

Republic of Iraq Ministry Of Higher Education & Scientific Research Al-Mustaqbal University / College of Science

# **Introductory Guide of College of Science**

**Al-Mustaqbal University** 

Academic Year 2024 - 2025

Al-Mustaqbal University
Iraq, Babylon, Najaf – Hilla Road, Opposite to University of Babylon
Uomus.edu.iq

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#### **Speech of College Dean**

#### In the Name of God the Merciful

And say do deeds! Allah will see your deeds, and (so will) His Messenger and the Believers. And you will be brought back to the All-Knower of the unseen and the seen. Then He will inform you of what you used to do.

Great

Truth of God

College of Science has been established as a natural response to the Educational, Academic and Urban Renaissance witnessed by Al-Mustaqbal University, being constituted of several departments, namely Medical Physics Sciences, Biology, Biochemistry, Smart Medical Systems, Cybersecurity, Artificial Intelligence, and Medical Biotechnology.

Today, with the launch of a new Academic Year, we do hope to meet all requirements of Quality Education and Learning, adopting Modern Teaching Methods within the concepts of Academic Education, following up and developing the requirements of theoretical, practical, laboratory and applied curricula, with a view to achieving the required Cognitive, Emotional and Rehabilitative Objectives. We shall keep in mind as well Labor Market Indicators, being highly committed to Management I represented through solidarity, love, hard work and diligence in order to come up with high levels of Scientific Quality and Sobriety that will undoubtedly lead to establishing notable reputation among College Counterparts.

We do confirm that College of Science Deanship shall keep on implementing its plans, building bridges of cooperation with Scientific and Community Institutions and in all Scientific, Applied and Research Fields in the service of our honorable Iraqi Society, and thus, creating a Distinguished Scientific Edifice of our College, confirming its effective role at all aspects of Education, being one of the Leading Colleges within Al-Mustaqbal University among Local as well as Worldwide Universities.

We would like to note that our Bachelor Degree Programs have been designed in line with Similar Programs of Reputable Universities and Departments. We do ensure that Graduates of these Programs do own the necessary Work Skills. Indeed, some of them have been successfully hired at Public Institutions. Besides, our College Programs qualify Students to enroll at International Universities to complete their Higher Studies, and we have many successful examples in this field, seeking to develop them optimally.

Our Dear Students, the College Deanship has developed an Integrated Program, ensuring that our Education is quite effective with its qualitative outputs, keeping pace and meeting all requirements. In addition, the College is exerting all possible efforts to provide support and care to all Students, having full hope and confidence that this year shall be be a year of success, excelling at the level of Study Systems and Academic Performance. In conclusion, there is great hope for all of you to keep on achieving a real qualitative breakthrough at our Dear College and University within its Scientific and Societal Arena.

We do pray to God Almighty to protect you and your honorable families, to grant you Good Health and Lasting Wellness, and to bless our country with Goodness, Peace and Prosperity.

With my Sincere Regards

Assist Prof Dr. Furat Hamza Abid Kadhim

College of Science Dean

#### Introduction

College of Science at Al-Mustaqbal University is considered one of the most prominent Colleges, as it seeks to provide distinguished academic education in various scientific disciplines within a group of Modern and Advanced Programs. It comprises several specialized departments, including: Medical Physics, Cybersecurity, Artificial Intelligence, Smart Medical Systems, Bio-Chemical Sciences, Medical Bio-Technology and Biology. These Departments aim to prepare Highly Qualified Graduates capable of competing at Local and International Labor Markets, in addition to meeting the Society Needs for Scientific and Technical Competencies. Furthermore, the College is also distinguished by integrating Applied Issues with Academic Aspects through the provision of Advanced Educational Environment, relying on Modern Research & Technology. We are obliged to note as well that Students can join Postgraduate Programs, when and where available. Besides, the College aspires to enhance Academic Cooperation with Local and International Institutions in order to promote quality and expand horizons of Education and Scientific Research.

#### **Strategic Guideline**

#### 1. About the College

In recognition to the University Role in the qualification of Specialized Cadres in the various Science Fields, with the aim of reaching the highest levels of knowledge and advancement regarding both Individuals as well as Society, College of Science Spirit is manifested in its being a complement to Al-Mustaqbal University Mission & Objectives. The College therefore is serving the Iraqi Community, being in constant interaction with Developments in the Field of Knowledge, and its full concern about Innovative Minds and Transfer of Creative Ideas. The College indeed mainly focuses on Applied Fields, exerting all efforts to solve problems that might face Our Dear Country.

#### 2. College Vision

In its Vision, College of Science aspires to providing the Community as well as Educational Institutions with Scientific and Technical Cadres, in addition to Applied Research, being quite consistent with the Societal Needs.

#### 3. College Mission

College of Science aims to create Scientists and Technical Cadres who would be characterized with the Highest Scientific Levels in line with the accelerating movement of the wheel of Science in the World as well as the Local Needs through the development of Future Plans, promoting Strength Aspects and combating all types of Weaknesses.

#### 4. College Objectives

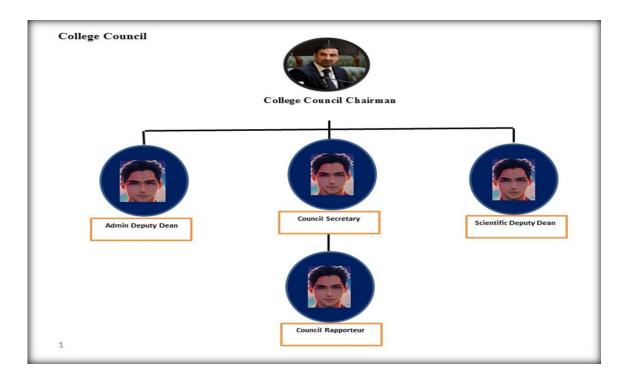
College Objectives can be summarized as follows:

- Reviewing Curricula of corresponding departments at reputable Universities for the purpose of conducting the required evaluations and appropriate treatments
- Increasing support to Primary Study Laboratories in order to ensure that Learners do acquire experiences that enable them to compete and obtain good opportunities at Labor Market

- 3. Opening Modern Scientific Laboratories and purchasing Advanced Equipment as per requirement and well-studied plans and evaluations. Thus, we do enable Researchers to solving problems in a more realistic manner.
- 4. Taking advantage of available Modern Technologies that can be used for Clarifications, Presentations, and other purposes, for the purpose of moving the Teaching Process towards Learning
- 5. Developing Scientific and Technical Cadres by exploiting all available capabilities and opportunities so as to raise their Academic Levels, as well as involving all Cadres, Teaching and Technical, Courses, Conferences, and workshops
- 6. Expanding Cultural and Scientific Relations by activating Scientific Twinning Agreements with Reputable Universities that have Specializations similar to those of our Scientific Departments
- 7. Providing Modern Scientific Resources in all available forms, Paper as well as Electronic
- 8. Establishing Research Partnerships with various Local Industrial and Commercial Institutions, in addition to Distinguished International Universities and Scientific Research Centers
- 9. Organizing Conferences, Seminars, Discussions, and Specialized Workshops that would contribute to stimulating Scientific Research

# **College Management**

# **College Council**



The College Council undertakes the following duties:

- 1. Proposing Admission Conditions as per Scientific Departments and to be taken for implementation after approval
- 2. Proposing number of Students who shall be admitted at the beginning of each Academic Year
- 3. Proposing plans for opening, merging, or canceling Scientific Departments

- 4. Approval of Scientific Departments Plans, which regard invitation of Visiting Professors
- 5. Suggesting Plans for writing, translating and publishing Scientific Research
- 6. Proposing a plan for the provision of Education Supplies
- 7. Proposal of College Curricula and any changes that might be taken with the aim of continuously strengthening the Scientific Status
- 8. Distribution of Curricula Courses, Units & Items over the Academic Years
- 9. Imposing Disciplinary Penalties on Students in accordance with the applicable Student Discipline Instructions
- 10. Proposing a Plan for Cultural and Scientific Relations with Public & Private Colleges and Universities inside and outside Iraq
- 11. Recommending grant of Academic Degrees to Graduates
- 12. Referring Academic Promotions of the Faculty Members to the Scientific Promotions Committee at Public Universities for the purpose of recommending promotion in preparation to submitting them to the University Council, after completing all required procedures

# College Council Dean Deputy Dean for Admin Affairs Deputy Dean for Scientific Affairs College Council Scientific Affairs Unit Dean Office IT Unit Admin Affairs Unit Secretariat Artistic, Sports & Scientific Promotions Quality Assurance & Alumni & Media Activities Unit & Support Unit Laboratories Unit Registration Affairs Scientific Departments **Medical Physics Biology Department** Department Smart Medical Systems Cyber Security Dept Department Artificial Intelligence **Forensic Science** Department Biomedical **Biochemical Sciences Biotechnology Sciences**

#### **College Departments**

College of Science includes 7 Scientific Departments, and they are as follows:

- 1. Medical Physics Department
- 2. Biology Department
- 3. Artificial Intelligence Department
- 4. Biochemistry Department
- 5. Smart Medical Systems Department
- 6. Biotechnology Department
- 7. Cyber Security Department

#### 1. Medical Physics Department

#### **About the Department**

The Department of Medical Physics was established in 2017 pursuant to the administrative order issued by the Ministry of Higher Education and Scientific Research No. T. 5/Aq/5030) dated on 24<sup>th</sup> of July,/2017. It is considered indeed one of the recent trends in the Specialty of Medical Physics.

Graduates of Preparatory Schools of biological & Applied Branches, in addition to those of Technical Institutes in the corresponding Specializations shall be admitted to the Department at an average grade to be determined annually by the Ministry. Study Duration is Four Years, after which the graduate shall be granted a Bachelor Degree in Medical Physics. Instruction Language is English.

#### **Department Vision**

In its Vision, Medical Physics Department aims to qualify Professionals, distinguished with theirs Skills and Expertise, meeting the needs of Labor Market as well as Scientific Institutions. Besides, the Department adopts Scientific Methods that keep pace and compete with Similar Departments at both Local and International Universities and in accordance with the Directives of the Ministry.

#### **Department Mission**

The Department is considered a new qualitative addition to the Field of Medical Physics, as it accurately follows and adopts Well-Recognized Methodologies, Distinguished Qualitative Research, Medical Laboratories, Experienced Academic Staff with High Scientific Degrees, equipped with the required Skills and Skills who would undoubtedly contribute to meeting Labor Market Needs.

#### **Department Objectives**

The Department aspires to qualifying and graduating a Cadre Specialized in the Field of Medical Physics who shall effectively provide Supportive Medical Services in the Field of Diagnosis and Treatment with High Quality, such as Medical Imaging through the use of X-Rays, Magnetic Resonance Imaging, Radiation Therapy, and other related Fields.

Besides, it contributes to the Development of Scientific and Health Research, opening New Horizons and Concepts in the area of Scientific Research.

# 2. Biology Department About the Department

Department of Biology was established in 2023, being one of the Departments of College of Science at Al-Mustaqbal University. It seeks to provide Students with the necessary Knowledge & Skills in the Field of Biology, enabling them to think critically and creatively, and motivating them to explore and understand biodiversity as well as vital processes at the level of Cells & Ecosystems. As a matter of fact, Biology Department is committed to creating Supportive & Stimulating Learning Environment that would encourage Students to get involved innovatively in Scientific Research, and Community Participation. We do aspire to graduate Generations of Experts in the Fields of Biology, being highly qualified to contribute to Society Progress and Nation Advancement through Research and Technological Innovation.

#### **Department Vision**

In its vision of the Department aims to achieve the highest levels of Academic Excellence in Teaching Biology, providing Students with deep and comprehensive understanding of Biological Concepts and Principles. Besides, we do encourage Research and Innovation in the Areas of Biology, enabling Students to acquire Research Skills, in addition to applying Theoretical Knowledge to Modern Challenges in the Field of Biology. After all, the Department seeks to building strong bridges with the Local and Industrial Community and promoting Environmental Awareness.

#### **Department Objectives**

Biology Department Objectives can be summarized as follows:

- Provision of distinct and diverse Study Programs in the fields of Biology that would meet the needs of Labor Market, and meanwhile enabling Students to excel academically and professionally
- Expansion of Students Scientific Horizons by adopting Advanced and Updated Educational Curricula, which include various specializations in Biology.
- Promoting Scientific Research & Innovation in the Fields of Biology, encouraging students to actively participate in Research Activities.
- Reinforcement of interaction & communication with Local and Industrial Community by conducting Workshops, Seminars, as well as Educational and Awareness-Raising Events in the Fields of Biology.
- Providing Students with Practical Skills and Modern Techniques in the Fields of Microbiology, Zoology, Mycology, Plant Sciences, Biotechnology, Cellular Genetics, and Ecology.
- Motivating Students for Critical and Innovative Thinking, in addition to developing Self-Research Projects.
- Provision of ongoing Academic Support & Counseling to Students in order to help them achieve their Academic and Career Goals.
- Encouraging Students to participate in the various Community Activities that would promote Skills of Leadership and Team Cooperation.

# 3. Artificial Intelligence Department About the Department

The Pioneering Vision of establishing a Department of Artificial Intelligence has come as a result of the great and rapid Developments in AI Science, in addition to its Vital Role in the Fourth Industrial Revolution. The Department shall effectively contribute to opening the doors of understanding and dealing with Artificial Intelligence Technologies, especially for Ambitious Students who owns a Future Vision in understanding Smart Digital World. The Department provides a Bachelor Degree Program in Artificial Intelligence, offering Advanced Educational Course, which qualify students to enter the World of Smart Systems, with a focus on deep understanding and effective interaction in the development of Smart Applications.

Artificial Intelligence Department is committed to providing a comprehensive and indepth Educational Experience for our Students. We pay Special Attention to Practical Training, out of our belief in the importance of qualifying Students who would properly meet Labor Market Needs. We do support this with Workshops and Training

Courses, organized and conducted at the University in cooperation with Specialized Companies.

However, achievement of the Department Goals depends on continuous interaction with developments in the field of artificial intelligence and motivating Students to achieve their creativity, using the Knowledge and Skills they acquire in their Graduation Projects, being an essential part of their Practical Applications. Finally, the Department is committed to continuous development in Artificial Intelligence and Data Science Technologies, and thus, creating a positive impact on Society, Industry and Labor Market by presenting Smart and Distinguished Scientific Achievements.

#### **Department Vision**

Department of Artificial Intelligence Sciences will be a pioneer in achieving excellence in the provision of Educational Curricula and implementation of Smart Systems at Local, Regional and International Levels. The Department strives to innovate and achieve Excellence in the Field of Artificial Intelligence, contributing effectively to the development of this Field at the Academic and Applied Levels, with the aim of serving Society and Labor Market in a Comprehensive and Effective Manner.

#### **Department Mission**

In its Mission, the Department aspires to qualifying Distinguished Graduates who would possess the knowledge and skills necessary to comprehensively understand and apply Artificial Intelligence Technologies. Our Graduates do have the ability to effectively deal with the Challenges and Opportunities related to this Advanced Field. We seek to motivate our Students to conduct Scientific, Theoretical and Applied Research, having a recognized role in the development of knowledge and innovation with their valuable contributions to the Advancement of Artificial Intelligence.

#### **Department Objectives**

The Department Objectives can be summarized as follows:

- Providing Educational Programs that would enable Students to acquire the Skills required for applying and Develop Artificial Intelligence Technologies;
- Building Partnerships with Industry and Research Institutions for the purpose of exchanging Knowledge and Expertise, and enhancing Cooperation in the field of Artificial Intelligence;
- Applying Artificial Intelligence Techniques and Concepts in order to solve Practical Problems and develop Smart Applications that serve and meet Labor Market Requirements; and
- Promoting and Developing Pioneering Projects conducted by Students as well as
  Faculty Members, with the aim of enhancing the Country's Progress in the
  promotion of Initiatives in the Field of Artificial Intelligence.

#### 4. Biochemistry Department

Department of Biochemistry focuses on teaching Basic Medical & Pure Sciences that are taught in many Colleges, such as Medicine, Dentistry, Pharmacy, Nursing, Pathological Analyses, and others that are concerned about diagnosis and treatment of patients. Our Department indeed is interested in teaching Metabolism of all Types of Nutrients, and how Energy is produced and stored within the body, in addition of being interested as well in teaching Chemical Foundations of many Diseases that result from Metabolic Imbalance or Lack of Nutrients, as well as Cancer, Aging, and so on. Furthermore, Biochemistry Department teaches how to diagnose and follow up patients through Biochemical Analyses in Blood and Urine. All these Courses are delivered theoretically and practically.

It should be noted after all that I am greatly honored to be the Head of such Distinguished Department, while we move ahead towards a New Era of Discovery in the Chemical Sciences. We are committed to providing High-Quality Education through an Academic Program integrated with Laboratory Experiences, and Cutting-Edge Research, and thus providing our Students the opportunity to develop their Academic & Research Skills in order to be capable of joining the Global Workforce, or to gain admission to Postgraduate Studies.

#### **Department Vision**

In its Vision, Biochemistry Department aspires to become a Recognized and Distinguished Unit in the Field of Biochemistry and Clinical Biochemistry in Babylon Governorate and in Iraq as a whole, through the provision of Excellent Educational Skills to Science and Medical Students.

#### **Department Mission**

In its Mission, the Department focuses on permanent work that leads to obtaining Knowledge and Modernity in the field of Scientific Subject Matter, through the use of Special Educational & Electronic Methods in Teaching and Training, overcoming all various difficulties that might face Students during their Educational Journey, and meanwhile keeping pace with the Scientific Revolution being witnessed by the whole World. We do list below the main functions conducted by Biochemistry Department:

1. Teaching Biochemistry and Clinical Biochemistry to Undergraduate Students

- 2. Participation of Department Members in Research as well as Advisory Work to other Departments at the College of Science
- 3. Biochemistry Department is involved in Research Activities that would contribute to solving Common Health Problems in our Regions, and providing Biochemical Knowledge that would enhance these types of Research in Babylon and Iraq in general.

#### **Department Objectives**

Biochemistry Department Students are provided with sufficient information related to identification of Chemical Compounds, and enabling them to understand the Vital Activities taking place inside the Human Body at the Molecular Level, being conducted with Practical Lessons and demonstrative Methods used in diagnosing certain diseases. However, main objectives can be summarized as follows:

- 1. Provision of Laboratory Supplies, as well as other equipment required for Teaching and Training Students, and conducting Experiments as prescribed at the Curriculum.
- 2. Organizing Seminars for Teachers and Teaching Assistants, with the aim of promoting their performance in teaching students, as well as for the purpose of identifying the most important scientific developments in various specializations.
- 3. Urging Department Teachers to keep on doing Scientific Research and Publishing them in Reputable Journals or participating in Scientific Conferences.
- 4. Preparing Advanced and Specialized Cadres in the Field of Clinical Biochemistry by granting them Master and Doctoral Degrees in this Specialty

#### 5. Smart Medical Systems Department

Smart Medical Systems Department aspires to be highly distinguished at Local and International Levels in the Fields of Health Systems and scientific Research, meanwhile meeting the needs of Government Institutions as wells those of Labor Market, with the aim of improving Health Care Quality, and promoting Medical Digital Software. Moreover, Smart Medical Systems Department offers New Specialization at Iraqi Universities, which links Information Technology with Bioinformatics through the use of Artificial Intelligence Systems & Technologies.

#### **Department Vision**

In its Vision, Smart Medical Systems Department aims to create Leadership & Excellence through the preparation of Comprehensive Smart Software Solutions that would transform Health Care Delivery via the achievement of Effective Integration between Technology, which includes Informatics as well as Artificial Intelligence and Medical Fields so as to improve Public Health, Medicine, and Patient Well-Being, in addition to increasing the Efficiency of Health Care Providers.

#### **Department Mission**

In its Mission, Smart Medical Systems Department aims to qualify Highly Skilled Graduates who could integrate Smart Technology with the Field of Health Care in order to support Professionals to come up with appropriate decisions, and thus improving Health Condition of Patients. As a matter of fact, integration of Patient Data with Artificial Intelligence analyses would undoubtedly lead to accurate diagnosis and effective treatment in Smart Health Environment, or what we may call a Smart Hospital.

#### **Department Objectives**

Smart Medical Systems Department aspires to build up Human Capabilities in the following areas:

- 1. Use of Smart Medical Technologies & Systems that would enable its Graduates to effectively compete at Labor Market.
- 2. Design of Medical Programs related to Health System
- 3. Collecting and analysing Medical Data that would be quite useful in the Field of Scientific Research.
- 4. Strengthening Cooperation with Interested Sectors whether inside or outside Iraq.
- 5. Promoting Student's Personality through permanent process of instilling Moral and Humanitarian Values as well as National Spirit, being trained at the same time to be Leaders committed to Quality and Professional Behaviour and capable of solving all types of problems that might arise during work.

### 6. Biotechnology Department

#### **About the Department**

Department of Medical Biotechnology was established in 2023 as one of the departments of College of Science at Al-Mustaqbal University, which is known

for its Excellence in Health Care, Medical Education, and Sustainable Development.

It should be noted however that Medical Biotechnology Department is deemed as a Leading Institution, working to promote Biotechnology in the Medical Field. It mainly aims to combine Multidisciplinary Perspectives, Reinforcement of Distinguished Research, and promotion of Innovative Teaching Methods so as to achieve Excellence in the Field of Medical Biotechnology. Furthermore, the Department aspires to create a Stimulating Environment that encourages Creativity, supports Scientific Discovery, and produces Highly Skilled Specialists who would be able to confront current and future Health Care Challenges.

#### **Department Vision**

Due to expansion of knowledge regarding the Cell and its function at the Molecular Level, Biotechnologists have turned to searching for appropriate solutions that would prevent Life-Threatening Diseases, and meeting the Energy and Food Requirements of an ever-increasing population, in addition to solving Environmental Problems that might threaten our very Existence on Earth. Biotechnology has therefore emerged as a Major Force, not only in industrial terms, but also as a system in which Frontier Fields of Biology are integrated so as to improve Human Life Quality. We may admit indeed that it is a challenging and exciting time for Biotechnology Field to achieve the aforementioned goals. Accordingly, Department of Medical Biotechnology has been created, being one of the modern trends in Iraq.

The Department Vision therefore focuses on qualifying Competent Specialists in the Field of Biotechnology who could employ distinct processes and applications that would profoundly impact the Current Model prevailing in Medical, Therapeutic, Industrial and Healthcare Fields, providing a Sustainable Competitive Advantage to the Society, as well as instilling New Ideas among young people that emerge in the Eras of Biotechnology.

#### **Department Mission**

Medical Biotechnology Department Mission can be summarized as follows:

- 1. Qualifying Scientific Cadres that are capable of using biotechnology to meet the needs of diverse Job Opportunities in the different Institutions, Ministries and Research Centers
- 2. Teaching & Implanting Bioethics and Biosafety in the Sciences of Biotechnology.
- 3. Creating and Promoting the Spirit of Innovation and Creativity among Young People so as to own appropriate Research Abilities.

#### **Department Objectives**

Medical Biotechnology Department Objectives can be summarized as follows:

- Implementation of Theoretical and Practical Courses as well as the Curricula developed by the Ministry of Higher Education and Scientific Research
- 2. Qualifying Cadres in the Field of Medical Biotechnology who could effectively work and support Industrial and Medical Institutions of both Public and Private Sectors, and thus providing Scientific and Advisory Services, in addition to being able to complete their Postgraduate Studies
- 3. Provision of Modern Laboratory Equipment & Materials at Research Laboratories
- 4. Organizing Academic Courses, Seminars and Scientific Workshops in the Field of Medical Biotechnology for the benefit of Students and Researchers.
- 5. Developing Products of Industrial and Medical Importance, as well as at the Level of Diagnosis & Quality Control through the use of Biotechnology
- 6. Creating Specialized Competencies in the Field of Biotechnology so as to provide the required aid in the face of New Challenges
- Provision of Scientific and Technical Consultations at both Private & Mixed Sectors due to the importance of this Modern Specialty in Iraq and the world

#### 7. Cyber Security Department

#### **About the Department**

Cybersecurity Department / College of Science at Al-Mustaqbal University is concerned about training and educating Students in the Field of Cybersecurity. In other words, it aims to provide Students with Knowledge & Skills that are necessary for the protection of Computer Systems and networks against increasing Cyber Threats. Study Programs of the Department comprise a variety of Educational Subjects, including Assessment of Cyber Risks, development of Security Policies, Detection of Threats, Countering Cyber Attacks, Implementation of Protection Techniques, and Community Education of Cyber Security.

#### The Department Vision

In its Vision, Cybersecurity Department seeks to provide Students with in-depth knowledge and practical experiences in the Fields of Information and Cybersecurity, linking this Knowledge to the increasing demands of Labor Market, by offering Study Programs, which integrate Advanced Theories with Modern Technologies used in the Fields of Digital Security. Besides, the Department aims to graduate generations of experts who possess all required skills to deal with complicated Cyber Challenges, and thus having a vital role in the process of securing Institutions and protecting data and systems against increasing and sophisticated threats on the Internet.

#### The Department Mission

In its Mission, Cybersecurity Department focuses on creating a Distinguished Educational and Research Environment, where Students shall have the opportunity to acquire the Knowledge and Skills that are necessary to identify and combat Cyber Threats effectively, in addition to contributing to the Development of Innovative Security Solutions. As a matter of fact, we do strive to provide Students with what they need of Technical and Leadership Capabilities that would enable them to achieve excellence in the Field of Cyber Security, and meanwhile establishing Safe and Sustainable Digital Environment.

#### The Department Objectives

The Department Objectives can be summarized as follows:

- Preparation of qualified and skilled graduates in the Field of Cybersecurity, being capable of dealing with Technical Developments and Digital Threats.
- Development of Original and Effective Research in the Field of Cybersecurity.

- Encouragement of Interaction and exchange of Knowledge and Experiences with Local, Regional and International Institutions in all Educational Aspects related to Cybersecurity.
- Provision of Consulting Services, Workshops, Seminars, and Competitions that would increase awareness and preparedness for Cybersecurity among Community Members

#### 8 - Forensic Science

#### **About the Department**

The Department of Forensic Evidence is a branch of forensic science that specializes .in collecting and analyzing evidence that is used in criminal investigations

in criminal investigations. This department aims to provide scientific evidence that supports or denies the existence of a crime

which helps clarify the facts before the judicial authorities.

#### **Department vision**

Preparing a specialized cadre with high efficiency in the fields of crime investigation, criminal investigations, fingerprinting, collecting and dealing with evidence and achieving justice through the use of scientific evidence and forensic medicine to uncover the facts to provide accurate results in criminal cases.

#### Mission of the department

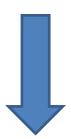
Preserving evidence at the crime scene, taking samples from the crime scene, documenting evidence, learning how to deal with modern equipment and techniques, supporting courts and prosecutors for the facts, and providing scientific and technical support to legal and judicial institutions by analyzing criminal evidence using accurate and advanced scientific methods.

#### Objectives of the department

Graduating specialized cadres in the field of crime investigation and criminal investigations by teaching them to take fingerprints and use equipment for criminal photography, methods of examining forged currencies and official documents, identifying methods of investigating poisons and drugs and writing reports on this and familiarizing them with the information related to explosives and their types and the method of extinguishing fires with knowledge of the first principles of first aid and its application, and equipping its students with scientific techniques in the use of devices and equipment that can be used in their theoretical and applied studies. And provide state institutions (defense, interior, health and health) with cadres to work in this field.

# **Study System, Duration and Language**

#	Department	Department Study System		Language
1.	Medical Physics  Department	Courses System	Four Years	English
2.	Biology Department	Courses System	Four Years	English
3.	Artificial Intelligence Department	Courses System	Four Years	English
4.	Biochemistry Department	Courses System	Four Years	English
5.	Smart Medical Systems Department	Courses System	Four Years	English
6.	Biotechnology Department	Courses System	Four Years	English
7.	Cyber Security Department	Courses System	Four Years	English



# **Tuition Fees**

#	Department	Tuition Fees / Iraqi Dinar

1.	Medical Physics Department	2,250,000
2.	Biology Department	2,250,000
3.	Artificial Intelligence Department	2,250,000
4.	Biochemistry Department	2,250,000
5.	Smart Medical Systems Department	2,250,000
6.	Biotechnology Department	2,250,000
7.	Cyber Security Department	2,250,000

# **Summer Training Mechanism**

# **Medical Physics Department**

Summer training is a requirement to move from Third to Fourth Year, and it is conducted at Health Centers and Hospitals throughout Babylon and the other Governorates, being assigned as per Students Residence. A supervisor shall be appointed by the Department to follow up Students Attendance and Performance at the Training Location.



Names of Quality Committee, Academic Title, Certificate & Specialization

#	# Name		Title	Degree	Specialization	
1.	Ms.	Nidaa	Fadhil	Assistant	Master	Biology

	Aziz	Teacher		
2.	Mr. Ahmed Adnan	Assistant	Master	Information
		Teacher		Technology
3.	Ms. Sarah Hamid	Teaching	Bachelor	Physics
	Daneh	Assistant		

## **Duties of Quality Assurance & University Performance**

- 1. Updating and amending the Organizational Structure of the Unit that has to be approved by the College Council;
- 2. Attending the College Council Meetings and submitting Quality Assurance Unit Activities so as to evaluate its performance;
- 3. A Monthly Meeting is convened to the College Unit Board of Directors so as to discuss what has been achieved of the College Executive Plan;
- 4. Organizing Seminars or Workshops on regarding Quality Standards of the Teaching Process, Books, Notes, Exams, and others for the purpose of promoting Quality Assurance Level at the College;
- 5. Preparing a Monthly Report concerning the Unit Activities and submitting it to Quality Assurance & University Performance Evaluation Center;
- 6. Forming a Work Team in order to accomplish the College Quality Goals, and to be approved by the College Dean;
- 7. There should a Quality Member at each Exam Control whose job is to write a report on the Exam Quality;
- 8. Reviewing the Functional Structures so as to determine the needs to Faculty Members and Staff;
- 9. Discussing Development Projects within the College Council and encouraging Departments to contracting;
- 10. Preparing, printing and distributing the Charter of Professional Ethics, as well as Intellectual Property Rights Guide;
- 11.Preparing a Monthly Report on what has been implemented of the Executive Plan of the Quality Assurance and University

- Performance Unit at the College that has to be submitted to Quality Assurance and University Performance Center;
- 12.Preparing a Report regarding the Seminars and Workshops that have been organized by the Quality Assurance & University Performance Unit, and submitting a copy of this report to the Quality Assurance and University Performance Center;
- 13.Prepare a Report regarding the Measures taken by the Quality Assurance and University Performance Unit that aim to promoting Professional Ethics of Faculty Members, Technicians, and Administrators, in addition to Students Activities, University Books, Community Participation, Examinations, Scientific Research, Intellectual Property Rights, as well as all Students Rights, with a copy of this report has to submitted to the Quality Assurance and University Performance Center;
- 14.Preparing a Periodic Report at the end of each Academic Year regarding the College Quality Level of Performance, with a copy of this report has to submitted to the Quality Assurance and University Performance Center; and
- 15. Following up and recording the topics raised at the Department Councils as well as the College Council, which concern level of quality achieved.

# The College Agreements

- 1. Twining and Joint Cooperation Agreement between University of Technology & Al-Mustaqbal University
- 2. Twining and Joint Cooperation Agreement between Medical Physics Department / College of Science / Al-Qadisiya University and Medical Physics Department / College of Science / Al-Mustaqbal University

## Communication Mechanism with the College

Official Electronic E-Mail:

admin@uomus.edu.iq