# Faculty of Engineering and Information Technology

## Department of Information Technology

## Master of Information Technology Program

## Specification Document

**Preparation Committee Members:**

Professor Dr. Khalil Saeed Al-Wagih, Chairman

Assoc. Prof. Dr. Sharaf Abdulhak Alhomdy, Member

Asst. Prof. Dr. Anwar Saif Al-Shamiri, Member

Asst. Prof. Dr. Ibrahim Abdullah Alsurmi, Member

:

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# June-2020

| 1. Program Identification and General Information | |
|---|---|
| Program Title | Master of Information Technology Program |
| Awarding Institution | Emirates International University |
| Institution responsible for the program | -Department of Information Technology, Faculty of Engineering and IT.<br>-Deanship of Graduate Studies and Scientific Research |
| Program type | Single |
| Language of Instruction | English |
| Year of study in the program | 2020/2021 |
| Mode of delivery | Full time, minimum attendance 75%. |
| Teaching Institution | Department of Information Technology, Faculty of Engineering and IT. |
| System of study | Credit Hour System |
| Duration of study | Minimum Two years |
| Final Award/s available | Master Degree in information technology |
| Award title | Master of Information Technology |
| Prerequisite qualification for admission to the program | Bachelor Degree in computing or any related field |
| Average Grade for Joining the program | As per Regulations of the Ministry of Higher Education and Scientific Research. |
| Other requirements | According to the University Rules and Regulations. |
| Coordinator | Head of the Department |
| Prepared by | 1) Professor Dr. Khalil Saeed Al-Wagih,<br>2) Assoc. Prof. Dr. Sharaf Abdulhak Alhomdy<br>3) Asst. Prof. Dr. Anwar Saif Al-Shamiri<br>4) Asst. Prof. Dr. Ibrahim Abdullah Alsurmi |
| Last date of accreditation | **None** |

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## 2. Overview

The Master of Information Technology program is offered in response to the growing and increasing demands from Information Technology industry for graduates of Information Technology professionals, who are equipped with theoretical and practical experience to participate in developing the Information Technology sector. The program focuses on Information technology management, cybersecurity, and data science. The program is offered in two parts: course work and thesis. The course work requires 30 credit hours and the thesis requires 6 credit hours.

## 3. University Vision, Mission and Goals

### 3.1 University Vision

The Emirates International university (EIU-Yemen) aspires to be one of the nationally leading and regionally distinct universities.

### 3.2 University Mission

EIU Yemen seeks to Provide a distinguished education and research services That meet the needs of the National and regional labor Market through qualified Human Resources quality academic programs, scientific research directed to knowledge Production and applications and providing a supportive university environment and effective Community partnership.

### 3.3 University Goals

In order to achieve the vision and mission of the University, seven strategic goals have been set, representing a road map for the University for the next five years, namely.

**First orientation:** Improving governance and management systems, developing organizational Structure, promoting decentralization and adopting equality and transparency principles.

**Second orientation:** Expending infrastructure and Developing self resource .

**Third Orientation:** Improving the quality of academic programs to meet development needs.

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**Fourth orientation:** Enhancing the values of professional development and investing human resources on professional basis In accordance with the strategic framework of the University.

**Five orientation:** Developing a university environment conducive to teaching and learning with a view to achieve the professional competencies of the graduate .

**Sixth orientation :** Building and guiding Scientific research capacities based On planning that is linked to development goals.

**Seventh orientation:** Establishing a genuine and effective partnerships with the local community, other universities as well as the national and international Labor market.

## 4. Faculty Vision, Mission and Goals:

### 4.1 Faculty Vision

To achieve leadership and Excellence engineering and technological education that meets the needs of comprehensive development and competes locally and regionally

### 4.2 Faculty Mission

To Provide outstanding engineering And technological education that contributes to meeting the needs of local and regional labor markets and development requirements through qualified human resources , accredited academic programs scientific research directed at the production and applications of knowledge, a university environment conducive to creativity, cognitive innovation and effective community partnership.

### 4.3 Faculty Values

Quality, excellence, adherence to ethical and professional standards, institutional loyalty, teamwork, partnership.

### 4.4 Faculty Goals

1- Improving governance and management Systems and developing organizational structure in the faculty.

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2- Developing the Faculty's infrastructure in accordance with the standards of academic accreditation, with a view to achieve the Faculty's vision, mission and strategic goals.
3- Continuous improvement in the quality of academic programs to meet development needs

4- Promoting the values of professional development and investing human resources in the faculty on a professional basis in accordance with the strategic framework of the faculty.

5- Providing a university environment conducive to teaching ,learning ,creative scientific thinking and continuous self-development.

6- Developing scientific research capabilities in the faculty in accordance with the needs of society and the requirements of development .

7- Building a real and effective partnership with the local community, counterpart institutions and the local and international labor market.

## 5. Department Vision, Mission and Goals:

### 5.1 Department Vision

To be a distinguished center in education and research in the area of Information Technology.

### 5.2 Department Mission

To qualify students with modern Information Technology knowledge and skills through a commitment to excellence in its graduate academic programs and research capabilities that enable graduates to compete and excel in the local and regional labor market.

### 5.3 Department Goals

1. Contribute effectively to the national plan of IT in Yemen by providing qualified IT professionals.
2. Provide educational programs to produce qualified graduates in Information Technology areas.
3. Fill the gap in the IT industry for specialized personal in IT solutions.
4. Provide an environment that enables students and department members to contribute in the development of knowledge and innovative practice of Information Technology.
5. Establish and develop scientific research capabilities and provide opportunities for participation of researchers in scientific activities.

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6. Contribute effectively to the development of the society and respond to the continuous development challenges.

## 6. Program Mission, Goals, and Outcomes

### 6.1 Program Mission

The Master Program of Information Technology seeks to qualify a distinguished administrative, academic and research cadre in the field of information technology that contributes to meet the needs of the local and regional market by providing them with a distinct teaching, learning and research environment.

### 6.2 Program goals

[1] Providing students with theoretical concepts and research skills that enable them to work in academic, administrative, and research fields of information technology.

[2] Qualify specialized scientific cadres with a master's degree in the field of information technology capable of producing scientific contributions to solve local and regional community problems.

[3] Developing student's ability of innovation and creative thinking, teamwork skills and life-long learning with commitment to ethical and professional responsibilities.

[4] To motivate graduates to apply information technology tools, skills, and techniques in their current and future work to contribute to community services.

## 7. Program Standards& Benchmarks:

### 1.1 Academic Standards

1st Level standard of Academic Program Specification (2017), Council for Accreditation & Quality Assurance, Yemen.

**Refer to:**

**(Annex 1: Academic Standards of the Program)**

## 1.2 Program Benchmarks

1. Sana'a University, Faculty of Computer and Information Technology, Information Technology, Information technology, Yemen.
2. University of Science and Technology (UST) , Faculty of Computing and Information Technology, Computing Program, Information technology, Yemen.
3. King Abdulaziz University, Faculty of Computing and Information Technology, Information Technology, Information technology, KSA.
4. AHLIA University, College of Information Technology, Information Technology & Computer Science, Information technology, Bahrain.
5. International Islamic University Malaysia, Kulliyyah of Information & Communication Technology, Information Systems, Information technology, Malaysia.
6. North Carolina A&T State University, College of Science and Technology, Computer Systems Technology, Information technology, United State of America.

**Refer to:**

**(Annex 2: Survey on Similar programs)**

**(Annex 3: Survey on Intended Learning Outcomes of similar programs)**

**(Annex 4: Survey on credit hours of similar programs)**

**(Annex 5: Survey on courses of similar programs)**

## 1.3 Government Rules and Regulations:

1- Act No. 13/2005 of the Law of private universities, higher institutes and colleges, Yemen.

2- The executive regulations of Act No. 13/2005 of the Law of private universities, higher institutes and colleges, Yemen.

3- The executive regulations for High Education - Emirates International University, 2020.

4- Act No. 40/2008 for Prime Minster regarding the High educational System in the Yemen Universities.

# 8. Learning Outcomes:

**A: PILOs of Knowledge and Understanding Skills :**

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Upon successful completion of Master of Information Technology Program, the graduates will be able to :

**A1**. Demonstrate an understanding of advanced concepts, theories, models, rules, and techniques related to the field of information technology discipline.

**A2**. Demonstrate knowledge of research techniques and methods used to solve complex information technology problems.

**A3**. Explain the advanced policies and procedures, methods/tools and frameworks in the management of information technology infrastructure.

**A4**. Identify advanced critical awareness and security aspects of user/organization desired needs for different computer-based systems

**A5**. Express advanced knowledge within data science, which includes data processing, machine learning, data extraction, and data visualization.

**B: PILOs of Cognitive/ Intellectual Skills :**

Upon successful completion of Master of Information Technology Program, the graduates will be able to:

**B1**. Propose appropriate information technology-based solutions and integrate them effectively into the user and organization environment.

**B2**. Discuss and compare research methodologies and IT frameworks used to solve complex computing problems.

**B3**. Analyze and design tools, techniques, policies, and strategies to evaluate the information technology management technical solutions.

**B4**. Investigate the cybersecurity needs to protect data integrity, validity, privacy and security procedures for different computer-based systems.

**B5**. Examine the different sources of information, datasets, and data processes to apply them in structuring, formulating, and visualizing data-driven reasoning.

**C: PILOs of C . Practical and Professional Skills:**

Upon successful completion of Master of Information Technology Program, the graduates will be able to :

**C1**. Employ advanced concepts, theories, models, research issues, rules, and techniques to solve complex computing problems with industry-recognized best practices and standards.

**C2**. Conduct research analysis and summarize results in

an appropriate context to serve national and international scientific society

**C3**. Use current tools, software systems, data management systems, networking and Web technologies, computing platforms to develop, implement, and manage different IT-based solutions.

**C4**. Perform system assessments using forensics knowledge, technical knowledge, and knowledge of the different types of penetrations to develop protection procedures and policies for the organization's information system.

**C5**. Apply quantitative modeling and data analysis techniques to solve real-world business problems, communicate findings, and present results using data visualization techniques.

**D: PILOs of General and Transferable Skills:**

Upon successful completion of Master of Information Technology Program, the graduates will be able to :

D1. Work effectively within a team or individually to accomplish a common goal

D2. Engage in a life-long self-learning, time management, leadership and communicate effectively with specialists as well as non–specialists to solve organization problems.

D3. Reach a high level of skills in writing and presenting research/project activities.

D4. Demonstrate effectively professional, ethical, security, and social issues, regulations and responsibilities.

## 9. Graduates Attributes

**Upon successful completion of Master of Information Technology Program, graduates will be able to:**

1. Identify, formulate, and analyze problems related to Information Technology.
2. Analyze technical and security problems and challenges related to information systems.
3. Create distinct topics in the areas of modern information technology by following scientific research methodologies.
4. Assess professional, ethical, legal, and security issues.

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5. Conduct research, individually and in a team.
6. Communicate effectively with a range of audiences, and demonstrate leadership and project management.
7. Carry out searches of literature and use databases to come up with valid conclusions.

## 10.Teaching and Learning Strategies

Various teaching and learning strategies are used in Master of Information Technology Program, such as:

1. Lectures/Interactive Lectures,
2. Illustrations/ Discussions,
3. Exercises,
4. Tutorials,
5. Seminar/ Project/Presentation,
6. Exercises,
7. Case Study,
8. Practical Lab Sessions/ Simulation,
9. Directed Self- Study,
10. Problem Solving
11. Small-Group Learning
12. Guided Individual Reading.

| Teaching Strategy | Description |
|---|---|
| Lectures/Interactive Lectures, | These are interactive lectures weekly conducted in the class and supported with variety of teaching formats including, lectures and multimedia presentations, use of whiteboard and solved examples, and class discussions, in which concepts, approaches, and case studies are presented, explored, and shown students what they need to know. |
| Illustrations | Illustrations performing an activity so that learners can observe how it is done in order to help prepare learner to transfer theory to practical application. Moreover, this strategy involves the teacher showing learners how to do something |
| Tutorials | Some courses need to have tutorial sessions to solve problems related to the subjects. the students exchange their knowledge with the teacher. |

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| Seminar/ Project/Presentation | Assigned project is given to student and he must give a seminar to present his project. |
| Discussions | Discussions are carried out about some aspects. related to the subject. It involves a large or small group activity that encourages students to focus on a topic and contribute to the free flow of ideas. The teacher may begin a brainstorming session by posing a question or a problem, or by introducing a topic. Students then express possible answers, relevant words and ideas |
| Exercises | Students are given special tasks, exercises, puzzles, and activities during the class or at homes. |
| Practical lab sessions | Practical Applications using a variety of software's before the real design and implementation. A variety of web-based searches students will be assigned to learn how they can search for solutions using the Web. |
| Directed self- study | Students are encouraged to undertake independent study to both supplement and consolidate what are being learned. |
| Problem Solving | This allows students to become more active in their learning as they work out which information they need to find out how to solve a particular problem. |
| Small-Group learning | It means the oral presentation by the lecturer and students in the classroom, such as presenting ideas and presenting reports, and is often done using the power point presentation technique in these presentations. |
| Guided Individual Reading. | Students are encouraged to undertake independent study both to supplement and consolidate what is being learned. Self-directed learning, small group teaching and discussions require students to "talk science" and encourage them to teach each other. |
| Brainstorming | It is a process for generating multiple ideas/options in which judgment is suspended until a maximum number of ideas has been generated. It is a common teaching approach that is often used by organizing a meeting of a group of students in a round circle, so that students combined focus their thinking on solving a problem in creative ways, and this strategy is usually followed in educational meetings and work sessions to stimulate students, their thinking and discussion. |

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| Case Studies | Assigning case studies to students is very helpful to assess the extent of understanding the topics. |

## 11. Assessment Tools

### 11.1 Course Assessment

Various assessment methods are used in Master of Information Technology Program, such as:

1. Written Examinations
2. Oral exams,
3. Writing Technical/Project Report
4. Coursework Activities,
5. Assignments,
6. Presentations
7. Seminars
8. Quizzes

| 11.2 Assessment Strategy | Description |
|---|---|
| Written Examinations | Mid. term & Final exams for each course is required for all courses except Graduation Projects. These exams will evaluate the extent in which the student understanding of theoretical and applied subjects |
| Assignments | Home works and assignments will evaluate students according to their ability to explain and illustrate the assignments they are given. |
| Oral exams | Oral exams is useful to evaluate the extent of understanding the different subjects of the course. |
| Quizzes | Quizzes asses' student ability to follow the lecturer during the study course. |
| Writing Technical/Project Report | Assessing students to their ability to write theoretical and lab reports as well as the understanding of organizing the reports.<br>The practical lab sessions are required for some courses. |

| | |
|---|---|
| Coursework Activities | Course work Activities is one of the assessment methods by which it can evaluate students. |
| Presentations | Is an assessment of the ability of organizing and the way of presentation. |
| Seminar | |

## 11.3 Thesis Assessment

| Each thesis will be assessed by a committee of three members as follows | |
|---|---|
| Item | Marks Distribution |
| Research supervisor | 40 |
| Internal examiner: a member of the department teaching staff. | |
| External examiner: a qualified external from another university | |
| **Total** | **40%** |

## 11.4 Alignment of Program Intended Learning Outcomes (PILOs) with Teaching Strategies and Assessment Methods:

| PILOs | Teaching Strategy | Assessment Methods |
|---|---|---|
| **Knowledge and Understanding ( A1,A2,A3,A4,A5)** | Lectures/Interactive Lectures<br>Discussions<br>Illustration<br>Exercises,<br>Case Study.<br>Guided Individual Reading. | Written Examinations<br>Assignments<br>Quizzes<br>Writing Technical Report<br>Presentations |
| **Intellectual Skills ( B1,B2,B3,B4,B5)** | Interactive Lectures<br>Tutorials<br>Discussions,<br>Problem solving<br>Exercises<br>Brainstorming<br>Case study.<br>Presentation | Written Examinations<br>Assignments<br>Quizzes<br>Writing Technical Report<br>Presentations<br>Seminars<br>Oral exams |
| **Professional & practical skills** | Practical Lab Sessions/Simulation<br>Seminars<br>Project | Project<br>Writing Technical/Project Report |

| | | |
|---|---|---|
| **( C1,c2,C3,C4,c5)** | Discussions<br>Presentations<br>Exercises<br>Small-Group Learning<br>Case Study<br>Problem solving | Presentations<br>Seminars<br>Oral exams<br>Assignments<br>Coursework Activities |
| **General & Transferable Skills ( D1,D2,D3,D4)** | Seminar<br>Presentations<br>Directed Self- Study<br>Small-Group Learning<br>Guided Individual Reading | Writing Technical Report<br>Presentations<br>Seminars |

## 12. Intended Learning Outcomes Mapping:

See Annexes 6,7, and 8,9,10.

**Annex 6: Alignment of Program objectives with Program Intended Learning Outcomes (PILOs).**

**Annex-7, Alignment of Program Objectives with Council of Accreditation Standards.**

**Annex-8, Themes and their Weightage with Program Intended Learning Outcomes (PILOs).**

**Annex-9, Coding System and Alignment of Courses with Program Intended Learning Outcomes (PILOs).**

**Annex (10) Matrix of mapping program P- ILO's with courses.**

## 13.Program Structure

### 13.1 Pre - Requisites Courses Requirements

1. Database systems
2. Computer Network
3. Information Security
4. Web Fundamentals
5. Programming Language
6. System Analysis and design

### 13.2 Program Requirements

| No | Requirements | | No. of Courses | Credit Hours | Rational Weight % |
|---|---|---|---|---|---|
| 1 | Program Core | | 6 | 18 | 50% |
| 2 | Elective | | 4 | 12 | 33% |
| 3 | Thesis | | | 6 | 17% |
| **Total:** | | | | **36** | 100% |

### 13.3 Program and Tracks Core

| 13.3.1 | Program Core (18 Credit Hours ) | | |
|---|---|---|---|
| **No** | **Code** | **Course Name** | **CH** |

| | | | |
|---|---|---|---|
| 1 | MIT600 | Research Methodology | 3 |
| 2 | MIT601 | Advanced Computer Networks | 3 |
| 3 | MIT602 | Advanced Database Systems | 3 |
| 4 | MIT603 | Advanced Information Security and Privacy | 3 |
| 5 | MIT604 | Advanced Topics in Web Technology | 3 |
| 6 | MIT605 | IT Seminar | 3 |

**13.3.2** Program Elective (12 Credit Hours )

| | No. | Code | Course Name | CH |
|---|---|---|---|---|
| | | | | |
| | **1** | MIT610 | Information technology management | **3** |
| | 2 | MIT611 | IT Enterprise Architecture | **3** |
| | 3 | MIT612 | Selected Topics in Information Technology | **3** |
| | 4 | MIT620 | Digital Forensics | **3** |
| | 5 | MIT621 | Selected topics in cybersecurity | **3** |
| | 6 | MIT632 | Selected topics in Data science | **3** |
| | 7 | MIT640 | Advanced IT Project Management | **3** |
| | 8 | MIT651 | Cloud computing Security | **3** |

## 13.4 Guided Study Plan

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| Information Technology | | | | | | |
|---|---|---|---|---|---|---|
| **First Year:** | | **First Semester** | | **Second Semester** | | |
| **No** | **Course Code** | **Course Name** | **C.H** | **Course Code** | **Course Name** | **C.H** |
| 1 | MIT600 | Research Methodology | **3** | MIT610 | Elective (2) | 3 |
| 2 | MIT602 | Advanced Database systems | **3** | MIT604 | Advanced Topics in Web Technology | 3 |
| 3 | MIT601 | Advanced Computer Networks | **3** | MIT612 | Advanced Information Security and Privacy | 3 |
| 4 | MIT603 | Elective ( 1 ) | **3** | MIT605 | IT seminar | 3 |
| **Total Credits** | | | **12** | | **Total Credits** | **12** |

| Summer Semester | | | |
|---|---|---|---|
| **No** | **Course Code** | **Course Name** | **C.H** |
| **1** | MIT611 | Elective (3) | **3** |
| **2** | MIT64X | Elective ( 4) | **3** |
| **Total Credits** | | | **6** |
| **Second Year:** | | MIT670 **Thesis** | **6** |
| **Total Credits Hours** | | | **36** |

## 13.5 Distribution of Total Credit Hours

| **Level** | **Term** | **Program Requirements** | | **Program Electives** | | **Total Cr. Hrs** | | **Total Cr. Hrs** | |
|---|---|---|---|---|---|---|---|---|---|
| | | No. of Courses | Credit Hours | No. of Courses | Credit Hours | No. of Courses | Credit Hours | | |
| **First** | **First** | 3 | 9 | 1 | 3 | 4 | 12 | 24 | |
| | **Second** | 3 | 9 | 1 | 3 | 4 | 12 | | |
| **Summer Semester** | | - | - | 2 | 6 | 2 | 6 | 6 | |
| **Second** | Thesis | | | | | | | 6 | |
| **Total** | | | | | | | | **36** | |

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## 14. Admission Requirements:

1. Admissions to the program shall be made as per the admission rules set by the Ministry of Higher Education and Scientific Research as well as University admission guidelines.
2. According to Act No. 40/2008 for Prime Minster regarding the High educational System in the Yemen Universities.
3. B.Sc. or equivalent degree in information technology or any computing filed from a recognized university.
4. According to the executive regulations for High Education - Emirates International University, 2020.
5. Pass the aptitude test and personal interview (if available).
6. Fulfill the Pre- requisite courses

## 15. Attendance and Graduation Requirements:

1. Student attendance should not be less than 75%
2. Student will graduate after successfully passing all program requirements.
3. Total credit hours for the program is 36 credit hours.
4. Minimum score for any student to pass any credit hours' course is 65% degree.
5. Minimum score for any student to register a thesis is 75%.

## 16. Grading System for the Marks:

| | |
|---|---|
| From 90% to 100% of total marks | Excellent |
| From 80% to less than 90% | Very Good |
| From 70% to less than 80% | Good |
| From 65% to less than 70% | Pass |
| Less than 65% | Poor/Fail |
| | |

## 17. Facilities Required for Running the Program

1. Lecture Rooms with facilities such as chairs and tables, data show, Smart Board, etc.
2. Lab with facilities such as chairs and tables, laboratory equipment, hardware and software, data show, Smart Board, etc.
3. Library and study room.
4. Internet

## 18.Learning Resources:

| Learning Resources | Required Material |
|---|---|
| **References and Textbooks** | Books (Hard or soft) |

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| **Scientific Journals** | Journals in most leading publishers such as IEEE, Elsevier, Springer… |
| **Computers and Electronic Devices** | Computer lab |
| **Computer software** | This program needs a wide range of software for programming and simulations |
| **Library needs** | Digital and conventional libraries |
| **Other Resources** | |

## 19. Program Policies

**Based on University Regulations**

1. **(Class Attendance) :**

   A student should attend not less than 75 % of total hours of the subject; otherwise he/she will not be able to take the exam and will be considered as exam failure. If the student is absent due to illness, he/she should bring a proof statement from university Clinic. If the absent is more than 25% of a course total contact hours, student will be required to retake the entire course again.

2. **(Tardy) :**

   For late in attending the class, the student will be initially notified. If he repeated lateness in attending class he/she will be considered as absent.

3. **(Exam Attendance/Punctuality) :**

   A student should attend the exam on time. He/she is permitted to attend an exam half one hour from exam beginning, after that he/she will not be permitted to take the exam and he/she will be considered as absent in exam.

4. **(Assignments & Projects) :**

   In general one assignment is given to the students after each chapter; the student has to submit all the assignments for checking on time, mostly one week after given the assignment.

5. **(Cheating) :**

   For cheating in exam, a student will be considered as fail. In case the cheating is repeated three times during his/her study the student will be disengaged from the Faculty.

6. **(Plagiarism) :**

   Plagiarism is the attending of a student the exam of a course instead of another student. If the examination committee proofed a plagiarism of a student, he/she will be disengaged

from the Faculty. The final disengagement of the student from the Faculty should be confirmed from the Student Council Affair of the university or according to the university roles.

7. **(Other policies) :**

- Mobile phones are not allowed to use during a class lecture. It must be closed; otherwise the student will be asked to leave the lecture room.
- Mobile phones are not allowed in class during the examination.
- Lecture notes and assignments might be given directly to students using soft or hard copy.

## 20. Attached Appendices

| No. | Appendix No. | Description |
|---|---|---|
| **1** | (Annex-1) | Academic Standards Curriculum Criteria of Accreditation Board |
| **2** | Annex (2) | Survey on Similar programs) |
| | Annex (3) | Survey on Intended Learning Outcomes of similar programs |
| | Annex (4) | Survey on credit hours of similar programs |
| **3** | Annex (5) | Survey on courses of similar programs |
| **4** | Annex (6) | Alignment of Program Objectives with Program Intended Learning Outcomes |
| **5** | Annex (7) | Alignment of Program Objectives with Council of Accreditation Standards |
| **6** | Annex (8) | Themes and their Weightage with Program Intended Learning Outcomes (PILOs) |
| **7** | Annex (9) | Coding System and Alignment of Courses with Program Intended Learning Outcomes (PILOs) |
| **8** | Annex (10) | Matrix of mapping program (P ILO's) with courses |
| | Annex (11) | Mapping of mission and objective of program of master of information technology with vision, mission and objectives of faculty, deanship of graduate studies and scientific research, and university |
| | Annex (12) | Survey/ Mapping of Vision, Mission and Objectives of Similar Accredited Programs at International Universities (Benchmarks) |

## 21. References

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| 1 | ABET Criteria for Accrediting Computing Programs, 2019 – 2020 |
| 2 | ACM/ IEEE-CS Information Technology Curricula 2017. |
| 3 | National Academic Reference Standards (NARS): Software Engineering Program. |

## Team Work

| No. | Full Name | Signature |
|---|---|---|
| 1 | Professor Dr. Khalil Saeed Al-Wagih | ..... |
| 2 | Assoc. Prof. Dr. Sharaf Abdulhak Alhomdy | ..... |
| 3 | Asst. Prof. Dr. Anwar Saif Al-Shamiri | ..... |
| 4 | Asst. Prof. Dr. Ibrahim Abdullah Alsurmi | ..... |

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