

University of Tabuk
Faculty of Pharmacy
Vice-Deanship of Development & Quality



Guide of Faculty of Pharmacy and PharmD Program

Academic year 1443 H (2021 / 2022 G)

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Faculty and Staff Contacts

Position	Name	Phone Ext.	Email address
Dean	Dr. Ahmed Mohamed Al-Jabri	3939	A.aljabri@ut.edu.sa
Dean`s Assistant for Administrative Affairs	Dr. Ghareb Mohamed Soliman	3894	gh.soliman@ut.edu.sa
College Vice Dean	Dr. Yasser Mohammed Alatawi	3962	yasser@ut.edu.sa
Vice Dean for Development and Quality	Prof. Mohammed Mohammed Helmy Al-Gayyar	3896	malgayyar@ut.edu.sa
Vice Dean for Graduate Studies and Research	Dr. Reem Shelweeh Homoud Alshaman	7775	ralshaman@ut.edu.sa
Vice Dean of Pharmaceutical Training	Dr. Abdullah Odah Alattar	3900	aalattar@ut.edu.sa
Vice Dean of Female Section	Dr. Reem Shelweeh Homoud Alshaman	7775	ralshaman@ut.edu.sa
Pharmacy Practice Department			
Head of Department	Dr. Yasser Mohammed Alatawi	3962	yasser@ut.edu.sa
Department Supervisor	Dr. Hanan Mohammed Alsharif	3933	halsharef@ut.edu.sa
Department of Pharmacology and Toxicology			
Head of Department	Dr. Abdullah Odah Alattar	3900	aalattar@ut.edu.sa
Department Supervisor	Dr. Reem Shelweeh Homoud Alshaman	7775	ralshaman@ut.edu.sa
Department of Pharmaceutical Chemistry			
Head of Department	Dr. Nader Abo Dya	3914	nabodya@ut.edu.sa
Department Supervisor	Dr. Nehal Elsherbiny	3924	nelsherbiny@ut.edu.sa
Department of Pharmaceutics			
Head of Department	Dr. Ghareb Mohamed Soliman	3894	gh.soliman@ut.edu.sa
Department Supervisor	Dr. Mona Kamel	4006	mqushawy@ut.edu.sa

	Queshawy		
Department of Natural Products and Alternative Medicine			
Head of Department	Dr. Nizar Sirag Eltayeb	3918	nmona@ut.edu.sa
Department Supervisor	Dr. Sawsan Abobakr Zaitone	3938	szaitone@ut.edu.sa

College Phone: 0144561516 (College manager)

College Email: Pharmacy@ut.edu.sa

College Website:

<https://www.ut.edu.sa/ar/Faculties/pharmacy/Pages/default.aspx>

Dean's Foreword

In the name of Allah, the Most Gracious, the Most Merciful, and prayers and peace be upon His Noble Messenger and all his family and companions.

Allah Almighty has granted us with a rational leadership in this Kingdom that has given education the most attention in order to advance the sons and daughters of this country, therefore building an educated generation capable of making change and advancing the wheels of progress and development at all levels. Towards these ends, the Supreme Decree No. 11/71/1433 H (26/2/1434 H) approved the establishment of the Faculty of Pharmacy at the University of Tabuk—allowing it to join its counterparts in the national universities.

Since its inception, the College seeks to provide students with all the components necessary for academic and professional excellence: a high-quality curriculum, educational halls and facilities, modern laboratories and the support of the university administration, headed by His Excellency the University President. This is in pursuit of graduating pharmacists who are distinguished professionally and scientifically, including the production of research that competes with their peers and raises the status of the college at the local and regional levels.

In order to strive for continuous development, the College has set one of its most important objectives: obtaining program accreditation. This will enable the College to improve its output and upgrade its curriculum so it can keep pace with international standards as well as the development policy and mission of the larger university which has recently achieved complete institutional accreditation. Finally, on behalf of myself and the rest of the faculty, I'd like to welcome you and wish you all success.

Faculty of Pharmacy Dean

Dr. Ahmed Mohamed Al-Jabri

About the College

The Faculty of Pharmacy at the University of Tabuk was founded after the approval of the Custodian of the Two Holy Mosques, the Head of the Council of Higher Education—may Allah have mercy on him—and by Supreme Resolution No. 11/71/1433 H. Students in the male section began studying at the start of the academic year 1434/1435 H, while students in the female section began studying at the start of the academic year 1436/1437 H.

College Vision, Mission and Strategic goals

Vision

A distinguished faculty which excels in research, education, and community service

Mission

To offer a distinguished pharmaceutical education to prepare university graduates with the knowledge, capabilities, and research skills needed to serve the community.

Strategic goals

First strategic goal: Offer a distinguished university education that meets the needs of the labor market.

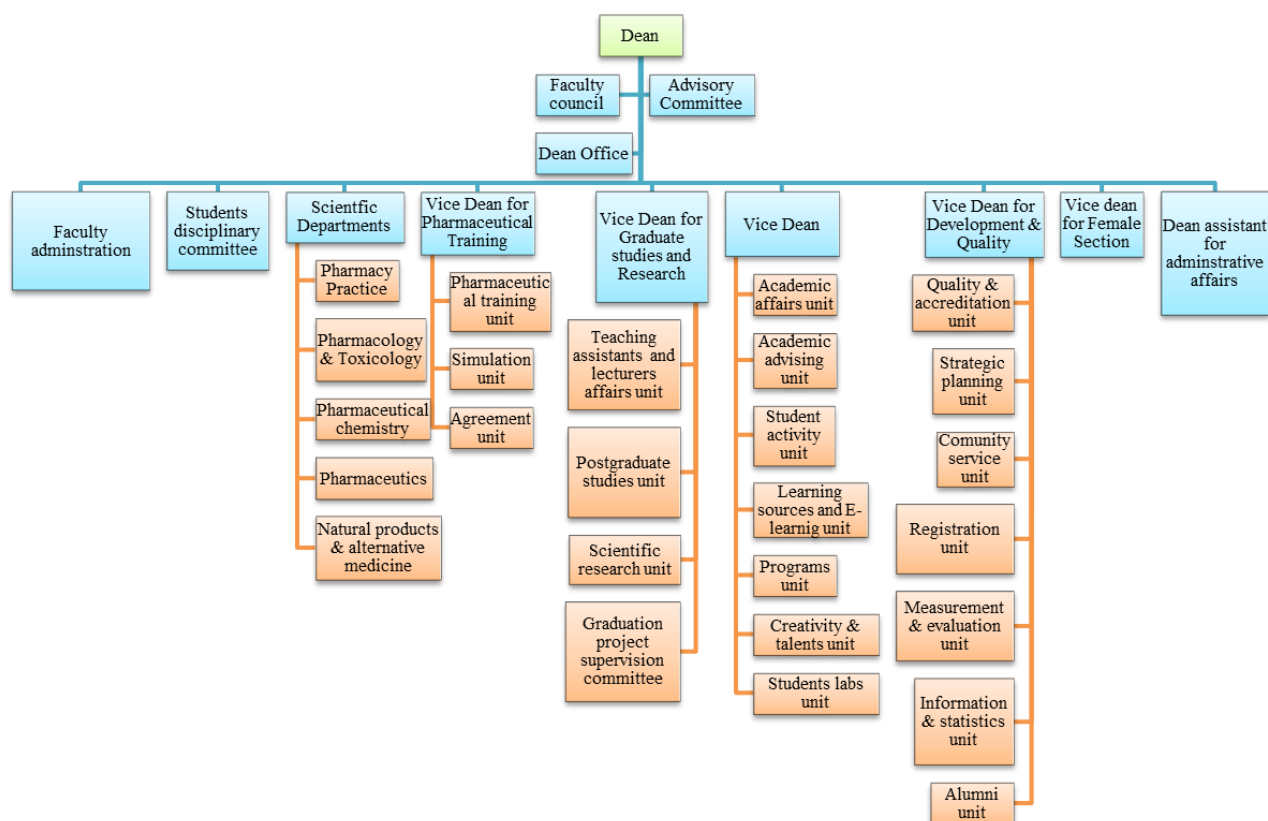
Second strategic goal: Support innovative research to contribute to building the knowledge economy.

Third strategic goal: Active contribution in community service and sustainable development.

Fourth strategic goal: Develop an active administrative and organizational environment at the university.

Fifth strategic goal: Diversify financial resources and improve financial efficiency.

Organizational Structure of the College



Dean of the College

Duties:

1. Chair the College Council, monitor its operations, invite members to meetings, carry out its decisions, and submit the minutes of its meetings to His Excellency the University President.
2. Implement the Higher Education and Universities Council System and its regulations.
3. Contribute to achieving the objectives and policies of the University.
4. Implement the decisions of the University Council regarding the college.
5. Supervise the preparation of the strategic plan of the college and follow up its implementation to achieve the strategic vision of the college.
6. Supervise the preparation of educational and scientific plans in the college and follow up their implementation within the scope of the systems and regulations of the Higher Education Council, the University Council, and the College Council.
7. Develop executive strategies to manage the college's activities, including its scientific, academic, administrative, and financial affairs, within the framework of the Council of Higher Education and Universities' system and rules, the University Council, and the College Council.

8. Manage the college's educational, research, administrative, financial, and cultural affairs.
9. Create operational policies for all administrations to achieve the following:
 - Coordination between all academic, technical, and administrative units of the college.
 - Developing the college in terms of administration, academics, and research.
 - Forming the required committees to carry out the college's tasks and activities.
 - Coordinating and developing faculty relations inside and outside the University.
10. Evaluate the performance of the college's vice deans, departments' heads, directors and heads of its affiliated units.
11. Maintain all facilities and properties of the college.
12. Coordinate the work of the college's advisory board, if any, and implement its recommendations.
13. Supervise all admission procedures in all specialties of the college.
14. Supervise the application of study plans and programs in the departments in the college.
15. Supervise the progress of the educational process, implementing its plans and developing its academic programs.
16. Apply quality systems and regulations, evaluation and academic accreditation.
17. Distribute financial allocations for college departments that are needed to secure the supply of the educational process.
18. Encourage faculty and students to conduct research in different college specialities.
19. Develop academic partnerships with similar educational institutions both inside and outside the kingdom.
20. Supervise the recruitment of faculty members.
21. Submit suggestions to satisfy the college's needs of the teaching faculty, administrators, technicians, and assisting teams.
22. Increase and diversify the college's in-house financial resources.
23. Open channels of communication between the college and the alumni to establish reciprocal benefits in a way that reflects a positive image of the community.
24. Supervise various student activities at the college.
25. Establish centres to serve the students, such as service, recreational and social centres, in order to facilitate the development of their skills and engage their spare time with talents that benefit them scientifically, professionally, and personally.
26. Formulate examination and control committees to follow up on the course of study and examinations, and to control order and discipline within the college.
27. Recommend the appointment of the college's vice-deans and heads of departments and scientific units.

28. Approve the recommendations of the scientific department's councils.
29. Supervise the preparation of periodic reports on:
- Courses of study;
 - Academic, administrative and research performance in the college;
 - Academic, educational and administrative conditions of the college at the end of each academic year that include: an account of college activities; the level of work performance; an account of study, examinations and their results; a statement of the obstacles that hindered the implementation of proposals and appropriate solutions. This report is presented to the College Council for opinions and review;
 - Vice Dean and Head of Departments' suggestions and observations about the faculty members and those of equivalent status who breached the duties required or committed other infringements.
30. Carrying out all other assigned tasks.

College Vice Deans and Affiliated Units

- Vice Dean for female students
- College Vice Dean
- Vice Dean for Development and Quality
- Vice Dean for Graduate Studies and Research
- Vice Dean of Pharmaceutical Training

The Dean`s Assistant for Administrative Affairs

Duties:

1. Coordinate with the units and departments of the colleges of related fields.
2. Follow-up on the college's administrative transactions with the various departments of the college and external parties.
3. Assist the dean in planning and organizing everything that will facilitate the functioning of the college.
4. Submit periodic reports to the dean about the work progress of the affiliated units regarding entrusted tasks, and faced difficulties.
5. Implement the work assigned by the dean.
6. Prepare transactions issued by the directed to the University (with complete and valid data, in accordance with the required administrative and academic procedures and regulations).
7. Carry out all other work assigned according to the rules and regulations.

Vice Dean for Female Student Section

Duties:

1. Implement decisions of the University Council and the College Council regarding the female section of the College.
2. Supervise preparation of the strategic plan of the College and follow up its implementation to achieve the strategic vision.
3. Supervise preparation of educational and scientific plans and follow up their implementation within the scope of the systems and regulations of the Higher Education Council, the University Council, and the College Council.
4. Draft executive plans to manage the affairs of female section and manage its administrative and financial affairs in coordination with the Dean of the College within the scope of Higher Education, the University Council and its regulations, and the College Council.
5. Manage the College's educational, research, administrative, financial, and cultural affairs.
6. Evaluate the performance of assistants to Vice Deans, department heads, directors, and heads of affiliated units.
7. Supervise all admission procedures in all specialties of the college.
8. Supervise the implementation of plans and programs in the departments of the college.
9. Supervise the progress of the educational process, implement its plans, and develop its academic programs.
10. Supervise the implementation of quality systems and regulations, evaluation and academic accreditation.
11. Follow-up on the course of study and exams, and adjust the order and discipline within the female student section of the college.
12. Encourage faculty and student research in different college specialties.
13. Participate in the work to establish academic links with similar educational organizations inside and outside the kingdom.
14. Participate in attracting female faculty members.
15. Submit suggestions to satisfy the College's needs of the teaching faculty, administrators, technicians, and assisting teams.
16. Participate in increasing and diversifying the college's in-house financial resources.
17. Supervise various student activities at the college.
18. Participate in the formation and control of committees for exams.
19. Submit recommendations to appoint assistants to vice deans, heads of departments and scientific units in the student section and prepare periodic reports on:

- Course of study.
- Consider suggestions of the vice deans and heads of departments' assistants in addition to what they observe about all the members of the faculty and those of equivalent status who breach the duties required or commit any other irregularities.
- Academic, educational and administrative conditions of the college at the end of each academic year include (an account of the activity of the college, the level of work performance, an account of study, examinations and their results, a statement of the obstacles that hindered the implementation and proposals and appropriate solutions). This report is presented to the College Council for opinion and review.

20. Do all other assigned tasks.

College Vice Dean

Duties:

1. Establish the internal system of work in the Vice Rectorate for academic affairs, specializations and the general description of the duties of its employees and how to coordinate between the affiliated units.
2. Supervise the implementation of the regulations and executive rules of the university study and tests administration.
3. Supervise the preparation of class schedules for students in academic departments and coordinate with other colleges in cooperation with the Deanship of Admission and Registration.
4. Supervise academic performance of students in the college.
5. Supervise the distribution of students to the different departments of the college in coordination with the departments.
6. Supervise the conduct of the final exams and forming its committees in coordination with the academic departments and the Deanship of Admission and Registration.
7. Supervise the application of admission and transfer regulation to and from the college and between academic departments.
8. Supervise the work of the Students' Affairs Committee and the Extra-curricular Activities' Committees.
9. Chair the committees affiliated with the College Vice Rectorate for Academic Affairs and submit their reports to the competent bodies.
10. Supervise the process of ensuring course equivalency within departments.
11. Supervise requests to add, drop, withdraw or postpone courses of study in accordance with the regulations and decisions issued in this regard.

12. Supervise the preparation of lists of denied and graduate students.
13. Supervise the activities of the college's briefing and induction week.
14. Guide and mentor students and solve issues related to academic achievement.
15. Submit periodic reports to the dean about the work progress of the affiliated units regarding entrusted tasks, and faced difficulties.
16. Implement the work assigned by the dean of the college.
17. Submit periodic reports to the dean about the work progress of the affiliated units regarding entrusted tasks, and faced difficulties.
18. Carry out all other assigned tasks.

○ **Affiliated Units to the Vice Dean of the College of Pharmacy:**

- **Academic affairs Unit**
- **Academic Advising Unit**
- **Student Activities Unit**
- **Learning Sources and E-learning Unit**
- **Students' Laboratories Unit**
- **Programmes Unit**
- **Creativity & Talents Unit**

The tasks of the Academic Affairs Unit:

1. Organizing formative exams (mid and final exams), discussing the necessary procedural steps, scheduling exams and getting them approved by the vice dean.
2. Preparing formative exams' proctoring schedules, absence and attendance lists, cheating cases minutes (if any), studying the cases, taking necessary actions, and allocating students in the exam classrooms.
3. Filing all the unit's work, such as the minutes, etc., and providing the dean of the college with copies.
4. Considering the topics submitted by the college dean to the unit and completing the relevant transactions.
5. Distributing students to academic advisors on the e-register system at the beginning of each academic year.
6. Providing assistance to male or female students if a conflict or a problem in the registration appears.
7. Careful follow-up of the student's scientific achievement in the subjects registered and review the reports submitted by the academic advising committees.

8. Organizing and conducting public lectures on academic achievement skills.
9. Receiving special instances of students including psychological and social issues, assessing and documenting those situations, and seeking to resolve them or referring them to the appropriate authorities outside the college, as per the system in place.
10. In the event of special instances, direct supervision and periodic evaluation of the academic counselling process in the college departments as required. (Pathological, psychological, social, and similar departments).
11. Filling all the work of the committee transcripts, and providing the vice dean of the college with copies.
12. Considering the topics submitted by the vice dean of the college to the committee and completing the relevant transactions.

The tasks of the Academic Advising Unit

1. Develop a plan for academic advising at the college.
2. Supervising the implementation of the academic advising plan.
3. Spreading awareness among students about what the unit is, its importance, and how to benefit from its services through meetings, bulletins and the unit's website.
4. Introducing students to the college's goals and mission, its scientific departments, and the fields of work of its graduates and aspects of the care and services it provides to its students.
5. Distributing new students to academic advisors and publishing the lists on the unit's website and that at the beginning of each year.
6. Considering students' academic problems raised by advisors and contributing to solving
7. psychological, financial, social and functional problems of students to the center of guidance at the university and the Deanship of Student Affairs.
8. Examining students' complaints of an academic nature and devising appropriate solutions or raise it to the college administration if necessary.
9. Supervising orientation programs for new students to introduce the study system and examinations in the university.
10. Studying the transactions referred by the college vice dean to the unit, expressing an opinion on them, and raising necessary recommendations thereon.
11. Preparing an annual report on all activities of the unit and submitting it to the vice dean.

The tasks of Student Activities' Unit

1. Preparing semester and annual plans for the implementation and development of student activities.

2. Organizing and supervising curricular and extracurricular students' activities.
3. Spreading awareness among students about regulations and instructions for academic behaviour.
4. Composing short and long-term plans to serve the community.
5. Organizing and implementing community service programs with the participation of students, faculty members, and partners in the community.

The tasks of Learning Sources and E-learning Unit

1. Follow up on the progress of distance learning and e-learning through Blackboard Course Sites.
2. Overcome any obstacles facing the e-learning process in cooperation with the college administration and in coordination with the Deanship of E-learning and Distance Education.
3. Communicate with the Deanship of E-learning and Distance Education to hold workshops for faculty members on how to deal with all elements of the Blackboard platform.
4. Supervise the computer labs of the college.

The tasks of Student Laboratories Unit

1. Study and determine the needs of the college of scientific equipment, chemicals, and consumables received from the departments of the college.
2. Supervise and follow up on the preparation of the scientific departments necessary items' orders to operate the laboratories according to the approved samples.
3. Coordinate with the deanship of the college and the relevant authorities to supply the required items to operate the college laboratories in accordance with the applicable regulations.
4. Propose the formation of technical committees to examine the offers of companies received from the procurement department and review the forms of examination of the submissions before sending them to the relevant authorities
5. Inspect and receive all the equipment, glassware and chemicals supplied to the college and make sure that they conform to the required specifications before supplying them to the college departments and make sure that the checking and inspection forms and receipt forms are completed.
6. Supervise the college stores used in the storage of chemicals and consumables used in the operation of the college laboratories.
7. Supervise the application of quality and accreditation standards on the laboratories of the college.
8. Follow up on the application of safety procedures and measurements on students and research laboratories in the college

9. Conduct training workshops for faculty and students related to safety procedures and laboratory use.
10. Supervise regular maintenance and updating of laboratory equipment at the college.
11. Submit minutes for periodic meetings.
12. Consider topics submitted by the college vice dean to the unit and complete the relevant transactions.

The tasks of the Programs Unit

1. Determine the benchmarks that will be used in building and modifying study plans.
2. Preparing and implementing the necessary workshops to propose, develop and prepare new programs in the college.
3. Conducting survey studies on the extent of compatibility between the requirements of the labor market and the vision of the Kingdom 2030 and the various specializations and programs offered by the college.
4. Introducing the visions, missions and goals of the scientific programs in the college, and proposing amendments to the current vision, mission and goals, or building a new vision, mission and goals, according to the requirements of the university's study plans guide.
5. Suggesting the arbitration bodies for study plans in coordination with the relevant departments.
6. Reviewing the current study plans and their outputs, and following up on their development and updating according to labor market requirements.
7. Considering the requests submitted to the unit to develop and update curricula by academic departments in a manner consistent with the powers matrix approved by the committee of plans and programs in the university.
8. Ensure that study plans comply with the standards of national accreditation and evaluation bodies and its approval of the procedures specified by the committee of plans and programs in the university.
9. Archive copies of study plans, programs and documents.
10. Studying the transactions referred by the Dean of the College to the Unit and expressing opinions on them and make the necessary recommendations thereon.
11. Preparing an annual report on all activities of the unit and submitting it to the dean of the college.

The tasks of the Creativity and Talents Unit

1. Providing awareness programs to spread the culture of interest in talent, creativity and excellence in the college.

2. Discover talented, creative and distinguished students.
3. Nurturing the gifted students through a variety of enrichment programs.
4. Providing scientific, research and educational consultations in the field of talent, creativity and excellence.
5. Providing the appropriate scientific and research environment to nurture, develop and encourage talented and creative students.
6. Establishing the principle of cooperation and partnership with the relevant authorities inside and outside the university.
7. Studying the transactions referred by the college vice dean to the unit and expressing an opinion on them, and raising necessary recommendations thereon.
8. Preparing an annual report on all activities of the unit and submitting it to the vice dean.

Vice Dean for Development and Quality

Duties:

1. Educating and motivating faculty and staff about the importance of quality and spreading its culture at the college level by providing lectures, meetings and workshops for the departments. Involving faculty in the processes and methods of achieving and maintaining academic accreditation. Establishing quality practices in order to improve the level of performance—particularly in ways that enhance the scientific and professional aspects of the program.
2. Supervising the implementation of quality-control programs at the college.
3. Studying the difficulties or problems facing development and quality programs and proposing solutions to them.
4. Supervising performance evaluation in the college.
5. Providing necessary facilities for all teams based on quality implementation.
6. Establishing the internal work system in the Vice Deanship of Quality and Development.
7. Planning an academic program and preparing the program for national and international academic accreditation.
8. Supervising the implementation of the evaluation program and academic accreditation of the college programs.
9. Submitting memos to department councils and the College Council regarding scientific or administrative practices that enable the college to obtain academic accreditation from the National Commission for Academic Accreditation and Assessment, or from external accreditation bodies.

10. Consulting with any entity with which the college or any of its departments sign an internal or external cooperation agreement related to academic accreditation or peer review work, course descriptions, preparation of measurement exams, or improving the quality of teaching and research processes.
11. Supervising the establishment of course files and program files in the academic/ scientific departments in both the male and female sections and building their information and updating them at the end of each semester in line with the requirements of academic accreditation.
12. Following up on the implementation of self and academic evaluation for all the departments of the college.
13. Preparing and implementing the development and strategic plans of the college and following up their implementation with the academic/ scientific/ research departments.
14. Coordinating with academic/ scientific/ research departments, development and Quality Vice Rectorate and accreditation bodies to receive internal or external reviewers and evaluators and complete the tasks and work resulting from their reports.
15. Determining the specialized training needs of faculty members in the academic departments of the college.
16. Encouraging faculty members to participate and attend courses, training programs and workshops.
17. Supervising the preparation of a plan to develop the skills of the faculty members, employees, and students.
18. Implementing and following up on the activities of the innovation and excellence awards in academic, research and career performance at the college.
19. Supervising the preparation of the annual report of the college and submitting it to the competent authority after approval by the dean.
20. Supervising the registration of qualifications in the Saudi Observatory for Qualifications
21. Carrying out all other assigned tasks.

○ **Affiliated Units to the Vice Dean of Development and Quality:**

- **Quality and Academic Accreditation Unit**
- **Strategic Planning Unit**
- **Community Services Unit**
- **Registration Unit**
- **Information and Statistics Unit**
- **Measurement and Evaluation Unit**
- **Alumni Unit**

The tasks of Quality and Academic Accreditation Unit

1. Preparing and implementing a quality assurance plan in the college.
2. Preparing and implementing programs to spread the quality culture in the college.
3. Participating in providing the data and information required to prepare, develop, and evaluate plans and programs in the college.
4. Participating in the preparation and application of the strategic plan of the college.
5. Applying regulations, controls, procedures, and standards to obtain local and international academic accreditation and following up on the continuity of their implementation in the college.
6. Verifying the application of quality assurance systems, controls and standards and academic accreditation in the educational, administrative, organizational, and technical fields and following up on the continuity of their implementation in the college.
7. Preparing an integrated guide to ensure quality and academic accreditation in the college in light of leading local and international experiences.
8. Striving to obtain and maintain local and international academic accreditation and applying quality standards and requirements in the educational, administrative, organizational, and technical fields.
9. Continuous monitoring and tracking of distinctive experiences in the field of quality assurance and academic accreditation including policies, regulations, controls, standards, tools, and techniques used and preparation of reports containing development proposals for the college.
10. Proposing names of institutions, universities, and colleges for cooperation, alliance, and partnership within the scope field of quality assurance and academic accreditation.
11. Proposing the names of specialized centres in the field of quality assurance and academic accreditation that their expertise and services can be beneficial to obtain academic accreditation.
12. Proposing appropriate academic accreditation bodies for the college after extensive study and balancing all available alternatives.
13. Proposing standards and tools to assess the performance of the educational and administrative units in the field of quality assurance and accreditation and following up their approval.
14. Continuous monitoring of the performance of educational and administrative units in the field of quality assurance and accreditation, reporting, and including proposals for development.
15. Proposing to build an integrated database to ensure quality and academic accreditation and to enter, process and update the necessary data continuously.
16. Participating in the development of standards, tools, and mechanisms for evaluating performance and measuring achievements of the college.

17. Coordinating with the deanship of development and quality in the university to enable the college to achieve high levels in the field of quality assurance and accreditation.
18. Reporting to the deanship of development and quality on all activities and achievements of the college in the field of quality assurance and academic accreditation.

The tasks of the Strategic Planning Unit

1. Supervising the preparation, updating, and developing of the strategic plan of the college (vision-mission-strategic objectives).
2. Preparing the report of the operational plan of the college and its relevance to the strategic plan of the university and following it up periodically.
3. Ensuring that the operational strategic performance indicators are aligned with the strategic and operational performance indicators of the university plan.
4. Preparing performance measurement reports to measure the achievement of the plan.
5. Preparing quarterly reports to follow up the implementation of the initiatives of the strategic plan of the college to gain approval by the dean or vice dean.
6. Preparing the annual report which monitors the achievement of the college in all areas.
7. Supervising the preparation of operational budget estimates and ensuring that they are directly linked to the objectives of the strategic plan of the university and the operational plan of the college.
8. Providing and analysing statistics which include (numbers of students, faculty, employees) for all entities both inside and outside the university, as well as creating and developing micro databases.
9. Perform any tasks related to the activities of the Strategic Plan Committee in terms of strategic planning of the university.

The tasks of the Community Service Unit

1. Coordinating between academic departments in the college to provide diverse services needed by the community.
2. Organizing meetings, seminars, scientific lectures, and training courses that contribute to community service.
3. Encouraging practical research that contributes to solving important issues and problems for the local community.
4. Developing the capacities of faculty members in the field of education and management.
5. Motivating faculty members on self-development.

6. Qualifying and preparing the new faculty members in coordination with the Deanship of Quality Development.
7. Coordinating with the relevant units in the university to achieve the common interest.
8. Establishing a central database that includes all the activities of the unit in the fields of community service, training of faculty members, preparing of the annual report on the work of the unit and submitting it to the vice dean for development and quality.
9. Drafting an annual operational plan for the community service unit and its training in coordination with the Strategic Planning Unit and submitting the plan to the deanship for approval and implementation.

The tasks of the Registration Unit

1. Contributing to improving the quality of qualifications and academic programs that are granted by the college.
2. Standardizing the processes required to meet the requirements of the Saudi Qualifications Observatory in coordination with the Qualification Registration Unit at the Deanship of Development and Quality.
3. Drawing the operational plan of academic programs that are granted by the college to be registered at the Saudi Qualifications Observatory and submitting to the deanship for approval and implementation.
4. Studying and following-up on what the departments raise for their academic programs and verifying the extent to which they meet the standards set by the Saudi Observatory for Qualifications.
5. Reviewing and verifying what departments submit to their academic programs and informing the concerned party in case of need to provide additional information or clarification.
6. Continuously coordinating with the Qualifications Registration Unit at the Deanship of Development and Quality to ensure that academic programs meet the requirements of the Saudi Observatory for Qualifications.

The tasks of Statistics and Information Unit

1. Collecting the necessary data, information and statistics from inside and outside the college.
2. Contributing to the analysis of data and drawing conclusions on the performance level of academic programs in the college.
3. Creating a central database that includes all data, information and statistics related to the college.
4. Providing the college and university units with the necessary information and reports.

5. Participating in the preparation of manuals, books and brochures for the college.
6. Preparing the annual report of the college.
7. Evaluation and statistical analysis in college.
8. Drawing annual operational plan of statistics and information unit in coordination with the Strategic Planning Unit and submitting to the deanship for approval and implementation.

The tasks of Measurement and Evaluation Unit

1. Drawing visions, plans, policies and goals of measurement and evaluation at the college level.
2. Spreading the culture of measurement and evaluation by holding training courses, workshops, lectures and seminars.
3. Providing support to the academic departments and various units in the college regarding the tasks of the unit.
4. Working on the diversification of measurement methods, adopting modern methods in the field of measurement and evaluation of performance.
5. Designing the questionnaires and data collection tools related to assessment.

The tasks of Alumni Unit

1. Prepare lists of students expected to graduate each year.
2. Follow up on the graduates of the college and their achievement in the professional tests and applying for jobs.
3. Hold periodic meetings with the graduates of the college in order to survey their opinion on the study plans in the college and their suitability for the labor market.
4. Compile various questionnaires from college graduates.

Vice Dean for Graduate Studies and Research

Duties:

1. Supervising and following up on the implementation of the policy of the college for graduate studies, scholarship and scientific research.
2. Supervising the development and reviewing postgraduate admission requirements.
3. Supervising the college's graduate studies processes, tests and committees.
4. Receiving the files of graduate students applying to the Deanship of Graduate Studies and distributing them to the various departments in the college.
5. Receiving departments decisions regarding graduate student applications and sending them to the Deanship of Graduate Studies following their approval by the College Council.

6. Supervising requests for course postponement, adding, dropping withdrawals or denial lists in accordance with the regulations and decisions issued in this regard for graduate students.
7. Coordinating with all entities within the college in all related fields.
8. Chairing the committees of the college vice rectorate for scientific research and graduate studies and submitting their reports to the concerned authorities.
9. Supervising and following up on the event of the induction program for graduate students.
10. Supervising scientific activities and developing the college's capabilities in the field of scientific research.
11. Supervising the development of the research strategy and plan and developing mechanisms for its implementation in the college
12. Supervising the provision of financial support for research from the university and from external funding agencies.
13. Coordinating with the Deanship of Scientific Research at the university, research centres at the college and other research institutions in relation to conducting research and obtaining support for them.
14. Receiving and following up on the needs of the departments for research, faculty members and lecturers in related specialities.
15. Intensifying cooperation between the college and the university in issues related to faculty members and their research achievements.
16. Supervising and continuously following up on all that is received by the college from the university regarding studies, conferences, seminars, scientific forums, workshops, and informing the departments.
17. Coordinating and following up students' research at the college.
18. Working to modify the domains of scientific research to serve and benefit the community.
19. Encouraging the establishment of distinguished scientific institutions or research centres of excellence.
20. Supervising the follow-up of college graduates abroad.
21. Coordinating with the Department of Faculty and Research Recruitment at the university regarding the process of recruitment.
22. Preparing the transactions issued by the college to the university and assuring their completeness and correctness regarding their data, in accordance with the administrative and academic procedures and regulations. These regulations in force at the university are required for each of the following transactions:
 - Conference and seminar attendance forms
 - Scientific mission completion reports

- Joint or supported research plans
 - Applications for scientific promotions
 - Applications for full-time scientific leave
23. Supervising the units of the college vice rectorate for scientific research and graduate studies.
 24. Supervising the implementation of the issues that are related to graduate studies and scientific research.
 25. Following up on updating the college's website regarding its vice rectorate and administrative units.
 26. Submitting periodic reports to the dean about the work progress of the affiliated units regarding entrusted tasks and faced difficulties.
 27. Supervising the process of hiring faculty members and those of equivalent status in coordination with the competent departments.
 28. Carrying out all other assigned tasks.

○ **Affiliated Units:**

- **Teaching Assistants and Lecturers Affairs Unit**
- **Postgraduate Studies Unit**
- **Scientific Research Unit**
- **Supervision Committee of Graduation Projects**

The tasks of Teaching Assistant and Lecturer Affairs Unit:

1. Follow up on the implementation of the college's scholarship policy.
2. Receive, approve, and submit department decisions regarding scholarship applications.
3. Follow-up on all procedures related to exchange students' affairs and scholarships in the college.
4. Support teaching assistants and lecturers in applying for the scholarship and obtaining the necessary approvals.
5. Advise teaching assistants and lecturers in selecting universities and graduate programs inside and outside the kingdom.
6. Supervise and follow-up on the conditions of the teaching assistants and lecturers in the college in addition to the college's exchange -students abroad.
7. Create an electronic database for the college's exchange students.
8. Follow-up on the college's exchange students and customize a special file for each student.
9. Prepare and submit minutes and reports of the committee's meetings and accomplishments to the Vice Dean for Research for Graduate Studies and Scientific Research on a regular basis.

The tasks of Postgraduate Studies Unit

1. Preparation and implementation of postgraduate programs (diploma, master's, doctorate, etc.).
2. Develop plans for postgraduate programs in line with the community's need to bridge the deficit in distinguished specialists and researchers.
3. Developing and updating postgraduate programs in line with international standards and keeping pace with development and meet the needs of the community.
4. Develop the infrastructure, administrative and technical matters to enhance the quality of graduate programs.
5. Preparing admission requirements for postgraduate programs.
6. Supervising admission exams in postgraduate programs for new applicants.
7. Coordination with departments regarding postgraduate students' requests.
8. Presenting suggestions and recommendations that would raise the level of performance of graduate programs in the university.
9. Preparing an annual report on the unit's work and submitting it to the Dean of the College.

The tasks of the Supervision Committee of Graduation Projects

1. Coordinate and follow-up on students' research in the college, especially the graduation project for students of the Doctor of Pharmacy program in the college.
2. Encourage students to participate in scientific research by holding workshops, lectures, and other events that demonstrate the value of scientific research and encourage professors to involve students in their research.
3. Collect graduation project topics from faculty members and deliver them to students and follow up on the assigning of students to faculty members.
4. Advise students on various graduation projects and encouraging them to select topics that address society's issues.
5. Follow-up on all procedures of graduation projects in the college.
6. Create an electronic database of all graduation projects in the college and the published ones.
7. Prepare the necessary forms to evaluate students' research and supervise the evaluation of graduation projects.
8. Prepare and submit minutes and reports of the committee's meetings and accomplishment to the Vice Dean of Graduate Studies and Scientific Research on a regular basis.

The tasks of Scientific Research Unit

1. Updating the research plan and following up on its implementation.
2. Follow-up of scientific research in the College of Pharmacy for faculty members and

3. the students.
4. Coordination with the Deanship of Scientific Research at the university regarding scientific research in the college.
5. Preparing the bylaws, studies and regulations necessary to organize and develop scientific research in the college.
6. Supervising scientific activities, and developing the college's capabilities in the field of scientific research.
7. Follow up on department needs of researchers and faculty members in different disciplines.
8. Working on adapting the fields of scientific research to serve the community.
9. Coordination with the college administration regarding the recruitment of distinguished faculty members.
10. Work to achieve research partnership by providing research and advisory services for community institutions.
11. Strengthening cooperation with national, regional and global research centers by conducting research and sharing knowledge and experience.
12. Supervising research laboratories in the college and developing studies for their needs and fittings.

Vice Dean of Pharmaceutical Training

Duties:

1. Collect the number of male and female students applying to study the internship year (all scientific departments).
2. Scrutinize all results for applicants.
3. Follow up on the academic affairs regarding the students in the clinical stage and overcome all obstacles.
4. Liaise with all hospitals and medical centres in the region and throughout the Kingdom and coordinate with them and provide admission for all male and female students to spend a year of compulsory internship. Supervise their rewards with the Deanship of Human Resources.
5. Form a committee of all specialties in the college to supervise the students after their distribution in hospitals.
6. Supervise the study plan and curriculum at the clinical stage.
7. Inspect and approve the academic movements for students of the clinical-stage according to the regulations.

8. Check over course reports and take what is necessary regarding the recommendations included and modifications in the courses.
9. Supervise the programs and activities provided to the student in the clinical stage and examine the services provided to them and pursue efforts to develop and update those services.
10. Approve the academic plans of the clinical academic departments in the college and supervise the implementation of the study plans of the college and the various scientific departments.
11. Oversee all aspects of internal and external training programs in clinical departments.
12. Verify the provision of references in various disciplines in coordination with the scientific departments, the central library and the college library and submit a report with the needs of the scientific departments according to the regular procedures.
13. Supervise the provision of appropriate educational equipment, confirm its employment in the teaching and learning processes in the college, and follow up on the educational facilities, and specify the laboratories in the college.
14. Distribute all regulations as well as tasks required from the internship students.
15. Visit to oversee the students in the internship period in all hospitals in Tabuk region through the coordinators in the committee.
16. Develop methods and tools of evaluation and measurement in the clinical stage.
17. Supervise tests in the clinical stage and approve the results according to the established regulations and policies.
18. Approve the lists of denial in the clinical stage and submit them according to rules and regulations.
19. Decide on students' excuses in the clinical stage as needed in accordance with the regulations .
20. Spreading the culture of academic advising for clinical years and proposing a plan for its implementation.
21. Reviewing academic guidance reports and suggesting appropriate steps.
22. Studying the complaints of the students and their problems and proposing appropriate solutions in coordination with competent bodies in the college.
23. Considering student cases in the clinical stage and chairing committees to discipline the offending students and apply the regular procedures against them.
24. Issuing certificates of completion of the year of internship to all students after completing the training period and archiving certificates.
25. Qualifying students and training them to pass the Saudi Commission for Health Specialties tests to be classified as practitioners.
26. Supervising Alumni Affairs and following up on their career and employers` satisfaction with their performance.

27. Supervising all aspects of the training program for the year of internship.
28. Following up on the affairs of internship students and evaluating their performance during training periods.
29. Establishing policies and regulations for clinical training and internship.
30. Supervising and following-up on faculty members and part-time assistants at the clinical stage.
31. Contributing to the efficiency of faculty member teaching and learning processes during the clinical years .
32. Selecting the affiliated units and department supervisors and recommending their appointment.
33. Addressing the relevant bodies within the university in the competence and scope of the Vice Deanship work.
34. Issuing internal decisions as required by the progress of work of the Vice Deanship and its units in accordance with the regulations and rules.
35. Evaluating the performance of Vice Deanship employees.
36. Developing simulation training unit to qualify students to work in hospitals.
37. Carrying out all other assigned tasks.

○ **Affiliated Units:**

- **Pharmaceutical Training Unit**
- **Simulation Unit**
- **Agreements Unit**

The tasks of the Pharmaceutical Training Unit:

1. Coordinating with hospitals, pharmacies, and approved centres to receive and train college students.
2. General supervision of the internship within the college in coordination with the departments.
3. Developing manuals, forms and procedures for training students.
4. Proposing development plans to enhance the efficiency of the internship.
5. Following up on the performance of students, facilitating procedures and solving problems related to training.
6. Submitting student papers at the start of the internship to approve the financial rewards.
7. Completing and submitting documents for the sub-contracted in clinical training from outside the college.
8. Evaluating students and receiving performance reports from hospitals, pharmacies, and training centres.
9. Preparing a certificate of completion of the year of internship.

10. Preparing the reports and correspondence necessary to accept the training of students.
11. Submitting the performance report to the Vice Dean of pharmacy training.
12. Any other tasks assigned to the unit by the Vice Dean of pharmacy training.

The tasks of Simulation Unit

1. Supervising the training of students in the simulation unit of the university.
2. Providing the unit with appropriate educational equipment.
3. Ensuring the optimization of all devices and equipment in the simulation unit.
4. Following up and updating simulation facilities periodically.
5. Coordinating with the health colleges at the university in order to achieve the topmost benefit from the simulation unit.
6. Submitting the report of performance to the Vice Dean of Pharmacy Training.
7. Any other tasks assigned to the unit by the Vice Dean of the College for Pharmacy Training.

The tasks of Agreements Unit

1. Addressing the relevant bodies of training students and reaching agreements and partnerships with them in order to train and qualify students and solve the obstacles encountered.
2. Coordinating with the relevant authorities within the university in order to complete all the procedures and agreements.
3. Submitting the report of performance to the Vice Dean of Pharmacy Training.
4. Any other tasks assigned to the unit by the Vice Dean of Pharmacy Training.

Admission and Transfer Terms from Inside and Outside the University

Admission of the new student is conditioned by:

1. The student must be a Saudi national or the mother is Saudi.
2. The student must have a general secondary school certificate or its equivalent from inside or outside the kingdom in the sciences or natural Sciences.
3. The certificate equivalency must be issued by the Certificate Equivalency Committee of the Ministry of Education if the secondary certificate is obtained abroad.
4. No more than five years have passed since obtaining the certificate.
5. The applicant must not be older than 25 years.
6. The average must not be less than 90%.
7. The achievement test score should not be less than 65%.
8. The student should not have been dismissed from the university or any other university for academic or disciplinary concerns, and the admission should be considered null and void if it is proven after the final admission that he/she has already been dismissed.
9. The student should not be enrolled in the same degree or other degree at the University and if it becomes clear after the final admission that s/he is enrolled, his admission is considered null and void.
10. The student should not be accepted or enrolled in another university and if it becomes clear after the final admission that s/he is accepted or enrolled, the admission shall be considered null and void.
11. The applicant's admission will be cancelled in the event of a lack of/ error in the data entry and therefore accuracy is a requirement.
12. The applicant is responsible for following the admission procedures through the University's website and social media.

Transfer Terms From Outside the University

1. The specialty the student transferred from should be a doctor of pharmacy.
2. All required documents must be completed (to confirm the validity of the information entered by the applicant).
3. The completed requirements at the Faculty of Pharmacy at Tabuk University should not be less than 60% of the number of units required to obtain the degree of Doctor of Pharmacy.
4. The student's GPA should not be less than 3.5 out of 5.

5. Equivalency of the completed courses by the student is granted by the relevant scientific departments of the college.
6. The first year courses are granted equivalency by the colleges that teach those courses.
7. The student is registered in the academic year in which s/he has one or more courses that hasn't granted equivalency.
8. The student is enrolled in the next higher academic year only if all the courses of the previous academic years are granted equivalency according to the study plan of the College of Pharmacy, University of Tabuk.

Internal Transfer Terms

Internal transfer for students of Tabuk University in both the male and female sections is only available for Health Specialties.

Program offered

Programs offered by the college

PharmD program offered by Faculty of Pharmacy

Total credit hours: 193 hours

The qualification (certificate) that the student obtains after graduation: PharmD

Department	Degree
Pharmacy Practice Department	PharmD Program
Department of Pharmacology and Toxicology	
Department of Pharmaceutical Chemistry	
Department of Pharmaceutics	
Department of Natural Products and Alternative Medicine	

Fields of work for graduates of the program

A pharmacist with a PharmD degree can work in different sectors, the most important of which are:

1. Pharmacies: government and private, hospital pharmacies, and corporate pharmacies.
2. Drug and Toxicological Information Centers.
3. Drug analysis laboratories, food and water analysis laboratories, poison detection and treatment laboratories, analysis and quality control, Food and Drug General Authority.
4. Pharmaceutical manufacturing.
5. Scientific offices of pharmaceutical companies.
6. Pharmaceutical and pharmacological research.
7. Works of a technical administrative nature (eg: the Saudi Commission for Health Specialties).
8. Academic field (a faculty member at the university).

Academic departments

Pharmacy Practice Department

Contact us

Phone Number: 0144563930

Official webpage

<https://www.ut.edu.sa/ar/web/department-of-clinical-pharmacy/department>

About Pharmacy Practice Department

The Department of Pharmacy Practice is one of the main departments of the Faculty of Pharmacy at the University of Tabuk, on which the Pharm D program depends. The department delivers 19 core courses, from the student's entry to the Faculty until graduation. The department is committed to provide students with clinical knowledge, professional, and communication skills required to develop patient-oriented care, decision-making and therapeutics management skills that are necessary for the proper practice of pharmacy after graduation in different health care settings according to international standards .

Vision

The Department of Pharmacy Practice seeks to achieve excellence in pharmacy education and scientific research in the field of patient care and community service in accordance with international standards.

Mission

Contribute to preparing outstanding graduates by teaching updated medication management courses and professional training for Pharm D program students as well as conducting applied research that serves the community.

Objectives

1. Provide the community with pharmacists who hold Doctor of Pharmacy (Pharm. D) degree at a high level of efficiency, the capacity of practicing the profession of pharmacy in its various aspects in government and private hospitals, public pharmacies, and pharmaceutical companies.
2. Prepare qualified graduates who have full awareness of the basic rules for initiating, continuing, changing, or stopping treatment, with a comprehensive understanding of the principles of pharmacokinetics to improve the treatment plan for the individual patient.
3. Enhance the communication skills of graduates to interact efficiently with the medical team and patients in various working conditions.

4. Develop graduate's cognitive abilities in searching for and interpreting drug information, using the pharmaceutical and medical sciences and its applications to various pathological conditions.
5. Participate in community service in cooperation with the relevant authorities for safe and rational drug use, detection and treatment of poisoning, and sharing the scientific information.
6. Optimal and rational use of the drugs and awareness of adverse drug events and other medication-related problems.
7. Contribute to the field of scientific research by developing and participating in basic and applied research projects in community and healthcare settings.

Department staff members	
Name	Academic rank
Male Section	
Dr. Yasser Mohammed Alatawi	Assistant Professor
Dr. Mostafa Abdelrahman Sayed Ali	Assistant Professor
Dr. Ahmed Mohsen Hamdan	Assistant Professor
Dr. Palanisamy Amirthalingam	Assistant Professor
Dr. Vinoth Prabhu Veermani	Assistant Professor
Ahmed Matrouk Alotaibi	Teaching Assistant
Ali Abdulmalik Althubiani	Teaching Assistant
Abdullah Fawaz Alshareef	Teaching Assistant
Raed Ibrahim Algozi	Teaching Assistant
Faisal Fahad Alnefaie	Teaching Assistant
Female Section	
Dr. Hoda Abdulaziz Salem	Associate Professor
Dr. Hanan Mohammed Alsharif	Assistant Professor
Dr. Kousalya Prabahar	Assistant Professor
Wafa Ahmed Alatawi	Teaching Assistant
Wala Mohammed Abu Rukbah	Teaching Assistant
Kaznah Saad Alkassab	Teaching Assistant

Department of Pharmacology and Toxicology

Contact us

Phone: 0144563900

The official link of the department on the university website

<https://www.ut.edu.sa/ar/web/department-of-pharmacology-and-toxicology/department>

About the department:

The Department of Drugs and Toxicology was established with the establishment of the college in the year 1434 AH and it teaches 7 basic courses and 3 elective courses. The department was established in its inception with the presence of two faculty members, and the department was keen to attract more Saudi and foreign expertise until the number of faculty members reached four members, a teaching assistant and a teaching assistant in the United States of America.

Vision

The Department of Pharmacology and Toxicology at the Faculty of Pharmacy seeks excellence in teaching pharmacology and toxicology courses and conducting advanced scientific research that assists finding therapeutic options for common diseases as well as providing a sophisticated community service to Tabuk population.

Mission

The Department of Pharmacology and Toxicology aims to provide students with distinguished scientific experiences in the fields of pharmacology and toxicology through updated curricula and distinguished faculty and administrative staff. The department is interested in applied scientific research to serve the community in the context of achieving the Faculty mission with an emphasis on commitment on religious, ethical and scientific values during all the deals carried out by the department with all entities and individuals.

Objectives

- 1- Providing students with the basic and advanced information about the therapeutic effects and side effects of medications on different body organs.
- 2- Providing students with the basic and advanced information about the effects of toxicants on the various body parts and how to diagnose and treat some cases of poisoning.
- 3- Providing students with some of the skills necessary for clinical practice, such as adjusting doses according to the patient's condition and the following up of the treatment response.

- 4- Cooperating with other departments in the Faculty, University, and society to achieve the Faculty mission.

Department staff members	
Name	Academic rank
Male Section	
Dr. Abdullah Odah Alattar	Assistant Professor
Dr. Mohammed Samir Abdelmaksoud Megahed	Assistant Professor
Abdullah Mohamed AlAtawi	Teaching assistant
Female Section	
Dr. Sawsan Abobakr Zaitone	Associate Professor
Dr. Reem Shelweeh Homoud Alshaman	Assistant Professor
Duha Mohammed Abdulrahman Alshareif	Teaching assistant

Department of Pharmaceutical Chemistry

Contact us

Phone: 0144563914

The official link of the department on the university website

<https://www.ut.edu.sa/ar/web/department-of-pharmaceutical-chemistry/department>

About the department

The Department of Pharmaceutical Chemistry is one of the departments of the College of Pharmacy at University of Tabuk, which contributes to teaching, scientific research, as well as college administration. Teaching in the department began with the establishment of the college in 1434 AH. The department's faculty teaches eight core courses and two elective courses.

Vision

A department that achieves international standards in pharmaceutical education and scientific research in various fields of chemistry and contributes to community service.

Mission

Providing the student with knowledge, skills and competencies in the field of drug design, preparation, analysis, study of the relationship between its structure, effectiveness and stability, and the follow-up of drug metabolism through advanced and updated curricula by a qualified faculty in order to achieve the mission of the faculty.

Objectives

1. Preparing students to practice the profession of pharmacy by teaching basic and applied pharmaceutical chemistry sciences. These include pharmaceutical organic chemistry, medicinal chemistry and pharmaceutical analytical chemistry, pharmaceutical and clinical biochemistry and drug design.
2. Conducting research supported by the university and other bodies outside the university in the field of specialization and in the department and college laboratories.
3. Providing awareness and consulting services to the community.

Department staff members	
Name	Academic rank
Male Section	
Prof. Dr. Kamel Abd El-Rehim Metwally	Professor
Prof. Dr. Mohammed Mohammed Helmy Al-Gayyar	Professor
Dr. Nader Abo Dya	Associate Professor
Abdullah El-Wagdany	Demonstrator
Female Section	
Dr. Hebatallah Atteia	Associate Professor
Dr. Nehal Elsherbiny	Assistant Professor

Department of Pharmaceutics

Contact us

Phone: 0144563894

The official link of the department on the university website

<https://www.ut.edu.sa/ar/web/department-of-pharmaceutics/department>

About the Pharmaceutics Department:

Pharmaceutics is the science concerned with converting raw pharmaceutical materials into various pharmaceutical dosage forms, such as tablets, capsules, creams, injections, and all others. The pharmaceutical dosage forms are chosen based on the physical and chemical properties of the drug substance and its stability and suitability for the patient's use and the disease being treated. It is also based on the speed with which it is needed to be delivered. The department teaches 6 core courses and 3 electives.

Vision

The Department of Pharmaceutics of the College of Pharmacy, University of Tabuk aspires to increase drug effectiveness and reduce its side effects by providing students with the knowledge and skills necessary to design and evaluate different dosage forms, and to conduct innovative research to deliver the drug to the affected place only within the body.

Mission

The Department of Pharmaceutics seeks to achieve the college's mission by providing students with the knowledge and practical and scientific expertise necessary to design, formulate and evaluate various traditional and modern pharmaceutical preparations in order to deliver a safe and effective drug to the patient's body.

Objectives

1. Providing students with the knowledge, skills and experience necessary to design and evaluate various pharmaceutical preparations.
2. Contributing in preparing specialized graduates at a high level of proficiency to work in various pharmacy fields such as pharmaceutical industries, general pharmacies in the community and hospitals while ensuring good pharmacy practice standards in those areas.
3. Conducting and encouraging scientific research based on the actual needs of the Kingdom.
4. Cooperate with governmental and private agencies to solve problems facing the manufacture and evaluation of pharmaceuticals.

5. Support and encourage students wishing to conduct scientific research and support and develop continuous pharmacy education.

Department staff members	
Name	Academic Rank
Male section	
Dr. Ghareb Mohamed Soliman	Associate Professor
Dr. Ayman Salama Mohamed Garwan	Assistant Professor
Sayer Falah Al-Harbi	Demonstrator
Female section	
Dr. Mona Kamel Qeshawy	Assistant Professor
Rahaf Adeeb Sadaqa Al-Mahlawi	Demonstrator

Department of Natural Products and Alternative Medicine

Contact us

Phone: 0144563918

The official link of the department on the university website

<https://www.ut.edu.sa/ar/web/department-of-natural-products-and-alternative-medicine/departmen>

About the Natural Products and Alternative Medicine Department

- The department has been established since the establishment of the faculty by the royal resolution in 1434H.
- The department consists of two main specializations: Natural products and alternative medicine/ Microbiology. The department participates in teaching a number of courses in Pharm D program.

Vision

The Department of Natural Products and Alternative Medicine at the Faculty of Pharmacy seeks to reach distinction at the local, regional and global levels in the field of teaching natural products and the field of research related to natural products.

Mission

Contribute to achieving the college's mission by providing students with the basic scientific and practical knowledge and expertise in the field of natural products and alternative medicine to ensure that they can serve the surrounding environment and community in the field of natural products.

Objectives

1. Participation in providing a high-quality educational level for graduating distinguished and qualified pharmacists to work in public and private pharmacies, pharmaceutical factories and companies, drug control laboratories and analysis of medicines based- natural products.
2. Provide students with the adequate knowledge, skills and experience in the field of natural products and alternative medicine.
3. Cooperation with governmental, private, and relevant authorities to make beneficial use of natural products as sources of medicines, as well as to assess the effectiveness and safety of traditional medicine.
4. Educating the local community about the benefits and risks of traditional medicine and alternative medicine.

5. Support and encourage students wishing to conduct scientific research and support and develop continuous pharmacy education.
6. To reach and be a pioneer in the field of scientific research related to natural products.
7. Provide students with the adequate knowledge, skills, and experience in the field of microbiology and infection control.

Department staff members	
Name	Academic Rank
Male section	
Dr.Nizar Sirag Eltayeb	Assistant Professor
Dr.Hassabelrasoul Elfadil Hassan	Assistant Professor
Female section	
Dr. Rehab Yousif Mohammed	Assistant Professor

Study Plan

Year	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Type of requirements
Year 1	COMM001	Communication Skills	Required		2	University
	CSC001	Computer Skills	Required		3	University
	EMD001	English Language for Medical Fields (1)	Required		5	University
	LTS001	Learning, Thinking and Searching Skills	Required		3	University
	EMD002	English Language for Medical Fields (2)	Required	EMD001	5	University
	BIO101	General Biology	Required		3	University
	CHEM101	General Chemistry	Required		3	University
	MATH100	Mathematics (1)	Required		3	University
	MATH101	Mathematics (2)	Required	MATH100	3	University
	PHYS101	General Physics	Required		3	University
Year 2	PDMD0211	Anatomy & Histology	Required		3	Program
	PDNP0211	Natural Products	Required		3	Program
	PDPC0211	Pharmaceutical Organic Chemistry-1	Required		3	Program
	PDPH0211	Pharmaceutical Calculations	Required		2	Program
	PDPP0211	Orientation to Pharmacy	Required		2	Program
	PDPT0211	Medical and Pharmaceutical Terminology	Required		2	Program
	PDPC0212	Pharmaceutical Organic Chemistry-2	Required		3	Program
	PDPH0212	Physical Pharmacy	Required		3	Program
	PDMD0221	Basics of Physiology-1	Required		2	Program
	PDPC0221	Pharmaceutical Analytical Chemistry	Required		4	Program
	PDMD0222	Basics of Physiology-2	Required		2	Program
	PDMD0231	Pharmaceutical Biochemistry	Required		4	Program
	PDMD0241	Basics of Microbiology	Required		3	Program
	ISLS101	Islamic culture (1)	Required		2	University
	ISLS201	Islamic culture (2)	Required		2	University
	PDFT0311	Pharmaceutical Field Training-1	Required		0	Program

Year	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Type of requirements
Year 3	PDNP0321	Evidence-Based Herbal Medicine	Required		3	Program
	PDPP0321	Introductory Pharmacy Practice Experience-1	Required		3	Program
	PDPT0321	Pharmacology-1	Required		3	Program
	PDPT0322	Pharmacology-2	Required		3	Program
	PDMD0331	Applied Microbiology	Required		3	Program
	PDPC0331	Introductory Medicinal Chemistry	Required		3	Program
	PDPH0331	Pharmaceutics-1	Required		3	Program
	PDMD0332	Principles of Pathophysiology-2	Required		3	Program
	PDPH0332	Pharmaceutics-2	Required		2	Program
	PDMD0341	Immunology	Required		2	Program
	PDPH0341	Biopharmaceutics and Pharmacokinetics	Required		3	Program
	PDPC0342	Medicinal Chemistry-1	Required		3	Program
	PDMD0351	Principles of Pathophysiology-1	Required		3	Program
	ISLS301	Islamic culture (3)	Required		2	University
	ISLS401	Islamic culture (4)	Required		2	University
Year 4	PDFT0412	Pharmaceutical Field Training-2	Required		0	Program
	PDPP0422	Introductory Pharmacy Practice Experience-2	Required		3	Program
	PDPP0423	Pharmacy Practice Experience	Required		2	Program
	PDPT0423	Applied Pharmacology-1	Required		2	Program
	PDPT0424	Applied Pharmacology-2	Required		2	Program
	PDPP0431	Therapeutics-1	Required		5	Program
	PDPC0432	Clinical Biochemistry	Required		3	Program
	PDPP0432	Complementary & Alternative Medicine	Required		2	Program
	PDPC0436	Therapeutics-2	Required		5	Program
	PDPP0441	Pharmacy Law & Ethics	Required		2	Program
	PDPC0443	Medicinal Chemistry-2	Required		3	Program
	PDNP0451	Pharmaceutical Biotechnology	Required		2	Program

Year	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Type of requirements
	PDPH0451	Pharmaceutical Technology	Required		3	Program
	PDPP0451	Clinical Pharmacokinetics	Required		2	Program
	----	Elective Course	Elective		2	Program
	ARB101	Language skills	Required		2	University
Year 5	PDPP0511	PharmD Research Project	Required		2	Program
	PDFT0513	Pharmaceutical Field Training-3	Required		0	Program
	PDPP0524	Advanced Pharmacy Practice Experience	Required		2	Program
	PDPT0531	Clinical and Forensic Toxicology	Required		3	Program
	PDPP0533	Advanced Therapeutics-1	Required		5	Program
	PDPP0534	Advanced Therapeutics-2	Required		5	Program
	PDMD0541	Physical Assessment and First Aid	Required		2	Program
	PDPT0541	Biostatistics	Required		2	Program
	PDPP0561	Pharmacoepidemiology & Pharmacoeconomics	Required		2	Program
	PDPP0562	Applied Drug Information	Required		2	Program
	PDPP0563	Hospital Pharmacy	Required		2	Program
	PDPP0564	Pharmacy Administration and Marketing	Required		2	Program
	PDPP0571	Nutrition	Required		1	Program
	PDPP0572	Applied Nutrition	Required		3	Program
	---	Elective Course	Elective		2	Program
	ARB201	Writing skills	Required	ARB101	2	University
Year 6	PDPR0611	Clinical pharmacy rotation -1	Required		0	Program
	PDPR0612	Clinical pharmacy rotation -2	Required		0	Program
	PDPR0613	Clinical pharmacy rotation -3	Required		0	Program
	PDPR0614	Clinical pharmacy rotation -4	Required		0	Program
	PDPR0621	Clinical pharmacy rotation -5	Required		0	Program
	PDPR0622	Clinical pharmacy	Required		0	Program

Year	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Type of requirements
		rotation -6				
	PDPR0623	Clinical pharmacy rotation -7	Required		0	Program
	PDPR0624	Clinical pharmacy rotation -8	Required		0	Program

Elective courses: The student should choose 3 courses from the following table:

Course Code	Course Title	Credit Hours
PDPC0402	Scientific writing and presentation	2
PDPH0402	Advanced drug delivery system	2
PDPP0403	Community pharmacy management	2
PDPT0403	Drug Dependence and abuse	2
PDNP0501	Public health	2
PDPH0501	Good manufacturing practice	2
PDPP0501	Applied pharmacokinetics	2
PDPT0501	Forensic pharmacy	2
PDPH0502	Radio-pharmaceuticals	2
PDPP0502	Ambulatory pharmaceutical care	2
PDPT0502	Experimental models of disease	2
PDPP0503	Advanced clinical skills	2
PDPC0501	Molecular drug design	2

Courses description

Second Year

First Semester

Anatomy & Histology (PDMD0211):

This course introduces the student to the structure of the human body and its relationship to function. Following an introduction to basic human histology, the course uses a systemic approach to the study of human anatomy.

Basics of Physiology-1 (PDMD0221):

This course provides an introduction to fundamental physiological principles. The areas of physiology covered in this unit are excitable tissues, the Cell Physiology, Nervous system and muscular system and Endocrine & Reproduction, and metabolism.

Pharmaceutical Organic Chemistry-1 (PDPC0211):

This course enables the understanding of the structural features of organic compounds which defines the physical and chemical properties of drug substances. Special emphasis is placed on chirality topic and its effect on drug purity and action. Other stereochemical aspects of organic molecules are also studied, including conformational and geometrical isomerism. Common reactions of alkanes, alkenes and alkynes are studied.

Pharmaceutical Analytical Chemistry- I (PDPC0221):

The course offers a wide range of analytical methods for analysis of pharmaceuticals and related materials. It deals with quantitative methods (acid-base titrations in aqueous and non-aqueous media, precipitation titrations, complexometric titrations, and redox titrations). In addition, it provides the basis of the following techniques: uv-visible spectroscopy, spectrofluorometric, flame photometry, atomic absorption spectrophotometry, electrochemistry (conductometry and potentiometry), and chromatography (HPTLC, HPLC, and GC).

Medical & Pharmaceutical Terminology (PDPT0211):

The course focuses on accurate spelling and pronunciation of terms and building knowledge of basic medical vocabulary with an emphasis on prefixes, suffixes, roots, and combining vowels. This course will focus on the many components of a medical term and how to break down a medical term by simply knowing the meaning of the prefix or suffix. Terminology related to the body systems is discussed.

Orientation to Pharmacy (PDPP0211):

The course is designed to provide an overview of the curriculum contents of the pharm D program, introduction to the profession of pharmacy, current pharmacy practice trends and pharmacy career opportunities.

Pharmaceutical Calculations (PDPH0211):

This course will provide an integrated approach to the fundamentals of pharmaceutical calculations. Attention will also be given to the basic math concepts that are utilized in the daily pharmacy practice. Measurement systems and their units will also be covered in the course.

Second Year

Second Semester

Basics of Physiology-2 (PDMD0222):

This course provides an introduction to fundamental physiological principles. The areas of physiology covered in this unit are excitable tissues, the Cell Physiology, Nervous system and muscular system and Endocrine & Reproduction, and metabolism.

Physical Pharmacy (PDPH0221)

This course aims to provide the students with adequate knowledge about some physical pharmacy principles including states of matter, colligative properties, drug stability, solubility, rheology, interfacial phenomena, and surfactants. This course also provides the students with adequate knowledge on liquid dosage forms including colloids, suspensions, and emulsions.

Pharmaceutical Organic Chemistry-2 (PDPC0212):

This course includes the knowledge, understanding, and skills related to nomenclature, structural features and reactions of alkyl halides, aryl halides, benzene, aromatic compounds, alcohols, phenols, ethers, thiols, aldehydes, ketones, carboxylic acids, carboxylic acid derivatives and heterocyclic compounds. The course also includes concepts and applications of spectroscopic techniques for identification of organic compounds namely, ultraviolet spectroscopy, infrared spectroscopy, mass spectrometry as well as ^1H and ^{13}C nuclear magnetic resonance spectroscopy.

Pharmaceutical Biochemistry (PDPC0231)

Provide students with a recent knowledge in modern biochemistry. The course provides introduction to the structure, properties, and significance of the major groups of biochemical compounds including amino acids, proteins, carbohydrates, nucleic acids, lipids, vitamins and

hormones. The course deals also with the production of body energy, mechanisms of enzyme action and control of metabolic pathways. Topics include glycolysis, gluconeogenesis, pentose phosphate pathway, the citric acid cycle, glucose and glycogen metabolism, the urea cycle, oxidative phosphorylation and photosynthesis.

Natural Products (PDNP0211)

Introductory course to provide students with adequate information regarding natural sources of drugs.

Basics of Microbiology (PDMD0241):

Introductory course to provide students with basic knowledge of Microbiology.

Third Year

First Semester

Principles of Pathophysiology-1 (PDMD0351):

This course introduces the student to the structure of the human body and its relationship to function. Following an introduction to basic human histology, the course uses a systemic approach to the study of human anatomy.

Pharmacology-1 (PDPT0321):

The course introduces detailed information about topics in general introduction to pharmacology, pharmacokinetics, pharmacodynamics, pharmacological aspects of autonomic nervous system (ANS) and the central nervous system (CNS), Antiepileptic and neurodegenerative Diseases.

Pharmaceutics-I (PDPH0331):

The main purpose of the course is to give PharmD students a detailed background about pharmaceutical aspects of solid dosage forms such as tablets and capsule formulations, topical formulations, transdermal drug delivery systems and radiopharmaceuticals.

Introductory Medicinal Chemistry (PDPC0331):

Provide students with a recent knowledge in the basic concepts of medicinal chemistry. The course provides introduction to classification of drugs and the relationship between their physicochemical properties and biological activity. The course also deals with chemical structure, biological activity and uses, structure activity relationship, mode of action, assay and side effects of chemotherapeutic

and antineoplastic agents. Topics include physicochemical properties in relation to biological activity, isosterism and bioisosterism, anti-infective and antineoplastic agents.

Evidence-Based Herbal Medicine (PDNP0321):

To emphasize the concept of evidence-based herbal medicine and its impact on clinical practice.

Applied Microbiology (PDMD0331):

To provide student with adequate knowledge of antimicrobial chemotherapy.

Third Year

Second Semester

Principles of Pathophysiology-2 (PDMD0332):

This course introduces the student to the structure of the human body and its relationship to function in many organs as vascular, respiratory, endocrine, urinary and gastric.

Pharmacology-2 (PDPT0322):

The course covers the pharmacology of drugs acting on different organ systems including the cardiovascular system (CVS), and endocrine system. In addition the course covers drugs for treating hyperlipidemia.

Medicinal Chemistry-1 (PDPC0342):

Provide students with a recent knowledge in medicinal chemistry. The course deals with chemical structure, biological activity and uses, structure activity relationship, mode of action, assay and side effects of drugs acting on peripheral and central nervous systems, narcotic and non-narcotic analgesics, cardiovascular drugs and diuretics.

Pharmaceutics-2 (PDPH0332):

The course is designed to provide the students with adequate knowledge on sterile dosage forms including parenteral and ophthalmic. The course also covers pharmaceutical aerosols, controlled release drug delivery systems and intrauterine drug delivery systems. The course also covers the international pharmacopeia guidelines on sterile and nonsterile compounding, hazardous drugs, regulation of compounding and clean-room requirements.

Biopharmaceutics & Pharmacokinetics (PDPH0341):

The course covers the basic concepts and principles in biopharmaceutics and pharmacokinetics. Biopharmaceutics deal with the role of dosage form in the absorption and disposition of drugs. Pharmacokinetics describes the processes involved in the absorption of a drug from administration site into the blood

Immunology (PDMD0341):

This course is designed to provide Pharm D student with basic knowledge and concepts of immunology and body defense mechanisms.

Introductory Pharmacy Practice Experience-1 (PDPP0321):

Introduction to community health provides an introduction to the knowledge, skills and attitudes necessary for success in the professional pharmacy curriculum and focuses on the development of competent, caring general pharmacist practitioners by raising awareness of how community health shapes an individual's health experience.

Fourth year

First Semester

Therapeutics-1 (PDPP0431):

This course provides understanding of therapeutic concept in the management of disease states through both formal lectures and structured case analysis discussions. Topics include hypertension, heart failure, dyslipidemias, coronary artery diseases, myocardial infarction, arrhythmias, peripheral vascular disorders, thrombosis, anemia fluids and electrolytes, acid-base disturbance, renal failure (acute, chronic/dialysis).

Clinical Biochemistry (PDPC0432):

Provide students with a recent knowledge in clinical biochemistry. The course provides introduction to the clinical laboratory diagnostic tests and procedures related to the identification and diagnosis of systemic disorders of the human body.

Applied Pharmacology-1 (PDPT0423):

The course covers the basic principles of anti-infective therapy and drug therapy in special patient conditions (disease, pregnancy, infancy or elderly) and impact of drug interactions in order to prescribe the most suitable drug and dosage form.

Medicinal Chemistry-2 (PDPC0443):

This course deals with the metabolic changes of drugs and metabolic processes of various functional groups found in therapeutic agents. It also covers the chemical structures, biological activity and molecular mode of action and SAR of hormones, centrally acting analgesics, antipyretics and anti-inflammatory drugs, nonsteroidal therapies of hormone-related disorders, drugs used for treatment of bone disorders and antihistaminic agents.

Introductory Pharmacy Practice Experience-2 (PDPP0422):

This course offers basics of pharmaceutical care process with special emphasis to assessment of drug related problems, drug interactions, adverse drug reaction monitoring, therapeutic drug monitoring and medication safety management. Pharmaceutical care for the special populations including pediatrics, geriatrics, hepatic and renal failure also included.

Pharmaceutical Technology (PDPH0451):

This course aims to provide the students with the necessary knowledge in the area of pharmaceutical technology, the pharmaceutical plant construction and the considerations layout of industrial firms. After completing this course the students will have learned adequate knowledge in the area of industrial unit operations (Particle size reduction, mixing, heat transfer, evaporation, granulation, drying, etc.) and the specific factors associated with the preparation and evaluation of different dosage forms.

Pharmaceutical Biotechnology (PDNP0451):

The course aims to provide students with the basics and recent development in pharmaceutical biotechnology and its impact on pharmaceutical industry as well as therapy as advance therapeutic tool.

Fourth Year

Second Semester

Pharmacy Practice Experience (PDPP0423):

The main purpose for this course is to allow students to apply knowledge and develop skills needed to optimize the pharmacist's professional scope of practice in providing effective patient care.

Pharmacy Law and Ethics (PDPP0441):

The course exposes students to Saudi Arabian governmental law and regulations relating to all aspects of the profession of pharmacy. Topics include definitions, ethics and law, legal system, administrative agencies, organizational structures, applications, permits and licenses, dangerous

drugs, controlled substances, parenteral, drug pricing, and registration, records, reports, inventory/storage and security, disposals, pharmacy inspection, product liability, unfair trade practice and other pharmacy law related topics.

Applied Pharmacology-2 (PDPT0424)

The course covers the pharmacology of drugs used in treatment of diseases affecting different organs including liver, GIT, CNS and studying cases about that.

Therapeutics-2 (PPC0432):

Provide students with a comprehensive knowledge of clinical manifestations and different types of medications and therapies for the prevention and treatment of various diseases. The course deals also with the concepts and principles of medicines management with therapeutic algorithm and clarify the therapeutic plan for each disease state.

Complementary & Alternative Medicine (PDPP0432):

The course describes the different approaches and the evolving theories of CAM and the role of Pharm D pharmacists in dealing with such practice.

Clinical Pharmacokinetics (PDPP0451):

Clinical Pharmacokinetics course focusing on, topics in daily issue such as effect of disease on drug and drug-drug interaction on pharmacokinetic parameters, appropriate loading and maintenance dose calculation, dosing adjustment for linear and non-linear drugs, effect of altered serum protein binding and hemodialysis on drugs, interpretation of serum drug concentration and drug assay validity. Drugs in focus include; aminoglycosides, vancomycin, lithium, valproic acid, digoxin, theophylline, phenytoin, methotrexate and carbamazepine.

Fifth Year

First Semester

Clinical & Forensic Toxicology (PDPT0531):

Toxicology can be defined as that branch of science that deals with poisons, and a poison can be defined as any substance that causes a harmful effect when administered, either by accident or design, to a living organism. This course is dedicated, particularly to the how and why certain substances cause disruptions in biologic systems that result in toxic effects. The study of toxicology serves society in many ways, not only to protect humans and the environment from the deleterious

effects of toxicants but also to facilitate the development of more selective toxicants such as anticancer and other clinical drugs and pesticides.

Physical Assessment and First Aid (PDMD0541)

The course will teach the students a mixture of both practical and theory, how to examine a casualty and familiarize with basic life support. These provide the skills to overcome a potentially threatening situation long enough for medically trained individuals to arrive on scene.

Advanced Therapeutics-1 (PDPP0533):

This course offers therapeutic plan with the pathophysiologic approach for the common infectious diseases and neuropsychiatric disorders. Problem solving approach to resolve drug related problems for the above mentioned diseases/disorders at the bedside also included in this course.

Pharmacoepidemiology and Pharmacoeconomics (PDPP0561):

The pharmacoepidemiology and pharmacoeconomics course deals with the effects of the use of medication in populations and their quality of life. It introduces students to the evaluation of the studies that supports the rational use of drugs. The pharmacoeconomics course emphasizes factors affecting the origin, organization, delivery and financing of health care in a community and its relation to pharmacy practice. The course deals with the impact of socio-economic factors and pharmaceutical industry actions on drug prescribing and consumption. Drug cost minimization, effectiveness and utility are analyzed, pharmacoeconomic analysis and evidence-based medicine and using these data for making formulary decisions and set prices; and reference pricing in drug program management.

Advanced Pharmacy Practice Experience (PDPP0524):

The main purpose for this course is to allow students to apply knowledge and develop skills needed to optimize the pharmacist's professional scope of practice in providing effective patient care.

PharmD Research Project (PDRP0511):

Saudi Arabia requires a large number of highly qualified professionals in every area of scientific research. Scientific research contributes to the progress of Pharm D students, and helps them to develop the core skills for lifelong learning that are important at the beginning and throughout their careers as pharmacists.

Nutrition (PDPP0571):

This course is an introduction to human nutrition, with major emphasis on nutrients and their dietary sources, functions and relationships to health. The study includes the relationship of food and nutrition to health. The categories of nutrients, their characteristics, physiological functions, food sources and their interrelationship with the needs of the human body will be covered in this course. Topics will include the energy-containing nutrients, selected vitamins and minerals and weight management.

Fifth Year

Second Semester

Advanced Therapeutics- 2 (PDPP0534):

This course offers therapeutic plan with the pathophysiologic approach for the oncology and gynecology and urological disorders. Problem solving approach to resolve drug related problems for the above mentioned diseases/disorders at the bedside also included in this course.

Applied Drug information (PDPP0562):

This course provides the knowledge on various information resources and systematic approach to answer drug information queries and also emphasized the duties of poison information center.

Biostatistics (PDPT0541):

This course aims to explain the process of drug development and biostatistics to students with emphasis on new applications and software in this field.

Applied Nutrition (PDPP0572):

This course teaches the student how to deal with nutritional needs of human during different life stages and in specific diseases. It covers aspects about nutrition support that encounters both enteral and parenteral nutrition support for all age groups including neonatal, pediatric and adult patients. This includes nutrition support screening and assessment techniques, initiating a Total Parenteral Nutrition (TPN) therapy and performing all the required calculations. The course covers also how to nutritionally manages people with different diseases like diabetes, cancer, cardiac diseases, GI diseases and renal diseases.

Hospital Pharmacy (PDPP0563):

The course deals with the technical or functional and professional aspects of pharmacy practice. Topics include the Hospital Pharmacy and its Organization, Pharmacy and therapeutic committee & Hospital formulary, Stores purchase and control of inventory in a hospital, Drug dispensing and

Distribution system in hospital, Hospital Controlled Substances, Manufacturing of pharmaceutical preparations (Non-sterile and sterile), Good manufacturing practices (GMP) in the manufacturing units of hospital, Surgical instruments and other ancillary substance used in hospital, Radiopharmaceuticals used in hospital, Prepackaging in the Hospital, Clinical Pharmacy in Hospital, Professional relations and practices of hospital pharmacist, Educational activities in hospital pharmacy and library of pharmaceutical sciences in a hospital.

Pharmacy Administration and Marketing (PDPP0564):

The course put emphasis on administrative services and functions provided by the pharmacy department are included. Topics include purchasing, inventory control, marketing policies, and procedures. In addition, the student will learn management, principals including styles and function and fundamental elements of managements, such as planning, organizing, staffing, directing, coordinating and control. The course includes also the key concepts and issues underlying the modern practice of marketing.

Sixth Year

Clinical Clerkships

The sixth year of the faculty of pharmacy curriculum is the clinical clerkships yera. All required core curriculum courses in professional years, one through five, are prerequisite for the clinical clerkships program. The program is composed of eight core clinical clerkships, six weeks each taught by both preceptors of the training sites and adjunct faculty or preceptor of the school of pharmacy. Six clinical clerkships are obligatory and two are electives. Obligatory clerkships include: internal medicine, cardiology, critical care, infectious diseases, inpatient and outpatient pharmacy practice. Elective clerkships are rotations in different clinical and pharmacy practice settings and given two general names; pharmacotherapy clerkship and Pharmacy practice clerkship. Students will be under direct supervision of selected pharmacy preceptor on a one-to-one basis in each clerkship. Depending on the clerkship type, student will be evaluated on the basis of specifically designed rubric on the acquired general and clinical skills or tasks, formal presentations, professionalism, communication skills, drug therapy monitoring, patient counseling, case analysis and discussion, end, and attitude and behavior throughout the clerkship, A clerkship manual is available for objectives and learning outcomes concerning this clinical training.

Pharmaceutical Field Trainings

Pharmaceutical Field Tranning-1 (PDFT0311):

It is 4-week placement in community pharmacy training. It is a summer course. This course provides a comprehensive knowledge of different dosage form, prescription processing, medicines management and documentation in community pharmacy. It introduces the student to aspects about OVER the COUNTER therapeutics (OTC) such as; antacids, anti-diarrheas, hemorrhoids, analgesics, antipyretics/monitoring temperature/topical analgesics, cold, flu, allergy, otic disease, oral disorders, ophthalmic disease, contact lens care, contraception, nutritional products, infant formulas, dermatitis, diaper rash, sunscreen/sunburn, foot care, sleep, weight loss, smoking aids.

Pharmaceutical Field Training -2 (PDFT 0432)

It is a hospital pharmacy training that takes place after the fourth year of the program. It introduces the student to the basic role of hospital pharmacists in the healthcare system. The student will be trained to practice the prescription processing, monitoring prescription errors, compounding of non-sterile and IV preparations, drug information, documenting and ethics in pharmacy.

Pharmaceutical Field Training-3 (PDFT0513)

A hospital pharmacy training course. It introduces the student to the pharmacy management and advances in pharmacy practice. The student will be trained to practice in specialty pharmacy, nuclear pharmacy, pharmacy management, budget planning, purchasing, inventory control, patient counseling and medication order.

Elective Courses

Scientific writing and presentation (PDPC0403)

This course is designed to help students to write, present and publish biomedical papers in English. It provides a full outline of the preparation of manuscripts with regards to planning, style, structure and composition. The course tackles the three greatest obstacles a presenting scientist faces: fear, an over-technical text-heavy presentation, and a less-knowledgeable-than-expected audience.

Advanced drug delivery system (PDPH0402):

This course is aimed to provide students with detailed information about advanced drug delivery systems. These include mucoadhesive drug delivery systems, vesicular drug delivery systems (liposomes and niosomes) and nanoparticles (polymeric and metallic) and their applications in drug delivery.

Drug Dependence and abuse (PDPT0403):

This course provides an overview of the fundamental concepts in substance abuse. The contents of this course will help to introduce participants to terminologies used in substance abuse as well as their definitions. Participants will be provided with a comprehensive overview of the drugs of abuse that are most commonly used. It describes the problems associated with substance misuse explaining the transition from experimentation with drugs to dependence, identifying substance misuse as a chronic medical illness. It also describes the role that used in substance abuse treatment.

Community pharmacy management (PDPP0403):

The main purpose of this course is to help student pharmacists master pharmacy management skills for community pharmacy practice. Particular focus is given to financial management, services marketing, personnel management, managerial decision-making, and current topics/issues.

Advanced clinical skills (PDPP0503):

This course is to enable pharmacy students to acquire additional structured history-taking and necessary skills to perform, participate and interpret patient's assessments in acute and chronic disease conditions during clinical pharmacy practice.

Molecular drug design (PDPC0501):

The course provides information in various topics including: Introduction to the drug discovery/development , Approaches to new strategies of drug discovery,, targets of drug design, Prodrug design and applications, Computer-aided drug design and Combinatorial chemistry

Public health (PDNP0501):

To prepare pharmacy graduates to undertake their role in health promotion of the communities in which they serve

Forensic pharmacy (PDPT0501):

Forensic Pharmacy is that branch of pharmacy, which deals with various legislations pertaining to drugs and pharmaceuticals, and profession of pharmacy. This course provides an overview of the fundamental concepts dealing with the application of medical knowledge to establish facts in civil or criminal legal cases, such as an investigation into the cause and time of a suspicious death.

Applied pharmacokinetics (PDPP0501):

Clinical pharmacokinetics focuses primarily on the pharmacokinetic aspects of the individualized optimization of drug dosage - the application of pharmacokinetic data to the clinical use of drugs.

Experimental models of disease (PDPT0502):

This course will cover the basics of animal care, design criteria, statistics and data collection, as well as specific applications for using animals as models (e.g., cancer research, embryology, nutrition, exercise, aging). Applications of computer models and tissue culture will be included to provide an alternative to use of animals for some applications. The content will stress basic knowledge and the background for students to integrate their knowledge into the design and projected implementation of an animal model for research.

Good manufacturing practice (PDPH0501):

The course of Good Manufacturing Practice is designed to teach students the guidelines that provide a system of processes, procedures, and documentation to assure that the finished pharmaceutical product has the identity, strength, composition, quality, and purity that it is represented to possess. This course is an introduction to the principles of Good Manufacturing Practices (GMP). By the end of this course, students will understand the difference between quality assurance (QA) and quality control (QC) and the role of the QC department. Moreover, they will learn how to critically understand required industry regulations and how to apply them.

Ambulatory pharmaceutical care (PDPP0502):

This course is designed to facilitate student learning while conducting pharmaceutical care assessments in patients with actual drug-related needs in ambulatory clinics. This course will explore pharmaceutical care in community/ambulatory practice settings and provide emphasis and information on current topics affecting pharmacy practice. This course will also provide guidance and reinforcement of positive professional attitudes and commitment to pharmacy practice.

Radio-pharmaceuticals (PDPH0502):

The course was designed to provide pharmacy students with a basic background of nuclear pharmacy and nuclear medicine. The course aims at making the students familiar with basics of nuclear chemistry, fundamentals of operating a nuclear pharmacy and a broad overview of the most common clinical applications of nuclear medicine. The course focuses on personnel protection from radiation sources. It also focuses on the regulations and quality control procedures involved in nuclear pharmacy practice