



Program Specification

(Postgraduate)

Program Name: Master of Science in Biology

Program Code (as per Saudi university ranking): 051102

Qualification Level: Master program (Level 7)

Department: Biology

College: Science

Institution: King Khalid University

Program Specification: New updated*

Last Revision Date: 13/6/1445 H – 26/12/2023

*Attach the previous version of the Program Specification.



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A. Program Identification and General Information

1. Program's Main Location :

- Main Campus, AlFaraa

2. Branches Offering the Program (if any):

None

3. System of Study:

- Coursework & Thesis Coursework

4. Mode of Study:

- On Campus Distance Education Other(specify)

5. Partnerships with other parties (if any) and the nature of each:

None

6. Professions/jobs for which students are qualified

The biologist can work in many different fields and interests. Some deals with plants in a range of ecosystems from deserts to tropical forests, observing plant interactions with the environment. Others study the behavior of wild animals. They often have to live and work outdoors as they perform field research and collect biological data. Some biologists are specialized in the study of aquatic environment. For example, marine biologists focus their interest in saltwater organisms, while limnologists specialize in freshwater organisms.

The occupation/Jobs is according to Saudi Ministry of Civil Service

Website: <HTTPS://ESERVICES.MASAR.SA/UCG/>

Some of the occupations are listed below:

- Jobs of researchers and specialists in standards, metrology and calibration.
- Jobs of heads of meteorological and environmental monitoring substations.
- Environmental monitor Jobs.
- Livestock researcher and Specialist.
- Laboratory analyst.
- Jobs for agricultural researchers and specialists.
- Rangeland and forestry researcher and specialist.
- Supervising functions of nutrition work.
- Dietitian.
- Fisheries researchers.
- Laboratory researchers and technicians.

7. Relevant occupational/ Professional sectors:

- Ministry of Education.
- Ministry of Health.
- Ministry of Environment, Water and Agriculture.
- National Center for Wildlife.

8. Major Tracks/Pathways (if any):

	Major track/pathway	Credit hours (For each track)	Professions/jobs (For each track)
1.	NA	-	-
2.	NA	-	-



3.	NA	-	-
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8. Exit Points/Awarded Degree (if any):

	exit points/awarded degree	Credit hours
4.	NA	-
5.	NA	-
6.	NA	-

9. Total credit hours: (48 hours)

Credit hours are 32 credits (20 hours as compulsory courses, 6 hours as elective courses, and 6 hours as a scientific thesis)

B. Mission, Objectives, and Program Learning Outcomes

1. Program Mission:

Qualifying graduates and researchers able to keep with the developments in biological sciences in line with the requirements of the labor market and sustainable development.

2. Program Objectives:

1. Active participation in current and future research topics to enrich knowledge in biological sciences.
2. Provide distinguished graduates and competitors in the labor market.
3. Provide the Kingdom's scientific institutions with qualified individuals to keep pace with rapid progress in biological and biotechnological sciences.
4. Provide students with extensive scientific and field expertise.
5. Strengthen the theoretical and creative basis and ability to communicate effectively and work collaboratively.
6. Create an educational environment that encourages self-reliance in education and learning.
7. Contribute to the community service through scientific research.

3. Program Learning Outcomes*

Knowledge and Understanding

K1	Know the basic concepts, theories, principles, biological scientific terminology and biological functions of organisms and their classification.
K2	Identify the relationship between cells, tissues and organs, as well as biochemical and physiological functions.
K3	Understand environmental factors and their impact on biodiversity and ecosystems.
K4	Identify the modern biological applications and techniques used in biological diagnosis of normal and abnormal vital functions.

Skills

S1	Apply the appropriate scientific methods and techniques to collect and handle samples.
S2	Interpret and evaluate the results of biological experiments and field studies using statistical methods, analysis of primary data and problem solving.
S3	Able to understand; critique and compare scientific papers as well as to prepare and publish distinguished research in biology.
S4	Ability for decisions making based on advanced knowledge in biological concepts.

Values, Autonomy, and Responsibility

V1	Respect ethical and scientific values and the ability to assume responsibility.
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V2	Respond effectively in investing knowledge, personal skills and collaborative work.
V3	Participate, volunteer and contribute effectively to national strategies and society's issues.

* Add a table for each track or exit Point (if any)

C. Curriculum

1. Curriculum Structure

Program Structure	Required/ Elective	No. of courses	Credit Hours	Percentage
Institution Requirements	Required	0	-	-
	Elective	0	-	-
College Requirements	Required	0	-	-
	Elective	0	-	-
Program Requirements	Required	12	20	62.50%
	Elective	3	6	18.75%
Capstone Course/Project	Thesis	1	6	18.75%
Field Training/ Internship	-	-	-	-
Residency year	-	-	-	-
Others	-	-	-	-
Total		16	32	100%

* Add a separated table for each track (if any).

2. Program Courses

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Type of requirements (Institution, College, or Program)
Level 1	BIOL 6101	Biostatistics	Required	-	2	Department
	BIOL 6201	Molecular and Cell Biology	Required	-	2	Department
	BIOL 6501	Advanced Ecology	Required	-	2	Department
	BIOL 6301	Advanced Taxonomy	Required	-	2	Department
	BIOL 6401	Advanced Microbiology	Required	-	2	Department
Level 2	BIOL 6102	Experimental Design	Required	-	2	Department
	BIOL 6103	Biological Techniques	Required	-	2	Department
	BIOL 6104	Plant and Animal Metabolism	Required	-	2	Department
	BIOL 6202	Advanced Genetic	Required	-	2	Department
	BIOL 6107	Field Studies	Required	-	2	Department
Level 3	BIOL 6105	Seminar	Required	-	1	Department
	BIOL 6106	Independent Course	Required	-	1	Department
	BIOL 6502	Environmental Toxicology	Elective	-	2	Department
	BIOL 6203	Marine Ecology	Elective	-	2	Department
	BIOL 6302	Plants Stress Physiology	Elective	-	2	Department
	BIOL 6204	Advanced Invertebrates	Elective	-	2	Department
BIOL 6402	Applied Microbiology	Elective	-	2	Department	
Level 4	BIOL 6108	Scientific Thesis (Continuous)	Required	-	6	Department

* Include additional levels (for three semesters option or if needed).

** Add a table for the courses of each track (if any)

3. Course Specifications:





Insert hyperlink for all course specifications using NCAA template (T-104)

https://drive.google.com/drive/folders/1m8df6oUkh9Nkk0Cdjsi-87oEvR3Wt6qu?usp=drive_link

4. Program learning Outcomes Mapping Matrix:

Align the program learning outcomes with program courses, according to the following desired levels of performance (*I = Introduced* *P = Practiced* *M = Mastered*).

Course code & No.	Program Learning Outcomes										
	Knowledge and understanding				Skills				Values, Autonomy, and Responsibility		
	K1	K2	K3	K4	S1	S2	S3	S4	V1	V2	V3
BIOL 6101	I	-	-	I	P	I	-	-	I	-	P
BIOL 6201	I	I	I	I	P	P	P	-	P	P	-
BIOL 6501	I	I	I	P	P	P	I	-	I	I	I
BIOL 6301	I	I	-	P	I	P	I	-	I	P	-
BIOL 6102	I	-	I	P	I	-	P	I	I	-	-
BIOL 6401	I	P	I	P	I	I	P	P	I	I	P
BIOL 6103	I	I	P	-	P	P	P	I	I	-	-
BIOL 6104	I	I	M	P	M	-	M	-	I	I	P
BIOL 6105	M	I	-	I	I	I	I	-	I	I	-
BIOL 6106	M	-	P	-	M	M	P	-	P	M	I
BIOL 6107	M	M	-	M	I	I	M	-	M	P	I
BIOL 6202	P	P	-	M	M	M	P	-	I	I	-
BIOL 6502	M	M	P	P	M	M	-	-	M	M	P
BIOL 6203	M	M	-	M	M	P	P	-	M	M	-
BIOL 6302	M	M	-	-	P	P	-	-	P	-	M
BIOL 6204	M	M	-	M	M	P	M	M	-	-	-
BIOL 6402	M	-	M	M	P	M	M	P	M	-	-
BIOL 6108	M	M	M	M	P	P	P	-	P	P	M

* Add a separated table for each track (if any).

5. Teaching and learning strategies applied to achieve program learning outcomes.

Describe teaching and learning strategies, including curricular and extra-curricular activities, to achieve the program learning outcomes in all areas.

Lectures, Practical, Tutorial, Discussion, Departmental Laboratories, Field studies, Homeworks, E-Learning, Cooperative Learning, Independent Studies, Extra-Curricular activities, Group working, Self-Learning



6. Assessment Methods for program learning outcomes.

Describe assessment methods (Direct and Indirect) that can be used to measure the achievement of program learning outcomes in all areas.

The program should devise a plan for assessing Program Learning Outcomes (all learning outcomes should be assessed at least twice in the bachelor program's cycle and once in other degrees).

Written, oral and practical tests, Homework, Discussion, Research projects, Critical assessment, Presentations and posters

D. Thesis and Its Requirements (if any):

1. Registration of the thesis:

(Requirements/conditions and procedures for registration of the thesis as well as controls, responsibilities and procedures of scientific guidance)

- The Higher Education and Research Dean provided clear and valuable guide to facilitate student's admission. Consequently, the admission and registration processes are usable and do not need more time. The registration system (Computerized) used in choosing students whom achieved the required conditions which is mainly related to three major parameters namely the academic rate in Bachelor degree, English language certificate (STEP, TOEFL, ILETS) and the record in the skills exam.
- -By the end of the second semester, students should select the required specific field as Botany, Zoology or Microbiology sectors; they must pass 50% of the required courses in the study plan. By the help of counseling staff member, students will be assigned to a thesis supervisor who help the students to choose the point of research, how to write the scientific research proposal which will be approved by the postgraduate committee.
- The committee studies the proposal from all areas and be sure that it will be easily managed with no difficulties that may hinder student progress toward thesis submission
- Students should prepare a presentation about the research proposal to the postgraduate committee with the attendance of department staff then approved by the department as well as College councils.

2. Scientific Supervision:

(The regulations of the selection of the scientific supervisor and his/her responsibilities, as well as the procedures/ mechanisms of the scientific supervision and follow-up)

In the program, each student should be appointed an academic advisor from the start of their program to guide them in their studies ([Unified Regulations for Scientific Research in Universities-updated Science](#)). All advisors need to fill in a report for each of their students to indicate their academic status and progress, and send the reports to the Graduate Studies Deanship, which in turn, takes the appropriate action when needed. There is an academic unit in the Deanship of Graduate Studies which is responsible for following up students' academic progress, and taking the appropriate measures when needed, such as issuing a warning or dismissal, based on the reports available in the electronic system and those received from the academic advisors ([KKU Students Rights and Duties 2018-updated-Science](#)). The Graduate Studies Deanship also requests from all the supervisors of students' theses to fill in a report each semester to indicate the progress of their students. When the thesis examining committee requires students to make some amendments to their theses, the Deanship of Graduate Studies requests the concerned academic department to appoint an academic staff to follow up with the students and submit a form signed by the supervisor ([Decision Letter of the Discussion Committee and the Verdict](#) , [Report on the Validity of the Letter for Discussion of Student Thesis, Decision Letter of the Thesis Discussion Committee and the Verdict](#)).



3. Thesis Defense/Examination:

(The regulations for selection of the defense/examination committee and the requirements to proceed for thesis defense, the procedures for defense and approval of the thesis, and criteria for evaluation of the thesis)

- At the final stage of thesis submission, supervisor should submit the thesis to the postgraduate committee who ensures that the title of the research proposal matches the title of the thesis.
- In addition, the committee should ensure that the formatting of the thesis is according to the templates provided by the Deanship of postgraduate studies and fulfilled.
- The postgraduate committee assigned for thesis reviewers and approved in the department counsel.
- Copies of the student thesis will be sent to reviewers with a review template should be completed and signed and resent back to the committee.
- A discussion committee headed by the thesis supervisor and assigned reviewers, as members will be carried out for discussion of students about their theses with the points of force and weakness if any and how to improve.
- Before approval of the thesis in the committee and counsel, supervisors should approve that the student did all of the amendments proposed by the review committee and submitting the final form of the thesis.
- The department counsel approve thesis and recommend award degree.
- Clear guidelines and instructions for the preparation and evaluation of research projects and scientific theses are available on the site of the Deanship for Graduate Studies including plan preparation ([Template for preparing a research plan](#), [The general framework of the research plan](#)), proposal of the research project ([Research proposal submission form](#)), [Writing and Directing Scientific Theses Handbook in KKU](#), report of validity of thesis ([Report on the Validity of the Letter for Discussion of Student Thesis](#)), judgment committee report ([Report of the discussion and judgment committee on Scientific Thesis](#)) and decision of the committee ([Decision letter of the discussion and judgment committee on Scientific Thesis](#)).

H. Student Admission and Support:

1. Student Admission Requirements

The university council determines the number of students who will be admitted annually to graduate studies, based on a recommendation of the Deanship of Graduate Studies Council, and the suggestion of departmental and college councils.

The following are required for admission to postgraduate studies:

- The applicant must be a Saudi, or on an official scholarship for graduate studies if he is a non-Saudi.
- The applicant must have obtained a university degree from a Saudi university, or from another recognized university.
- He must be of good conduct, and medically fit.
- Should submit two scientific recommendations from professors who previously taught him.
- Approval from workplace to the study if he is employed.
- The council of each university may add to these general conditions what it deems necessary.
- A condition for admission to the (Master's) stage is that the student attains a grade of (Very Good) at least. It is permissible for the Council of the Deanship of Postgraduate Studies to accept those with a grade of (Good, high).
- In any case, the student should not decrease than (Very Good) in the specialization courses.
- Based on the recommendation of the department, and College council, other conditions necessary for admission may be added.

All required information is available at:

<https://dps.kku.edu.sa/>

<https://dps.kku.edu.sa/ar/content/391>





<https://dps.kku.edu.sa/ar/content/434>

https://dps.kku.edu.sa/sites/dps.kku.edu.sa/files/general_files/files/Guide_to_submission.pdf

<https://dps.kku.edu.sa/ar/content/364>

2. Guidance and Orientation Programs for New Students

(Include only the exceptional needs offered to the students of the program that differ from those provided at the institutional level).

- The Committee of Postgraduate Follow-up consists of the head of the department, program coordinator. Starting the academic year, teaching staff should meet with their students to explain the curriculum and plans for fast progressing and success of the program in addition to the list of teaching process, assignments and the number of exams throughout the semester as well as evaluation methods.
- Periodic meetings should be carried out with students to know what are the difficulties facing students, receiving opinions and validating results.
- New students to the program are assigned to counseling staff member by Postgraduate committee and approved in the department counsel who should manage and follow up students progress with reports should be submitted to the department head seasonally.
- If any student present any complain to the head of the department about any of the studied subject or results, postgraduate committee meets to study this case and how to solve the student complain.
- The supervisor should sends to the academic advisor a report to evaluate the student's progress to the courses.

3. Student Counseling Services

(Academic, professional, psychological and social)

(Include only the exceptional needs offered to the students of the program that differ from those provided at the institutional level).

King Khalid University and by indeed the College of Science provide counseling services that can be an integral part of the educational mission of 2030 mission to:

1. Provide high-quality counseling services to students and staff and assist them to develop their skills either in learning or research, use and improve their abilities.
2. Take an advising role in helping students identify and learn new skills either in learning or research that will help them achieves and improve their academic and goals effectively.
3. Support and help students progress and development through counseling and outreach to the campus community.
4. To provide effective psychological and personal counseling follow-up services to ensure student care. Moreover, students are well encouraged to participate in different cultural and social activities that are compatible with their interests and needs. The aforementioned rules are honestly and transparently applied in both (Boys and Girls) sections.
5. Helping students with special needs, during their university life, to achieve the highest levels of psychological and social adjustment and academic achievement as permitted by their abilities, study their problems, and work to solve them.
6. Providing a safe environment for students to take a major role for contributing to campus safety.





- Trusted staff members will be admitted providing individual counseling services to students, faculty, and staff regarding variety of issues.
- In some instances, students may be referred or mandated to receive counseling services. These instances include but not limited to: low academic performance (as measured by GPA), smoking on campus (smoking on campus is prohibited in all open and closed areas), and behavioral conduct issues. Confidentiality for these students is limited as the counselors are responsible to communicate with referral source to provide the following information: student's attendance and participation, treatment plan, and progress reports. Students are informed regarding the limits of confidentiality in such cases.

All required information is available at:

- Guidance and Counselling Unit

- Counselling and Guidance Unit Handbook

Student Clubs Unit, KKU (<https://clubs.kku.edu.sa/ar/clubsunit>)

College clubs (<https://clubs.kku.edu.sa/ar/collegeclubs>)

College of Science Club (<https://clubs.kku.edu.sa/ar/CScience>)

Central clubs in university

Housing Club (<https://clubs.kku.edu.sa/ar/housing>)

Toastmasters Club (<https://clubs.kku.edu.sa/ar/tostmastrs>)

Club of Arabic calligraphy and plastic art (<https://clubs.kku.edu.sa/ar/ArCalligraphy>)

Volunteer Work Club (<https://clubs.kku.edu.sa/ar/volunteer>)

Diving club (<https://clubs.kku.edu.sa/ar/diving>)

Equestrian Club (https://clubs.kku.edu.sa/ar/equestrain_club)

Reading Club (<https://clubs.kku.edu.sa/ar/reading>)

Manara Club (<https://clubs.kku.edu.sa/ar/manarah>)

Entrepreneurship Club (https://clubs.kku.edu.sa/ar/leading_businesses)

Nazaha Club (<https://clubs.kku.edu.sa/ar/nazaha>)

Wesal Club (<https://clubs.kku.edu.sa/ar/wesal>)

Scholarship students Club (https://clubs.kku.edu.sa/ar/Scholarship_Students)

4. Special Support

(Low achievers, disabled, gifted, and talented students).

The university and their faculties provide Disability Advisory Service to advice and support for all disabled students. This includes:

- Directing students to additional resources within the College.
- Obtaining money for disability-related assistance.
- Ensuring that handicapped students have access to all areas of their degree by offering advice, support, and guidance to all impaired students at the College.

All required information is available in:

<https://sa.kku.edu.sa/ar/contact>

E. Faculty and Administrative Staff:

1. Needed Teaching and Administrative Staff

Academic Rank	Specialty		Special Requirements / Skills (if any)	Required Numbers		
	General	Specific		M	F	T
Professor	Biology	Zoology	-	6	-	6
		Botany	-	1	-	1
		Microbiology		3		3





Associate Professor	Biology	Zoology	-	8	-	8
		Botany	-	6	2	8
		Microbiology	-	-	-	-
Assistant Professor	Biology	Zoology	-	7	8	15
		Botany	-	2	5	7
		Microbiology	-	2	3	5
Technicians and Laboratory Assistant	Biology	-	-	1/lab	1/lab	1/lab
Administrative and Supportive Staff	Biology	-	-	-	-	-
Others (specify)	Biology	-	-	-	-	-

F. Learning Resources, Facilities, and Equipment:

1. Learning Resources

Learning resources required by the Program (textbooks, references, and e-learning resources and web-based resources, etc.)

Biology department, College of Science, King Khalid University implements clear policies and procedures that ensure the adequacy and appropriateness of learning resources and services provided to support student learning. The library has enough resources that are easily accessible and appropriate to the needs of the program and the number of students. The program has laboratories, computer and technology equipment, and materials that are suitable to the specialty and sufficient to conduct research and scientific studies according to the program goals. The Central Library at King Khalid University provides students and staff with the learning resources needed for learning and teaching. It has undergone a major refurbishment to enhance its services to suit the needs of undergraduate students, postgraduate students and students with special needs. The Central Library provides students with the learning resources needed (e.g., academic books and scholarly journals) to support their learning. The university has policies and procedures in place for managing the library and ensuring the provision of support and learning resources to its students and staff. The e-Learning and IT Deanship provides all staff and students with various software facilities to help them conduct their research. The assessment and Evaluation section annually surveys students' and staff's opinions about the learning resources and sends the results to the Deanship of Library Affairs for analysis and improvement.

All required information is available in:

<https://elearning.kku.edu.sa/>

<https://lib.kku.edu.sa/>

2. Facilities and Equipment

(Library, laboratories, classrooms, etc.)

- The students benefit from facilities provided by the College, and the university central library.
- Ensure a safe and healthy environment for both staff and students, and full compliance with health and safety requirements.





Given that lab safety is one of the most important concerns when working with supplies, hazardous chemicals, and heavy-duty equipment, Biology department has a well-established safety measures including safety showers, eyewash stations, and fire extinguishers, water sprinkles, water source, fire rubber tubes, and alarms. In addition, the department together the whole building has emergency exit routes and back corridors and risk management guide.

- Wireless internet access is installed at the College reaching all points of the college including staff and faculty offices and classrooms. All the students can access the wireless network using their ID number and their own password. College-wide and university wide computing resources are available to staff and students.

Once, the order of other materials, such as chemicals, equipment, classrooms facilities, has gone through the process, the program coordinator is responsible for following up with the department of educational facilities.

All required information is available in:

<https://elearning.kku.edu.sa/>

<https://lib.kku.edu.sa/>

[Letter of Safety Systems and Means in Laboratories and Periodic Inspection Tours](#)

[Letter of the General Administration of Educational Services](#)

[Risk Management Handbook](#)

Regarding maintenance, several handbooks and guidelines were documented and be available for faculty members:

[General Administration of Facilities](#)

[Safety precautions within the Biology department laboratories](#)

[The health and safety policy](#)

[Pictorial and readable instructions for security, safety, and emergency](#)

G. Program Quality Assurance:

1. Program Quality Assurance System

Provide a link to quality assurance manual.

The Biology program has clear and announced quality assurance system which is well defined in its manual of quality management system (QMS) that follows all quality assurance regulation illustrated in King Khalid University quality management bulletin and the Saudi regulations illustrated by NCAAA (National Commission for Academic Accreditation and Assessment). The General Biology program uses the NCAAA accreditation standards as a framework for quality assurance, quality monitoring and quality improvement, and has been embedding the quality practices in all its relevant committees. The program management seeks to apply quality assurance system in all its procedures, to measure its outputs and use the feed-back to design the proper improvement plans. The program's advisory committee helps in the cycle of planning and evaluation of the program.

All required information is available at:

[The official website of Deanship of University Development](#)

[Academic Programs Quality Assurance Manual](#)

2. Procedures Used to Ensure the Consistency between Main Campus and Branches (including male and female sections).

- For postgraduate students, the curriculum is implemented in the main campus including male and female students.
- No branches.



3. Assessment Plan for Program Learning Outcomes (PLOs),

- The Biology program has assigned PLOs which has been discussed and approved by the Biology department council. The program PLOs was designed according to the latest NCAAA forms and learning domains also to be consistent with the general Biology program's mission and goals. The assessment plan depends on assessing all PLOs annually and follows the PLOs assessment basic cycle to propose actions for improvement of outcomes.

The proposed method of PLOs assessment depends on two methods with different weights which are:

A. Direct assessment by rubrics: this method is used to score student achievements and will represent a weight of 80% of the total PLOs result.

B. Indirect assessment by questionnaires: includes two questionnaires which will be used to score the perception of student competence by the program's advisory committee and the program relevant stakeholders (students, staff members, graduates and employers). Both questionnaires will represent a weight of 20% of the total PLOs result (10% for each).

- PLOs assessment plan is available at the following [Link](#)

4. Program Evaluation Matrix

Evaluation Areas/Aspects	Evaluation Sources/References	Evaluation Methods	Evaluation Time
Program leadership	HOD, Program coordinator	Surveys and interviews	End of academic year
Effectiveness of teaching & assessment	Students and independent reviewers	Surveys and interviews	End of academic year
Learning resources	Students	Surveys	Beginning of semesters
Students' educational services	Staff members and students	Surveys	Beginning of semesters
Students 'professional skills	Stakeholders, graduates and employers	Surveys and interviews	End of academic year

Evaluation Areas/Aspects (e.g., leadership, effectiveness of teaching & assessment, learning resources, services, partnerships, etc.)

Evaluation Sources (students, graduates, alumni, faculty, program leaders, administrative staff, employers, independent reviewers, and others.)

Evaluation Methods (e.g., Surveys, interviews, visits, etc.)

Evaluation Time (e.g., beginning of semesters, end of the academic year, etc.)

5. Program KPIs*

The period to achieve the target (1443 -1444H) year (s)

No.	KPIs Code	KPIs	Targeted Level	Measurement Methods	Measurement Time
-1- Mission and Goals	KPI-PG-1	Percentage of achieved indicators of the program operational plan objectives	90	Statistics	End of academic year
-3- Teaching and Learning	KPI-PG-2	Students' Evaluation of quality of learning experience in the program	4	Surveys	End of academic year
	KPI-PG-3	Students' evaluation of the quality of the	4.5	Surveys	End of semester





No.	KPIs Code	KPIs	Targeted Level	Measurement Methods	Measurement Time
		courses			
	KPI-PG-4	Students' evaluation of the quality of scientific supervision	4	Statistics	End of semester
	KPI-PG-5	Average time for students' graduation	6	Statistics	End of academic year
	KPI-PG-6	Rate of students dropping out of the program	0	Statistics	End of academic year
	KPI-PG-7	Graduates' employability	50	Statistics	6 months after graduation
	KPI-PG-8	Employers' evaluation of the program graduates' competency	4	Statistics	6 months after graduation
-4- Students	KPI-PG-9	Students' satisfaction with the provided services	4.5	Surveys	End of each semester
-5- Teaching Staff	KPI-PG-10	Ratio of students to faculty members	1:4	Statistics	End of each semester
	KPI-PG-11	Percentage of faculty members' distribution 9.-based on academic ranking	7:5:7	Statistics	End of academic year
	KPI-PG-12	Proportion of faculty members leaving the program	2	Statistics	End of academic year
-6- Learning Resources, Facilities and Equipment	KPI-PG-13	Satisfaction of beneficiaries with learning resources	4.2	Surveys	End of academic year
	KPI-PG-14	Satisfaction of beneficiaries with research facilities and equipment	4.2	Surveys	End of each semester
-7- Research and Projects	KPI-PG-15	Percentage of publications of faculty members	85	Statistics	End of academic year
	KPI-PG-16	Rate of published research per faculty member	6.5	Statistics	End of academic year
	KPI-PG-17	Citations rate in refereed journals per faculty member	1.5	Statistics	End of academic year
	KPI-PG-18	Percentage of students' publication	75	Statistics	End of academic year
	KPI-PG-19	Number of patents, innovative products, and awards of excellence	1 patents /1awards	Statistics	End of academic year

*including KPIs required by NCAAA



H. Specification Approval Data:

COUNCIL / COMMITTEE	Plan and Curricula Committee & Quality and Development Committee
REFERENCE NO.	
DATE	1/3/1445 H

COUNCIL / COMMITTEE	Approved by Department Council
REFERENCE NO.	Department Council Approval no. 4/45
DATE	10/3/1445 H

COUNCIL / COMMITTEE	Approved by College Council
REFERENCE NO.	College Council Approval no 11/45
DATE	18/6/1445 H

