
College Prospectus

This prospectus provides information to stakeholders and the community on the vision, mission, and values of the College of Medicine. The organizational structure and administration of the college, as well as, admission requirements, undergraduate and post graduate programs provided, departments and data on faculty are also given.



PROSPECTUS – 2016

College of Medicine

University of Dammam

Prepared by

Vice Deanship of Quality and Development

Table of Contents

	Item	Page
1	Historical Background	1
2	Vision, Mission, Values and Goals	2
3	Organizational Structure	3
4	College Committees	4
5	College Administration	5
6	Bachelor of Medicine and Bachelor of Surgery (MBBS) - New Curriculum	6
7	Admission Requirements	7
8	Internship Training Program	21
9	Revised Study Plan	22
10	Old Study Plan	24
11	Postgraduate Studies	26
12	Chairpersons of Departments	28
13	Pre-Medical Departments	29
14	Pre-Clinical Departments	33
15	Clinical Departments	44
16	Faculty Members	59

Historical Background

The College of Medicine and Medical Sciences, was established by Royal Decree No. H/67 dated 28/7/1375H (1975) in the Dammam campus of the King Faisal University in the Eastern Province of Saudi Arabia. On January 2010, it became a college of the newly established University of Dammam (UoD). It is located on King Faisal road, midway between Al-Khobar and Dammam, approximately 10 km from each.

The college admitted its first batch of undergraduate medical students in 1395H (1975) and the first batch of Nursing and Medical Laboratory Technology (MLT) students in 1409H (1988). The MLT Department was transferred to the newly established College of Applied Medical Sciences in the 1998 and the nursing department was transferred to the College of Nursing in 2002. In the same year, the name of the college was changed from College of Medicine and Medical Sciences to the present name, College of Medicine.

The College of Medicine pioneered postgraduate medical education in the Kingdom. Its postgraduate programs were the first to be recognized by the Arab Board of Medical Specializations and the Royal Colleges of Surgeons of Ireland.

Since its inception the College of Medicine has organized Continuing Professional Development Programs designed for all health professionals in the Eastern Province, and the Kingdom at large. The college participates in health education for the general public through campaigns and local and national information media.

VISION

To be a premier college in medical education, healthcare and ethical research

MISSION

The College of Medicine is dedicated to graduating physicians who are committed to Islamic and professional ethical practice. This will be achieved through the continuous development of the curriculum. The college is also committed to provide excellent healthcare and promote community health. In addition, the college will encourage the conduction of innovative basic, applied, clinical and community based research.

VALUES

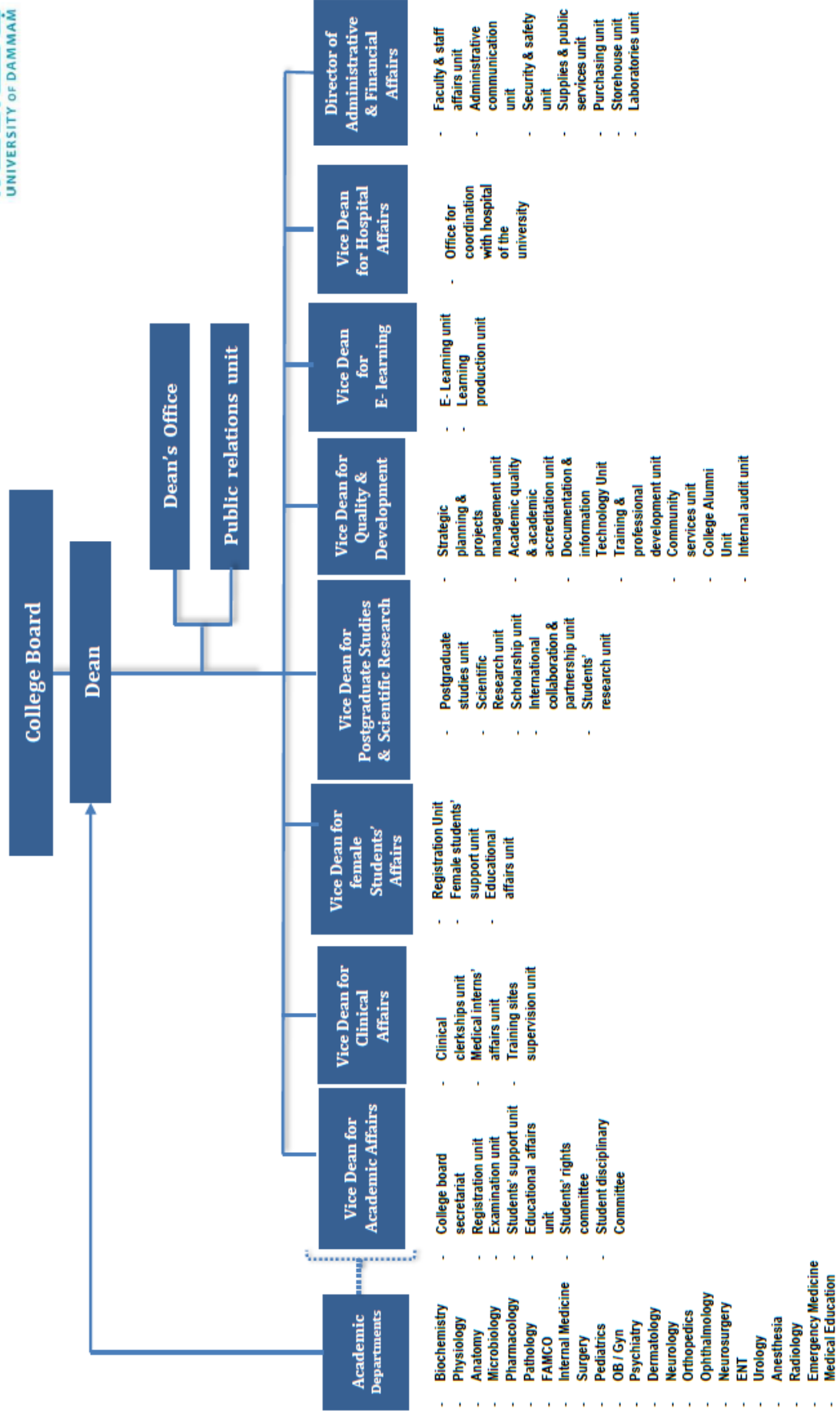
Excellence, Innovation, Honesty, Transparency, Accountability, Collaboration and Teamwork.

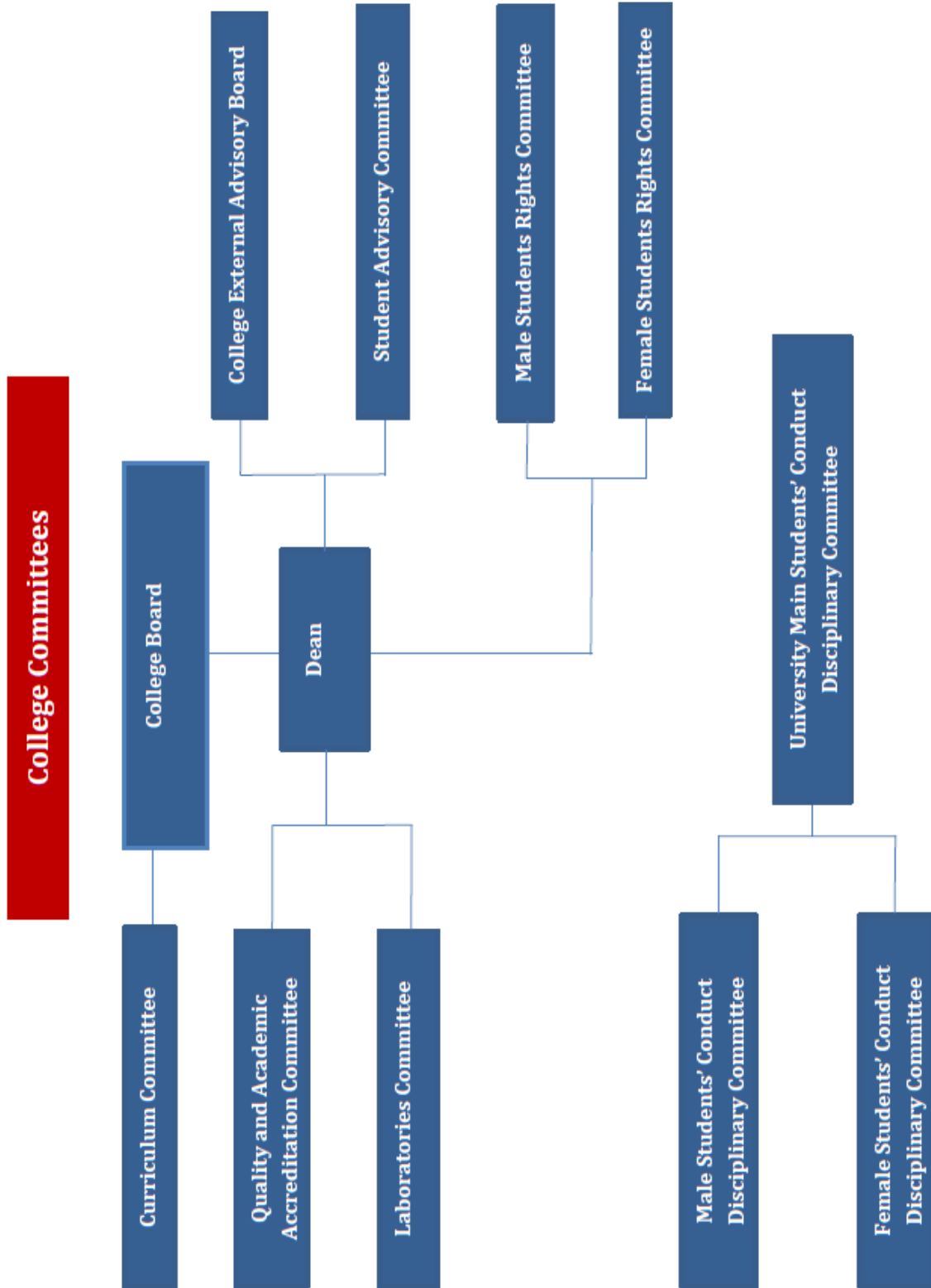
GOALS

The college is determined to:

- Promote the understanding and application of Islamic values and traditions in all aspects of medical practice.
- Enable undergraduate medical students to acquire the knowledge, skills and attitudes necessary to become competent professionals and, to develop lifelong habits of scholarship and service.
- Advance knowledge through research in all areas related to healthcare. These areas include but are not limited to the Basic Sciences, Clinical Sciences, Cultural and behavioral aspects of medicine, methods for the delivery of healthcare, and the medical education process.
- Provide postgraduate education to qualify practitioners and researchers, both through residency programs in clinical medicine and advanced degree programs in the Biomedical Sciences.
- Promote Continuing Professional Development to maintain and improve the competency of all professionals engaged in healthcare delivery.
- Provide exemplary primary, secondary and tertiary healthcare and other related community health services, in addition to teaching and research.
- Serve as a Medical Education Resource Center to related health professions and to the community and organizations involved in healthcare delivery.

Organizational Chart: College of Medicine





College Administration

Position	Name	Email	Phone #
Dean	Prof. Ali Ibrahim Al Sultan	cm-dean@uod.edu.sa	3331080
Vice Dean for Academic Affairs	Dr. Abdulaziz Mohammad Sebiany	cm-vdaa@uod.edu.sa	3331033
Vice Dean of Higher Studies	Prof. Mohamed Akram Hassan Motabagani	cm-vdhs@uod.edu.sa	3331030
Vice Dean for Clinical Affairs	Prof. Abdullah Khalaf Al Hwiesh	cm-vdca@uod.edu.sa	8594147
Vice Dean for Female Students' Affairs	Prof. Fatimah Abdulaziz Al Mulhim	cm-vdff@uod.edu.sa	3332961
Vice Dean for Hospital Affairs	Dr. Khalid Matar Al Otaibi	cm-vdha@uod.edu.sa	8567050
Vice Dean for Quality and Development	Dr. Mahdi Saeed Abumadini	cm-vdqd@uod.edu.sa	3331164
Vice Dean for E-learning	Dr. Abdullah Abdulsalam Yussuf	cm-vdel@uod.edu.sa	3331185
Director of Administrative and Financial Affairs	Mr. Abdulrahman Mohamed Al Hareqi	cm-adma@uod.edu.sa	3331156
Additional Supervision of students at Female campus			
Dean of Undergraduate Studies for Female Students	Prof. Dalal Mohammad Al Tamimi	dtamimi@uod.edu.sa	3332900

Bachelor of Medicine and Bachelor of Surgery (MBBS)

A revised curriculum was launched during the academic year 2014 – 2015.

Vision of MBBS program

To be the Kingdom's leading undergraduate medical education and training program recognized for its ability to graduate competent and high quality physicians in practicing healthcare and ethical research.

Mission of MBBS program

The mission of the MBBS program is to educate and motivate medical students to be life long and reflective learners, skillful and proficient physicians who will hold themselves to the highest professional standards in order to provide exemplary medical care and conduct innovative scientific research.

Core principles of MBBS program

The Program is committed to excellence in the following core principles:

- Professionalism and Ethics
- Continuous Quality Improvement
- Collaboration and Partnerships
- Scholarship and Innovation
- Integration
- Social Responsibility and Accountability

ADMISSION REQUIREMENTS

To join the MBBS Program, an applicant must:

- Be a Saudi citizen, with limited seats for citizens of the Gulf Countries
- Fulfill UoD admission requirements
- Hold a Saudi High School Certificate Science Section (or its equivalent), with general and science grade point averages as specified and announced annually by the College Board.
- Pass General Aptitude Test
- Pass Standard Achievement Admission Test
- Pass a physical fitness assessment as specified by the College of Medicine.
- Obtain a grade of 80% or higher in five courses (Biology, Chemistry, Physics, English 101 and English 102) of the preparatory year. Students with the highest GPA will be accepted according to the quota approved by the College Board each year.
- Preference for admission is given to applicants who have obtained their high school certificates in the same academic year.

PROGRAM OUTCOMES

Successful graduates of this program are expected to:

- Demonstrate understanding and application of Islamic ethics and values in all aspects of the medical curriculum.
- Be knowledgeable, skilled, reflective, critical thinker and compassionate.
- Be innovative in their approach to, and solution of problems.
- Be skilled at accessing, appraising and applying the best available evidence to their everyday practice.
- Demonstrate awareness of the social, ethical, economic and environmental context of health and illness and psychological wellbeing, and delivery of care.
- Be committed to the health of populations as well as individuals.
- Be concerned with issues of equity, quality and humanity in healthcare and who advocate for the disadvantaged and dispossessed.
- Maintain high standards throughout their professional life with a commitment to lifelong learning and teaching.
- Have the skill to address the key questions relevant to the community and to medicine.
- Be capable of leadership and are comfortable working as a team member.
- Uphold the community's trust and expectations of the role of a doctor.
- Be an advocate for health by practicing preventive medicine and health promotion.
- Recognize the essential role of research in underpinning medical practice.
- Provide exemplary primary, secondary and tertiary healthcare and other related community health services.

OVERVIEW OF MBBS PROGRAM

The College of Medicine at the University of Dammam is committed to delivering an outstanding undergraduate education program that ensures continuing development from undergraduate to internship and postgraduate education.

The MBBS curriculum is a six-year undergraduate degree. It is an interdisciplinary program, integrating biomedical sciences and clinical skills training. The course is thematic and places emphasis on clinical communication skills, with clinical contact visits to medical practices, community care facilities and hospitals commencing in the first year. Students are also required to be trained in community health centers and sites as part of a healthcare team.

The learning environment is structured to allow optimal flexibility and choice in time, place and style of learning. While the primary integrating modality of the curriculum is problem-based learning, this is undertaken in a range of different modalities including tutor-facilitated sessions, student presentations and small group learning supported by appropriate clinical interaction.

The course delivery provides wide experience in both hospital-based and community-based contexts. The curriculum promotes a culture that recognizes service, teamwork, scientific inquiry and lifelong learning as essential elements in the effective practice of medicine.

Assessment is constructive and designed to recognize the development of key attributes and qualities rather than to reward short-term superficial learning.

The curriculum is designed as a thematic integrated program incorporating four themes, within which semester-long units are incorporated from a range of disciplines across the college, in an interdisciplinary fashion.

During the early years of the program, the basic medical and behavioral sciences (anatomy, biochemistry, genetics, immunology, microbiology, pathology, pharmacology, physiology, psychology and sociology) are introduced within interdisciplinary units. In all of these units, the major focus on clinical issues is through case studies.

In the third year, the students also participate in community based program placements where they spend time working in different community settings. During the fourth year, the students study integrated medicine and surgery, together with a series of problem-based and case-based learning sessions in clinical settings. The fifth year is largely taken up with core clinical rotations in women's and children's health, family medicine and psychological medicine. The sixth year of the course has been structured as a series of selective and one elective rotation, where students have the opportunity to complete their degree by gaining wider experience in choosing disciplines and specific areas of interest through a range of urban, rural and overseas settings.

MBBS PROGRAM STRUCTURE

The MBBS curriculum consists of one preparatory year required for all health specialties students: (32 credit units) followed by 5 academic years and one Internship advanced practice experience divided into 8 clinical rotations.

MBBS CURRICULUM PHASES:

- Phase 1 - Preparatory Year (PY): Year 1
- Phase 2 – Foundations of Medicine (FM): Years 2 & 3
- Phase 3 – Clinical Practice (CP): Years 4 & 5
- Phase 4 – Advanced Clinical Experiences (ACE): Year 6
- Phase 5 – Internship Training Program (ITP): Year 7

The program follows a yearly system with different rotations in the clinical practice and advanced clinical experience phases, with the following components (236 credit units):

1. **University required courses:** 36 credit units
 - a) Preparatory year: 28 credit units
 - b) Islamic Culture courses: (8 credit units) 4 courses: 2 in the preparatory year and 2 in the second year.
2. **College required courses:** (200 credit units) expand for 5 years

MBBS PROGRAM STRUCTURE (overarching schema)

Year 1: Preparatory Year

Year 2: Foundations of Medicine I: Introduction to Basics and Systems

Year 3: Foundations of Medicine II: Body Systems

Year 4: Practice of Clinical Medicine I: Integrated Medicine, Surgery and Pathophysiology

Year 5: Practice of Clinical Medicine II: Women's and Children's Health, Family Medicine and Psychiatry

Year 6: Advanced Clinical Experiences: medicine, surgery, aged care, emergency medicine, specialty and elective

Years Two and Three:

On the weekend prior to the commencement of the program, students will attend a compulsory residential transition program, designed to focus on the transition to university life, personal ethics, healthy lifestyle, group support and an introduction to communication skills.

Throughout the first two years, blocks of systems-based sub-units will be presented with a mix of basic medical science content, patient-based presentations and discussions in small groups. These sub-units combine basic content with generic skills and are set in appropriate clinical contexts, largely through the use of patient-oriented learning. Topics include:

Molecules, Cells & Tissues	Human Health & Behavior	Gastrointestinal
Metabolism	Mental State	Respiratory
Immunology	Nutrition	Renal
Infection	Genomics	Urinary
Human Development & Growth	Hematological	Musculoskeletal
Molecules, Cells & Tissues	Cardiovascular	Neurology
Neurosciences	Head & Neck	Pharmacology
Peripheral Nervous System	Reproduction	
Endocrinology	Pathology	

Years Four and Five:

In the fourth and fifth years, the clinical content is delivered in blocks of clinical rotations, with a mix of advanced and applied medical science, patient-oriented presentations, and discussions in small tutorial groups. A diversity of clinical settings is used, including a range of hospitals, ambulatory clinics and the rural environment. The emphasis will be on students gaining real clinical experience, participating in patient care and understanding how healthcare teams work. During the fourth year, students will study “integrated medicine and surgery” which will be taught together with a series of problem-based and core-based learning sessions. The fifth year will be largely taken up with the core clinical rotations of “women's and children's health” and “family medicine and psychiatry”.

Year Six:

The sixth year course "Advanced Clinical Experiences" is focused on facilitating the transition of students into the medical workplace as trainee interns and will be structured as a series of clinical rotations. Students choose from a range of placements offered by the college. Students will participate in a range of learning experiences designed to substantially enhance their clinical reasoning, diagnostic and case management skills.

Students will consolidate and enhance their knowledge, clinical skills and professional behaviors in five clinically orientated rotations:

- Aged Care
- Emergency Medicine
- Medical
- Surgical
- Specialty

In addition, students will undertake a student elective rotation in a clinical area of personal interest, subject to college approval.

CURRICULUM MAP

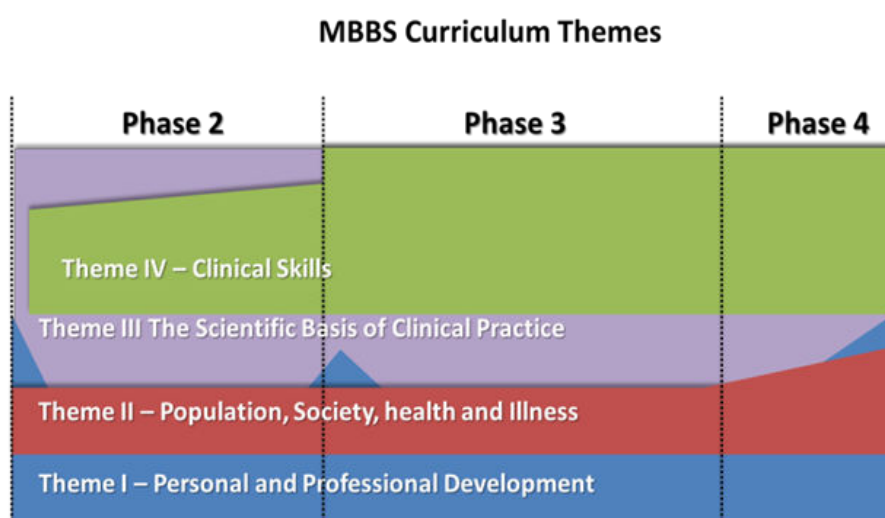
Phase 1		Phase 2		Phase 3		Phase 4		Phase 5					
YEAR 1		YEAR 2		YEAR 3		YEAR 4		YEAR 5		YEAR 6		YEAR 7	
Preparatory Year		Anatomy Biochemistry Ethics & Law Health K. & Society Health Enhancement Program		Anatomy Biochemistry Ethics & Law Medicine of the Mind Microbiology Pharmacology Physiology Immunology Pathology Clinical Skills Field Exercise Health Promotion Knowledge Management Student Project Cases		Foundations of Clinical Medicine		Integration and Teams in Primary Care		Preparing for Supervised practice		Internship	
Course	Chr. Hrs	Medicine of the Mind		Medicine & Medical Specialties		Family Medicine		Medicine		Surgery		Medicine: 2 Ms Surgery: 2 Ms Pediatrics: 2 Ms Obs/Gyn: 2 Ms Electives: 2 Ms Family Medicine: 1M Emergency Med: 1 M	
English Language	10	Microbiology		Surgery & Surgical Specialties		Psychiatry		Aged Care		Emergency			
Biology	5	Pharmacology				Children's health		Selective					
Chemistry	3	Immunology				Women's health		Elective					
Physics	3	Pathology											
Computer Skills	2	Clinical Skills											
Communication Skills	2	Comp. Health Care											
An Introduction to the Islamic Culture Learning & Searching Skills	2	Population Health											
Faith and Ethics	2	Theme I		Personal and Professional Development									
Health Physical Education	1	Theme II		Society, Population, Health and Illness									
		Theme III		Scientific Basis of Clinical Practice									
		Theme IV		Clinical Skills									
Campus-based		Campus-based	Campus-based	Campus-based	Hospital-based	Practice-based	Hospital-based	Hospital-based					Hospital-based
Credit Units: 32		Credit Units: 44	Credit Units: 40	Credit Units: 40	Credit Units: 40	Credit Units: 40	Credit Units: 40	Credit Units: 40					12 Months
MBBS Courses		MED 201 Foundations of Medicine I	MED 301 Foundations of Medicine II	MED 401 Practice of Clinical Medicine I	MED 501 Practice of Clinical Medicine II	MED 601 Advanced Clinical Experiences							MBBS Total: 236 Credit Units

MBBS

Theme-based approach:

The structure of the MBBS curriculum is thematic with teaching and learning within a matrix of four themes across the five years of the curriculum. These four themes are:

- Theme I – Personal and Professional Development.
- Theme II – Population, Society, Health and Illness.
- Theme III – The Scientific Basis of Clinical Practice.
- Theme IV – Clinical Skills.



Throughout the five years of core medical curriculum the balance of these themes varies and is often integrated in terms of teaching and assessment to reflect the changing development and skill level of students as they progress through the program. While the themes have a primary role in defining the learning objectives of the curriculum, the students' learning experiences are based on the delivery of an integrated curriculum with integrated assessment.

Horizontal and vertical integration characterize the curriculum, and the content for each theme is designed to complement other materials delivered each week (horizontal integration) and build on material that has already been presented in previous semesters (vertical integration).

Each semester-length course of the curriculum is an integrated entity, valued at 20 credit units (this is modified in Years 4-6). Learning objectives and assessment activity reflect this integrated feature, with the outcome that there are no traditional “standalone” exams in any particular subject (e.g. anatomy). The four themes will run through all years of the program, but will not be of equal weight; nor will they be of constant weight throughout the course.

Indicative Program Structure and Schedule Year

Year	Structure
2	Theme I: Basic Law and Ethics, Health Enhancement Theme II: Health Knowledge & Society, Epidemiology Theme III: Cell Biology, Pathological processes, Musculoskeletal, Peripheral nervous and Cardiovascular Systems, Human health and behavior, Pharmacology Theme IV: Introduction to Communication and Clinical Skills
3	Theme I: Community Based Partnerships Theme II: Health Promotion, Knowledge Management Theme III: Respiratory, Renal and urinary, Hematological, Endocrine, Gastrointestinal and Reproductive systems, Nutrition, Neurology and mental state, Head & Neck, Pathology & Pharmacology Theme IV: Clinical Skills of Systems
4	General medicine and surgery Pathophysiology Evidence-based Clinical Practice Clinical Clerkship including 41 PBL cases (24 common “patient-based” & 17 seminar based)
5	Family Medicine and Psychiatry; Women's and Children's Health Evidence-based Medicine, Health Services Management, Health Economics Law and Ethics
6	Student pre-internship Rotations in medicine, surgery, aged care, emergency medicine, specialty and elective Specific modules for completion in each six-week rotation Specialty rotation from any faculty offering; Elective rotation is of the student's choosing.

THEMES AND STRUCTURE

Theme I: Personal and professional development

Personal and professional development will focus on the doctor as an individual. This theme concentrates on the personal attributes and qualities needed by medical students and, ultimately, medical practitioners. It covers elements of health enhancement, professional responsibilities, communication skills, information technology, medical informatics and computing skills, ethics and legal issues, and clinical effectiveness.

Overall structure of Theme I: Personal and professional development

Details	Year 2	Year 3	Year 4	Year 5	Year 6
Professional issues	Intro to Ethics: Ethics and society. Relationships and ethics. Intro to Law: Basis of justice. Justice system. Human rights.	Understanding community: Society and community. Roles of Doctor in Community. “Grass-roots” healthcare. Empowerment.	Ethics in practice: Clinical research ethics. Law in practice: Legal responsibilities. Reporting records.	Professional judgment: Analysis of consequences of decisions. Dealing with uncertainty. Team participation. Teaching.	Leadership: Independent learning. Leadership and supervision. Responsibility of patient management.
Personal development	Transition to university: Study skills. Time management. Stress Management. Reflection. Self-care. Team building. Goal setting.	Attitudes to community: Patient-centered approach. Pain and suffering. Teamwork in community groups.	Responsibility: Patient advocacy. Family and society. Self-care and assertiveness. Educating others.	Reflective practice: Personal roles and role conflicts. Stress management and coping styles. Career choice.	Self-directed learning and practice: Patient-centered care. Personal learning contract. Electives. Remedial selectives. Self-assessment.
Key learning experiences	Observation of interactions: Medical contact visits. Ethics debates. Family study. Group debriefing and mentoring	Community service: Ethics debates. Group debriefing and mentoring.	Clinical rotations: Group debriefing and mentoring. Clerking patients. Self-appraisal.	Teamwork: Group debriefing and mentoring. Simulation with feedback. Teaching Year 1 in skills lab.	Leadership and independent learning: Group debriefing and mentoring. Clerking patients. Self-appraisal.

Theme II Society, population, health and illness:

Population, society, health and illness' provide the structure to develop students' abilities to deal with broader society and population issues, as compared with issues concerning the individual. Students will consider the social, environmental and behavioral contexts of illness and the practice of medicine, including an emphasis on primary healthcare. Other elements of this theme will be built around health promotion, epidemiology, public health, community diversity, population and global health, and a range of other societal issues. The history and philosophy of the scientific approach to medicine will also be included, extending this to approaches to knowledge and information, and an understanding of evidence-based medicine.

Overall structure of Theme II: Population, Society, Health and Illness

Details	Year 2	Year 3	Year 4	Year 5	Year 6
Health and Society	The whole person. Gender. Consumer movement.	Inequalities in health. Indigenous health.	Healthcare services. Health policy.	Healthcare services. Health policy.	Public health elective.
Health & Information	Epistemology: Concepts of science and knowledge. Critical thinking. Basic IT skills.	Exploring databases and information sources.	Quality and evaluation of healthcare information.	Health economics. Evidence-based medicine.	Medical informatics in practice.
Health & Population	Population health. Introduction to research methods.	Health promotion. Global view of health.	Preventive medicine. Occupational health.	Health promotion & disease prevention	Public health electives.

Theme III Scientific basis of clinical practice

"Scientific basis of clinical practice" includes much of the human systems-based teaching in the course. The knowledge and concepts that underpin medicine, both in the basic medical sciences and in the clinical sciences, will be delivered within this theme. In the early semesters, the basic sciences of anatomy, biochemistry, genetics, microbiology, pathology, pharmacology, physiology and psychology of each system will be taught in an integrated manner and from a relevant clinical perspective.

Overall structure of Theme III: Scientific Basis of Clinical Practice

Year 2	Year 3	Year 4	Year 5	Year 6
Molecular and cellular defense. Integration and movement.	Cardiovascular, respiratory, renal and hematology. Hormones, sex growth and nutrition.	Multi-system disease. Integrated medicine and surgery.	Women and children's health. Family medicine and psychological health.	Student Internship. Selectives. Electives.

Theme IV Clinical skills

The "Clinical skills" theme encompasses the whole range of clinical skills, from the earliest to the later parts of the course. Practice in clinical skills (including procedural skills) is stressed early and often. The approach in clinical skills development will be to develop defined clinical competencies. This will begin with clinical aspects of communication skills and move through history taking and physical examinations to the more advanced clinical and procedural skills. Communication skills are considered as one of the core clinical skills for a professional medical practitioner. As such, it is taught early in Year 1 and goes through into Years 2 and 3 using role-plays, video-taping feedback sessions and simulated patients.

In the early years of the program, this theme will include family medicine and primary healthcare visits, and an introduction to community clinics and hospitals. Multi-professional education will be promoted through educational interactions with nurses, paramedics, radiographers and other healthcare professionals. The primary healthcare activities in the early years of the program will provide opportunities for our students to become familiar with the Saudi healthcare system and interact with a range of healthcare professionals. The students are exposed to the benefits and advantages of different levels of the healthcare system from a personal as well as from a professional point-of-view. This has been a highlight in students' learning experience as with early exposure to clinical sites and health-care personnel; it gives students a clear context of the importance of what they are learning.

The later years will include advanced elective experience in diverse medical workplaces, both within and outside the hospital environment. All students gain experience in a wide range of areas including: accident and emergency medicine; anesthesia; clinical pharmacology and therapeutics; infectious diseases; forensic medicine; occupational and industrial health; palliative care, rehabilitation medicine

and research project.

Overall structure of Theme IV: Clinical Skills

Year 2	Year 3	Year 4	Year 5	Year 6
Community visits. First Aid course including CPR. Clinical skills laboratory. Clinical and communication skills.	Clinical and communication skills linked with systems teaching. Rural rotations. Clinical skills laboratory. Teamwork experiences.	Medicine and Surgery.	Skills in Clinical rotations. Women's and children's health. Psychiatry and family medicine. Medical teamwork experiences.	Patient's safety module. Student internship. Rural rotations. Teamwork. Leadership.

Teaching Sites:

Years 2 and 3 of the program are taught at the University of Dammam male and female campuses located in Al-Raka, Dammam. Years 4 to 6 of the program are taught in the King Fahd Hospital of the University, other local hospitals and primary healthcare centers.

LEARNING STRATEGIES

1. Integration

The curriculum emphasizes the inter-connections between different fields of knowledge. Essential elements of basic science and clinical practice are learnt through an integrated approach. The MBBS program has been integrated both horizontally and vertically. What this means is that the content of lectures, tutorials and rotations is designed and delivered in a way that facilitates students learning and ability to make links between subject areas and themes (horizontal integration). In addition, students revisit topics repeatedly during the program, building on their knowledge and other skills with each integration (vertical integration).

In addition, the thematic organization of the curriculum allows a maximum degree of horizontal integration across the themes and vertical spiral integration within the themes. Spiral integration augments understanding: as knowledge accumulates, material covered in earlier weeks is reinforced, allowing students to revisit and progressively build on their skills. The curriculum is organized into integrated learning weeks, anchored by case based learning and problem based learning tutorials and typically includes lectures, tutorials, practical's, anatomy sessions and

self-directed study.

2. Problem Based Learning (PBL)

A key integrating feature of the Years 2 and 3 is the Problem Based Learning (PBL). The PBL provides a context for the program objectives and content, creating for students an awareness of the relevance to medicine and medical practice of the curriculum and its components. It integrates all the different subjects that are taught during that week including clinical skills, practical and tutorial sessions, to enable an understanding of the clinical application as well as being able to recognize the psycho-social aspects of illness and health. Consequently, students learn to view and understand patients in an integrated and holistic manner right from the first week of their learning.

In PBL, students have to identify their own learning objectives as opposed to these being provided. The majority of the PBLs are based on real patients. All PBL cases are similar to those being used at Monash University, Australia, except that they have been contextualized to the Saudi setting while retaining the same learning objectives. Small group learning is the method of teaching so that individual attention can be given while at the same time group and collaborative work habits are encouraged.

Each of the case scenarios features a health related problem that will require the student to work with a small group of approximately fourteen peers to identify key social, cultural, legal, ethical, and clinical and community aspects impacting on the case. These cases act as a key integration exercise for all the weekly learning.

3. Community Based Learning

The Community Based Practice Program (CBP) is an integral and innovative component of the MBBS program for third-year medical students in which students will be community oriented through primary healthcare centers. CBP provides a meaningful context for future medical practitioners to gain an understanding of issues that relate to social justice, equity and diversity in the wider community. Students complete a community based placement, attend orientation and integration lectures, and complete a report so that they understand the context and links between health and illness, medicine and social system.

A wide variety of community based teaching is employed to complement the activities that take place in hospitals; these include but are not limited to the educational experiences in family medicine centers, maternal and child health services, rehabilitation centers and other health services.

4. Patient-centered Learning Activities

A patient-centered learning model will be used, where the knowledge, skills and attitudes that form the content of the curriculum are brought to life via formal patient-centered teaching exercises. Most of the learning activities are designed to support students as they work with patient-centered scenarios.

5. Active, student-centered learning

Students are encouraged to be active in managing their own learning and to question both what and how they learn through problem based learning, seminars, and small-group tutorials. These tutorials foster the development of skills in interpersonal communication and teamwork and help train students to become lifelong learners.

6. Early clinical exposure

Medical students are introduced early in the program to clinical skills, and are exposed to simulated and real patient contact early in the curriculum starting in the first two years, after the preparatory year, emphasizing the relevance and application of knowledge learned from the Basic Medical Sciences domains. These early clinical experiences relate closely to theoretical teaching. Students develop clinical skills in a purpose-built Clinical Skills Lab to achieve early and effective training.

7. Core and options approach

Elective and selective modules are offered in the sixth year which allows students to choose and explore specific areas of interest or experience in either medical or non-medical fields. At the same time, students learn a core of materials, providing essential medical knowledge, skills and attitude taught during the MBBS program.

8. Relevance to future practice

Medical education and medical sciences are rapidly changing. The curriculum is built to assure that medical students are well equipped with the skills they need to practice effectively in a changing healthcare and learning environment. This includes such skills as the ability to work in teams and understand the healthcare system, practicing in a patient-centered manner, and developing the ability to be a lifelong learner who can evaluate and integrate new knowledge and skills throughout one's professional life.

TEACHING and LEARNING METHODS

A wide variety of teaching methods are used in order to accommodate the large numbers of students whilst providing an opportunity to deliver and discuss content. The varied approaches to teaching allow for self-directed learning to be fostered as well as allowing for students to experience the practical side required in the MBBS program. Listed below is an outline of the different approaches to teaching that students will come into contact with.

1. Interactive lectures
2. Tutorials
3. Practicals
4. Laboratory
5. Simulation
6. Electronic learning
7. Seminars
8. Panel discussion and debate
9. self-directed learning
10. Peer learning
11. Field and site visits

ASSESSMENT SYSTEM

Assessment of students measures relevant knowledge, skills, values and attitudes in sufficient detail to give an adequate picture of the student's strengths and weaknesses in regards to the stated educational objectives of the MBBS courses. There is formative (ongoing with feedback), suitable assignments and summative (final) evaluation of student progress.

Assessment Tools:

- a) **Formative assessment**
- b) **Continuous assessment** of participation in the PBL sessions, seminars, laboratory and clinical skills
- c) **Summative assessment:**
 - Multiple Choice Questions (MCQs): A-type questions: one best answer
 - Extended Matching Questions (EMQs): R-type
 - Short Answer Questions (SAQs)
 - Objective Structured Clinical Exam (OSCE)
 - Objective Structured Practical Exam (OSPE)
 - Portfolio
 - Workplace Based Assessment (WPBA)

- Research projects

d) **Assignments:**

- Formative Exam Practice - online
- Reflective Journal
- Case Commentary Assignment
- Evaluating Popular Information Assignment
- Human Life Span Development (HLSD)

INTERNSHIP TRAINING PROGRAM

The program has been governed by approved Rules and Regulations of the College of Medicine and is supervised by the Vice Dean for Clinical Affairs. Satisfactory completion of one year training is mandatory for the award of the degree of MBBS by the university. The Internship Training Program prepares the interns to perform their professional duties and responsibilities with confidence prior to their becoming registered doctors, and, enables them to develop proper medical attitudes and ethics in accordance with the tenets of Islam. This rotational year is spent as follows:

Discipline	Duration in Months
1. Surgery	2
2. Internal Medicine	2
3. Pediatrics	2
4. Obstetrics and Gynecology	2
5. Family Medicine	1
5. Emergency Medicine	1
6. Elective (to be chosen from a number of specialties)	2

AWARD OF MBBS DEGREE

The UoD awards the degree of MBBS (Bachelor of Medicine, Bachelor of Surgery) after successful completion of all courses and the internship training program.

REVISED STUDY PLAN

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	College / Deanship
First Year: Preparatory Year	ISLM-151	An Introduction to the Islamic Culture	University Requirement	Acceptance to health sciences program	2	Deanship of Preparatory Year and Supporting Studies
	ISLM-152	Faith and Ethics			2	
	LRSK-142	Communication Skills			2	
	COMP-131	Computer Skills			2	
	LRSK-141	Learning and Searching Skills			2	
	PHEDU-152	Health & Physical Education			1	
	ENGL-101	English Language			10	
	BIOL-101	Biology			5	
	CHEM-101	Chemistry			3	
	PHYS-101	Physics			3	
	Total Credit Hours					32

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	College / Deanship
Second Year	MED 201	Foundations of Medicine I	College Requirement	Acceptance to College of Medicine program	40	College of Medicine
	ISLM-273	The Economic System of Islam	University Requirement	Acceptance to College of Medicine program	2	Deanship of Preparatory Year and Supporting Studies
	ISLM-274	Political and social system of Islam	University Requirement	Acceptance to College of Medicine program	2	Deanship of Preparatory Year and Supporting Studies
Third Year	MED 301	Foundations of Medicine II	College Requirement	Second year Courses	40	College of Medicine
Fourth Year	MED 401	Practice of Clinical Medicine I	College Requirement	Third year Courses	40	College of Medicine
Fifth Year	MED 501	Practice of Clinical Medicine II	College Requirement	Fourth year Courses	40	College of Medicine
Sixth Year	MED 601	Advanced Clinical Experiences	College Requirement	Fifth year Courses	40	College of Medicine
Total Credit Units: 236						

CURRENT STUDY PLAN

Level	Course Title	Code	Units
I	General English	1203-101	6
	Biology	0401-133	8
	Chemistry	0403-131	6
	Physics	0402-132	6
	Physical Education	1212-131	1
	Islamic Culture I*	0201-101	2
	Islamic Culture I**	0201-251	2
	Introduction to Computers	0407-134	1
Total			32
II	Medical Terminology	1203-201	2
	Islamic Culture III*	0201-351	2
	Islamic Culture IV**	0201-404	2
	Intr. Compreh. Health I	0407-204	2
	Biochemistry	0406-206	8
	Embryology	0404-205	2
	Gross Anatomy	0404-202	8
	Histology	0404-207	4
	Physiology	0410-203	8
Total			38
III	Parasitology	0405-311	2
	Microbiology	0405-331	6
	Immunology	0405-321	3
	Pathology I	0409-332	6
	Neuroscience	0423-333	6
	Basic Pharmacology	0408-337	3
	Behavioral Sciences**	0419-335	2
	Intr. Compreh. Health II	0407-336	3
Total			31

* First Semester ** Second Semester

Level	Course Title	Code	Units
IV First Semester	Pathology II	0409-401	6
	Primary Healthcare	0407-402	6
	Medical Genetics	0406-403	2
	Bio-Medical Ethics In Islam	0407-405	1
	Basic Clinical Skills	0431-406	3
	Systemic Pharmacology	0408-408	3
	Total		21
IV Second Semester	Internal Medicine I	0416-451	6
	Surgery I	0417-452	6
	Integrated. Health Science	0430-453	6
	Forensic Medicine	0409-455	1
	Total		19
V Surgical Group	Surgical Specialties	0433-502	6
	ENT	0412-505	3
	Ophthalmology	0415-507	3
	Clinical Pharmacology	0408-509	3
	Anesthesia	0424-503	1
	Radiology	0422-511	1
	Emergency Medicine	0432-512	1
	Total		18
V Medical Group	Internal Medicine II	0416-501	6
	Dermatology	0411-504	3
	Neurology	0413-506	3
	Psychiatry	0419-508	6
	Total		18
VI Year	Internal Medicine III	0416-601	9
	Surgery II	0417-602	9
	Obstetrics/Gynecology	0414-603	9
	Paediatrics	0418-604	9
	Total		36
Grand Total = 213 credits			

POSTGRADUATE STUDIES

The College of Medicine has pioneered postgraduate Medical Education in the Kingdom. Currently, the college has 17 residency programs leading to Saudi Commission for Health Specialties Board Certification, and seven UoD Fellowships. The college offers four programs for MSc degree and one for PhD degree in pre-clinical disciplines.

Objectives:

1. Establish well-structured and accredited training programs to qualify, highly skilled and knowledgeable specialists in different clinical disciplines.
2. Establish postgraduate programs in biomedical sciences towards the MSc and PhD degrees.
3. Ensure that graduates are well acquainted with modern research technology methods in both basic, translational and clinical medical research.

Admission Requirements:

Applicant must provide evidence for the following:

1. MBBS degree, from UoD or a university recognized by UoD.
2. Completion of the Internship training from UoD or an institution recognized by UoD.
3. Medical fitness.
4. Good conduct
5. Medical registration or valid document from employer testifying good standing.
6. Two letters of recommendation from faculty/ consultants with whom he/she worked previously.
7. Letter of consent to join the program from the employer.

The applicant must pass both an admission test and personal interview.

Applicants seeking admission to the Masters' degree program must have an overall grade point average of not less than B (Very Good) in a Bachelor degree.

To be eligible for admission to the PhD program, applicants must have obtained a Masters' degree.

Residency Program	Duration (years)	Date of Approval
FAMCO	4	1985
Ophthalmology + UoD Fellowship	4	1985
ENT	5	1987
Pediatrics	4	1987
Anatomic pathology UoD Fellowship	5	1987
Clinical Pathology	4	1987
Dermatology	4	1987
Internal Medicine	4	1987
Neurosurgery + UoD Fellowship	5.5	1989
Radiology + UoD Fellowship	4	1990
Surgery	5.5	1990
Hematology UoD Fellowship	5	2007
Clinical Microbiology UoD Fellowship	5	2007
Neurology + UoD Fellowship	4	1990
Psychiatry	4	1990
Obstetrics and Gynecology	5	1991
Anesthesiology	4	1992
Program	Duration (years)	Date of Approval
MSc		
Physiology	2	1990
Human Morphology	2	1999
Occupational Medicine	2	2000
Clinical Psychology	2	2010
PhD		
Physiology	4	1990

Chairpersons of Departments

Department	Chairperson
Pre-Clinical Departments	
Anatomy	Dr. Mohamed Akram Motabagani
Biochemistry	Dr. Amein Al Ali
Family and Community Medicine	Dr. Sameeh Mohammad Al Almaie
Microbiology	Dr. Huda A. Abdelkareem Bukharie
Pathology	Dr. Dalal Mohammad Al Tamimi
Pharmacology	Dr. Mastour Safr Al Ghamdi
Physiology	Dr. Abdullah Bamosa
Clinical Departments	
Anesthesia	Dr. Abdulmohsen A. Al Ghamdi
Dermatology	Dr. Saleh Hamad Al Jabre
ENT	Dr. Nasser Ali Al Jizan
Emergency Medicine	Dr. Mohye Hadi Alwahhas
Internal Medicine	Dr. Waleed Ibrahim Al Bakar
Neurology	Dr. Fahad Ali Al Kamis
Neurosurgery	Dr. Abdulrahman Hmoud Al Anazi
Obstetrics & Gynecology	Dr. Haifa Abdulaziz Al Turki
Ophthalmology	Dr. Khalid Mohd Al Arfaj
Orthopedics	Dr. Dalal Abduwahab Bubshait
Pediatrics	Dr. Mohammad Hussain Al Qahtani
Psychiatry	Dr. Mahdi Saeed Abumadini
Radiology	Dr. Bander Fuhaid Al Dhafery
Surgery	Dr. Yasser Mahir Al Jehani
Urology	Dr. Khalid Matar Al Otaibi
Medical Education	DR. Mona Hamuod Al Shaikh

Pre - Medical Departments

PRE-MEDICAL DEPARTMENTS

1. Biology
2. Chemistry
3. Physics

These have been attached to the college of medicine since its foundation until 2015 when transferred to the deanship of the preparatory year.

BIOLOGY DEPARTMENT

The department of Biology is one of the academic pre-medical departments of the College of Medicine; it started functioning in 1975. The Departmental Faculty are specialized in different fields of Biology, and they are assisted by qualified technicians. The knowledge obtained in this department, will provide students with a sound foundation for preclinical subjects.

Mission:

To enable the students to acquire sound foundations in Biological concepts.

Course:

Course Title	Code	Units
BIOL-101	BIOL-101	5

Biology (BIOL-101)

The course covers the characteristics of living and non-living cellular constituents, cell division and tissue formation, human embryogenesis, the contribution of all body systems to homeostatic control and an introduction to ecology and genetics.

CHEMISTRY DEPARTMENT

The department was established in 1975. It teaches course MDCH 131 for first year medical students (males and females). The course is composed of General Chemistry and Organic Chemistry.

Mission:

The mission of the department is to enable the medical students to understand how general and organic chemistry relate to biochemical processes in the human body.

Course:

Course Title	Code	Units
General/Organic Chemistry (CHEM-101)	CHEM-101	3

General/Organic Chemistry (CHEM-101)

General Chemistry: This part of the course covers the basic knowledge of energy changes, atomic and molecular structure, chemical bonding and reactivity, mass relationship in chemical reactions, chemical equilibrium reactions, the change of energy in thermo-chemical reactions, the state of gases, physical properties of solutions and the basic concept of acids and bases.

Organic Chemistry: This part of the course covers the basic knowledge of name, structure and stereochemistry of important organic compounds including, carbohydrates, lipids, phospholipids, methods of preparation and reactions of important functional groups of organic compounds, and amino acids, proteins and carbohydrates.

PHYSICS DEPARTMENT

The department of Physics was established in 1975. It provides study programs for Medical, Applied Medical Sciences, Dental and Nursing students at the UoD, at both undergraduate and postgraduate levels. These programs are designed to enable the students to acquire knowledge and skills in Physics which are essential for study and practice in various health disciplines, and to become familiar with the principles of modern sophisticated medical equipments.

Mission:

To enable the student to understand the laws of Physics which govern the behavior of solids, liquids and gases at the macro and molecular/atomic levels and that form the basis for Chemistry and Biochemistry. All the sub-divisions of Physics – mechanics, fluid mechanics, thermal physics, acoustics, electromagnetism, and optics form the basis of various body functions. The development of countless types of instruments for the diagnosis and treatment of diseases is the most important contribution from physics to life and health sciences. These range from a simple clinical thermometer to advanced instruments like diagnostic X-ray systems, nuclear radiation systems for cancer treatment, laser systems for eye treatments, ultrasonography, MRI and CT scan systems for diagnosis, etc.

Course:

Course Title	Code	Units
Physics (PHYS-101)	PHYS-101	3

Physics (PHYS-101):

This course provides the basic knowledge of rigid body mechanics, work and energy, fluid mechanics, heat, electricity, sound and ultrasound, optics, particle properties of light, atomic physics, nuclear and radiation physics.

Pre - Clinical Departments

ANATOMY DEPARTMENT

The Department of Anatomy was established in the academic year 1976/1977. Its activities are coordinated with other pre-clinical and clinical departments. The Department is actively involved in teaching anatomical subjects to medical undergraduate and postgraduate students, and other health students in Dammam.

Mission:

To enable the students to know the gross and microscopic structure of the human body and its functional relations at the cellular, tissue, organ and systems levels. Emphasis is placed on the clinical application of acquired knowledge. The Department also graduates students with a Master's degree in anatomical subjects, and is involved in applied research.

Undergraduate Courses:

Course Title	Code	Units
Gross anatomy (MDAT 202)	0404202	8
Histology (MDAT 207)	0404207	4
Embryology (MDAT 205)	0404205	2
Neuroscience (MDAP 333)	0423333	6

Gross Anatomy (MDAT 202)

This course provides core knowledge of the morphology of structures in different regions of the human body, the surface markings of the underlying important structures, and the clinical points related to the anatomical knowledge.

Histology (MDAT 207)

This course provides the basic knowledge of the microscopic structure of the tissues, organs and systems and their functional relations.

Embryology (MDAT 205)

This course provides the basic knowledge of normal human development from the onset of fertilization till birth and the most common congenital anomalies that may arise during development.

Neuroscience (MDAT 333)

An integrated course conducted by Anatomy and Physiology department to provide the anatomical and histological structure of the nervous system and its adaptation to function, in addition to the clinical applications of acquired knowledge.

Methods of teaching include lectures, tutorials and laboratory sessions using models, projected specimens, x-rays, video films and living anatomy models.

BIOCHEMISTRY DEPARTMENT

Biochemistry is one of the College of Medicine departments that started to teach medical students in the academic year 1976/1977. The biochemistry curriculum has been structured to meet the different needs of the medical students.

Mission:

The mission of the department is to present Biochemistry courses in an appropriate form that is required by different disciplines and to carry out research related to various diseases, especially those prevalent in the area, and to teach and train postgraduate students.

Undergraduate Courses:

Course Title	Code	Units
Medical Biochemistry (MDBC 206)	0406206	8
Medical Genetics (MDBC 403)	0406403	2

Medical Biochemistry (MDBC 206)

This course provides an overview of the basic principles of biochemical events in living systems in terms of metabolism in normal and diseased states. It will prepare the students for other preclinical and clinical subjects. The topics taught include an overview of cellular constituents, major metabolic pathways, glucose homeostasis, blood biochemistry, gene information, hormonal action, prostaglandin and vitamins. Methods of teaching include lectures, seminars, tutorials and laboratory sessions.

Medical Genetics (MDBC 403)

This course provides an overview of inheritance and specific traits linked to diseases. It will describe the molecular basis of variation in living organisms and link genetic knowledge to the understanding of many diseases. The topics taught will include, review of the organization of the human genome, transcription and translation of genes, clinical cytogenetics, pattern of inheritance, mutations, genetic diagnosis and a number of diseases as models for molecular diseases

FAMILY and COMMUNITY MEDICINE DEPARTMENT

The Department of Family and Community Medicine provides undergraduate education, masters and fellowship programs in Family and Community Medicine, postgraduate training program accredited by the Saudi Board of Family Medicine as well as the Arab Board. The department has attracted highly qualified Saudi and non-Saudi faculty who have contributed to the development of the curricula which later formed the basis for the Saudi and Arab Boards Fellowship in Family and Community Medicine.

Mission:

The Department is dedicated to provide quality education and training in the fields of family medicine and community medicine to medical students, interns, residents and other health professionals, and to promote, encourage and support excellence in healthcare, research, faculty development and continuing professional development.

Undergraduate Courses:

Course Title	Code	Units
Comprehensive Healthcare I (MDFM 204)	0407204	2
Comprehensive Healthcare II (MDFM 336)	0407336	4
Primary Healthcare (MDFM 402)	0407402	6
Biomedical Ethics in Islam (MDFM 405)	0407405	1

Comprehensive Healthcare I (MDFM 204)

On successful completion of this course students are able to discuss and identify the importance of Family and Community Medicine, basic concepts in epidemiology of health and disease, aspects of health planning and how the environment affects the family and community health.

Comprehensive Healthcare II (MDFM 336)

On successful completion of this course the students should be able to understand the fundamental concepts and acquire the basic knowledge in, attitudes and skills of health education, biostatistics, epidemiology and nutrition as related to medical and health sciences.

Primary Healthcare (MDFM 402)

On successful completion of this course the students should be able to understand the fundamental concepts of Family and Community Medicine, and acquire the basic knowledge, attitude and skills of Family and Community Medicine and the skills of community work field and research methods.

Biomedical Ethics in Islam (MDFM 405)

On successful completion of this course the students understand the basic principles of Islamic and international medical ethics, and appreciate the spirit and skills of self-learning so as to be committed to biomedical ethics in Islam.

MICROBIOLOGY DEPARTMENT

The department has been teaching medical students since the academic year 1977/1978. Microbiology is the science of medicine that deals with the microorganisms i.e. bacteria, viruses, fungi and parasites, which cause infections/diseases in humans. As such the department is concerned with teaching the basic properties of the organisms, pathogenesis, laboratory diagnosis, treatment and prevention of these diseases. The Department faculty members are actively involved in research work. The results of their research work have been presented and published in Saudi Arabian and International Medical Journals.

Mission:

The department helps the medical students to acquire recent information about microbiology, immunology and microorganisms that represent the foundation of the different infectious diseases.

Undergraduate Courses:

Course Title	Code	Units
Parasitology (MDMB 311)	0405311	2
Immunology (MDMB 321)	0405321	3
Microbiology (MDMB 331)	0405331	6

Parasitology (MDMB 311)

This course is designed to introduce parasitic diseases as an important component of medical microbiology, tropical medicine and infectious diseases. The students learn most comprehensively those parasites which cause serious disease in a significant number of people especially in Saudi Arabia, and which are amenable to effective treatment, control and prevention.

Immunology (MDMB 321)

This course enables the student to:

1. Understand innate (basic) and acquired immunity (immune response)
2. Understand the mechanisms of protection with reference to the antigens-antibodies complement, cells and their receptors, cytokines and other molecules involved in the immune response.
3. Understand tolerance, immune-pathogenesis, the resulting immunological diseases, and their clinical and epidemiological features.
4. Recognize the outline of the immune response to tumors, transplantations and some infectious agents.
5. Use immunodiagnostic procedures in the diagnosis of disease.
6. Understand and make use of immunotherapy in the treatment and control of disease.

Microbiology (MDMB 331)

This course enables the student to:

1. Develop an understanding of the structure, classification, growth requirements and genetics of different groups of medically important microorganisms.
2. Understand the pathogenesis of the common pathogens causing disease.

3. Know the important symptoms and signs of various infectious diseases.
4. Develop an understanding of the principles of prevention and control of microbial diseases by sterilization, disinfection and antimicrobial chemotherapeutic agents.
5. Understand the laboratory diagnosis of infectious diseases and the interpretation of lab results.

PATHOLOGY DEPARTMENT

The department of Pathology is one of the academic departments of the College of Medicine involved in connecting the preclinical stage with the clinical stage through teaching courses that enable the student to identify the causes of diseases and how to diagnose them. The courses include general study of diseases followed by specific study of diseases of the human body systems, blood diseases and forensic medicine.

Mission:

The mission is summarized in the following:

1. Teaching the courses of Pathology, Hematology and Forensic Medicine in the pre-clinical period.
2. Teaching and training physicians to get the UoD Fellowship in Anatomical Pathology and Clinical Pathology, in addition to the Saudi fellowship in Forensic Medicine.
3. Aiding the therapeutic services in the hospital through examination of the different samples (biopsies) taken from patients.

Undergraduate Courses:

Course Title	Code	Units
Pathology I (MDPA 332)	0409322	6
Pathology II (MDPA 401)	0409401	6
Forensic Medicine (MDPA 455)	0409455	1

Pathology I (MDPA 332)

This course enables the student to acquire basic and general knowledge about diseases. On successful completion of this course the student should be able to understand how disease processes affect the human tissues and organs.

Pathology II (MDPA 401)

This course enables the student to know the diseases of each system of the human body, and how each disease affects each system.

Forensic Medicine (MDPA 455)

This course enables the student to understand the basics of forensic medicine and its application to suspected cases of forensic nature.

PHARMACOLOGY DEPARTMENT

The Department of Pharmacology, established in 1976, teaches courses in the pre-clinical and clinical periods. The faculty members of the department actively participate in research work. The results of their research work have been published in Saudi Arabian and international medical journals. The faculty members also regularly participate/present their research work in local and international medical conferences and seminars.

Mission:

To provide quality pre-clinical education in pharmacology and therapeutics for medical students and other health students in the UoD, and to carry out basic research.

Undergraduate Courses:

Course Title	Code	Units
Basic Pharmacology (MDPM 337)	0408337	3
Systemic Pharmacology (MDPM 408)	0408408	3
Clinical Pharmacology (MDPM 509)	0408509	3

Basic Pharmacology (MDPM 337)

On Successful completion of this course the student should be able to:

1. Know the nature of pharmacology, its terminology and the systems set to control and promote safety and quality of drug use.
2. Understand mechanisms of drug actions and intracellular machineries exploited through these actions.

3. Appreciate the basic principles of pharmacokinetics and their relevance to optimizing effectiveness of drugs with respect to gender and life span contexts.
4. Understand the basic mechanisms and factors underlying adverse drug reactions, interactions, and toxicities.

Systemic Pharmacology (MDPM 408)

On successful completion of this course the student should be able to:

1. Understand the principles of drug action on various functional systems of the human body.
2. Acquire the knowledge and skills in the clinical application of these principles, particularly, in the management of patients.
3. Understand basic approaches used in drug evaluation and the techniques for monitoring of drugs in patients for therapeutics effectiveness and adverse effects.

Clinical Pharmacology (MDPM 509)

On successful completion of this course the student should be able to:

1. Know in detail the principles of pharmacokinetics and their application in therapeutic drug monitoring and dosage.
2. Apply pharmacological principles for rational use of drugs in the management of disease.
3. Know the principles of management of poisoning with drugs and other household and environmental toxicants.

PHYSIOLOGY DEPARTMENT

The department was established in 1976/1977. The department teaches medical students as well as students of other colleges of health sciences. It provides 2 postgraduate programs (Master and Doctorate) in the specialty of Physiology.

Mission:

Mission is summarized in the following:

1. To participate in the preparation and qualification of medical and health students for the clinical stage.
2. To prepare specialized cadres that hold postgraduate degrees in the specialty of physiology.

Undergraduate Courses:

Course Title	Code	Units
Physiology (MDPL 203)	0410203	8
Neuroscience (MDAP 333)	042333	6

Physiology (MDPL 203)

On successful completion of this course the student should be able to:

1. Know the basic facts, concepts and scientific principles of physiology necessary for the practice of medicine.
2. Apply these concepts and principles in the understanding of disease processes.
3. Demonstrate basic skills in clinical observation and measurement, and apply his or her findings towards reaching a diagnosis.
4. Understand how new knowledge and information is produced.

Neuroscience (MDAP 333)

The aims of this course are to provide core information, principles and concepts, essential for the rational approach to the understanding of normal and abnormal structure and function of the nervous system. The neuroanatomy part of this course is taught by the anatomy department.

MEDICAL EDUCATION DEPARTMENT

The Department of Medical Education provides faculty members with essential training to practice their roles as medical teachers in different domains related to course design, teaching and learning, professionalism, educational strategies and assessment. Faculty development is designed in the form of thematic workshops for all faculty members and as specialized courses as the Essential Skills in Health Professions Education or ESHPE in three modules (3 days each). In 2016, the Department of Medical Education celebrated the graduation of the 7th batch of ESHPE with a total number of 169 faculty members. The Department of Medical Education encompasses other facilities as the Examination Center and the Simulation lab.

In the *Examination Center*, we report item analyses that include reliability, difficulty, discrimination and distractor analyses for all scanned exams that we receive and develop a comprehensive feedback to course coordinators to improve their assessment practices. We also provide examiners with selected items from IDEAL consortium bank to supplement items from almost 30 universities all over the world.

In *Simulation Lab*, we provide training of teachers and students using sophisticated simulators to qualify our medical graduates as safe practitioners before practicing on real patients in clinical practice.

With respect to *educational research*, we encourage documenting and reporting educational experiences from medical teachers to share the best practice of medical education and to be published in prestigious medical education journals. We seek resolutions for our genuine inquiry in course design, teaching, learning, professionalism, educational strategies and assessment on scholarly basis using the latest approaches and methods in educational research.

The Department of Medical Education aspires for further programs, such as, *Train the Trainers* with collaboration with Saudi Commission for Health Specialties and also plan to launch a *Master program* in medical education.

Mission:

The Department is dedicated to provide quality education and training for faculty members and report item analysis of exams to course coordinators. The department ensures the use of the simulation laboratory to train medical students to be safe practitioners. We promote research in medical education and aim to position the University of Dammam as a leading institution in educational research.

Clinical Departments

ANESTHESIA DEPARTMENT

The department of Anesthesiology was established as a unit of the department of General Surgery in 1978. It became independent in 1981. It provides a high standard of clinical services and academic activities. The department runs 5-6 busy operating theaters daily for elective surgical procedures in addition to emergency surgery. The department also offers obstetric pain relief and anesthesia for surgical delivery. Anesthesiologists manage surgical patients in KFHU general intensive care unit. Other clinical services include anesthesia for day surgery, in the radiology department and for postoperative pain relief. The department maintains quality care by continuous quality improving activities that review and implement approved policies and procedures.

Mission:

The mission of the department covers two main domains:

1. Education and training of the 5th year medical students, internship trainees and postgraduate students.
2. Provision of high level clinical services such, as pain relief for different surgical specialties, management of intensive care surgical patients in addition to emergency surgery.

Undergraduate Course:

Course Title	Code	Units
Anesthesia (MDAN 503)	0424503	1

Anesthesia (MDAN 503)

This course enables the medical student to acquire basic knowledge of Anesthesia and Intensive Care, and to develop skills in clinical access in order to recognize high risk patient preoperatively. It also enables the student to develop the basic skills for basic life support and to gain exposure to different patients' problems preoperatively.

DERMATOLOGY DEPARTMENT

The department was established in 1980. It started the first postgraduate program in the specialty of dermatology in Saudi Arabia in 1990G., leading to UoD Fellowship in Dermatology. After that it became one of the approved centers of training for Saudi Board in the specialty of dermatology.

Mission:

The primary mission of the Department of Dermatology is:

1. To provide outstanding dermatological care to all presenting patients.
2. To train Saudi medical cadres in the specialization of Dermatology.
3. To participate in different scientific activities including conferences and forums.

Undergraduate Course:

Course Title	Code	Units
Dermatology (MDDE 504)	0411504	3

Dermatology (MDDE 504)

Through adequate and appropriate theoretical knowledge and clinical exposure, this course will enable the student to acquire a level of clinical competence that will enable him/her to diagnose, treat, and prevent common skin diseases at the primary care level.

EMERGENCY MEDICINE DEPARTMENT:

The department of emergency medicine was established in 2010. It provides outstanding clinical education opportunities for residents and medical students as an academic department and accredited residency-training center by the SCFHS. It consists of 55 beds for resuscitation, cardiac and trauma, medical, surgical, OB/GYN and pediatrics care. It supports both basic science and clinical research.

Mission:

The Emergency Medicine Department is dedicated to serve the needs of the community. It is committed to provide the highest quality of healthcare to patients and their families, to expand the boundaries of medicine through research, and to educate future generations of healthcare professionals.

Undergraduate Course:

Course Title	Code	Units
Emergency Medicine (MDER 512)	0432512	1

Emergency Medicine (MDER 512)

This course enables the 5th year medical students to acquire basics of medical emergency cases, and their diagnosis and treatment as well as understanding the physiological changes in the emergency cases. Students will become familiar with the basic skills of first aid to treat the emergency cases.

ENT DEPARTMENT

The ENT Department was established in 1978 as an ENT unit under the umbrella of General Surgery. It started its teaching activity for 6th year students in the affiliated hospitals in 1979. In 1981, King Fahd Hospital of the University was inaugurated and the ENT Department was born. In 1986, the Fellowship Program in ORL-H&N Surgery was established. In 1999, the Fellowship program was affiliated to the Saudi Board Postgraduate Program for ORL. Over the last 24 years the department has managed to incorporate modern ENT subspecialty services i.e., LASER, Allergy, FESS and other services, and to establish a modern Speech Pathology and Audiology Unit.

Mission:

The mission of the department is to:

1. Provide education to medical students.
2. Practice contemporary, high-quality patient care
3. Create new or expand knowledge from basic and clinical otolaryngology research.
4. Be committed to leadership in the community and the academic arena.

Undergraduate Course:

Course Title	Code	Units
ENT (MDOL 505)	0412505	3

ENT (MDOL 505)

On successful completion of this course the student should be able to:

1. Know the most important diseases that afflict the nose, ear and throat.
2. Apply theoretical knowledge to practical training in out-patient clinics and hospital wards.
3. Recognize and diagnose ENT diseases and deal with critical cases.

INTERNAL MEDICINE DEPARTMENT

The Department of Internal Medicine provides primary and subspecialty diagnostic and healthcare services for patients of the Eastern Province. It undertakes a big academic burden by providing educational courses in internal medicine for the 4th, 5th and 6th levels of the college of medicine.

Mission:

The mission of the Department of Internal Medicine is the education of medical students, development of new knowledge through scholarly work, training of interns, residents and fellows, and provision of direct patient care services.

Undergraduate Courses:

Course Title	Code	Units
Internal Medicine (MDMD 451)	0416451	6
Internal Medicine (MDMD 501)	0416501	6
Internal Medicine (MDMD 601)	0416601	9

Internal Medicine I (MDMD 451)

This course enables the students to acquire skills in history taking, physical examination, communication skills and basic procedures. It includes collecting appropriate data, and proposes possible diagnoses and therapies.

Internal Medicine II (MDMD 501)

On successful completion of this course the student should be able to: perform complete history taking and physical examination with attention to charting and differential diagnosis, orders, progress notes, procedures, and discharge summaries.

Internal Medicine III (MDMD 601)

The purpose of this course offered near the end of the sixth year, is to enable the students to study in depth selected medical topics useful to a physician entering internship. On successful completion of this course the student should be able to:

1. Review current therapeutics applied to selected major classes of acute and chronic disease syndromes.
2. Develop lifelong learning skills to keep up with advances in therapeutics.
3. Improve clinical skills to develop, monitor, and adjust therapeutic regimes.

NEUROLOGY DEPARTMENT

The department of Neurology was established as the first academic department of Neurology in the Kingdom in 1987. It has been entrusted to prepare the medical students for lifelong learning habits in an ever expanding knowledge in the neurological sciences, to communicate neurological findings to colleagues and patients' families, and to understand some of the ethical principles related to chronic illness and handicap in the local community.

Mission:

The mission of the department has focused on excellence in providing teaching and training of undergraduate and postgraduate students, undertaking academic and clinical research and in healthcare for neurological patients.

Undergraduate Course:

Course Title	Code	Units
Neurology (MDNL 506)	0413506	3

Neurology (MDNL 506)

This course enables the student to acquire basic knowledge of the clinical presentation of common neurological disorders, and the diagnostic and therapeutic approaches to these disorders. The course also enables the student to become aware of the logic, and the rational reasoning, behind a proper neurological examination.

NEUROSURGERY DEPARTMENT

The Neurosurgery Department was established in 1984. In the year 1987, it developed a postgraduate training program in collaboration with King Faisal Specialist Hospital and Research Center and Riyadh Armed Forces Hospital. Since then, several candidates have graduated from the program and excelled in their performance in several institutions within the Kingdom and other Gulf countries. The Department of Neurosurgery possesses modern operative and radiological facilities and always strives towards a higher standard of practice in both teaching and research.

Mission:

1. Teaching undergraduate medical students.
2. Training and qualifying physicians for the examination of Saudi Board in the specialty of Neurosurgery.
3. Providing outstanding neurosurgery services and taking care of critical and difficult cases.

Undergraduate Course:

Course Title	Code	Units
Surgical Specialties (MDSG 502)	0417502	6

Surgical specialties (MDSG 502)

On successful completion of this course: the student should be able to:

1. Reinforce his/her skills of history taking and physical examination that are specific for patients with diseases and injuries to the locomotor system, central and peripheral nervous systems.
2. Have basic knowledge in diagnosis and management of clinical cases of the locomotor, central and peripheral nervous systems.
3. Understand the importance of early diagnosis of common diseases and when to refer a patient for specialist's evaluation and treatment.

OBSTETRICS and GYNECOLOGY DEPARTMENT

The department of Obstetrics and Gynecology was established in 1979. It is involved in teaching and training of undergraduate and postgraduate medical students, and provides routine and tertiary care for patients. It is equipped with a full-fledged delivery room suite that includes first stage rooms, labor rooms and an operating

theatre for obstetric cases. The hospital receives normal and high-risk cases through different channels. There are 12 Ob/Gynea clinics per week. Consultants, senior registrars and residents are involved in the running of these clinics. The department runs a very busy Ob/Gynec emergency room providing a 24-hour service.

Mission:

Obstetricians and Gynecologists are in demand all over the world, but more so in developing countries where the birthrate and maternal and perinatal morbidity and mortality are high. The Kingdom of Saudi Arabia has a shortage of qualified Obstetricians and Gynecologists and hence the need for a good number of quality doctors in order to provide excellent modern obstetrical and gynecological care to the population.

Undergraduate Course:

Course Title	Code	Units
Obstetrics/Gynecology (MDOG 553)	0414603	9

Obstetrics/Gynecology (MDOG 553)

This 9-weeks course enables the medical students to acquire adequate knowledge, skills and attitudes. Instructional methods include lectures, tutorials and bedside teaching. Group work facilitates learning in different clinical environments within the department such as delivery room, in-patient units and clinics.

OPHTHALMOLOGY DEPARTMENT

The Department of Ophthalmology was established in 1980. The Departmental Faculty participate in teaching and training of the students of the College of Medicine. It started the Fellowship program in Ophthalmology in 1983. This was the first fellowship program in this specialty in Saudi Arabia.

Mission is:

Reflected in the following activities:

1. Teaching and training of students of the College of Medicine.
2. Training of Primary care Physicians.
3. Graduating qualified physicians from UoD Fellowship program in the specialty of Ophthalmology.

Undergraduate Course:

Course Title	Code	Units
Ophthalmology (MDOP 507)	0415507	3

Ophthalmology (MDOP 507)

This course enables the undergraduate students to acquire the knowledge and skills that enable them to prevent optical damage, in case of diseases and accidents, by following the proper procedures, and to promote students' awareness, so as they are able to recognize the changes that may occur in the optical system because of other diseases in other parts of the body.

ORTHOPEDICS DEPARTMENT

The Department of Orthopedic Surgery was established in 1982. During the first decade of its existence most of the work focused on patient service, teaching and research. In a young institution it is reasonable that most of the research consisted of clinical and epidemiological studies. Areas given special interest were spinal injuries and disorders, orthopedic complications in sickle cell disease, osteoarthritis of the knee and congenital dislocation of the hip. Many of the papers were published in reputable international journals and have received attention inside and outside the Kingdom. Articles were also published in local journals and newspapers for education and information of the Saudi population. The department has been the regional center for postgraduate training over the past 10 years and has been involved in structured training for all trainees in the Saudi Board Program for Orthopedic Surgery.

Mission:

1. To provide excellent clinical care to patients reporting to the orthopedic department.
2. To engage in research and the development of new technology to help patients reach new levels of function and recovery.
3. To further improve the quality of research and publications and to include more prospective controlled clinical investigations and experimental studies.
4. To teach the medical students basics of orthopedic surgery to enable them to provide the needed clinical care as general physicians.

Undergraduate Course:

Course Title	Code	Units
Surgical Specialties (MDSG 502)	0417502	6

Surgical Specialties (MDSG 502)

This course enables the medical students to acquire basics of orthopedics through significant responsibilities in patient care and a broad exposure in orthopedic operating room techniques. Students will become familiar with the principles of Orthopedics and clinical pathologic correlation.

PEDIATRICS DEPARTMENT

The Department of Pediatrics was established in 1981. The Department pioneered a Residency Training Program in Pediatrics in the Kingdom, which is accredited by the Saudi Council for Health Specialties and the Arab Board for Medical Specializations. The Department has a well-equipped Newborn Nursery and a 10-bed Neonatal Intensive Care Unit (NICU), General Pediatric Ward with 30 beds, and Pediatric Emergency Room and Outpatient Clinics. Recently, a separate Pediatric Intensive Care Unit (PICU) has been added.

Mission:

To provide comprehensive and specialized healthcare to sick and well newborn babies and children under 12 years of age. The department provides an ideal opportunity for medical students, nursing students, paramedical trainees, interns and residents to practice and fulfill the requirements for their training.

Undergraduate Course:

Course Title	Code	Units
Pediatrics (MDPD 604)	0418604	9

Pediatrics (MDPD 604)

The course enables 6th level medical students to acquire clinical and theoretical experience in general pediatrics with special emphasis on common pediatric disorders and problems of regional health importance.

On successful completion of the course, the students should be able to:

1. Demonstrate skills in pediatric history taking.
2. Perform a thorough physical examination.
3. Integrate history, clinical and laboratory findings
4. Demonstrate sound clinical judgment and appropriate care for infants and children.
5. Undertake the necessary measures for prevention of pediatric disease in the community.

PSYCHIATRY DEPARTMENT

The department was established in 1975, to provide high quality care services to the community, and education and training to medical students.

Mission:

1. To provide leadership in Psychiatric education and training, to carry out research, to enhance faculty development and render Psychiatric services to the population of the Eastern Province of Saudi Arabia.
2. To discover the causes of mental illness and to develop new treatments.

Undergraduate Courses:

Course Title	Code	Units
Psychiatry (MDPY 508)	0419508	6
Behavioral Sciences (MDPY 335)	0419335	2

Psychiatry (MDPY 508)

On successful completion of this course the student should be able to:

1. Interview patients, obtain and record complete history, assess mental status and do physical examination.
2. Understand the importance of the interaction between physical, mental and social factors and their effect in causing mental illness.

Behavioral Sciences (MDPY 335)

On successful completion of this course the student should be able to:

1. Understand the relationship between human behavior, health and sickness.

2. Know the developmental stages of the human mind and their relation to the human needs.
3. Understand the role of the family, community, religion and educational level in a patient's life.

RADIOLOGY DEPARTMENT

The Department of Radiology provides vital radiological services to all hospital departments 24 hours a day, 7 days a week throughout the year. It caters for X-Ray services including General Radiography, IVP procedures, digital Angiography, Radiographic Fluoroscopy, Computerized Tomography (CT), Ultrasound, Magnetic Resonance Imaging (MRI), Mammography and Bone Density and Dry film system.

Mission:

The Department teaches and trains Radiologists for UoD Fellowship and the Saudi Board of Radiology. Training is also extended to residents from other departments such as FAMCO, Neurosurgery, General Surgery, etc., to interns and technologists from health sciences Colleges in Dammam and King Saud University in Riyadh, medical students, and students from College of Applied Medical Sciences (Physiotherapy and Respiratory Therapy), UoD.

Undergraduate Course:

Course Title	Code	Units
Radiology (MDRD 511)	0422511	1

Radiology (MDRD 511)

This course enables the medical students to acquire basic radiological terminology and to become familiar with the main areas of radiology and imaging modalities so that they are able to select the proper modality for a particular clinical problem. This also enhances their ability to recognize common pathologic entities.

SURGERY DEPARTMENT

The department was established in 1975 as one of the first clinical departments of the College of Medicine. It was a composite department made up of all the main surgical specialties including anesthesia. However, by 1984, independent departments of ENT, Ophthalmology, Orthopedics, Neurosurgery, Anesthesia, and

Urology were established. It then became a well-defined entity as General Surgery, and has since encouraged and promoted the development of Pediatric Surgery, Plastic and Reconstructive Surgery, and developed special interests in Proctology, Endocrine, Thoracic, Vascular, and Minimally Invasive Surgery.

Mission:

The Department shall:

1. Ensure effectiveness of Pediatric and Neonatal Surgery services to the community.
2. Diversify itself as appropriately as possible to meet the expectations of the community and academic needs of the College of Medicine and those of the UoD.

Undergraduate Courses:

Course Title	Code	Units
Surgery I (MDSG 452)	0417452	6
Surgery II (MDSG 602)	0417602	9

Surgery I (MDSG 452)

On successful completion of this course, the student should be able to:

1. Interpret clinical situations correctly and provide rational diagnosis with or without the help of investigations.
2. Make a comprehensive list of the patients' problems and list specific investigations to aid diagnosis and further management.
3. Understand procedures needed, preparation of the patient for such procedures and their side effects, interpret the results of radiological and laboratory investigations.
4. Appreciate that sophisticated investigations are no substitute for clinical acumen.
5. Describe in a given clinical situation the principles of treatment and after care.

Surgery II (MDSG 602)

On successful completion of this course, the student should be able to:

1. Understand and recognize the value of para-clinical investigations, specimens needed, preparation of the patient for such procedures and their side effects.

2. Demonstrate professional competence and maturity which would qualify him/her to sit the final certifying examination and join the internship.
3. Demonstrate effective and proficient communication with peers and the medical community at large.
4. Handle patients with care and modesty.
5. Respect the tenets of Islam as well as the sanctity of life.

UROLOGY DEPARTMENT

The Urology Department started functioning in 1981 as a Unit within the Department of Surgery. The Urology Unit progressed considerably over a 10 year period, and was eventually recognized as an independent department in 1990. In addition to the various academic activities, the department also provides medical services that include management of emergency cases in the casualty department, as well as management of complicated cases referred from other hospitals in the Eastern Province. Surgical procedures performed, include cystoscopy, ureteroscopy, and laparoscopy for adult and pediatric patients. The department is also equipped with a complete facility for urodynamic studies as well as a new machine for extracorporeal shock wave lithotripsy (ESWL).

Mission:

1. Teaching a Urology course to 5th level medical students (MDSG 502).
2. Training Urology residents and interns on the management of the urology patient, and continuous update of the urology literature.
3. Treatment of patients referred to the urology department in King Fahd Hospital of the University, Al-Khobar.

Undergraduate Course:

Course Title	Code	Units
Urology (MDSG 502)	0433502	6

Urology (MDSG 502)

This course covers anomalies, traumatic lesions, inflammatory lesions, and neoplastic lesions of the genitourinary system, as well as urolithiasis, infertility and scrotal swellings. Students attend the "outpatient clinics" and "inpatient wards" in accordance with a scheduled timetable. The students observe and discuss with the faculty members different cases. They are requested to examine the patients

clinically whenever appropriate. Urologic diseases where clinical material is not available are taught by alternative ways like simulation, slide presentations and X-ray films.

INTER-DEPARTMENTAL COURSES

Course Title	Code	Units
Integrated Health Sciences (MDIN 453)	0430453	6
Basic Clinical Skills (MDIN 406)	0431408	3

Integrated Health Science (MDIN 453)

The college has currently implemented an integrated health science course (problem based learning) where students are encouraged to adopt a self-directed approach to learning under the supervision of faculty members. It has been a challenging time for the college to apply evidence based learning. However, the program is moving on successfully.

Basic Clinical Skills (MDIN 406)

Recently a short introductory course has been offered for fourth year students. This is a Basic Clinical Skills course. Introductory lectures are delivered to the students by faculty members. Use is made of the clinical skill laboratory on the third floor of Building "500". It has a clinical skill work station and a computer laboratory.

Faculty Members

DEPARTMENT OF ANATOMY

	Name	Academic Rank	E-Mail	Office #
1	Mohammed Al Motabagani - Chairman	Prof	mmotabagani@uod.edu.sa	3331046
2	Abdulhamied Lutfi	Prof	amlutfy@uod.edu.sa	3331174
3	Khulood Mohd Khalid Al Khater	Asst. Prof	kalkhater@uod.edu.sa	3332642
4	Essam El-Sayed	Asst. Prof	ealbadawy@uod.ed.sa	3331062
5	Kamal El Din Motwali	Asst. Prof	kmmotawei@uod.ed.sa	3331063
6	Siraj Ahmad	Asst. Prof	ssheik@uod.edu.sa	3331059
7	Syed Rehan Daimi	Asst. Prof	srdaimi@uod.edu.sa	3331117
8	Amal El Shaikh	Assoc. Prof	amalsheikh@uod.edu.sa	2531
9	Faiza Banu	Asst. Prof	fbsiddiqui@uod.edu.sa	3065
10	Sujatha Bangalore	Asst. Prof	sbbayer@uod.edu.sa	3332379
11	Srinivasa Rao Bolla	Asst. Prof	srbolla@uod.edu.sa	3331191
12	Yousuf Yousuf Ali Begum	Asst. Prof	ybegum@uod.edu.sa	35150

DEPARTMENT OF BIOCHEMISTRY

	Name	Academic Rank	E-Mail	Office #
1	Amein K Al Ali Chairman	Prof	aalali@uod.edu.sa	3330860
2	Hamza Eskandarani	Assoc. Prof	heskandarani@uod.edu.sa	33103
3	Fouad Salman Al Qaw	Assoc. Prof	Fqaw@uod.edu.sa	3331072
4	Falih Jaber	Assoc. Prof	fjabor@uod.edu.sa	31058
5	Mohamed Shakil Akhtar	Assoc. Prof	makhtar@uod.edu.sa	3331073
6	Ahmed Arafat	Assoc. Prof	aahmad@uod.edu.sa	3331060
7	Samina Wasi	Asst. Prof	skiasi@uod.edu.sa	2063

DEPARTMENT OF MICROBIOLOGY

	Name	Academic Rank	E-Mail	Office #
1	Huda Bukhari Chairperson	Prof	cm-dmic@uod.edu.sa	31075
2	Obeid Al Treifi	Prof	oeltreifi@uod.edu.sa	31075
3	Anibal De Sosa	Prof	asosa@uod.edu.sa	31075
4	Eldirdir Ahmed Saeed	Assoc. Prof	esaeed@uod.edu.sa	31053
5	Maher Al Qurashi	Asst. Prof	msalqurashi@uod.edu.sa	31140
6	Reem Al Jindan	Asst. Prof	raljindan@uod.ed.sa	35145
7	Amani Mansour Al Nimr	Asst. Prof	amalnimr@uod.edu.sa	35130
8	Reem Al Dossary	Asst. Prof	raaldossary@uod.edu.sa	35155
9	Yahya Salih	Asst. Prof	ysmohamed@uod.edu.sa	31157
10	Asim Eltayeb Diab	Asst. Prof	adiyab@uod.edu.sa	31076
11	Basavaraj Chanapasaba	Asst. Prof	nimmibas@uod.edu.sa	31074
12	Ghulam Dhabaan	Asst. Prof	gndhabaan@uod.edu.sa	31163
13	Nahid Hussein Wanni	Asst. Prof	nwawni@uod.edu.sa	35154
14	Mohammed Khan	Assoc. Prof	mehkhan@uod.edu.sa	31151
15	Nida Saleem	Asst. Prof	nsaleem@uod.edu.sa	35126

DEPARTMENT OF PATHOLOGY

	Name	Academic Rank	E-Mail	Office #
1	Dalal M. Al Tamimi Chairperson	Prof	dtamimi@uod.edu.sa	3021
2	Mohammad Al Shawarby	Prof	mshawarby@uod.edu.sa	31030
3	Yasser Ahmed O. Shawqi	Prof	yosman@uod.edu.sa	2110
4	Ahmad Salah Kamel	Prof	aabdelbar@uod.edu.sa	3163
5	Ritesh George Menezes	Prof	rgmenezes@uod.edu.sa	3045
6	Saleh A. Al Sowayan	Assoc. Prof	ssowayan@uod.edu.sa	31111
7	Tariq M. Hashim	Assoc. Prof	thashim@uod.edu.sa	3182
8	Tarek M. Samy Al Sharkawy	Assoc. Prof	telsharkawy@uod.edu.sa	31036
9	Ahmad Abdullah Al Sayah	Asst. Prof	aaalsayyah@uod.edu.sa	3032
10	Mohammed Madaddin	Asst. Prof	mmadadin@uod.edu.sa	1126
11	Areej Mansour Al Nemer	Asst. Prof	aanemer@uod.edu.sa	3119

	Name	Academic Rank	E-Mail	Office #
12	Amr Al Tohamy	Asst. Prof	aaaltohamy@uod.edu.sa	31116
13	Mohammad AbdulKader Al Hamad	Asst. Prof	mhamad@uod.edu.sa	3174
14	Haitham Kussaibi	Asst. Prof	hkussaibi@uod.edu.sa	3027
15	Owaidah Alsalman	Asst. Prof	awawadalla@uod.edu.sa	3170
16	Aysha Ahmad Badr	Asst. Prof	aahmed@uod.edu.sa	3161
17	Amr Zaher	Asst. Prof	azaher@uod.edu.sa	8985589
18	Mohammed Yunus	Asst. Prof	myunus@uod.edu.sa	8985589

DEPARTMENT OF PHARMACOLOGY

	Name	Academic Rank	E-Mail	Office #
1	Mastour Al Ghamdi Chairman	Prof	msalghamdi@uod.edu.sa	31018
2	Emmanuel Bekoe Larbi	Prof	eblarbi@uod.edu.sa	31029
3	Mohammed Tareq Aftab	Prof	mtaftab@uod.edu.sa	31070
4	Abdulaziz Al Khawajali	Assoc. Prof	aakhawajah@uod.edu.sa	31019
5	Manal Mohamed Alem	Asst. Prof	malem@uod.edu.sa	2955
6	Mohammed Taher Ali Mahmood	Asst. Prof	mtali@uod.edu.sa	31175
7	Heba Mahmoud Abduljalil	Asst. Prof	hamahmoud@uod.edu.sa	2071
8	Rumana Farukh	Asst. Prof	rfarrukh@uod.edu.sa	32071
9	Mohammed Tareq Salman	Assoc. Prof	mts Salman@uod.edu.sa	31040
10	Fadel Al Omer	Asst. Prof	falomar@uod.edu.sa	31178
11	Zuber Ahmed	Asst. Prof		31018
12	Dania Abdulrahman Al Hussein	Asst. Prof	dahusseini@uod.edu.sa	31018

DEPARTMENT OF PHYSIOLOGY

	Name	Academic Rank	E-Mail	Office #
1	Abdullah Omar Bamosa Chairman	Prof	bamosa@uod.edu.sa	32700
2	Basil Al Shaikh	Assoc. Prof	balshaikh@uod.edu.sa	33100
3	Tharwat Ahmed Gamal Eldein	Assoc. Prof	taeldin@uod.edu.sa	31023
4	Ahmaed Badar M. Ali Sheikh	Assoc. Prof	absheikh@uod.edu.sa	31024
5	Talay Yar Altaf Rahman	Assoc. Prof	tyar@uod.edu.sa	31025
6	Ahmed Abdulrahman Al Sunni	Asst. Prof	aalsunni@uod.edu.sa	32777
7	Mona Hamoud Al Shaikh	Asst. Prof	msheikh@uod.edu.sa	35151
8	Lubna Ibrahim Al Asoom	Asst. Prof	lasoom@uod.edu.sa	35131
9	Kholoud Saad Al Gamdi	Asst. Prof	ksaalghamdi@uod.edu.sa	35995
10	Mohammed Taha Ali Al Hariri	Asst. Prof	mtalhariri@uod.edu.sa	31026
11	Ayad Mohammed Salem Ali	Asst. Prof	emsalim@uod.edu.sa	31022
12	Nazsh Rafique Yaaqub Ahmed	Asst. Prof	nryahmed@uod.edu.sa	35133
13	Farrukh Majeed Ahmad Faraz	Asst. Prof	fmajeed@uod.edu.sa	35132
14	Sadaf Mumtaz M. Hasan	Asst. Prof	amumtaz@uod.ed.sa	35166
15	Rabia Latif Amair Hussain	Asst. Prof	rlhussain@uod.edu.sa	321024
16	Abdullah Al Swied	Asst. Prof	aalswied@uod.edu.sa	31162

DEPARTMENT OF FAMILY and COMMUNITY MEDICINE

	Name	Academic Rank	E-Mail	Office #
1	Sameeh M. Al Almaie Chairman	Prof	salmaie@uod.edu.sa	8948964 x 110
2	Kasim M. Al Dawood	Prof	qaldauood@uod.edu.sa	8948964 x 189
3	Nabil Mohammed Al Kurashi	Prof	nalkurashi@uod.edu.sa	8948964 x 110
4	Badria A. Al Dabal	Assoc. Prof	bdabal@uod.edu.sa	35142
5	Attia Z. Taha	Assoc. Prof	attiataha@uod.edu.sa	31079
6	Moataza M. Abdel Wahab	Assoc. Prof	mabdelwahab@uod.edu.sa	8948964
7	Abdulaziz M.S. Al Sebiany	Asst. Prof	asebiany@uod.edu.sa	31033

8	Sultan Al Otaibi	Asst. Prof	salotaibi@uod.edu.sa	8948964
9	Samar Salim Barayan	Asst. Prof	sbarayan@uod.edu.sa	32930
10	Magdy A. Darwish	Asst. Prof	mdarwish@uod.edu.sa	8948964x188
11	Hassan Abu Jad	Asst. Prof	abugad@uod.edu.sa	8671275
12	Salahelddin Falahelddin	Prof	sfalahuddin@uod.edu.sa	8948964
13	Tajammul Mostafa	Prof	cm-dfcm@uod.edu.sa	8948964
14	Nahid Farhat	Asst. Prof	nfarhat@uod.edu.sa	8948964
15	Dalia Yahia El Kheir	Asst. Prof	dyelkheir@uod.edu.sa	8948964
16	Marwa M. Shafey	Asst. Prof	mmashafey@uod.edu.sa	8948964
17	Leila Boubshait	Asst. Prof	laboubshait@uod.edu.sa	8948964
18	Huda Al Makhaitah	Asst. Prof	halmakhaita@uod.edu.sa	8948964
19	Reem Saeed Al Omar	Asst. Prof	rsomar@uod.edu.sa	8948964

DEPARTMENT OF ANESTHESIA

	Name	Academic Rank	E-Mail	Office #
1	Abdulmohsen Al Ghamdi Chairman	Assoc. Prof	amoalghamdi@uod.edu.sa	2022-117
2	Hany A. Mowafi	Assoc. Prof	hmowafi@uod.edu.sa	8966711
3	Roshdi Al Metwalli	Assoc. Prof	rmetwalli@uod.edu.sa	2152
4	Mohammed Refaat Al Tahan	Assoc. Prof	cm-dpa@uod.edu.sa	2022
5	Summayah Fallatah	Asst. Prof	smfallatah@uod.edu.sa	8966666 # 2152
6	Haitham Zien Al Gamel	Asst. Prof	hgameel@uod.ed.sa	8966666 # 2152
7	Alaa Mohamed Khedr	Asst. Prof	akhedr@uod.edu.sa	8966666 # 2152
8	Wesam Farid Mousa	Asst. Prof	wmousa@uod.edu.sa	8966666 # 2152
9	Husni Abdulrahmn Alakkad	Asst. Prof	hakkad@uod.edu.sa	8966666 # 2152

DEPARTMENT OF DERMATOLOGY

	Name	Academic Rank	E-Mail	Office #
1	Saleh Hamad Al Jabre Chairman	Prof	sjabre@uod.edu.sa	8966666 Ext. 1513
2	Omar Al Amro Alakloby	Prof	oamro@uod.edu.sa	8966708
3	Iqbal Abdulaziz Bukhari	Prof	Ibukhari@uod.edu.sa	8966666 Ext. 1563
4	Sahar Hassan Al Natour	Assoc. Prof	shalnator@uod.edu.sa	8966708
5	Fatimah Budair	Asst. Prof	cm-dder@uod.edu.sa	8966666

DEPARTMENT OF EMERGENCY MEDICINE

	Name	Academic Rank	UOD E-Mail	Office #
1	Mohye Alwahhas Chairman	Asst. Prof	mwahhas@uod.edu.sa	2040
2	Mohammed Al Jumaan	Asst. Prof	majumaan@uod.edu.sa	8966666-1007
3	Mohammed Al Shahrani	Asst. Prof	msshahrani@uod.edu.sa	4020-137
4	Amal Al Sulaibikh	Asst. Prof	asulaibeekh@uod.edu.sa	2040 – 136

DEPARTMENT OF ENT

	Name	Academic Rank	E-Mail	Office #
1	Nasser Ali Al Jazan - Chairman	Asst. Prof	njazan@uod.edu.sa	8966666 Ext. 3200
2	Laila Telmesani	Prof	itelmesani@uod.edu.sa	8966744
3	Mona Mohamed Ashoor	Asst. Prof	monaashoor@gmail.com	8877152
4	Nithreen Mohammed Hussein	Asst. Prof	nhussein@uod.edu.sa	1270
5	Mohammed Al Bar	Asst. Prof	malbar@uod.edu.sa	8966666 Ext. 3200
6	Ahmed Abdulhamid	Asst. Prof	amohammed@uod.edu.sa	8966666 Ext. 3200

DEPARTMENT OF INTERNAL MEDICINE

	Name	Academic Rank	E-Mail	Office #
1	Waleed I. Al-Baker Chairman	Assoc. Prof	wialbahr@uod.edu.sa	8966666 -1303
2	Fahad A. Al Muhanna	Prof	fmuhanha@uod.edu.sa	33040
3	Ali Al Sultan	Prof	aialsultan@uod.edu.sa	31100
4	Akram Hussein Al Khadra	Prof	akhadra@uod.edu.sa	8966741
5	AbdulMohsen Habib Al Elq	Prof	aaleleg@uod.edu.sa	31035
6	Abdullah K .Al Hweish	Prof	ahwiesha@uod.edu.sa	1337
7	Huda Bukharie	Prof	hbukhari@uod.edu.sa	8966741
8	Fakhry Mohammad	Prof	mfibrahim@uod.edu.sa	8966741
9	Ibrahim S. Taha	Prof	isaead@uod.edu.sa	8966666
10	Samir H. Al Mueilo	Assoc. Prof	smueilo@uod.edu.sa	8966741
11	Hatem O. Qutub	Assoc. Prof	hqutub@uod.edu.sa	8966741
12	Mohamed Ismail Yasawy	Assoc. Prof	myasawy@uod.edu.sa	8966741 Ext.7907
13	Ali M. Al Amri	Assoc. Prof	amalamri@uod.edu.sa	896666666-1303
14	Mona H. Ismail	Assoc. Prof	moismail@uod.edu.sa	8966741
15	Marwan Jabr Al Wazzeh	Assoc. Prof	mjalwazzeh@uod.edu.sa	8966741
16	Abdulaziz Al Quorain	Prof	aquorain@uod.edu.sa	33094
17	Abdullah F. Al Mulhim	Asst. Prof	afmulhim@uod.edu.sa	8966741
18	Raed M. Al Bukhari	Asst. Prof	rbukhari@uod.edu.sa	32800
19	Raid M. Al Suleiman	Asst. Prof	rsulaiman@uod.edu.sa	8966877
20	Mohammed A. Al Mansori	Asst. Prof	mmansori@uod.edu.sa	8966741
21	Abdullah A. Al Shehri	Asst. Prof	aalshehri@uod.edu.sa	8966741
22	Manal Ahmed Hassan	Asst. Prof	mahasan@uod.edu.sa	8966666
23	Nazeh Al Shahat Al Fakarany	Asst. Prof	nelfakarany@uod.edu.sa	8966741
24	Wael Mohd Attia Ibrahim	Asst. Prof	wibrahim@uod.edu.sa	8966741
25	Seraj Abdulla Abu Alnaja	Asst. Prof	saabualnaja@uod.edu.sa	896666666-1303
26	Mohamed A. Husam Eddin	Asst. Prof	mhussameddin@uod.edu.sa	896666666-1303
27	Noor Ahmed Jatoi	Asst. Prof	najatoi@uod.edu.sa	31070

DEPARTMENT OF NEUROLOGY

	Name	Academic Rank	E-Mail	Office #
1	Fahd I. Al-Khamis Chairman	Asst. Prof	fkhamis@uod.edu.sa	32406
2	Hassan M. Ismail	Prof	hismail@uod.edu.sa	1095
3	Abdulsalam A. Al Sulaiman	Prof	asulaiman@uod.edu.sa	33080
4	Foziah Al Shamrani	Asst. Prof	fshamrani@uod.edu.sa	8966666- 2199
5	Zahoor Ahmed	Asst. Prof	zahmed@uod.edu.sa	2047-2048
6	Inam Khuda	Asst. Prof	ikhuda@uod.edu.sa	8966666

DEPARTMENT OF NEUROSURGERY

	Name	Academic Rank	E-Mail	Office #
1	Abdulrahman Al Anazi - Chairman	Prof	aanazi@uod.edu.sa	1600
2	Ahmed Sabry Ammar	Prof	asammar@uod.edu.sa	1601
3	Munir Jamil Nasser	Assc. Prof	mnasser@uod.edu.sa	1609
4	Hossam Aljehani	Asst. Prof	hjeahani@uod.edu.sa	1605
5	Wisam Al Issawi	Asst. Prof	wmalissawi@uod.edu.sa	1051

DEPARTMENT OF OBSTERICS and GYNECOLOGY

	Name	Academic Rank	E-Mail	Office #
1	Haifa Abdulaziz Al Turki - Chairperson	Assoc. Prof	haalturki@uod.edu.sa	1754
2	Turki Gasim Gasim	Assoc. Prof	tgasim@uod.edu.sa	1769
3	Abdulaziz Abdullah Al Mulhim	Prof	aamulhim@uod.edu.sa	1770
4	Fethia Ebrahim Al Jama	Assoc. Prof	fjama@uod.edu.sa	1761
5	Noura Hassan Al Qahtani	Assoc. Prof	nhqahtani@uod.edu.sa	1766
6	Ayman Abdulrahim Al Talib	Asst. Prof	aaaltalib@uod.edu.sa	8994246/6614
7	Ahlam Abdullah Al Ghamdi	Asst. Prof	aaghamdi@uod.edu.sa	1768
8	Yasmeen Akhtar Haseeb	Asst. Prof	yhaseeb@uod.edu.sa	1764

DEPARTMENT OF OPHTHALMOLOGY

	Name	Academic Rank	E-Mail	Office #
1	Khalid Mohd Al Arfaj - Chairman	Asst. Prof	kalarfaj@uod.edu.sa	1706
2	Jerman Moeid Al Qahtani	Asst. Prof	jmqahtani@uod.edu.sa	1707
3	Waseem M. Al Zamil	Asst. Prof	wmalzamil@uod.edu.sa	1714
4	Mohanna Yousef Al Jindan	Asst. Prof	myaljindan@uod.edu.sa	1710
5	Elham Ramadan Al Tamimi	Asst. Prof	etamimi@uod.edu.sa	1720
6	Sanaa Abdul Karim Yassin	Asst. Prof	syassin@uod.edu.sa	1719
7	Medhat Abdulaziz Bakr	Asst. Prof	msbakr@uod.edu.sa	1708
8	Abdulaziz Adel Al Rushood	Asst. Prof	aarushood@uod.edu.sa	1711
9	Abdullah Aoun Al Qahtani	Asst. Prof	aaokahtani@uod.edu.sa	1713
10	Ahmed Bilal Al Habash	Asst. Prof	ahabash@uod.edu.sa	1709
11	Reem Abdullah Al Abdulqadar	Asst. Prof	rabdulqader@uod.edu.sa	1717

DEPARTMENT OF ORTHOPEDIC SURGERY

	Name	Academic Rank	E-Mail	Office #
1	Dalal A. Bubshait - Chairperson	Assist. Prof	dbubshait@uod.edu.sa	1650
2	Sadat Mir Ali	Prof	smali@uod.edu.sa	1642
3	Abdullah Al Omran	Assc. Prof	aalomran@uod.edu.sa	1641
4	Ahmed Mohamed Tantawy	Assc. Prof	amtantawy@uod.edu.sa	1646
5	Abdulaziz Bahloul	Asst. Prof	abahloul@uod.edu.sa	1643
6	Mohammed Tawfik Al Bluwi	Assc. Prof	malbluwi@uod.edu.sa	1644
7	Dakheel F. Al Dakheel	Asst. Prof	daldakheel@uod.edu.sa	1651
8	Sulaiman Al Mousa	Asst. Prof	smousa@uod.edu.sa	1649
9	Abdullah A. Al Othman	Prof	aaalothman@uod.edu.sa	1645
10	Quamar Azam	Asst. Prof	mqazam@uod.edu.sa	1647
11	Ammar Khalid Al Omran	Asst. Prof	aomran@uod.edu.sa	1648

DEPARTMENT OF PEDIATRICS

	Name	Academic Rank	E-Mail	Office #
1	Mohammad Al Qahtani - Chairman	Asst. Prof	mqahtani@uod.edu.sa	1614
2	Khalid Al Umran	Prof	kumran@uod.edu.sa	1155
3	Amer Abdullah Lardhi	Prof	alardhi@uod.edu.sa	1618
4	Ibrahim Abdullah Al Mulhim	Prof	iaalmulhim@uod.edu.sa	1619
5	Waleed Albuali	Assoc. Prof	wbuali@uod.edu.sa	7930
6	Bassam Al Awary	Asst. Prof	bhawary@uod.edu.sa	1617
7	Hatim Al Turkistani	Asst. Prof	halturkistani@uod.edu.sa	1622
8	Abdullah A .Yousef	Asst. Prof	aaayousef@uod.edu.sa	1623
9	Mohammad Al Ghamdi	Asst. Prof	moalghemdi@uod.edu.sa	1621
10	Suzan Abdullah Ali Al Khater	Asst. Prof	saalkhater@uod.edu.sa	1812
11	Shams Al Turki	Asst. Prof	sabturky@uod.edu.sa	1810
12	Khaled Kamaledin	Asst. Prof	kmohamed@uod.edu.sa	1620

DEPARTMENT OF PSYCHIATRY

	Name	Academic Rank	E-Mail	Office #
1	Mahdi Saeed Abumadini - Chairman	Assoc. Prof	mmadini@uod.edu.sa	7930
2	Mona Al Saihati	Asst. Prof	msaihati@uod.edu.sa	1547
3	Ahmad Mustafa Abdulkarim	Asst. Prof	amoustafa@uod.edu.sa	1533
4	Sauod Saleh Sultan	Asst. Prof	Ssasultan@uod.edu.sa	1532
5	Saeed Wahass	Assoc. Prof	shwahass@uod.edu.sa	7940
6	Abdulbari Saleh Maan	Assoc. Prof	msaleh@uod.edu.sa	1530
7	Mohammad Saleh Khalil	Assoc. Prof	mkhalil@uod.edu.sa	1528
8	Abdelwahid Awadala	Asst. Prof	aahamed@uod.edu.sa	1531
9	Wafa Malik Ibrahim	Asst. Prof	whaydoob@uod.edu.sa	1545

DEPARTMENT OF RADIOLOGY

	Name	A/Rank	UOD E-Mail	Office #
1	Bander Fuhaid Al Dhafery - Chairman	Asst. Prof	baldhafery@uod.edu.sa	31371
2	Mohamed El Azzazi	Assoc. Prof	mazzazi@uod.edu.sa	31371
3	Fatma Al Mulhim	Prof	falmulhim@uod.edu.sa	32961
4	Abdullah Salman Al Mulhim	Asst. Prof	asalMulhim@uod.edu.sa	31371
5	Ibrahim Abobaker Ghanimi	Asst. Prof	ighanimi@uod.edu.sa	31371
6	Hind Saif Alsaif	Asst. Prof	hssaif@uod.edu.sa	2031
7	Abid Gullenpet	Asst. Prof	agullenpet@uod.edu.sa	2032
8	Afnan Fahd Al-Muhanna	Asst. Prof	amuhanna@uod.edu.sa	2101
9	Omran Salman Al Dandan	Asst. Prof	odandan@uod.edu.sa	31371

DEPARTMENT OF SURGERY

	Name	Academic Rank	E-Mail	Office #
1	Yasser Mahir Al Jehani - Chairman	Asst. Prof	yjehani@uod.edu.sa	1655
2	Mohammed Mahmoud Hegazi	Prof	mhegazi@uod.edu.sa	1657
3	Maha Sid Ahmed Abdelhadi	Prof	mhadi@uod.edu.sa	1655
4	Hussein Abu-Baker Fadaak	Assoc. Prof	hfadaak@uod.edu.sa	1658
5	Yasser Ahmed Farag Al Ghoneimy	Assoc. Prof	yfarag@uod.edu.sa	1674
6	Hazem Mohamed Zakaria	Assoc. Prof	hmmahmood@uod.edu.sa	1662
7	Mohammed Atif Elhag	Assoc. Prof	mhage@uod.edu.sa	1676
8	Abdalmohsen Abdullah Al Mulhim	Prof	abdmulhim@uod.edu.sa	1656
9	Hassan M. Al Al Bisher	Asst. Prof	hmalbisher@uod.edu.sa	1663
10	Akram Hameed Al Jahdali	Asst. Prof	ahaljahdali@uod.edu.sa	1672
11	Turki Al Taraiki	Asst. Prof	tturaiki@uod.edu.sa	1669
12	Hanan Mesfer Saad Al Ghamdi	Asst. Prof	hmalghamdi@uod.edu.sa	1139
13	Hussah Mohammed Al Buainain	Asst. Prof	halbuoanun@uod.edu.sa	1678
14	Khairi Ahmad Fahmy Hassan	Asst. Prof	khassan@uod.edu.sa	1661
15	Ayman Saad	Asst. Prof	asaid@uod.edu.sa	1665
16	Khaldoon Abdulbari Kassem Saleh	Asst. Prof	ksaleh@uod.edu.sa	1672
17	Mamoun Abdalla Yasseen Nabri	Asst. Prof	manabri@uod.edu.sa	1671
18	Nasser Mohammed Amer	Asst. Prof	Nmamer@uod.edu.sa	1667
19	Adel G Elbagir	Asst. Prof	ajosman@uod.edu.sa	896 6666
20	Tarig Ahmed Abdelhafiz	Asst. Prof	taabdelhafiz@uod.edu.sa	1680
21	Zeead Mastour Al Ghamdi	Asst. Prof	zghamdi@uod.edu.sa	896 6666

DEPARTMENT OF UROLOGY

	Name	Academic Rank	E-Mail	Office #
1	Khalid Matar Al Otaibi Chairman	Assoc. Prof	kotaibi@uod.edu.sa	1051
2	Ahmed El Sadr	Prof	aelsadr@uod.edu.sa	1051
3	Baher Kamal Al Damanhori	Prof	bkamal@uod.edu.sa	1051
4	Ali Ahmad Al Zahrani -	Asst. Prof	aalzahrani@uod.edu.sa	1051
5	Osamah AlSuwaian	Asst. Prof	osowayan@uod.edu.sa	1051
6	Hamed Al Darawany	Asst. Prof	hдарawany@uod.edu.sa	1051

————— Designed By —————

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