Ministry of Higher Education and Scientific Research Department of Scientific supervision and evaluation Department of Quality Assurance and Academic Accreditation



Academic Program Description Form for Colleges and Institutes

University Name: University of Information Technology and Communications **College/Institute Name**: College of Engineering **Scientific Department**: Media Technology and Communications Engineering **File filling date**: 04/21/2022

Signature: Name of department head: Date Signature: Name of the scientific assistant: Date

The file checked by:

Division of Quality Assurance and University Performance Name of the director of the Quality Assurance and University Performance Division: Date Signature

Authentication of the Dean

Description of the academic program

This academic program description provides a necessary summary of the most important characteristics of the program and the learning outcomes that the student is expected to achieve, demonstrating whether he or she has made the most of the available opportunities. It is accompanied by a description of each course within the program

1. Educational institution	University of information technology and communications
2. Scientific department / center	Media technology and communications engineering
3. Name of the academic or professional program	Bachelor's degree in engineering
4. Name of the final degree	Bachelor's degree in Media technology and communications
5. Academic system type: (annual /Courses /Other)	semester
6. Approved program accreditation	ABET
7. Other external influences	none
8. Date of preparation	04/21/2022

9. Goals the academic	
program	1- Preparing engineers specialized in
	the field of media and
	communications
	technology engineering who are able
	to compete in the labor market.
	2- Applying the latest technologies
	and methods in the educational and
	research process.
	3- Providing students with the
	necessary knowledge in the field of
	media and communications
	technology engineering.
	4. Deserve etc. la esta fa
	4- Prepare students for a variety of
	engineering careers in the field of
	information and communications
	technology engineering
	through innovative programs that
	integrate theoretical
	and practical experience
	5- Producing ethically responsible
	individuals who are highly competent
	in their fields of specialization and
	preparing them well to work
	effectively in a work team
	Working to prepare students who
	have the ability to self-learn in
	addition to a comprehensive
	understanding in the engineering.
	ethical, and social fields
	6- Producing ethically responsible
	individuals who are highly competent
	in their fields of specialization and
	n men news of specialization and preparing them well to work
	effectively in a work team
	Working to prepare students who
	have the ability to self learn in
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	addition to a comprehensive
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	cultural, allu social ficius

10. Required Outputs of the Program and Methods for Education, Learning and Evaluation

a. Cognitive Objectives:

1. Applying knowledge in the use of means of communication - media - networks - computers (a)

2. The ability to determine the appropriate method to address problems in the field of media technology engineering (b)

3. The ability to choose appropriate methods for analyzing and evaluating systems operating in the field of media and the programs necessary for implementation (c).

4. The ability to analyze the impact of computing on the performance of people, groups, institutions and society in general (g).

5. Determine the needs required to engage in the development process (h).

6. The ability to solve problems by designing appropriate algorithms (IT/l).

7. Understanding the best standards and procedures and their appropriate uses in the work environment (IT/m).

8. The ability to implement engineering projects according to quality standards (BI/o).

9. The ability to analyze systems design models within strategic plans for dynamic business environments (BI/p).

Teaching and learning Methods

1. Direct Education.

2. E-learning.

3. Self -Learning.

Evaluation Methods

1. Achievement Test.

2. standardized test.

3. Displaying students' individual skills

4. Choosing intellectual questions in the achievement test.

b. Skill Objectives of the Program

1. The ability to use modern techniques, devices and equipment in the field of media technology (i).

2. The ability to use basic and advanced technologies in the field of communications - media - networks - computers (IT/j)

3. The ability to apply the foundations of design and development to build software systems suitable for media applications (cs/k).

4. The ability to implement systems simulation programs (BI/q).

Teaching and Learning Methods

- 1. Direct method through lectures
- 2. The self-method is through preparing research papers and discussing them collectively -
- 3. E-Learning
- 4. Experiential education (applied education) field education

Evaluation Methods

- 1. Group project
- 2. Daily exam
- 3. Daily engagement
- 4. Monthly exam (annual quest)

C- Emotional and value goals.

1. The Ability to work effectively within a team to accomplish a specific task (d).

2. Understanding the ethics, laws, safety procedures, and social issues related to the professional specialty. (e).

3. The ability to communicate effectively with a group of listeners (f).

4. The Ability to actively participate and plan projects (IT/n).

Teaching and learning Methods

- Cooperative education (group learning) (students' awareness that they will pass together, or -. fail together)

- Indirect education (applying the entirety of acquired knowledge to solve a specific problem under the supervision of one of the professors)

Methods Evaluation

- **1**. Comprehensive questionnaire
- 2. Group project
- 3. Daily exam
- 4. Daily participation

D- Transferable general and qualifying skills (other skills related to employability .and personal development)

- .1. The desire and ability to learn lifelong
- .2. The ability to communicate with different specializations
- .3. The ability to solve problems
- .4. The ability to communicate well with his peers in the work environment

Teaching and learning methods

- Brainstorming

- E-Learning
- Self-learning (acquiring knowledge and skills based on one's own abilities
- Experimental education (applied education) Field education

- Indirect education (applying the entirety of acquired knowledge to solve a

.specific problem under the supervision of one of the professors)

Evaluation methods

- 1. Rubrics-Peer faculty evaluation.
- 2. Group project.
- 3. A project focused on selecting a random group of students.
- 4. Presentation of students' performance.
- 5. Standardized testing.
- 6. Conduct an experience and professionalism test

the message

- The department seeks to graduate the best engineering competencies with high skills that have the ability to keep pace with scientific development in the field of media, communications and information technology engineering.

- Effective contribution to bridging the gap between educational outcomes and labor (job) market requirements.

- Enhancing the student's personality by instilling moral and humanitarian values and the national spirit.

- Keeping pace with technological development in various scientific and industrial fields such as satellites, communications networks, information technology...etc.

Objectives

- Transferring knowledge to the student in a solid academic manner that enables her/him to find appropriate solutions to problems through analyzing them, collecting data, and defining requirements.

- Paying attention to field training.

- Providing the communications and media sector with qualified engineers to compete in the local and global labor market.

- Designing and conducting experiments, research and scientific studies, and activating the principle of teamwork.

- Keeping pace with updating the curriculum to ensure the quality of education and scientific soundness.

- Providing continuing education opportunities to develop cadres and pursue postgraduate studies.

- Strengthening cooperation with educational and research institutions at home and abroad.

- Providing engineering consulting services to government institutions and the private sector.

Name of the material in Arabic	Name of the material in English	Material symbol	Number of units	Semester	Stage	Maximum score of quest
الرياضيات (1)	Mathematics I	MAT 2110	3	the first	The first	40
تصميم النظم الرقمية (1)	Digital System Design I	MTE 2111	3	the first	The first	50
تحليل الدوائر الكهربائية (1)	Electrical Circuits Analysis I	MTE 2112	3	the first	The first	50
البرمجة بلغة ++C (1)	Programming with C++ I	PRL 2113	3	the first	The first	50
الرسم الهندسيي	Engineering Drawing	DRW 2114	1	the first	The first	50
حقوق الانسان	Human Rights	HRS 2115	1	the first	The first	40
اللغة الانكليزية (1)	English Language I	ENL 2116	2	the first	The first	40
اللغة العربية	Arabic Language	ARL2117	2	the first	The first	40
الرياضيات (2)	Mathematics II	MAT 2120	3	the second	The first	40
تصميم النظم الرقمية (2)	Digital System Design II	MTE 2121	3	the second	The first	50
تحليل الدوائر الكهربائية (2)	Electrical Circuits Analysis II	MTE 2122	3	the second	The first	50
البرمجة بلغة ++C (2)	C++ Programming Language II	PRL 2123	3	the second	The first	50
تقنيات الصوت	Sound and Audio Technology	MTE 2124	3	the second	The first	50
الديمقراطية والحرية	Freedom & Democracy	FRD 2125	1	the second	The first	40
اللغة الانكليزية (2)	English Language II	ENL 2126	2	the second	The first	40

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اساسيات الحاسوب	Computer Fundamentals	MTE 2127	2	the second	The first	40
الرياضيات الهندسية (1)	Engineering Mathematics I	MAT 2210	3	the first	the second	40
الالكترونيك (1)	Electronics I	MTE 2211	3	the first	the second	50
تقنية الفديو والفلم (1)	Film and Video Technology I	MTE 2212	3	the first	the second	50
البرمجة الشيئية (1)	Object oriented programming I	PRL 2213	3	the first	the second	50
شبكات الحاسوب	Computer Networks	MTE 2214	4	the first	the second	50
المجالات الكهرومغناطيسية	Electromagneti c Fields	MTE 2215	2	the first	the second	50
المعالجات	Microprocesso rs	MTE 2226	3	the second	the second	50
الرياضيات الهندسية (2)	Engineering Mathematics II	MAT2220	3	the second	the second	40
الالكترونيك (2)	Electronics II	MTE 2221	3	the second	the second	50
تقنية الفديو والفلم (2)	Film and Video Technology II	MTE 2222	3	the first	the second	50
البرمجة الشيئية (2)	Object Oriented programming II	PRL 2223	3	the first	the second	50
أنظمة السيطرة	Control Systems	MTE 2224	3	the first	the second	50
الاحتماليات والاحصاء	Statistics and Probability	STP 2225	3	the second	the second	40
أخلاقيات وقوانين الاعلام	Media Laws and Ethics	ETH 2226	2	the second	the second	40
الانظمة المظمنة (1)	Embedded Systems I	MTE 2310	3	the first	Third	50
أساسيات الاتصالات	Communicatio n fundamentals	MTE 2311	4	the first	Third	50
معالجة الاشارة الرقمية	Digital Signal Processing	MTE 2312	2	the first	Third	40
هندسة الويب	Web Engineering	WEB 2313	3	the first	Third	50
الواقع الافتراضي	Virtual Reality	VIR 2314	3	the first	Third	50

	Information		1		I	
الترميز ونظرية المعلومات	Theory & Coding	MTE 2315	3	the first	Third	50
الهوائيات وانتشار الموجات	Wave Propagation and Antenna	MTE 2316	3	the first	Third	50
الانظمة المظمنة (2)	Embedded System II	MTE 2320	3	the second	Third	50
الاتصالات الرقمية	Digital Communicatio ns	MTE 2321	4	the second	Third	50
معالجة الصورة الرقمية	Digital Image Processing	MTE 2322	3	the second		50
أنظمة الوسائط المتعددة	Multimedia Systems	MTE 2323	2	the second	Third	40
التفاعل بين الإنسان والحاسوب	Human Computer Interaction	HCI 2324	3	the second	Third	50
بروتوكولات شبكات الحاسوب	Computer Networks Protocols	MTE 2325	4	the second	Third	50
المونتاج والتأثيرات الرقمية	Editing and digital effects	MTE 2326	3	the second	Third	50
مشروع سنة التخرج (1)	Project I	PRJ 2410	2	the first	Fourth	20
الاتصالات عبر الاقمار الصناعية	Satellite Communicatio ns	MTE 2411	3	the first	Fourth	50
الاتصالات المتنقلة واللاسلكية	Wireless and Mobile Communicatio ns	MTE 2412	3	the first	Fourth	50
ادارة شبكات الحاسوب	Computer Networks Administration	MTE 2413	3	the first	Fourth	50
الحوسبة السحابية	Cloud computing	MTE 2414	3	the first	Fourth	50
ادارة المشاريع (1)	Project Management I	PMT 2415	3	the first	Fourth	50
مشروع سنة التخرج (2)	Project II	PRJ 2420	3	the second	Fourth	20
هندسة أنظمة البث	Broadcast Systems Engineering	MTE 2421	3	the second	Fourth	50

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تحمد والأخرار عبر	SNG Satellite					
الذقيل المدناء ف	News	MTE 2422	3	the second	Fourth	50
الرقمار الصناعية	Gathering					
أيتنا المنتعة	Information	NATE 2422	2	the second	Fourth	50
الملية البيانات	Security	IVITE 2425	5	the second	Fourth	50
تكنولوجيا وسائل	Social Media		2	the second	Fourth	50
التواصل الاجتماعي	Technology	IVI I E 2424	5	the second	FOULU	50
	Project					
ادارة المشاريع (2)	Management	PMT 2425	3	the second	Fourth	50
	11*					

- 11. Planning for personal development
- 1- Work in one team
- 2- Teaching others
- 3- Lead a team
- 4- Negotiation
- 5- Unifying the team in light of cultural differences
- 6- Employing decision-making skills
- 7- Employing problem-solving skills
- 8- Dealing with others
- 9- Neutralize arguments with timing, instructions, politeness, and concise language

12. Admission standard (setting regulations related to admission to the college or institute)

Central admission.

13. The most important sources of information about the program www.uoitc.edu.iq

<u>Learning outcomes for computing programs according to /CAC ABET</u> <u>standards</u>

a- The ability to apply knowledge of computers and their communication methods that are appropriate and necessary for the outcomes of the program and specialization.

b- The ability to analyze problems and identify and define the computer requirements required for the solution.

c- The ability to design, implement and evaluate computer systems and conduct the necessary programs for implementation.

d- The ability to work effectively within a team to accomplish a specific task.

e- Understanding the ethics, laws, safety procedures, and social issues related to the professional specialty.

f- The ability to communicate effectively within a group of listeners.

g- The ability to analyze the impact of computing on the performance of people, groups, institutions, and society in general.

h- Determine the needs necessary to engage in the development process.

i- The ability to use available techniques, skills and tools necessary to design computer systems.

computer Sciences CS

j- The ability to apply mathematical foundations, algorithmic principles, and computer science theory in modeling and designing computer systems, including the best available options.

k- The ability to apply the foundations of design and development to build appropriate software systems.

Information systems IS

j- Understanding the procedures that support the process of organizing and communicating information systems within the specific environment.

Information technology IT

j- The ability to use basic information systems techniques.

k- The ability to identify and analyze the needs of beneficiaries and take them into account in selecting, creating, evaluating and managing computer systems.

1- The ability to solve beneficiaries' problems through information systems appropriate to the beneficiaries' environment.

m- Understanding the best standards and procedures and their appropriate uses in the work environment.

n- The ability to actively participate and plan projects.

Learning outcomes of the College of Engineering CE

o – The ability to implement and manage systems according to quality standards.

p- The ability to analyze quantitative business models within strategic plans for dynamic business environments.

q- The ability to implement the organization's E-process.

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		~				~		\checkmark		\checkmark	~	\checkmark							\checkmark	\checkmark	Basic	Antenna and Wave Propagation	MTE 2316	Third Year
																					Basic			(first course)

Curi	icul	lum	skil	s chart																				
Pleas	se cl	heck	the	boxes co	orresp	ondir	ng to t	he indiv	idual lea	rning ou	itcon	ies froi	n the pr	ogram s	ubject t	o eva	luati	on						
Lear	ninş	g ou	tcon	ies requi	ired fi	rom tl	he pro	ogram															1	
Geno qual trans skills skills empl and	eral fyir fera (ot rel oya pers	and able her ated bilit	l to y l	Emotion goals	nal an	ıd valı	ue	Skills o prograi	bjectives n	of the		Cogni	tive obje	ectives							Basic Or optiona l	Course Name	Course Code	Year/lev el
aeve Dr 1 4	lopr Dr 3	nen Dr 2) Dr 1	C.4(n/IT	C.3(f)	C.2(e)	C.1(d	B.4 (q/BI)	B.3(k/CS)	B.2(j/IT)	B.1 (i)	a.9(p/B	I a.8(o/BI	a.7(m/IT)	a.6(l/IT)	a.5(h)	a.4(g)							
				✓			/			√	~	✓			/			√	√	✓	Basic	Embedded Systems II	MTE 2320	Third Year
	<			\checkmark				✓	✓	✓	✓	\checkmark						√	√	✓	Basic	Digital Communications	MTE 2321	(Second course)
				\checkmark				√				✓						\checkmark	\checkmark	√	Basic	Digital Image Processing	MTE 2322	Third Year
								✓				✓						\checkmark	\checkmark	√	Basic	Multimedia Systems	MTE 2323	(Second course)
	~	~		~		√		~	~	~	~	~						~	~	~	Basic	Human Computer Interaction	HCI 2324	Third Year
	~			~			~	~		~	~	~						~	~	~	Basic	Computer Networks Protocols	MTE 2325	(Second course)
		✓				✓			✓	✓	✓	\checkmark						✓	✓	\checkmark	Basic	Editing and digital effects	MTE 2326	Third Year
																					Basic			(Second course)

Cu	Curriculum skills chart																							
Ple	Please check the boxes corresponding to the individual learning outcomes from the program subject to evaluation																							
Lea	irnin	g 01	utco	mes req	uired	d fror	n the	progra	ım													1		1
General and qualifying transferable skills (other skills related to employability and personal development) Dr., Dr., Dr., Dr.,			Emotic goals C.4(n/IT)	c.3(f)	al and value 3(f) C.2(e) C.1(d)		Skills objectives of the program B.4(q/BI) B.3(k/CS) B.2(j/IT) B.1(j			B.1(i)	Cognitive objectives						a.1(a)	Basic Or optiona l	Course Name	Course Code	Year/lev el			
\checkmark	\checkmark	\checkmark		\checkmark		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark			\checkmark			\checkmark	\checkmark	\checkmark	Basic	Project I	PRJ 2410	the
~						~			~	~	~	~						~	~	~	Basic	Satellite Communications	MTE 2411	fourth year (first course)
	~			~					~	~	~	~						~	~	~	Basic	Wireless and Mobile Communications	MTE 2412	the fourth
				~				~		~							~	~	~	~	Basic	Computer Networks Administration	MTE 2413	year (first course)
									~	√		✓					✓	✓		✓	Basic	Cloud computing	MTE 2414	the fourth
	~			~			~		~			~	~	~	~	~			~		Basic	Project Management I	PMT 2415	year (first course)
																					Basic			_
					1																Basic			

Cu	Curriculum skills chart																							
Ple	Please check the boxes corresponding to the individual learning outcomes from the program subject to evaluation																							
Lea	arnii	1g 01	utco	mes ree	quire	d fro	m the	e progra	am															
General and qualifying transferable skills (other skills related to employability and personal				Emotic goals	onal a	and v	alue	Skills objectives of the program				Cognitive objectives									Basic Or optiona l	Course Name	Course Code	Year/le vel
Dr 4	Dr 3	Dr 2	Dr 1	C.4(n/IT)	C.3(f)	C.2(e)	C.1(d)	B.4(q/BI)	B.3(k/CS)	B.2(j/IT)	B.1 (i))))	I a.8(o/BI)	[a.7(m/IT)	a.6(l/IT)	a.5(h)	a.4(g)	a.3(c)	a.2(b)	a.1(a)				
\checkmark	\checkmark	\checkmark		\checkmark		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark			\checkmark			✓	\checkmark	\checkmark	Basic	Project II	PRJ 2420	the
									~	~	~	~						~	~	√	Basic	Broadcast Systems Engineering	MTE 2421	fourth year (Second course)
✓						✓			✓	√	✓	\checkmark						√	✓	\checkmark	Basic	SNG Satellite News Gathering	MTE 2422	the fourth
				~					~	~							√	~		√	Basic	Information Security	MTE 2423	year (Second course)
				√					✓	√							✓	✓		\checkmark	Basic	Social Media Technology	MTE 2424	the fourth
	~			~			✓		~			\checkmark	~	✓	~	~		✓			Basic	Project Management II	PMT 2425	year (Second course)
																					Basic			
																					Basic			