University of Information Technology and Communications

جامعة تكنولوجيا المعلومات والاتصالات

Seven Cycle – Bachelor's degree (B.Sc.) – Media Technology and Communications Engineering

بكالوريوس علوم - هندسة تكنولوجيا الاعلام والاتصالات

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1. Mission & Vision Statement

Vision Statement

The Department of Media Technology and Communications Engineering aspires to be a leading academic department at the local and regional levels, delivering innovative academic programs in the fields of communications and media technology. The department seeks to align its programs with labor market needs and achieve excellence in education, training, and applied research.

Mission Statement

The Department of Media Technology and Communications Engineering seeks to provide students with fundamental knowledge in media technology and communications engineering, along with an advanced understanding in areas such as digital broadcasting, multimedia systems, and network communications.

The curriculum and academic guidance are designed to prepare graduates for their professional careers, whether they choose to work in fields such as digital media production, studio technologies, broadcasting, and network infrastructure, or to pursue further studies in media and communication engineering.

The department also supports related university programs that require technical expertise in media and communications technologies. In addition, its courses provide essential laboratory and practical experiences, equipping students with the necessary technical and creative skills to meet the evolving needs of the media and communications sectors across public and private industries.

Program Specification .2

Programme code:	BSc-MTCE2	**ECTS**	240
Duration:	4 years (8 semesters)	**Method of Attendance:**	Full Time

Program Name: Media Technology and Communications Engineering 2

Degree Offered: Bachelor of Science (BSc) in Media Technology and Communications Engineering

Media Technology and Communications Engineering is an integrated discipline that combines communications engineering and media technologies to address the growing demand for skilled professionals in digital media, broadcasting, and modern communication systems. The degree program equips students with a broad technical foundation and specialized knowledge to meet the evolving requirements of both the public and private sectors in the media and communications industries.

Level 1 introduces students to the core scientific and engineering principles necessary for the field. Students develop foundational knowledge in computer systems, electrical circuits, audio technologies, engineering drawing, electronics physics, and communication law. This level emphasizes technical fundamentals alongside communication skills, providing the essential base for advanced studies.

Level 2 builds on these basics with further studies in electronics, web design, electromagnetic fields, digital systems, and video technologies. Students begin applying their knowledge through hands-on lab sessions and explore the intersection of engineering and media production processes.

Level 3 focuses on advanced topics including digital communications, computer networks, embedded systems, antennas, microprocessors, and media graphics design. Students gain practical skills in media system integration and network infrastructure. A mandatory four-week summer internship, undertaken after completing Level 3, gives students real-world exposure in governmental and private media and communications organizations such as the Communications and Media Commission.

Level 4 emphasizes applied learning and independent problem-solving. Students complete a two-semester graduation project (8 ECTS credits total) where they design, implement, and test a practical media or communication solution. The curriculum includes advanced modules in mobile broadcasting, studio technologies, Internet of Things, wireless communications, and satellite systems, preparing graduates for dynamic industry roles.

Throughout the program, students follow a clearly structured academic path without elective specializations, reflecting the department's focused approach on the interdisciplinary integration of media technology and communications engineering.

Graduates are prepared for careers in broadcasting, media production, network engineering, and studio technologies, with the technical and creative skills to operate and maintain modern media systems. The department works closely with government agencies and private sector partners to ensure that the curriculum aligns with industry standards and technological advancements.

Program Objectives .3

1. To prepare engineers specialized in digital broadcasting, multimedia systems, and network communications in line with digital advancements.
2. To develop students' skills in designing and implementing embedded systems and technical infrastructures for media and communications.
3. To enable students to work with network technologies and the Internet of Things while gaining insight into modern digital infrastructure concepts.
4. To prepare graduates to work effectively in multidisciplinary environments within the fields of communications and information technology.
5. To strengthen partnerships with telecommunications companies and technology institutions at the local and international levels.
6. To contribute to the advancement of knowledge through scientific publications and patents.

Student Learning Outcomes .4

1. Design and implement communication and broadcasting systems using modern digital technologies
2. Analyze audio and visual signals and work with satellite transmission and online broadcasting technologies
3. Operate and maintain media studios and live broadcasting systems
4. Produce media content and edit audio, video, and graphic designs
5. Use software tools to develop media applications and interactive digital content
6. Operate and maintain network infrastructure and embedded systems
7. Work with digital systems to support interactive media environments
8. Apply media ethics and address publishing and intellectual property issues

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Credits, Grading and GPA .6

Credits

University of Information Technology and Communications is following the Bologna Process with the European Credit Transfer System (ECTS) credit system. The total degree program number of ECTS is 240, 30 ECTS per semester. 1 ECTS is equivalent to 25 hrs student workload, including structured and unstructured workload.

Grading

Before the evaluation, the results are divided into two subgroups: pass and fail. Therefore, the results are independent of the students who failed a course. The grading system is defined as follows:

GRADING SCHEME مخطط الدرجات				
Group	**Grade**	التقدير	**Marks (%)**	**Definition**
Success Group (50 - 100)	A - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	FX – Fail	راسب - قيد المعالجة	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required
Note:				
Number Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.				

Calculation of the Cumulative Grade Point Average (CGPA)

The CGPA is calculated by the summation of each module score multiplied by its ECTS, all are divided by the program total ECTS.

CGPA of a 4-year B.Sc. degree:

$$CGPA = [\ (1^{st}\ \text{module score x ECTS}) + (2^{nd}\ \text{module score x ECTS}) + \ldots\ldots] / 240$$

Curriculum/Modules .7

Level 1:

Semester 1 | 30 ECTS | 1 ECTS = 25 hrs

Module Code	Module Name in English	SSWL hr/sem	USSWL hr/sem	ECTS	Module Type	Prerequisite Module(s) Code
ITC000021	Computer I	47	28	3.00	B	
ITC000031	English Language I	32	18	2.00	B	
ITC200031	Electrical Circuits I	78	72	6.00	C	
ITC200040	Engineering Drawing	48	27	3.00	S	
ITC200011	Mathematics I	48	102	6.00	B	
ITC210020	Audio Technologies	63	62	5.00	C	
ITC210010	Electronics Physics	48	77	5.00	B	
Total		364	386	30.00		

Semester 2 | 30 ECTS | 1 ECTS = 25 hrs

Module Code	Module Name in English	SSWL hr/sem	USSWL hr/sem	ECTS	Module Type	Prerequisite Module(s) Code
ITC000041	Arabic Language I	32	18	2.00	B	
ITC000000	Democracy and Human Rights	32	18	2.00	B	
ITC200050	Computer Programming	78	72	6.00	C	
ITC200020	Digital Systems Design	78	72	6.00	C	
ITC200032	Electrical Circuits II	78	72	6.00	C	ITC200031
ITC200012	Mathematics II	48	77	5.00	B	ITC200011
ITC210030	Media laws and Ethics	33	42	3.00	S	

Total	379	371	30.00		

Level 2:

Semester 3 | 30 ECTS | 1 ECTS = 25 hrs

Module Code	Module Name in English	SSWL hr/sem	USSWL hr/sem	ECTS	Module Type	Prerequisite Module(s) Code
ITC000010	AL-Baath Regime Crimes in Iraq	32	18	2.00	B	
ITC200070	Electronics	78	72	6.00	C	ITC200032
ITC200061	Engineering Mathematics I	48	77	5.00	B	ITC200012
ITC200080	Statistics and Probability	48	27	3.00	B	ITC200012
ITC210040	Web Design	78	47	5.00	E	ITC200050
ITC210050	Electromagnetic Fields	33	67	4.00	C	ITC200012
ITC210060	Video Technologies	63	62	5.00	C	ITC210020
Total		380	370	30.00		

Semester 4 | 30 ECTS | 1 ECTS = 25 hrs

Module Code	Module Name in English	SSWL hr/sem	USSWL hr/sem	ECTS	Module Type	Prerequisite Module(s) Code
ITC000042	Arabic Language II	32	18	2.00	B	ITC000041
ITC000022	Computer II	47	28	3.00	B	ITC000021
ITC000032	English Language II	32	18	2.00	B	ITC000031
ITC200062	Engineering Mathematics II	48	102	6.00	B	ITC200061
ITC200100	Linear Algebra	48	52	4.00	B	ITC200012
ITC210070	Communications Fundamentals	78	97	7.00	C	ITC200061 + ITC200070
ITC200090	Digital Electronics	78	72	6.00	C	ITC200070

Total	363	387	30.00		

Level 3:

Semester 5 | 30 ECTS | 1 ECTS = 25 hrs

Module Code	Module Name in English	SSWL hr/sem	USSWL hr/sem	ECTS	Module Type	Prerequisite Module(s) Code
ITC200110	Numerical Analysis	48	52	4.00	B	ITC200100
ITC200121	Space Science I	48	52	4.00	E	
ITC210090	Antenna and Wave Propagation	78	97	7.00	C	ITC210070 + ITC210050
ITC210101	Computer Networks I	63	62	5.00	C	
ITC210110	Digital Communications	78	47	5.00	C	ITC210070
ITC210080	Microprocessors	63	62	5.00	C	ITC200020
Total		378	372	30.00		

Semester 6 | 30 ECTS | 1 ECTS = 25 hrs

Module Code	Module Name in English	SSWL hr/sem	USSWL hr/sem	ECTS	Module Type	Prerequisite Module(s) Code
ITC200122	Space Science II	48	52	4.00	E	ITC200121
ITC210140	Digital Signal Processing	33	67	4.00	C	ITC200062
ITC210102	Computer Networks II	63	87	6.00	C	ITC210101
ITC210120	Media Graphics Design	63	62	5.00	S	ITC210060
ITC210150	Information Theory and Coding	63	87	6.00	C	ITC210110 + ITC200080

ITC210170	Embedded Systems	78	47	5.00	E	ITC200090 + ITC200050
Total		348	402	30.00		

Level 4:

Semester 7 | 30 ECTS | 1 ECTS = 25 hrs

Module Code	Module Name in English	SSWL hr/sem	USSWL hr/sem	ECTS	Module Type	Prerequisite Module(s) Code
ITC200131	Graduation Project I	48	52	4.00	C	
ITC210160	Artificial Intelligence	63	62	5.00	E	ITC200080 + ITC200050
ITC210210	Computer Control	63	37	4.00	C	ITC200062
ITC210190	Mobile Broadcasting Systems	63	87	6.00	C	ITC210150
ITC210200	Mobile Applications Development	63	62	5.00	E	ITC210040
ITC210180	Satellite Communications	78	72	6.00	C	ITC210110
Total		378	372	30.00		

Semester 8 | 30 ECTS | 1 ECTS = 25 hrs

Module Code	Module Name in English	SSWL hr/sem	USSWL hr/sem	ECTS	Module Type	Prerequisite Module(s) Code
ITC200132	Graduation Project II	48	52	4.00	C	ITC200131
ITC210230	Internet of Things	63	62	5.00	E	ITC210170 + ITC210102

ITC210220	Optical Fiber Communications	63	62	5.00	C	ITC210090
ITC210250	Studio Technologies	63	62	5.00	S	ITC210120
ITC210130	Soft Computing	63	62	5.00	E	ITC210160
ITC210240	Wireless and Mobile Communications	78	72	6.00	C	ITC210140 + ITC210150
Total		378	372	30.00		

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