)

Throughout this course, students will gain a general understanding of microbiology and its relevance to the pharmacy. Students will learn about the principles of microbiology, host-parasite relationships, normal flora, the pathogenicity of microorganisms, bacterial structure and classification, bacterial growth, metabolism, and genetics. The course will address the basic medical bacterial groups in detail (Gram-negative and Gram-positive bacilli and cocci). As part of the curriculum, students will also learn about infectious diseases, antibiotic resistance, and microbiological quality control for pharmaceutical manufacturing. The course will also cover some topics related to community health, including the modes and sources of infections as well as the prevention of these infections.

Prerequisite	BIOL 1301
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PHDR 2202	Pharmaceutical Calculations	(2-0-2)
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The course is designed to enrich the students with thorough knowledge of basic math and fundamentals of pharmaceutical calculations that can be applied to pharmacy practice and pharmaceutical sciences. This includes different concentration expressions and inter-conversion between different expressions, dose and dosage calculations, and calculations of pH, buffer capacity, and isotonicity.

Prerequisite	None
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ISLM 0212	Intellectual Awareness	(2-0-2)
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This course deals with the concept of intellectual awareness, and focuses on its legitimacy, rules, significance, basis, and components. The course sheds the light also the means of achieving and enhancing intellectual awareness among students and discusses the reasons of intellectual deviation and methods of prevention and treatment.

Prerequisite	None
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Second Year – 2nd Semester (4th Level)

PHDR 2303	Pharmaceutics I	(2-2-3)
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This course is meant to introduce pharmaceutical dosage forms that include the art and science of developing various conventional dosage forms such as solutions including aqueous and non-aqueous pharmaceutical solutions, syrup pharmaceutical solutions, and sterile dosage forms including parenteral preparations. This course also covers the fundamentals of physical pharmacy such as solubility and rheology. This course is designed to help pharmacy student to understand and develop the concepts of formulation development, quality control, and their application in disease treatment.

Prerequisite	PHDR 2202
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BSHC 2405	Human Anatomy and Physiology II	(3-2-4)
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This course provides medical field students with essential information regarding the structural and functional aspects of different body systems. Students will gain knowledge of different body systems like GIT, CNS, genitourinary, renal, and endocrines. that will help them to apply such

knowledge in the future understanding of pathophysiological and therapeutic aspects of diseases. Such an understanding will enable the students to apply these concepts in dealing with a variety of patients in various clinical settings.

Prerequisite	BSHC 2401
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BSHC 2306	Pharmaceutical Organic Chemistry II	(2-2-3)
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This course is a continuation of BSHC 2302, with an emphasis on the physicochemical properties of organic molecules. It covers acids and bases, aromaticity, benzene and substituted benzene, aldehydes and ketones, carboxylic acids, and derivatives (acid chlorides, amides, anhydrides, esters), amines and heterocyclic compounds. Laboratory experiments include the identification, purification, and synthesis of the organic compounds that are discussed in the theoretical class.

Prerequisite	BSHC 2302
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BSHC 2207	Biochemistry II	(2-0-2)
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This course provides the application of clinical laboratory data to various metabolic states' management, including causes, screening, diagnosis, progression, and treatment evaluation. It includes disorders related to the metabolism of carbohydrates, lipids, steroids, amino acids, proteins, nucleoproteins, nucleic acids, hormones, and hemoproteins.

Prerequisite	BSHC 2303
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BSHC 2208	Pathophysiology I	(2-0-2)
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Pathophysiology relates to the knowledge of anatomy and physiology and understanding the disruptions in homeostasis resulting in a disorder and a basic understanding of factors that contribute to the occurrence of various diseases. The course focuses on the general principles of disease and examines the molecular, cellular, tissue, and organ-level basis of the pathophysiological changes leading to human diseases. It comprises the etiologic mechanisms of diseases including cellular injury, inflammation, neoplasm, and hematological disorders.

Prerequisite	BSHC 2401
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BSHC 2209	Molecular Biology	(2-0-2)
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In this course, students will learn about living systems at the DNA, RNA, and protein levels. Throughout the course, the following topics will be covered: DNA replication, RNA replication, and protein production, as well as the central dogma, DNA repair, and Mechanisms for regulating gene expression. They will also learn how these molecules can be modified for practical applications in the pharmaceutical industry. In addition, students will develop an understanding of how a drug interacts with a gene (genetics) or genes (genomics).

Prerequisite	None
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Third Year – 1st Semester (5th Level)

BSHC 3210

Pathophysiology II

(2-0-2)

This course is designed to apply the knowledge of the general principles of pathophysiological concepts and clinical practice guidelines for disease states and their interpretation in the clinical settings and then further explores information dealing with specific disorders of major organ systems like nervous system, cardiovascular, respiratory, digestive, endocrine, and urinary systems. This course emphasizes the pathological changes in the organ and cellular physiology which necessitates pharmacist intervention.

Prerequisite

BSHC 2208

PHDR 3304

Pharmacology I

(2-2-3)

The pharmacology course will provide the students with an in-depth understanding of pharmacokinetic and pharmacodynamic principles of drugs as well as the ability to use and apply this information that promotes a rational approach to therapeutics. The drugs acting on different body systems will be studied in a series of four pharmacology courses.

Pharmacology I, the first among the series was set up with an introduction part covering the basic terms and fundamental aspects of pharmacology, general concepts of pharmacokinetics and pharmacodynamics, new drug development, types of adverse drug reactions, and drug interactions. In continuous the course also delivers lectures on the pharmacology of drugs acting on the autonomic nervous system (sympathomimetics, sympatholytics, parasympathomimetics, parasympatholytics, ganglionic stimulants, and blockers, neuromuscular junction blockers) and cardiovascular system (antihypertensive drugs, antianginal drugs, drugs for congestive heart failure, antiarrhythmic drugs, drugs for shock). The practical part of this course includes animal handling procedures, preparation of different physiological solutions, dose calculations, routes of drug administration and blood collection methods, and demonstration of preclinical pharmacological screening procedures on the drugs affecting the body systems that were discussed in the lecture sessions.

Prerequisite

BSHC 2405

PHDR 3305

Pharmaceutics II

(2-2-3)

The course equips pharmacy students with different types of disperse systems or colloidal systems such as emulsion, suspension, etc. This course covers the physical and physicochemical properties of formulations, as well as the principle involved. Fundamentals of physical pharmacy, physical properties of drug molecules, interfacial phenomenon, surfactants, and drug stability. In addition, the course describes the method and principle involved in the development of pressurized dosage forms such as pharmaceutical aerosol.

Prerequisite

PHDR 2303

PHDR 3306

Medicinal Chemistry I

(3-0-3)

In this subject the students will know about chemistry, structure-activity relationship (SAR), mechanism of action of various drugs, biosynthesis, their uses, and chemical nomenclature together with a brief introduction to drug discovery, drug designing methods, and drug development process. Side effects of various class of drugs that act on different systems and organs of the human body, which includes drugs acting on; the autonomic nervous system (cholinergic agonists, cholinergic antagonists, adrenergic agonists, adrenergic antagonists, dopaminergic drugs, serotonergic drugs), cardiovascular system (antihypertensive drugs, antianginal drugs, drugs for congestive heart failure, antiarrhythmic drugs), central nervous system (CNS depressant drugs, sedatives and hypnotics, anticonvulsant drugs, anxiolytics/antianxiety drugs, antidepressants), opioid drugs (opioid drugs, histamine, and antihistamine) opioid drugs acting at histamine receptors.

Prerequisite	BSHC 2306
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BSHC 3211	Immunology	(2-0-2)
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In this course, the students will explore the fundamental principles of immunology with an emphasis on innate and adaptive immune responses, as well as the generation of immunoglobulin and T cell receptor genes and proteins. As part of this course, students will also learn about the cellular and molecular interactions involved in the induction, expression, and regulation of cellular and humoral immune responses. It will also cover the pathophysiology of disorders of normal immune processes and how they are related to diseases, including hypersensitivity reactions, autoimmunity, and cancer. Additionally, the students will learn how vaccines are designed and altered to create a powerful direct immune response and what their fundamental properties are. Vaccines most commonly used in the Kingdom of Saudi Arabia will be emphasized.

Prerequisite	None
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PHDR 3307	Pharmacognosy	(2-2-3)
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The course is designed to provide basic information about pharmacognosy and phytochemistry, including introduction and definitions, the scope of pharmacognosy, and their source, classification, plant description, morphology, quality control of herbal drugs, adulteration, and primary & secondary metabolites. The course includes the identification of major active constituents and the use of medicinal plants.

Prerequisite	None
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Third Year – 2nd Semester (6th Level)

PHDR 3208	Pharmaceutical Biotechnology	(2-0-2)
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During this course, students will be exposed to various topics in Biotechnology. Students will learn about therapeutic proteins, recombinant DNA technology, genomics, proteomics, and microarrays. The course will also explain the importance of gene therapy and stem cells, which can be used to prevent and treat diseases. This course will also focus on some molecular and cellular engineering approaches that can be used in developing biotherapeutics, nanomedicines, and advanced delivery systems.

Prerequisite	BSHC 2209	
PHDR 3309	Pharmacology II	(2-2-3)
This course is the second of the pharmacology series and includes the pharmacology of important drugs such as autocoids, anti-asthmatics, antitussives, mucolytics, and drugs acting on the central nervous system (CNS) like general and local anesthetics sedatives, hypnotics, anti-epileptics, drugs for psychiatric and neurodegenerative disorders, CNS Stimulants, drugs of abuse, alcohols, opioid analgesics, non-steroidal anti-inflammatory drugs, and drugs for joint disorders. The practical part of this course includes in-vivo experiments demonstrating the effects of the above-mentioned drugs. It also includes the presentation of selected drug profiles by the students.		
Prerequisite	PHDR 3304	
PHDR 3310	Pharmaceutics III	(2-2-3)
This course is designed to equip students with the requisite knowledge in the areas of medication dispensing and pharmaceutical technology procedures used in the pharmaceutical industry. The course's theoretical and practical components are designed to work together to familiarize pharmacy students with certain principles and techniques involved in the design, development, and characterization of semi-solid and solid dosage forms such as cream, ointment, gel, suppositories, powder, granules, tablets, capsule, etc. In addition, the course describes drug absorption through the skin. This course covers various manufacturing processes, materials packaging, and quality control (QC).		
Prerequisite	PHDR 3305	
PHDR 3211	Medicinal Chemistry II	(2-0-2)
This course is designed to be linked with medicinal chemistry I and it takes big attention to the drugs that work on anti-hyperlipidemic, glucocorticoids, estrogens, progestins, nonsteroidal anti-inflammatories, anti-tumor agents, and enzyme inhibitors. In this subject, the students will know the drug development process, together with a brief introduction to the drug discovery and designing methods, and deals with the chemistry, structure-activity relationship, mechanism of action, chemical nomenclature, side effects of various classes of drugs that act on different systems and organs of the human body, to the above-mentioned categories of drugs.		
Prerequisite	PHDR 3306	
PHDR 3412	Therapeutics I	(3-2-4)
Therapeutics course integrates the learning of concepts relating to the pathophysiology of the disease with the knowledge of pharmaceutical sciences and its application in preparing management plans for various diseases with rationale drug therapy. The course enlightens the students about the safe, effective, and economic use of medicines and emphasizes the role of the pharmacist in the individualization of the patient's medication regimen and the formulation of pharmaceutical care plans. It describes the pragmatic approach in the application of the principles of pharmaceutical care and the specific skills of clinical pharmacy. This course is designed in five parts along with a practical framework of case-based and problem-based teaching-learning methods. spread over five semesters. The therapeutics I course incorporates		

the sequential and integrated learning of the above concepts in common diseases related to cardiovascular, respiratory, and ophthalmological disorders.

Prerequisite	BSHC 3210
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PHDR 3213	Pharmacy Practice Skills I	(2-0-2)
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Pharmacy practice skills are necessary for effective productivity and career development in pharmacy fields. With these skills, the student is sure to be effective at community service delivering the most effective pharmaceutical care in community, hospital, and clinical pharmacy settings. The Pharmacy practice skills will be studied in a series of three courses.

This course is the first in the pharmacy practice skills series that focuses on contemporary community and institutional pharmacy practices. This course is designed to introduce the student to the various roles played by pharmacists in hospital and community settings, such as prescription study, identification of different types of medication errors and rectifying them with different prevention strategies, dispensing of drugs, drug distribution process in hospitals, and hospital drug policies. The course will also emphasize the organization and administrative aspects of community and hospital pharmacies.

Prerequisite	PHDR 3304
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Summer Training I Introductory Pharmacy Practice Experience (IPPE) - 1

PHDR 3381	IPPE 1 – Community Pharmacy	(0-40-3)
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This experiential course provides practical training in various aspects of community pharmacy for students. The scope will include product distribution, clinical pharmacy services, and pharmacy management. It prepares the student the transition from the academic setting to the practice environment through the application of what they have learned. In addition to processing, preparing, and dispensing prescriptions, the training also involves improving counselling, communication, soft skills, drug information, documentation, handling controlled substances, and over-the-counter products, and monitoring therapy.

Prerequisite	PHDR 3304
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Fourth Year – 1st Semester (7th Level)

PHDR 4314	Pharmacology III	(3-0-3)
This course is the third part of the pharmacology series and includes the pharmacology of drugs acting on blood components (hematopoietic medication, plasma expanders, anticoagulants, antiplatelet agents, thrombolytic agents), the immune system (immunosuppressants, immunostimulants), the digestive system (antacids, antiulcer agents, laxatives, antidiarrheal agents, emetics, antiemetics, drugs for inflammatory bowel disease) the endocrine system (hypothalamic and pituitary agents, adrenocortical agents, thyroid and parathyroid agents, antidiabetic agents).		
Prerequisite	PHDR 3309	
PHDR 4415	Therapeutics II	(3-2-4)
Therapeutics course integrates the learning of concepts relating to the pathophysiology of the disease with the knowledge of pharmaceutical sciences and its application in preparing management plans for various diseases with rationale drug therapy. This course is designed with a practical framework of case-based and problem-based teaching-learning methods. The therapeutics II course incorporates the sequential and integrated learning of the above concepts in common diseases associated with the neurological, psychiatric, and hematological disorders.		
Prerequisite	PHDR 3412	
PHDR 4316	Pharmacy Practice Skills II	(2-2-3)
This course is the second in the pharmacy practice skills series that focuses on patient counseling and clinical communication skills as a part of pharmaceutical care. The course emphasizes patient counseling guidelines focusing on patient adherence and compliance in different age groups, and verbal (writing) and non-verbal (oral) communication skills with patients and other healthcare professionals. Documentation in pharmaceutical care practice will also be discussed. The course includes interactive lectures, group discussions, simulation modes of different types and techniques of patient counseling and communication skills.		
Prerequisite	PHDR 3213	
PHDR 4317	Biopharmaceutics and Pharmacokinetics	(2-2-3)
This course assists students in grasping the fundamental concepts that determine the time course of drug concentrations in the body. A comprehensive understanding of fate of the drug within human body (absorption, distribution, metabolism, and elimination) will be explained and interrelated to the basic pharmacokinetics of a drug. In addition, this course introduces basic principles and concepts of pharmacokinetics parameters and modeling. The practical part of this course will be related to bioavailability and bioequivalence studies.		
Prerequisite	PHDR 3310	
PHDR 4118	Pharmacy in Healthcare System	(1-0-1)
This course introduces the student to the structures, functions, and workforce of the kingdom's health Care System. It is also designed to provide the student with an opportunity to compare the methods used in other countries to address the needs of society for the provision of health care		

to its members. During this course, students will learn management skills, ethics, and behaviors of professional pharmacists in healthcare settings.

Prerequisite None

Fourth Year – 2nd Semester (8th Level)

PHDR 4324 Pharmacology IV (3-0-3)

This course is the fourth of the pharmacology series and focuses on the mechanistic basis underlying the drug-based treatment of microbial infection, cancer, and immune disorders. Topics covered include general principles of antimicrobial drugs, natural, semisynthetic, and synthetic classification, and pharmacology of antibacterial, antiviral, antifungal, antiparasitic drugs, and anticancer drugs. Detailed information will be taught on the spectrum of activity, mechanism of action, microbial resistance, drug of choice, indications, contraindications, adverse effects, and drug interactions of antimicrobial and anticancer drugs. The course also covers the drugs used for the treatment of immunological disorders and vitamins.

Prerequisite PHDR 4314

PHDR 4425 Therapeutics III (3-2-4)

Therapeutics course integrates the learning of concepts relating to the pathophysiology of the disease with the knowledge of pharmaceutical sciences and its application in preparing a management plan for various diseases with rationale drug therapy. This course is designed with a practical framework case-based and problem-based teaching- learning methods. The therapeutics III course incorporates the sequential and integrated learning of the above concepts in common diseases related to endocrine, rheumatologic, immunologic, and nutritional disorders.

Prerequisite PHDR 4415

PHDR 4226 Pharmacy Practice Skills III (1-2-2)

This course is the third in the pharmacy practice skills series. The course deals with patient assessment methods delivering the skills necessary for patient physical and vital signs assessment, interpreting clinical laboratory parameters, and collecting subjective and objective data from the patient.

The practical session includes an introduction to patient assessment equipment, and demonstration of physical and clinical examination in simulation mode and in clinical setting.

Prerequisite PHDR 4316

PHDR 4227 Clinical Pharmacokinetics (2-0-2)

Clinical pharmacokinetics includes the application of pharmacokinetics and drug action to the selection and titration of medications. The course includes consideration of patient, disease, and drug factors that affect the concentrations of a medication and its effect, duration of effect, and elimination from the body. Calculation exercises include empiric dose selection and modification of doses based on therapeutic drug monitoring.

Prerequisite PHDR 4317

PHDR 4228 Alternative and Complementary Therapies (2-0-2)

This course provides a description and analysis of the growing use of complementary and alternative therapies. Basic principles include a partnership between the patient and the practitioner in the healing process, the appropriate use of conventional and alternative therapies to facilitate the body's innate healing response, and the consideration of all factors that influence health, wellness, and disease.

Prerequisite BSHC 3210

PHDR 4329 Patient Safety and Informatics (2-2-3)

This course provides core knowledge and skills needed by pharmacists to promote patient safety. This course will emphasize the tools of healthcare informatics; understand the epidemiology and patient safety data privacy and security. Informatics tools such as computer order entry, electronic medical record systems, health information exchanges, and decision support will be explained. The use of informatics tools to promote patient safety will be emphasized.

Prerequisite None

Summer Training II Introductory Pharmacy Practice Experience (IPPE) – 2

PHDR 4381 IPPE 2 – Institutional Pharmacy (0-40-3)

This experiential course provides practical training for students to gain experience in institutional pharmacy. As part of this, students will work in the hospital pharmacy handling prescriptions, especially scheduled, high alert, controlled and emergency medications, and dispensing these medications to the patients. In addition, the students will deal with medication errors, adverse reactions, etc.

Prerequisite PHDR 3381

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Fifth Year – 1st Semester (9th Level)

PHDR 5430	Therapeutics IV	(3-2-4)
Therapeutics course integrates the learning of concepts relating to the pathophysiology of the disease with the knowledge of pharmaceutical sciences and its application in preparing management plans for various diseases with rationale drug therapy. This course is designed with a practical framework of case-based and problem-based teaching-learning methods. The therapeutics IV course incorporates the sequential and integrated learning of the above concepts in common diseases related to renal & urologic disorders, GIT including liver and pancreatic disorders, and the reproductive system.		
Prerequisite	PHDR 4425	
PHDR 5231	Toxicology	(2-0-2)
This course focuses on the most recent updates and the most clinically relevant aspects of toxicology. Students will get the primary key information about principal areas in toxicology, including the principles of toxicology, pharmacodynamics, mechanisms, prevention, and treatment of the toxic effects of drugs and poisons (heavy metals, pesticides, household toxins, and different groups of medications). Learn the relevant detoxification treatments for general toxicology and common antidotes and their mechanism of action.		
Prerequisite	PHDR 4324	
PHDR 5332	Drug Information and Literature Evaluation	(2-2-3)
This course is designed to help students understand the types of drug information available and what sources of information are appropriate to use in clinical settings to provide informed decision-making about drug therapy. The emphasis is on the retrieval, evaluation, interpretation, and practical implications of medical literature on the delivery of pharmaceutical care. Published medical literature relating to all drug information resources—primary, secondary, and tertiary—is reviewed and discussed to illustrate contemporary issues in the interpretation of relevant research findings.		
Prerequisite	PHDR 4324	
PHDR 5233	Pharmacy Law and Ethics	(2-0-2)
This course provides students with a detailed description and review of the rules and regulations for the organization of the pharmacy profession. The course shed light on processes and regulations for pharmaceutical product regulation and registration, including drugs, vaccines, and diagnostic substances. The course also introduces the students to the fundamentals of professional ethics as well as the underlying ethical theories, enabling them to comprehend what constitutes legal and unlawful behavior as well as what is ethically acceptable and what is not.		
Prerequisite	None	
PHDR 5234	Pharmacy Practice Management and Marketing	(2-0-2)
This course introduces concepts and principles related to managing pharmacy operations and systems for patient care, managing financial aspects, budgeting techniques, inventory control, and purchasing skills to manage their pharmacies.		

Prerequisite	None	
PHDR 5235	Research Methodology	(2-0-2)
The purpose of this course is to provide students with basic knowledge of methods and techniques of clinical research. During this course, students will develop critical skills to help them to make decisions in their professional jobs. As part of the course, students will also be introduced to the basic elements of a research framework, ethical issues regarding the use of human subjects, formulation of a research problem, construction of hypotheses, experimental and observational study designs, data collection, dealing with variables and their measurement, writing a research proposal, and data presentation.		
Prerequisite	None	
Fifth Year – 2 nd Semester (10 th Level)		
PHDR 5441	Therapeutics V	(3-2-4)
Therapeutics course integrates the learning of concepts relating to the pathophysiology of the disease with the knowledge of pharmaceutical sciences and its application in preparing management plans for various diseases with rationale drug therapy. It describes the pragmatic approach in the application of the principles of pharmaceutical care and the specific skills of clinical pharmacy. This course is designed with a practical framework of case-based and problem-based teaching-learning methods. The therapeutics V course incorporates the sequential and integrated learning of the above concepts in common disorders related to infectious diseases, oncology, and diseases affecting the pediatric and geriatric age groups.		
Prerequisite	PHDR 5430	
PHDR 5242	Self-care and Non-Prescription Medications	(2-0-2)
The purpose of this course is to provide an overview of the principles and practices involved in non-prescription drug treatments for common problems, such as coughs and colds, dermatological, gastro-intestinal, and analgesic disorders where consumers seek self-treatment alternatives, as well as pharmacists' roles as advisors, communicators, and educators. In addition to non-prescription medications, the course covers herbal, vitamin, and homeopathic products.		
Prerequisite	PHDR 3310 of Hafr Al Batin جامعة حفر الباطن	
PHDR 5143	Pharmacoepidemiology	(1-0-1)
The course introduces the concept and general principles of pharmacoepidemiology. It introduces students the cause-and-effect patterns of health and disease in large populations that advance safe and effective drug use and positive care outcomes within those populations.		
Prerequisite	PHDR 5235	
PHDR 5244	Pharmacoeconomics	(2-0-2)
The course is designed to prepare graduate pharmacists to get involved in pharmacoeconomic decision-related pharmaceuticals using different analytical approaches. This includes the application of economic principles and theories to the provision of cost-effective pharmaceutical products and services that efficiently optimize patient-care outcomes.		
Prerequisite	PHDR 5235	

PHDR 5145	Leadership and Professional Development	(1-0-1)
This course teaches students how to recognize true leadership and management qualities and how to demonstrate those qualities in front of a team. The course discusses the actions required to develop leadership skills, team-leading practices, and the ability to manage others and the workplace. It emphasizes various leadership styles and includes topics such as designing, developing, and delivering learning interventions, as well as utilizing learning technology to sustain progression and help professions thrive.		
Prerequisite	None	
PHDR 5146	First Aid and Emergency Medicine	(0-2-1)
Introduction to First Aid and Emergency Medicine, triage, and referral skills for all ages and all systems of the body. Management of the injured patient and shock, Maintenance of airway passages and intravenous line, Cardiovascular resuscitation, Basic Life Support, management of bleeding, open wounds, fractures, epilepsy, coma, sunstroke, animal bites, high-grade fever, burns, poisoning, drowning, head injuries and emergency procedures at home, work, or leisure.		
Prerequisite	BSHC 3210	
PHDR 5247	Pharmacogenomics	(2-0-2)
During this course, students will gain an understanding of how genetic makeup affects drug absorption, efficacy, metabolism, and response. Also, they will learn how to use pharmacogenomic information to make decisions about gene-drug combinations across a variety of conditions to optimize treatment efficacy. As part of this course, students will also learn how to design and analyze different types of pharmacogenomic approaches. It will also explore the foundations of gene therapy and how genomic technologies can be applied to new drug discovery.		
Prerequisite	BSHC 2209	
PHDR 5191	Pharmacy Project and Seminar	(1-0-1)
In this course, students will be involved in the development of data collection forms and methods to archive data in a way that facilitates their analysis. The purpose of this course is to provide students with the opportunity to enhance their skills in public speaking and presentation skills. In addition, it encourages them to think critically about pharmacy-related topics. The course includes developing short presentations by using visual aids and effective oral delivery.		
Prerequisite	PHDR 5235	

Sixth Year Advanced Pharmacy Practice Experience (APPE) - Clinical Rotations		
PHDR 6401	Internal Medicine I	(0-40-4)
Internal medicine is a part of the clinical rotation with a holistic application and reinforcement of integrated learning outcomes accomplished during previous academic years. It is an advanced pharmacy practice experience for the Pharm D students with an opportunity to learn patient management of different disease conditions during the clinical rounds by the internal medicine team in real-time at the bedside. The internal medicine I incorporate active engagement as a member of the inter-professional team in direct patient care activities by documenting and evaluating patient history, evaluating therapeutic regimen, monitoring lab values, identifying drug therapy problems, developing communication skills, and actively participating in case discussions, seminars, and journal clubs.		
Prerequisite	All courses including IPPE 1 and IPPE 2	
PHDR 6402	Internal Medicine II	(0-40-4)
Internal Medicine II is a continuation of the Internal Medicine I course. This part of the clinical rotation reinforces and applies the developed knowledge, skills, and values to the patient-centered approaches. The interns will get involved in the application of critical thinking and problem-solving skills to design and communicate drug therapy interventions, solve the identified drug therapy problems, provide appropriate monitoring parameters for the chosen treatment plan, demonstrate the ability to influence therapy outcomes, participate actively in case presentations and patient counseling sessions.		
Prerequisite	All courses including IPPE 1 and IPPE 2	
PHDR 6403	Critical Care	(0-40-4)
This course will allow for the recognition of the needs of critically ill patients with different acute and life-threatening conditions. Special emphasis will be given to taking a medical history, evaluating drug therapy, doing pharmacokinetic monitoring in the light of clinical data, and delivering patient care to critically ill and those with serious injuries. Knowledge developed through this course will enable students to collaborate in the provision of comprehensive management to patients who are admitted to critical care settings.		
Prerequisite	All courses including IPPE 1 and IPPE 2	
PHDR 6404	Community Pharmacy	(0-40-4)
The purpose of the community pharmacy clinical rotation is to provide the student with an educational experience where they can develop the skills and judgment necessary to apply the knowledge gained in the basic and clinical sciences to specific patient care situations. In addition, the course seeks to demonstrate the philosophy that clinical (APPE) and distributive pharmaceutical services should be patient oriented and integrated in contemporary ambulatory practice. Students will be able to demonstrate core practice skills such as communication, pharmacy calculations, ethics, medication safety, wellness, and health promotion, informatics, and critical thinking.		
Prerequisite	All courses including IPPE 1 and IPPE 2	
PHDR 6405	Hospital Pharmacy	(0-40-4)

In this clinical rotation, students will meet with an assigned hospital pharmacist for a four-week experience to practice pharmacy in a hospital environment and learn all aspects of hospital pharmacy management and medication distribution systems. Students will demonstrate core practice skills in unit dose system, effective counseling, decision-making, communication, calculations, ethics, medication safety technology, informatics, and critical thinking.

Prerequisite	All courses including IPPE 1 and IPPE 2	
PHDR 6406	Ambulatory Care	(0-40-4)

The ambulatory care course is designed to offer students a comprehensive overview of the ambulatory and primary healthcare specialties on an outpatient basis in medical clinics, ambulatory surgical centers, hospital outpatient departments, and dialysis centers. The patient-centered ambulatory care aims to integrate prevention and care of both acute and chronic illnesses to optimize medication and health-related outcomes. This course offers students an opportunity to apply the knowledge and skills required for direct patient care in the ambulatory environment. This direct patient care allows students to function as integral members of the healthcare team and to be actively involved in the care of patients.

Prerequisite	All courses including IPPE 1 and IPPE 2	
PHDR 6407	Infectious Diseases	(0-40-4)

The purpose of this rotation is to provide PharmD students with a comprehensive knowledge of infectious diseases, a better understanding of antimicrobial pharmacokinetics and pharmacodynamics, as well as a solid understanding of infectious disease therapy. Students are required to attend daily rounds with the Infectious Disease team. This rotation provides the student with the knowledge necessary for optimizing anti-infective therapy for all consult patients as well as monitoring these medicines daily.

Prerequisite	All courses including IPPE 1 and IPPE 2	
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Table (1): University Elective Courses			
Group (1): Islamic and National Knowledge			
1	ISLM 0215	Integrity and Work Ethics	(2-0-2)
2	SOSE 0213	National Identity	(2-0-2)
3	SOSE 0214	The History and the Leading Role of the Kingdom	(2-0-2)
Group (2): Language Skills			
1	ARAB 0222	Communication Skills	(2-0-2)
2	ARAB 0223	Media and Society	(2-0-2)
Group (3): Thinking and Entrepreneurship			
1	MGTS 0232	Entrepreneurship	(2-0-2)
2	MGTS 0233	Sustainable Development	(2-0-2)
3	TUTR 0234	Talent and Innovation	(2-0-2)
4	SOSE 0235	Voluntary Work	(2-0-2)
Group (4): Technological Knowledge and Skills and Information Security			
1	CSEN 0242	Fundamentals of Digital Transformation	(2-0-2)
2	CSEN 0243	Fundamentals of Information Security	(2-0-2)
Group (5): Health and Safety Awareness			
1	HIMT 0251	Health Culture	(2-0-2)
2	CIEN 0252	Security and Safety	(2-0-2)
3	SSPA 0253	Physical Activity	(1-2-2)
4	CLNU 0254	Food Security	(2-0-2)
Total			30
The students will select only one course from each group			
ISLM 0215		Integrity and Work Ethics	(2-0-2)
This course deals with the concepts of work, profession, ethics, and their significance in Islam. It also highlights the factors affecting ethical behavior as well as the concepts and components of management in Islam. In addition, the course discusses the commendable professional ethics such as integrity and honesty, professional violations, means of overcoming irregularities and working conditions in Islam. There shall be as well ethical applications on the occupational and vocational systems within the Kingdom.			
Prerequisite		None	

SOSE 0213	National Identity	(2-0-2)
This course deals with the concept of national identity, and it highlights the means of promoting and safeguarding citizenship. The challenges encountered by national identity are also discussed as well as the means of dealing with them, in such a way that the national belonging shall be fostered among both individuals and the community.		
Prerequisite	None	
SOSE 0214	The History and the Leading Role of the Kingdom	(2-0-2)
This course deals with the contemporary history of the Kingdom of Saudi Arabia, the Riyadh recuperation by King Abdulaziz Al Saud, the decisive battles of the Kingdom's union as well as different stages of its renaissance and development. The course focuses also on the leading role, the worldwide importance, and the religious significance of the Kingdom.		
Prerequisite	None	
ARAB 0222	Communication Skills	(2-0-2)
This course aims at developing students' communication skills and preparing them for effective and successful communication. The course also provides students with appropriate communication cognitive and informational knowledge, besides enhancing their daily communicative practice using scientific methods.		
Prerequisite	None	
ARAB 0223	Media and Society	(2-0-2)
This course deals with the basic association of language to traditional media and language to social media websites. It explores the significance of media, its effects, functions, and responsibilities on both the individual and society. The course aims at optimizing students' awareness towards newfound media thoughts and social media marketing as well as community, woman and child media-related issues.		
Prerequisite	None	
MGTS 0232	Entrepreneurship	(2-0-2)
This course covers the fundamentals of entrepreneurship and its practical applications. It emphasizes on developing the ability to seize opportunities, create project plans and feasibility studies, and trade-off between different projects using modern scientific methods.		
Prerequisite	None	
MGTS 0233	Sustainable Development	(2-0-2)
This course defines development and sustainable development, and focuses on their objectives, fundamental principles, and impediments. It highlights not only sustainable development's theories, strategies and elements, but it also sheds the light on local community development and presents sustainable human development's standards along with their values and ethics.		

Prerequisite	None	
TUTR 0234	Talent and Innovation	(2-0-2)
This course marks out the concepts of talent and creativity and methods of identifying the gifted and talented individuals. Programs and enriching educative methods for talented and creative persons are also discussed besides methods of academic acceleration. In addition, this course sheds the light on the encountered challenges (counseling services), along with the family and school supportive role before dealing with the categorization of gifted persons with special needs.		
Prerequisite	None	
SOSE 0235	Voluntary Work	(2-0-2)
This course deals with the knowledge related to voluntary work and highlights its characteristics and significance across various divine religions, with a particular focus on the Islamic faith. It also outlines the traits and competencies associated to volunteers. The course sheds light on voluntary work forms, fields, mechanisms, factors of success, obstacles. Political and legal frameworks and planning methods for voluntary work are discussed as well, besides tracing the emergence and development of voluntary work in the Kingdom of Saudi Arabia and relevant institutions.		
Prerequisite	None	
CSEN 0242	Fundamentals of Digital Transformation	(2-0-2)
This course addresses the concept of digital transformation and its historical evolution towards rapid progress and digital transformation. It then focuses on using the latest communication and information technologies in developing digital infrastructure and facilitating the transformation into a digital future, including for instance, topics such as smart cities and IoT applications.		
Prerequisite	None	
CSEN 0243	Fundamentals of Information Security	(2-0-2)
This course covers the fundamental concepts and terminology related to the field of information security. It also lays the foundation for understanding data communications and the objectives of confidentiality, integrity, and authentication. It provides an overview of common threats and attacks, along with countermeasures and best practices for information security, including topics such as passwords, firewalls, mobile computing, antivirus measures. The course addresses some advanced subjects like biometrics and encryption.		
Prerequisite	None	
HIMT 0251	Health Culture	(2-0-2)
This course deals with the general principles of health, introducing therapeutic, preventive medicine, epidemiology, and infectious diseases. The course also marks out the fundamentals		

of proper nutrition, the benefits of food, and nutritional ingredients, as well as introducing the basics of first aid, saving lives, and reducing injury risks.

Prerequisite	None
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CIEN 0252	Security and Safety	(2-0-2)
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This course deals with security and safety concepts and addresses various types of risks encountered by individuals in public life and work environments, including traffic hazards. It covers first aid, types of wounds and injuries, methods of handling and prevention of injuries. In addition, it addresses the methods of fire prevention, fire-fighting systems, alarm systems and control panels of these systems. Moreover, it focuses on the development of a culture of occupational safety and security. Finally, the course deals with legislation regulating public safety and security, whether related to traffic or otherwise.

Prerequisite	None
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SSPA 0253	Physical Activity	(1-2-2)
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This course addresses, in its theoretical part, the significance of physical activity, its foundations and dimensions. It discusses the minimum level of physical activity required for health promotion, physical fitness, and its components, besides the basic principles of training. It covers muscular strength, muscular endurance, body structure, in addition to the fitness of the respiratory circulatory system. Moreover, it focuses on the ability to design and develop a fitness program. Finally, in the practical part, both individual and group activities are covered.

Prerequisite	None
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CLNU 0254	Food Security	(2-0-2)
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This course covers the general principles of food security, the composition of food, and the division of its nutritional groups. It addresses issues related to malnutrition, as well as the problem of food deficiency, its causes, and infectious diseases transmitted through food. The course also explores the reasons behind food scarcity on one hand, and food production and achieving food security on the other. The complete food chain system, along with the food constitution and international health regulations, are discussed as well.

Prerequisite	None
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Table (2): Elective Courses			
Group (1): Program Elective I			
1	PHDR 4219	Nuclear Pharmacy	(2-0-2)
2	PHDR 4220	Novel Drug Delivery Systems	(2-0-2)
3	PHDR 4221	Drug Design	(2-0-2)
4	PHDR 4222	Pharmaceutical Supply Chain Management	(2-0-2)
5	PHDR 4223	Forensic Toxicology	(2-0-2)
Group (2): Program Elective II			
1	PHDR 5236	Pharmacovigilance	(2-0-2)
2	PHDR 5237	Pharmaceutical Manufacturing	(2-0-2)
3	PHDR 5238	Public Health	(2-0-2)
4	PHDR 5239	Pharmaceutical Analytical Chemistry	(2-0-2)
5	PHDR 5240	Introduction to Cosmetic Products	(2-0-2)
Group (3): Free Elective			
1	XXXX xxxx	One of the free elective courses*	(2-0-2)
Group (4): Program Elective (Clinical rotation)			
1	PHDR 6408	Total Parenteral Nutrition	(0-40-4)
2	PHDR 6409	Hematology and Oncology	(0-40-4)
3	PHDR 6410	Surgery	(0-40-4)
4	PHDR 6411	Nephrology	(0-40-4)
5	PHDR 6412	Industrial Pharmacy	(0-40-4)
6	PHDR 6413	Endocrinology	(0-40-4)
7	PHDR 6414	Obstetrics and Gynecology	(0-40-4)
8	PHDR 6415	Psychiatry	(0-40-4)
9	PHDR 6416	Drug and Poison Information	(0-40-4)
10	PHDR 6417	Cardiology	(0-40-4)
11	PHDR 6418	Pediatrics	(0-40-4)
Total			66
One elective from each group 1,2,and 3, and three electives from group 4.			
* Free elective course will be selected based on the free courses offered by the University in the specific semester.			

PHDR 4219	Nuclear Pharmacy	(2-0-2)
Nuclear Pharmacy seeks to improve and support public health through the safe and effective use of radioactive drugs for diagnosis and therapy. The course provides an understanding of radiation safety, radionuclide production, preparation, and quality control of radiopharmaceuticals along with their specific use in different physiological conditions.		
Prerequisite	None	
PHDR 4220	Novel Drug Delivery Systems	(2-0-2)
This course is designed to enrich and update the student's knowledge and skills with recent development in drug delivery and formulation development. This includes the development of formulations, delivery systems, and technology needed for site-specific drug delivery to optimize pharmacological effects and reduce side effects. The course will emphasize covering both small molecular drugs and biomolecules. Additionally, regulatory considerations about the chosen devices will be covered.		
Prerequisite	None	
PHDR 4221	Drug Design	(2-0-2)
Students will have a knowledge of the fundamentals of drug design as well as the methodology of drug discovery and development. It discusses the fundamental concepts of new drug discovery with a focus on lead identification, optimization, and structure-based drug design techniques. Recent developments in the application of computational and combinatorial chemistry to drug design will be mentioned.		
Prerequisite	None	
PHDR 4222	Pharmaceutical Supply Chain Management	(2-0-2)
This course deals with the basic concepts and principles involved in the organizational issues related to the supply of healthcare products. The student will be able to understand the correlation of the pharmaceutical industry to healthcare supply chain management in community pharmacies and hospital pharmacies.		
Prerequisite	None	
PHDR 4223	Forensic Toxicology	(2-0-2)
This course introduces the student with an overview of a variety of topics within Forensic Medicine and Toxicology. Concepts covered in this course include an introduction to forensic toxicology and its applications, principles of forensic pathology, Instrumentation in Forensic Chemistry Laboratory, medico-legal systems, types of injuries/assault, and illicit drugs/poisons and their clinical correlation.		
Prerequisite	None	
PHDR 5236	Pharmacovigilance	(2-0-2)
The course provides students with a historical overview of drug products and vaccine regulations and safety procedures. It emphasizes the underpinnings of responsible drug use.		

The course aims to improve students' comprehension of the fundamental concepts and tools used in pre- and post-marketing safety surveillance of pharmaceutical products. Additionally, it explains how to use tools to proactively identify, report, and prevent adverse drug reactions.

Prerequisite

None

PHDR 5237

Pharmaceutical Manufacturing

(2-0-2)

This course explores the elements and implementation of Good Manufacturing Practices (GMP) regulations. This course enables students to develop technical skills, problem-solving, and supervisory skills to operate, monitor and improve the performance of pharmaceutical manufacturing systems, processes, and team members. Students will also learn about the many regulatory standards (US, European, World Health Organization, etc.), work practices, approaches to risk management, data integrity approaches, and industry protocols that are critical in the manufacture of safe medicines.

Prerequisite

None

PHDR 5238

Public Health

(2-0-2)

This course will enable students to broaden their knowledge and interest in the health field. The goals of this course are to provide students with an overview of current and emerging global health issues and their determinants, and to raise students' awareness of health issues. Furthermore, those issue require multinational and multi-sectoral action, to describe interventions and programs being implemented by major organizations to address public health concerns. This course will further discuss different guiding philosophies behind specific health interventions and identify factors that may impact the success or failure of an intervention.

Prerequisite

None

PHDR 5239

Pharmaceutical Analytical Chemistry

(2-0-2)

The subject is designed for the exploration of principles of qualitative and quantitative analysis together with the involved instrumentation and their uses in pharmaceutical drug monitoring especially focusing on the following subject matter: Various concentration units-Different steps for Chemical analysis-Basic concept of volumetric analysis-Neutralization reactions-Different types of Indicators-Precipitation titrations-Complexometric titrations- Oxidation/reduction titrations -Gravimetric study-Variou Organic and inorganic reagents. Introduction to spectroscopy methods of drug analysis. Quantitative drug analysis by ultraviolet and visible absorption spectroscopy (UV) and its principle pharmaceutical applications. Atomic emission and atomic absorption spectroscopy (AAS). Principle and introduction to electroanalytical analysis. Potentiometry and its utilization in pharmaceutical drug analysis-Gravimetry, Polarography, voltammetry, and its utilization in drug monitoring. General basics and involved principles for different chromatographic techniques-thin layer chromatography (TLC)-Column chromatography-Paper chromatography -High performance liquid chromatographic (HPLC) and its pharmaceutical industrial applications.

Prerequisite

None

PHDR 5240	Introduction to Cosmetic Products	(2-0-2)
This course introduces the knowledge of cosmetic products. In this course, students will learn the anatomy of the skin, hair, and dental system their functions, and relevant care preparations. Furthermore, students will study the most effective cosmetic active ingredients and their medical effects on skin and hair. Also, students will recognize the inactive ingredients for the preparation of cosmetic formulations. Moreover, students will learn the most important regulations for cosmetic products.		
Prerequisite	None	
PHDR 6408	Total Parenteral Nutrition	(0-40-4)
The purpose of this course is to enable students to acquire an understanding of all aspects related to specialized nutritional support for hospitalized patients (patients with critical illness, renal, hepatic failure, and metabolic and digestive disorders). This includes nutrition support basics, principles of healthy nutrition, nutritional assessment and calculations for parenteral nutrition, complications related to TPN preparation, and designing a TPN preparation room. Students will have the opportunity to develop clinical skills in patient assessment, patient monitoring, and formula adjustment while building upon their knowledge base. The students will be given clinical scenarios to determine their level of understanding of the various components of TPN during interactive sessions and exams.		
Prerequisite	All courses including IPPE 1 and IPPE 2	

PHDR 6409	Hematology and Oncology	(0-40-4)
This rotation will provide an opportunity to develop pharmacy practice skills in the management of various complications in hematology and oncology patients like leukemia, lymphoma, solid tumors, stem cell transplant, investigational drug services, palliative care, and chemotherapy plan. The student will have different patient care activities with a multidisciplinary healthcare team, case discussions, and case presentations.		
Prerequisite	All courses including IPPE 1 and IPPE 2	
PHDR 6410	Surgery	(0-40-4)
In this rotation, the student will indulge in the provision of pharmaceutical services to patients in the pre-operative, peri-operative, and post-operative settings. The student will participate in various activities designed to improve the student's working knowledge and experience with surgical patients like daily review of medication profiles, and design and modification of drug regimens, therapeutic drug monitoring, provision of drug information, review of discharge medications, and patient counseling.		
Prerequisite	All courses including IPPE 1 and IPPE 2	
PHDR 6411	Nephrology	(0-40-4)
In the nephrology rotation, the student will spend most of the time in the nephrology department providing pharmaceutical care to patients with acute kidney damage, chronic kidney diseases, metabolic and electrolyte disorders and to post renal transplant patients. Student will be exposed to drug and its dose selection, and dose adjustment based on the patient co-morbidities and		

medication pharmacokinetic studies. Preventive approaches to renal disease and further renal damage management steps will also be covered in this rotation.		
Prerequisite	All courses including IPPE 1 and IPPE 2	
PHDR 6412	Industrial Pharmacy	(0-40-4)
This course is designed to provide fundamental knowledge on pharmaceutical product development and translation from laboratory to market. In this course, students will get an opportunity to learn in-depth knowledge of research and development (R&D) from the explorative phase (medicinal chemistry, pre-clinical in vitro and in vivo studies and toxicity, pre-formulation) to optimization of formulation, pilot-plant, and production scale-up, as well as the regulatory framework. Important concepts and principles in the modern pharmaceutical industry, such as QbD (Quality-by-Design) will also be covered.		
Prerequisite	All courses including IPPE 1 and IPPE 2	
PHDR 6413	Endocrinology	(0-40-4)
The Endocrine rotation will provide the student with experience in diagnosing and treating conditions commonly seen in outpatient primary care, such as diabetes, hyperlipidemia, menopausal symptoms, osteoporosis, thyroid disease, and obesity. Inpatient care will be limited but will provide some exposure via in-hospital consultation to life-threatening acute conditions, such as diabetic ketoacidosis and adrenal crises.		
Prerequisite	All courses including IPPE 1 and IPPE 2	
PHDR 6414	Obstetrics and Gynecology	(0-40-4)
This rotation trains the student to identify and master different pharmacotherapeutic modalities used in reproductive system disorders, and gynecological and obstetrics pharmacotherapy. The student will understand the problem-solving process to determine the risk vs. benefits of using drug therapy during pregnancy and lactation. Describe the standard medical care required/ provided during pregnancy and its importance for the expectant mother and child. Design a pharmaceutical care plan for patients with pregnancy or other gynecological abnormalities.		
Prerequisite	All courses including IPPE 1 and IPPE 2	
PHDR 6415	Psychiatry	(0-40-4)
In this rotation, the student will practice as a member of healthcare team in the psychiatric wards where the patients are admitted with various disorders that complicate their treatment plan. The most commonly encountered medical conditions include depression, anxiety disorders, substance abuse, bipolar disorder, and psychotic disorders. The student will review patient medication records to optimize the therapeutic plan with individualized treatment goals.		
Prerequisite	All courses including IPPE 1 and IPPE 2	
PHDR 6416	Drug and Poison Information	(0-40-4)
The drug information center provides comprehensive, unbiased, evidenced-based medication information, and coordination of the activities of the Pharmacy and Therapeutics (P&T) Committee		

and its subcommittees. The student in this rotation will provide drug information services to the patients, physicians, nurses, and other health care providers. In addition, the student will have the opportunity to participate in daily issues of pharmacy services such as formulary and non-Formulary requests, drug shortages, drug recall, ADR reporting, development of departmental/hospital policies/protocols to standardize practices and improve the overall safety of the medication use process, education of staff regarding medication use policy guidelines and Formulary changes.

Prerequisite	All courses including IPPE 1 and IPPE 2	
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PHDR 6417	Cardiology	(0-40-4)
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In this rotation the student will gain a comprehensive experience in managing patients with complicated cardiovascular disease states and co-morbidities. Student will be trained in identifying and resolving medication therapy issues for patients admitted to the cardiology unit. Review of patient medication charts, provision of medical interventions, problem solving, review of medications prior to discharge, patient counselling during discharge, and effective communication with multidisciplinary healthcare team are key activities of this rotation.

Prerequisite	All courses including IPPE 1 and IPPE 2	
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PHDR 6418	Pediatrics	(0-40-4)
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In this rotation, student will develop professional skills in the field of pediatrics. Functioning as an integral member of the healthcare team, a student will participate in the patient care decision-making process, in a variety of clinical activities, demonstrate an understanding of common disease states and treatment modalities as well as their ability to provide pharmaceutical care (including appropriate dosage calculations and administration) and preventative care through immunizations. On this rotation, the most commonly encountered medical conditions include infectious diseases (acute otitis media, pneumonia, meningitis, gastroenteritis, and infant sepsis), nutritional issues, dehydration, and ingestions.

Prerequisite	All courses including IPPE 1 and IPPE 2	
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STUDENT RIGHTS AND RESPONSIBILITIES

<https://www.uhb.edu.sa/Pages/Regulation.aspx?Param=deanship&Ref=32>

Introduction

The University of Hafr Al-Batin is committed to fostering a culture of collaboration and communication among its students as well as fostering relationships between them and the university's staff, which includes faculty members and other staff members. The university has published this bylaw in order to safeguard this collaboration within its legal boundaries, realizing the significance of creating a proclaimed bylaw in which students are aware of their rights and obligations. This knowledge is based on a mutual understanding between the university and its students, who are eligible to bear responsibility for their behavior and actions within the parameters of the applicable regulations because they are aware of their academic and service rights and how to obtain them on the one hand, and of their obligations towards the university on the other.

First: The student's legal rights in each of the following categories

Academic Field

1. Creating the right atmosphere for learning is the first step in ensuring that students can learn and retain information with ease. To this end, all instructional resources are made available.
2. Acquiring the scientific and academic resources necessary for the university courses he is taking, in accordance with the guidelines and policies established by the institution that control the academic process.
3. Before beginning the registration processes for the courses provided by the system, obtaining the study plans in the college or department for the specialties accessible to him and evaluating the study schedules. In the event that it is not feasible to accommodate all students' requests to register for a course, this takes into consideration the order of priority when enrolling students in accordance with fair rules. 4- Modifying or adding to any course within the time frame set and communicated to students by the university's study and registration system, or canceling the entire summer semester.
5. A postponement or apologies for continuing your education with a valid justification recognized by the appropriate authority.
6. The dedication of university faculty to the lecture times, fulfilling the theoretical and practical hours of the course, and not postponing or modifying the times of

the lectures unless the instructors have announced that they would do so. As long as substitute lectures are offered for those that were postponed by the professor in order to fulfill the study plan's course requirements.

7. Without censorship or penalty, appropriate scientific investigation and conversation with faculty members, unless the discussion goes beyond what is required by public morality, the bounds of decency, and appropriate behavior. This is applicable in these situations during the lecture or during the office hours that were made known to the students. With the professor's dedication to following cultural customs and conventions while speaking with both male and female pupils.
8. In order to obtain a fair assessment of the student's skills, the test questions should be within the boundaries of the academic course that has been authorized, as well as its contents and connected topics. They should also take into mind a balanced and logical distribution of scores.
9. Unless there is a legal obstacle that prohibits them from being done in line with the pertinent regulations and instructions, administer all examinations that are held for the course. As long as the student is informed sufficiently in advance of the exam's date that he has been denied entry.
- 10- A request for the university to organize the system and controls for reviewing his final test response, among other requests, in accordance with the rules and decisions made by the institution.
- 11- After finishing their rectification and approval, he knew the outcomes of his major, midterm, and final tests.

Non -Academic (extracurricular) Field

- 1) Taking use of the assistance and social support offered by the university and taking part in the events organized there in compliance with the rules and directives of the university arranging this.
- 2) Receiving proper medical care by receiving treatment in clinics and hospitals connected to the university.
- 3) Making use of the university's resources (such as its bookstore, central and branch libraries, sports arenas, dining facilities, parking lots, Internet, etc.) in line with the policies and procedures that are in place there.
- 4) Acquiring the monetary incentives and rewards that the law mandates.

- 5) Nomination for training programs, visits both inside and outside the institution, assistance for his involvement in cultural events, and participation in volunteer work and community service projects in line with the policies and procedures in place at the university.
- 6) Making a complaint or filing a grievance regarding any issue that negatively affects students in their interactions with members of the faculty, department, college, or any other unit of the university; doing so in accordance with the regulations currently in effect at the university; and allowing the student to follow the progress of his complaint by the appropriate authority.
- 7) Allowing him to represent himself in front of any university official in a disciplinary case brought against him, and not imposing a punishment before hearing his statements, unless it can be established that his absence was due to an unacceptably lame excuse after being called twice.
- 8) Making a complaint regarding the disciplinary action taken against him in accordance with the set guidelines.
- 9) Maintaining his file inside the institution, handling it honestly, and only allowing the student, his guardian, or other individuals he has formally authorized to have access to it. With the exception of situations when the investigation authorities, judicial bodies, or a government body accountable for the contents of the file demand disclosure of or knowledge of the contents of such file. The contents of the student's file may not be revealed or disseminated unless doing so is required by a decision to impose a disciplinary sanction on him.
- 10) A student with special needs has the right to receive the services that are suitable for their requirements in accordance with the policies and guidelines currently in effect at the institution.

Second: The student's legal duties in the each of the following categories

Academic Field

- 1) Regular study and completion of all academic obligations in accordance with the policies of the policies and mechanisms in place at the institution, including those governing the start and conclusion of study, transfer, registration, apologies, delay, deletion, and addition. Additionally, utilize the university's academic advising program to its fullest potential.
- 2) Respecting faculty members, staff members from the university, other staff members of the businesses that deal with the institution, other students inside

the university, as well as visitors and guests, and not to hurt them in any manner, either verbally or physically.

- 3) Adhering to the norms and processes governing the conduct of lectures, attending them on a regular basis, and abstaining from them unless a valid excuse is provided.
- 4) To refrain from engaging in any form of cheating when completing coursework, research projects for graduation, or other study-related obligations. He also promises not to claim credit for the work of others.
- 5) The student's adherence to the regulations and procedures pertaining to the exams, including their promise not to fake, impersonate, cheat, bring illegal items into the testing area, or aid in the commission of any of these offenses.
- 6) The student's commitment to following the rules and guidelines laid forth by the official or observer in the testing facilities and to refrain from disturbing the drug during the administration of the exams.
- 7) Using the Blackboard e-learning platform, taking use of its capabilities, and collaborating with instructors to complete activities and assignments that are posted on the platform. To enhance the process of interacting with the system, students should download the Blackboard application to their smartphones.
- 8) Check the university's website and message boards for news, alerts, and announcements aimed at students on a regular basis.
- 9) Adding a cellphone number to the system of student records and updating it as needed.
- 10) The student's promise to regularly monitor the information in the email account that has been assigned to him on the school's network. Thanks to the student connecting his phone to his email account, he can read messages right away.
11. The student's dedication to monitoring his academic course attendance, as well as the warnings and exclusions that result from attending lectures, practical sessions, and final tests. Additionally, you should check up on whether the institution has approved any submitted absence justifications. Make sure the concerned instructors are aware of the accepted justifications and that they are used.
12. The student's promise to monitor his academic progress in the system of student records. and the ensuing academic warnings, study suspensions, and so on.

Non-Academic (Extracurricular) Field

- 1) The student's adherence to all applicable rules, bylaws, guidelines, and judgments of the institution and a promise not to lie, disobey, or submit falsified papers to achieve any right or advantage not permitted by the applicable rules.
- 2) Keep your university ID with you at all times and show it to staff or faculty members who ask for it.
3. You must not interfere with, tamper with, alter, or render useless any property or machinery owned by the university, nor should you take part in such activity.
- 4) Not to shield anybody who has engaged in behavior that would tamper with, damage, or deform university property.
- 5) The student's dedication to following the guidelines for setting up, organizing, and utilizing the university's resources for the tasks given to them.
- 6) The student agrees to adhere to Saudi culture, Islamic principles, and university clothing and conduct guidelines. They also promise not to engage in any activity that is against Islamic or campus morals.
- 7) Maintaining peace and quiet when utilizing university facilities, abstaining from smoking, and avoiding any disturbance or gatherings that are not authorized.
- 8) Not forming organizations inside the institution, creating or disseminating brochures, or gathering donations or signatures before receiving permission from the appropriate authorities.
- 9) Non-collective absences without a valid justification, or encouraging a student to skip lectures, exercises, science classes, or other regularly scheduled events as required by the rules.
- 10) Not having or disseminating media content that contravenes governmental or university policies.
- 11) Adhering to traffic regulations and security policies within the campus.

STUDENTS SERVICES

STUDENT COUNSELING SERVICES

STUDENT ACADEMIC COUNSELING

- Establishment of an academic guidance committee.
- Display and availability of dedicated office hours for student academic counseling by the assigned faculty member.
- Will notify students concerning the result of the selected program and academic issues.
- Regular interactions between student and teacher through e-mail or blackboard are practiced.
- Conducting regular meetings to discuss academic issues.
- An academic advisor is assigned to recognize the individual needs of pharmacy students like:
 - ✓ Assist with registration.
 - ✓ Understanding policies and procedures.
 - ✓ Scholarship and financial aid information.
 - ✓ Finding support in all forms across the university.
 - ✓ Co-curricular opportunities and expectations.
 - ✓ Follow up on the student's progress, especially those who are not in good academic standing.

STUDENT CAREER COUNSELING

- A Career counseling committee is established, and it has prepared a career guide that highlights curriculum requirements, as well as skills and abilities that may be developed and applied through each course of study.
- Committee will guide how academic experiences may translate to professional work settings for the range of listed career opportunities.
- The Career Guide series is framed out representing a collaborative effort between the University Career Centre and numerous academic units.

STUDENT PSYCHOLOGICAL COUNSELING

- A counselor from a medical background will assist to resolve some of the possible psychosocial problems of students like Stress, loneliness, bullying, ragging, peer adjustments, and parental and teacher pressure.

PERSONAL AND SOCIAL DEVELOPMENT

- The college counselor helps to recognize the ability of the students and aids to cherish the communication and interpersonal skills of the students.

CODE OF STUDENT CONDUCT

(Deanship of Student Affairs - University of Hafr Al-Batin 2023 - 1444)

Approved in the University Council Meeting No. 4 for the Academic Year 1444 on 14/04/1444.

Introduction

These guidelines outline the standards of behavior expected of all students enrolled at the University of Hafr Al-Batin, including those participating in external assessments as visiting students and those involved in training programs. The purpose is to regulate student behavior within the university and its affiliated activities.

Definitions

- **University:** The University of Hafr Al-Batin and its members, including students, faculty, and staff.
- **Student:** All enrolled students, including visiting students.
- **Disciplinary Committee:** Established to review violations and recommend penalties.
- **Violation:** Any act by a student that contravenes university regulations.
- **Penalty:** Any disciplinary action outlined in these rules.

Applicability

These rules apply to all students within the university, during university activities, and in all related venues.

Objectives

1. To regulate student behavior within university premises and activities.
2. To rehabilitate students who violate rules through educational methods.
3. To enforce disciplinary actions against students who breach university policies.

Implementation Authority

The Dean of Student Affairs, in collaboration with relevant committees, is responsible for enforcing these rules and informing students of any disciplinary actions taken.

Violations and Disciplinary Actions

Disciplinary measures apply only to actions occurring within the university context. The rules specify various violations, including academic dishonesty, misconduct, and behaviors that disrupt the educational process.

Committees

1. **Permanent Disciplinary Committee:** Comprised of university officials and faculty members, responsible for significant disciplinary actions.
2. **Subcommittees:** Established within faculties to handle minor violations.

Student Responsibilities

Students must adhere to university regulations and are accountable for their actions. Ignorance of the rules is not an acceptable defense.

Penalties

Penalties may include verbal warnings, written reprimands, course failures, suspension, or expulsion, depending on the severity of the violation.

Students can appeal disciplinary decisions to the university president within fifteen days, with potential extensions for valid reasons. Records of penalties are maintained confidentially, and the university president holds authority to handle special cases. The president may uphold, overturn, or order new investigations regarding appeals.

Conclusion

The Code of Conduct and Student Discipline aims to foster a respectful and productive academic environment. Students are expected to uphold these standards and contribute positively to the university community. Failure to comply will result in appropriate disciplinary measures as outlined in these guidelines.

SAFETY REGULATION

- Security and safety unit will be undertaken reasonable steps to ensure that no persons, including staff, students, or onsite visitors are put at risk by or as a result of the activities of the teaching or research laboratories.
- All staff and students will receive adequate training to ensure all laboratory activities are undertaken safely with pro-active approaches being taken.
- The Health and Safety Statement and Codes of Practice for the Department areas will be set out and one must read, understand and abide by them with the signature in the enclosed declaration and should submit the same to the security and safety unit.
- General safety rules to be followed by staff, students, and onsite visitors
 - ✓ Fire Alarm Procedure
 - ✓ Emergency contact numbers
 - ✓ Fire assembly points and their maps
 - ✓ First aid
 - ✓ Reporting of accidents
 - ✓ Restriction of working in Isolation on laboratory works or experiments outside normal hours without authorization.
 - ✓ Out of hours Lectures/Events with preapproval.

Specific safety guidelines will be followed such as

- ✓ Safety guidelines in Teaching Labs and Lecture Halls
- ✓ Safety guidelines in general laboratory practice and research laboratories.
- ✓ Chemical safety
- ✓ Biological safety
- ✓ Laser and radiological safety
- ✓ Compressed gas and cryogenic liquid safety

COMMUNITY HEALTH PROGRAM

The Community Health Program serves the following purposes:

- ✚ Enables students to gain a community-based perspective on the health challenges they encounter during their studies.
- ✚ Provides an opportunity for students to develop various professional and clinical skills by working with patients in real-life clinical and consultation settings.
- ✚ Familiarizes students with the local healthcare system, enhancing their understanding of how health conditions develop and progress in relation to environmental, familial, and social factors. It also allows students to observe how patients and their families perceive and manage health issues, encouraging them to take an active role in promoting the health and well-being of individuals and communities.



World Mental Health Day 10/10/2024



World Pharmacist Day 25/9/2024



SSCP24 event 14/9/2024



Wrong uses of medicine 21/5/2024



Wrong uses of medicine 21/5/2024



IHOP6 event 31/5/2024



Celiac Association 3/9/2024



Don't start your end (drugs) 13/11/2023



Saudi National Day 23/9/2023

UHB

كلية الصيدلة

College of Pharmacy

جامعة حفر الباطن University of Hafr Al Batin

COLLEGE FACILITIES

CLASSROOMS

The classrooms are equipped for a seamless learning experience, featuring comfortable seating and modern amenities. Each room includes projectors and whiteboards facilitating both in-person and online classes. These tools enhance collaborative learning and make sharing teaching content easy and effective.



AUDITORIUM

The auditorium is a versatile space designed to accommodate various events, including lectures, workshops, performances, and student gatherings. With a seating capacity of around 500, it provides an engaging environment for presenters and audiences alike.

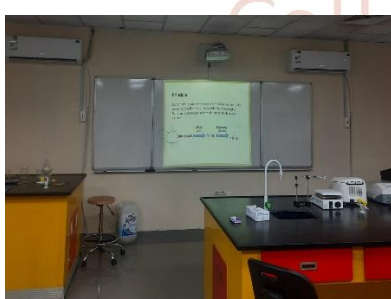
Equipped with state-of-the-art audiovisual technology, including high-quality sound systems and large projection screens, the auditorium ensures impactful and accessible presentations. The tiered seating arrangement allows for excellent sightlines, enabling all attendees to fully engage with speakers or performances.

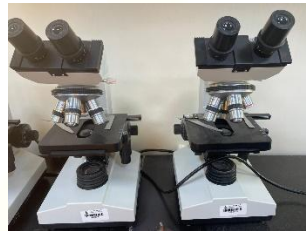
As a central hub for campus activities and community engagement, the auditorium plays a vital role in enriching the student experience.



LABORATORIES AND RESEARCH

College provides research facilities for students and faculty members. Students are encouraged to do the research projects under the supervision by faculty members.







STUDENT ASSESSMENT

Various tools are used for student assessment

- ✚ Written examinations: Using multiple choice questions (MCQs), short answer questions (SAQs), True or False and matching correct answer.
- ✚ Objective Structured Practical Examination (OSPE)
- ✚ Objective Structured Clinical Examination (OSCE)
- ✚ Evaluation by tutors in small group PBL tutorials
- ✚ Clinical encounter examination
- ✚ Case write-up
- ✚ Reflective essays
- ✚ Reports on the community activity program

ACADEMIC ADVISORY PROGRAM

In cooperation with the Student Affairs, each student is assigned to a faculty advisor and students are encouraged to remain in close contact with their advisors. However, in the subsequent years, academic advisors are provided for students requiring academic mentoring.

LEARNING RESOURCES

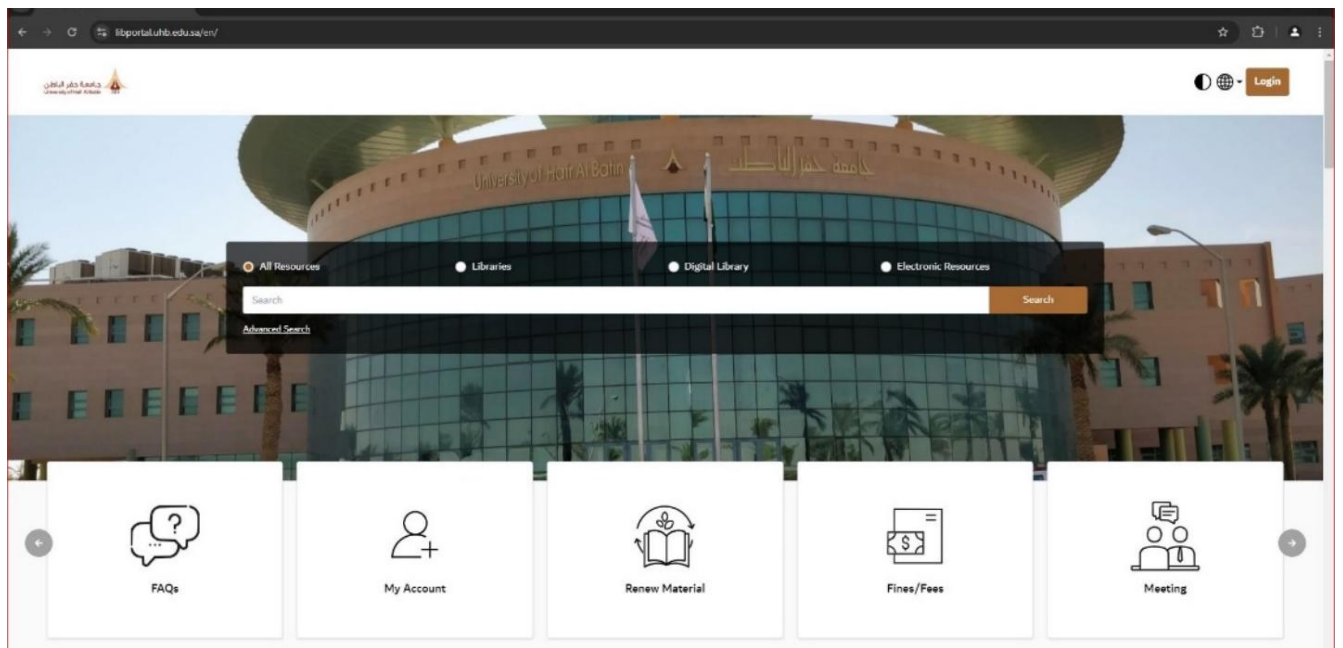
Well-stacked libraries at the campuses provide conducive learning atmosphere. The library at present caters to the needs of Faculty members, Research Scholars and Students in carrying out Research and for comparative studies. Learning resources at our college are designed to support the student self-learning process. Finding books within the library will be facilitate through powerful computer software which enables searching by author, title and keyword for materials held, from any networked part of the university.

LIBRARY SERVICES

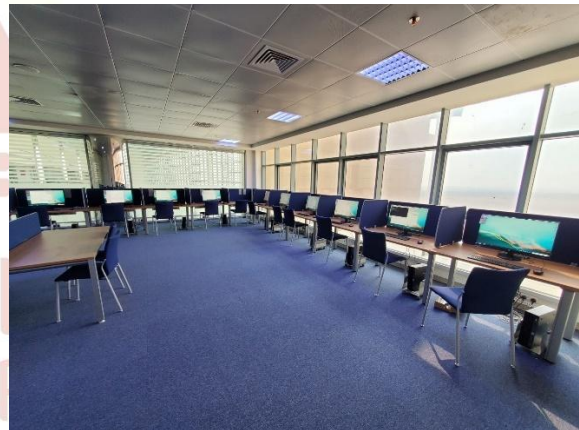
<https://libportal.uhb.edu.sa/en/>

The University of Hafr Al Batin (UHB) Library provides comprehensive resources and services to support the academic and research needs of its students, faculty and staff. The library offers a wide range of tools and materials, including access to physical and electronic collections, advanced search capabilities and specialized support services for academic inquiry. Below is an overview of the key features and services provided by the UHB Library.

- + Search Tools and Access
- + Library Services
- + Academic Support
- + Resource Discovery
- + General Policies
- + The computer center provides comprehensive computing facilities, which are open to the students and faculty members. At present several computers are available with both printing and scanning facilities. All the computers are networked to the UHB server and have a wide selection of software as well as internet and student email facilities.
- + Audio-Visual Resource facilities are open to students during regular working hours.
- + Book Lending Service
- + Inter-Library Loan Service
- + Reference Service
- + Referral Service
- + Reprographic Service
- + User Awareness Service



Home page of E-Library



University of Hafr Al Batin جامعة حفر الباطن



SAUDI DIGITAL LIBRARY (SDL)

(<https://sdl.edu.sa/SDLPortal/en/Publishers.aspx>)

The Saudi Digital Library (SDL) is a central platform offering a wide range of educational resources to academic institutions, including access to many scientific databases, journals, theses, and eBooks. The home page of the SDL provides various options for users, including advanced search capabilities, training services and access to knowledge resources in both Arabic and English. Below is an overview of the key features available on the SDL homepage.

The following databases, though not exclusively pharmacy-focused, are instrumental in supporting the interdisciplinary aspects of the pharmacy curriculum



Available databases in the E-Library

Faculty Members: Department of Pharmacy Practice



Prof. Farhan Khasim AlSwailmi

Qualification: MBBS, MD.
Academic Rank: Professor
General Specialty: Ophthalmology
Email: fswelmi@uhb.edu.sa
Mobile: +966-5053 8756 7

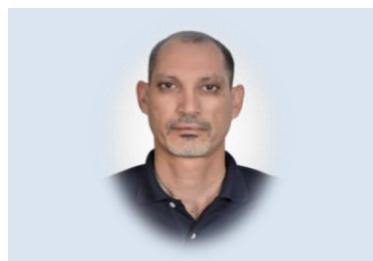
Dr. Farhan Khasim AlSwailmi, Professor and Vice President at the University of Hafr Al Batin, is a distinguished leader in ophthalmology and academic administration. With specialized fellowships in pediatric ophthalmology and anterior segment surgery from top institutions in KSA and the USA, he combines clinical expertise with a commitment to medical education and research. Known for his impactful publications and community health initiatives, Dr. Farhan advances interdisciplinary collaboration and service excellence across the university, reinforcing its mission to innovate in healthcare and foster community well-being.



Dr. Bader Alsuwayt

Qualification: BSc. MSc, PhD
Academic Rank: Associate Professor
General Specialty: Pharmacology
Email: balsuwayt@uhb.edu.sa
Mobile: +966-5499 4437 7

Dr. Bader Alsuwayt is an active researcher, and his research interest deals with defining the role of anti-inflammatory and antioxidant therapies in order to avoid or reduce the progression of liver and kidney diseases. His studies in these organs detail the biochemical pathways through which inflammation and oxidative stress have been occurring and tend to find therapeutic approaches that may reduce damage and improve organ function. The work done by Dr. Alsuwayt holds promise in offering hope for the pursuit of advanced treatment options with which to treat, and improve outcomes, by targeting underlying disease mechanisms against the liver and kidneys. Through his contributions, he aims to overlay the way for more effective, targeted treatments for these critical organ systems.

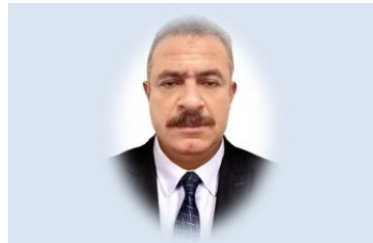


Dr. Saleem H. Aladaileh

Qualification: BSc. MSc. PhD.
Academic Rank: Associate professor
General Specialty: Immunology and biochemistry
Email: shmoud@uhb.edu.sa
Mobile: +966-5597 9584 2

Dr. Saleem is an expert immunologist whose research focuses on understanding the intricate relationships between cancer, inflammation, and the role of antioxidants. He investigates how chronic inflammation contributes to cancer development, particularly by studying immune system dysregulation and the tumor microenvironment. Additionally, he explores how oxidative stress affects cancer progression and immune cell function, with a special emphasis on the role of antioxidants in

modulating these processes. By identifying novel immunomodulatory mechanisms and therapeutic targets, he aims to develop strategies that reduce cancer incidence and improve treatment outcomes by addressing the interplay between inflammation and oxidative stress.



Prof. Mohammed Helmy Shalayer

Qualification: BSc, MBBS, MSc, PhD(Bio), MD, PhD(Micro).
Academic Rank: Professor
General Specialty: Biochemistry, Dermatology, Microbiology
Email: mhshalayer@uhb.edu.sa
Mobile: +966-5593 9037 5

Prof. Mohammed Helmy Faris Shalayer is a full professor of Biochemistry and a consultant dermatologist with an extensive academic and research experience. He has held multiple professorial roles across various universities, including National University, Nile University, Najran University and currently serves at Hafr Al-Batin University in Saudi Arabia. His qualifications include advanced degrees in Biochemistry, Dermatology, and Medical Microbiology. Dr. Shalayer was actively involved in curriculum development, editorial boards and scientific councils, contributing widely to biomedical research, particularly in medical biochemistry, diabetology, microbiology, dermatology as well as herbal medicine discovery.



Dr. Ashfaq Ahmad

Qualification: B.Pharm, M.Phil. PhD.
Academic Rank: Associate professor
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Pharmacological evaluations of new therapeutic compounds (synthetic, medicinal) in cardiovascular, renal, diabetes, inflammation diseased area.



Dr. Inam ul Haq

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Dr. Inam ul Haq has been teaching medical physiology to undergraduates and postgraduates since February 1995. He wrote theses on the topics of Endocrinology as well as in the field of Hematology. The doctor is an author of multiple research and review articles in different reputed journals. He is also a supervisor/master trainer for FCPS training in the subject of Physiology. Dr Inam is a paper setter and examiner for FCPS Part I & II examinations. The faculty member has been a Technical Advisor for the selection of Physiology faculty and clinical residents/medical officers in the selection board of the government in Pakistan.



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Dr. Rasheed is a Physiologist and a medical education expert with international fellowship. He has 12 years of teaching experience with medical and allied courses including undergraduate and postgraduate medical students, undergraduate dental students, Pharmacy, Nursing, Physiotherapy and Medical Lab students. He has contributions in designing the undergraduate University curriculum, writing case-based question papers for competitive examinations. He has guided the postgraduate thesis and examiner to medical graduates. He holds membership in important college committees. Dr. Rasheed has done medical research and has more than 20 medical Research publications. He has also assisted in numerous medical research data analysis with his skills as certified SPSS analytics.



Dr. Shaik. Karimulla

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Dr. Shaik. Karimulla is a charismatic teacher with a proven history of faculty collaboration and commitment to teaching, research and administration illustrated over 18 years in academic roles. Since, October 2019, he has been working in the university of Hafr Al Batin with an exhaustive cognizance of the devices and methods to deliver effective teaching and learning strategies with good communications and scintillating fluency in English. Dr. Shaik is playing a vital role in various college academic departments, such as academic curriculum development unit, Quality unit, national and international accreditation unit, community services committee, experiential education committee and laboratory committee. His dedication to student success and professional development has earned him several faculty excellence awards. He is engaged in medical and pharmaceutical research and has authored over 58 peer-reviewed publications in leading pharmaceutical and medical journals.



Dr. Mohammad Mujahid

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Dr. Mohammad. Mujahid has been awarded a PhD in Pharmacology in 2015 and M. Pharm in 2007. He has 09 years of teaching experience after PhD. He teaches Pharm D students. He has supervised 15 M.Pharm students and one PhD student. He published more than 54 Research and Review articles

in referred journals and contributed a book entitled “Engineered nanoparticulate system: Role in biomedical application” in Lambert publishing House.



Prof. Mohammed Nazrul Islam

Qualification: BSc, MSc, PhD.

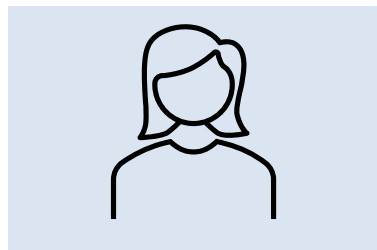
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Prof. Mohammed Nazrul Islam is a distinguished Professor of Physiology at the University of Hafr Al Batin since 2019. With over two decades of teaching and academic leadership experience, he has previously held prominent positions as Professor, Head of the Physiology Department and Vice Principal at Chitwan Medical College. His academic journey spans several institutions worldwide, including Garyounis University, Addis Ababa University, National Medical College, and Kathmandu Medical College. Prof. Islam has actively participated in scientific investigations and mastering advanced research techniques. He has led several research projects in systemic physiology, molecular and neuroscience field, and has an extensive publication record in scholarly journals. In addition to journal articles, he authored a book published by LAP Lambert Academic Publishing.



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Dr Sayeeda is a medical Anatomist and has a teaching experience spanning over 11 years which includes teaching undergraduates of medicine, dental sciences, pharmacy and other health allied sciences.



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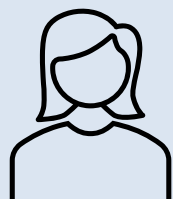
Dr Bushra Riaz is the specialist of pharmacology and has been teaching Pharmacology, therapeutics and related subjects in the college of pharmacy. Her research interests include pharmacological (*in-vivo* and *in-vitro*) and toxicological evaluations of natural compounds and test drugs.



Dr. Afreen Fatima

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Dr Afreen Fatima is a medical pharmacologist, having 6 years of experience in teaching field, and 2 years of experiences as a resident doctor in emergency department. Dr Afreen is having expertise in preparing and delivering engaging lectures to undergraduates and postgraduate's students.



Dr. Hajar ALghamdi

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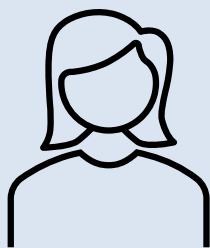
Dr. Hajar Alghamdi's research interests encompass the integration of photo-pharmacology and neuropharmacology with biomaterial fabrication. Her work focuses on the simulation-based evaluation of new designed compounds through docking studies, exploring their potential therapeutic effects both in vitro and in vivo. As a pharmacist and drug evaluation specialist, she combines her expertise in drug development with cutting-edge technologies to design and assess innovative materials and compounds for the targeted treatment of neurological diseases.



Dr. Mohammed Alshammari

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Dr. Mohammed is currently Associate Professor, and his scientific career started after completing his master's degree and PhD in Pharmacy from University College London and the University of Strathclyde respectively. Dr. Mohammed undertook his clinical training at University College Hospital in London, which had a profound impact on him. He led many clinical projects and public campaigns promoting the safe usage of medicines in society whilst working as a senior clinical pharmacist for institutions like Saudi Aramco Medical Organization and Prince Sultan Cardiac Center. He also teaches undergraduate courses on pharmacy and research methodology, drawing on his experiences in the UK and the quality teaching he gained.



Dr. Hadiyah Kh. Almutairi

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Dr. Nimer F. Alsabeelah

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Dr. Nimer F. Alsabeelah is an accomplished associate professor of pharmacology, having earned his Ph.D. for his research contributions in the field. He specializes in nitric oxide and vascular calcification, areas critical to understanding cardiovascular health and disease. Dr. Alsabeelah is passionate about enhancing the quality of education, particularly within the medical field. He is dedicated to improving the skills of academic staff and ensuring that program learning outcomes are met effectively. He teaches both undergraduate and postgraduate courses, covering pharmacology, research methods, leadership, and professional development in the healthcare system. With a background as a pharmacist, Dr. Alsabeelah has held significant leadership roles, including serving as the Dean of the College of Pharmacy and Dentistry. He has also managed various development projects aimed at enhancing academic programs. Currently, he is the Vice Dean of Quality and Development, where he continues to champion initiatives that promote excellence in education and research. His commitment to academic advancement and professional development positions him as a pivotal figure in the evolution of pharmacological education and practice.



Dr. Ahmed M. Aljameeli

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Dr. Ahmed M. Aljameeli research focused on the progression of prostate cancer. An expert in various techniques such as cell culture, protein extraction and protein purification, immunoprecipitation, immunocytochemistry, flow cytometry, western blot analysis, molecular biology (preparation of DNA plasmid, DNA plasmid purification, RNA extraction, and plasmid DNA transfection) and *in vivo* study on nude mice. Performed/optimized/developed, various cell-based assays such as Western blot, Microscopy, animal studies, etc., are resulting in identification of novel-mechanisms of calcitonin

receptor-mediated prostate cancer invasion and metastasis. Dr. Ahmed has 7 years' experience in academic teaching and lecturing.



Faculty Members: Department of Pharmaceutics



Dr. Abdulkareem Ali Alanezi

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Dr. Abdulkareem Ali Alanezi specializes in advanced pharmaceutical formulation and drug delivery systems. His research focuses on protein/enzyme delivery, microencapsulation techniques and polymer selection for optimized drug release. He is experienced in tablet formulation, complying with USP standards through rigorous testing and quantifying active ingredients. Dr. Alanezi also employs design of experiments (DOE) and advanced statistical software to enhance experimental efficiency and precision in drug development. His work bridges cutting-edge technologies with practical applications in pharmaceutical sciences.



Dr. Meshal Alotaibi

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Dr. Meshal Alotaibi holds a master's and PhD in Clinical Pharmacy, focusing on structured Medication counseling and their impact on patient knowledge of the disease and quality of life. He also studied patient adherence to medication-related advice and the effects of adverse drug reactions on patients with respiratory diseases.



Dr. Mohamed Hassan Fayed

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Dr. Mohamed Hassan Fayed hold a PhD in Pharmaceutical Sciences with over 15 years of experience in pharmaceutical sciences education. His research focuses on the development and optimization of novel drug delivery systems using the design of experiment (DoE) approach. In addition to teaching, He actively contribute to peer-reviewed publications and collaborate on curriculum development, particularly in Pharmaceutics and Pharmacokinetics. Dr. Fayed expertise spans formulation science, pharmacy practice and innovative drug delivery methods.



Dr. Md. Abul Barkat

Qualification: B.Pharm, M.Pharm, Ph.D

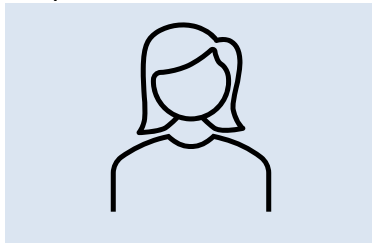
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Dr. Md. Abul Barkat is currently serving as an Assistant Professor at the Department of Pharmaceutics, College of Pharmacy, University of Hafr Al Batin, Kingdom of Saudi Arabia. He holds a master's degree in Pharmaceutical Sciences from Jamia Hamdard University, New Delhi, India, and a PhD in Pharmaceutical Sciences (Pharmaceutics) from the Integral University Lucknow, India. With more than 12 years of teaching and research experience in the field of Pharmaceutical Science, his research interests include the development and optimization of herbal/synthetic based nanostructured delivery systems, controlled release drug delivery systems, bio-enhanced drug delivery systems, nanomaterials and nanocomposites for a variety of conditions like burns, cancer, etc. To date he has authored more than 90 research and review publications in various peer-reviewed journals, 15 book chapters and 9 books.



Dr. Amal Sultan

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Dr. Amal Sultan is a faculty member in the Department of Pharmaceutics at the College of Pharmacy, specialized in Pharmaceutical Technology. With 15 years of teaching experience in the academic field, Dr. Amal is dedicated to academic rigor and innovation, providing students with a comprehensive learning experience. She is committed to fostering a dynamic educational environment that prepares students for future challenges. Actively involved in research related to nano-drug delivery systems including niosomes, cubosomes, bilosomes, microemulsions, self microemulsifying systems and micellar systems as platform for enhancement of oral and transdermal drug delivery.



Mrs. Harshita Santosh Kumar

Qualification: D.Pharm, B.Pharm, M.Pharm

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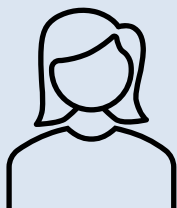
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Mrs. Harshita is a Lecturer in the Department of Pharmaceutics at the College of Pharmacy, University of Hafr Al Batin, Kingdom of Saudi Arabia. She holds a master's degree in Pharmaceutical Sciences (Pharmaceutics) from Dr. A.P.J. Abdul Kalam Technical University, Lucknow, Uttar Pradesh, India. With over seven years of teaching and research experience, her expertise lies in the field of nanomedicine and drug delivery. Her research focuses on the design, development, optimization, and characterization of nanostructured drug delivery systems for various conditions, including cancer and burns. She has published More than 35 research and review articles in high-impact journals.

Faculty Members: Department of Pharmaceutical Chemistry



Dr. Afaf Almuqati

Qualification: BSc, MSc, PhD.

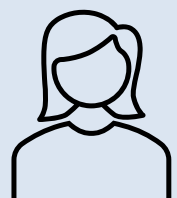
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Dr. Afaf Almuqati is dedicated academic and researcher with a strong foundation in pharmaceutical chemistry and laboratory medicine. She completed Doctorate in Pharmaceutical Chemistry (Ph.D.) in May 2020 from the Massachusetts College of Pharmacy and Health Sciences in Boston, USA, where she focused on advancing scientific research and practical applications in the field. Prior to this, she earned Master of Science in Pharmaceutical Chemistry (MSPS) in December 2014 from the same institution, further refining my expertise in medicinal chemistry and drug development. Dr. Afaf academic journey began with a bachelor's degree in laboratory medicine from Umm Al-Qura University in Saudi Arabia in April 2009, equipping with essential knowledge in clinical laboratory sciences. This diverse educational background enables to bridge both the clinical and pharmaceutical chemistry disciplines, contributing to the progress of healthcare and pharmaceutical sciences.



Dr. Esraa Mohammad Haji

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Dr. Esraa Mohammad Haji is enthusiastic and motivated Assistant Professor. She opens to new opportunities and self-development. She has a good team spirit but also capable of progressing independently. Dr. Esraa strongly believes in interpersonal skills and put utmost in all she does. She seeks to set a positive model that influence both faculties and students to make a perfect environment.

جامعة حفر الباطن University of Hafr Al Batin



Dr. Sasikumar Dhanarasu

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Dr. Sasikumar Dhanarasu brings over 23 years of esteemed academic experience at internationally recognized institutions in India, Libya and Saudi Arabia, specializes in cancer biology, natural product drug discovery and metabolic disorders. His studies explore how bioactive compounds from natural sources can mitigate cancer progression, targeting alterations in lipid profiles, cellular fragility, and antioxidant status. With extensive work on conditions like diabetes and nephrotoxicity, he has demonstrated the therapeutic potential of plant-derived compounds in experimental models. Dr.

Sasikumar's research seeks to uncover mechanisms by which natural products can modulate biochemical pathways, ultimately contributing to novel therapeutic approaches in metabolic and inflammatory diseases.



Dr. Ghassab Mohammad Al-Mazaideh

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Dr. Ghassab Al-Mazaideh is a distinguished pharmaceutical organic chemist with a Ph.D. from Martin Luther University in Germany. His career combines research and teaching, with associate professorships in Saudi Arabia and Jordan. Dr. Al-Mazaideh's research focuses on pharmaceutical organic and physical chemistry, particularly natural products from medicinal plants. He explores natural organic compounds as enzyme inhibitors and investigates coating systems in bioenvironments. His work has been widely published and presented internationally. Dr. Al-Mazaideh is committed to academic excellence, bridging fundamental science with practical applications, and inspiring future scientists through mentorship and instruction.



Dr. Nadeem Ahmad Siddique

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Dr. Nadeem Ahmad Siddique has sixteen years of expertise in pharmaceutical sciences and is currently employed as an assistant professor at the University of Hafar-Al Batin. He received his Ph.D. in Pharmaceutical Sciences from the top-ranked Jamia Hamdard NIRF University. He received the top spot in his M. Pharm program, the CSIR-SRF and UGC-JRF, and the DST international travel award for scientific research in Canada and Switzerland. He has presented his research at over 30 conferences, published numerous research papers in reputable journals, and is credited with 20 published research abstracts. The EUROTOX Fellowship was granted by the European Society of Toxicology (Switzerland) in order to attain the best grades. In terms of research, Dr. Siddique has made a substantial contribution to both authoritarian and exploratory natural drug discovery. Since aflatoxins that is commonly taken by people without their knowledge of its safety, he created a novel bioanalytical technique for the simultaneous detection of aflatoxins by HPLC/MS.



Dr. Naila H. Alkefai

Qualification: B.Pharm, M.Pharm, Ph.D.

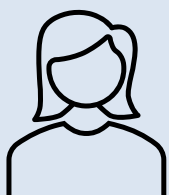
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Dr.Naila Alkefai is a researcher and academic in the field of pharmaceutical chemistry. She is associated with the College of Pharmacy at the University of Hafr al-Batin in Saudi Arabia. Her work focuses on the medicinal properties of natural compounds, particularly in traditional medicinal plants and highlighting its benefits for conditions like diabetes, cancer, and cardiovascular diseases. Her research interests include exploring the antioxidant, anti-inflammatory, and chemo-preventive properties of medicinal plants.



Dr. Latifah Al Shammari

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Research areas of interest involve the synthesis of Organic, organometallic compounds, isolation of phytoconstituents from medicinal plants and evaluation of their Pharmacological activities like anticancer, antioxidant and anti-inflammatory activities.

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