



2023

TP-151



Program Specification

— (Bachelor)

Program: **Bachelor of Science in Statistics**

Program Code (as per Saudi university ranking): **054201**

Qualification Level: **Level 6**

Department: **Statistics**

College: **Faculty of Science**

Institution: **University of Tabuk**

Program Specification: **New** **updated***

Last Review Date: **31/09/2023**

*Attach the previous version of the Program Specification.



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A. Program Identification and General Information

1. Program's Main Location :

University of Tabuk- Faculty of Science

2. Branches Offering the Program (if any):

None

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

None

4. Professions/jobs for which students are qualified

- Academic researcher (235906)
- Senior Statistician (121117)
- Statistician (212003)
- Data analyst (212004)

5. Relevant occupational/ Professional sectors:

Government Sector (General Authority for Statistics, Ministry of Education, Ministry of Health ...etc)

Private Sector (SABIC, NEOM, STC,...etc)

6. Major Tracks/Pathways (if any):

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

7. Exit Points/Awarded Degree (if any):

exit points/awarded degree	Credit hours
1. NA	NA
2.	

8. Total credit hours: (133 credit hours)





B. Mission, Objectives, and Program Learning Outcomes

1. Program Mission:

To offer distinguished education in statistics and its applications, qualifying cadres needed by the community, in an environment that promotes scientific research in environmental science and other fields.

2. Program Goals:

1. Prepare qualified statisticians who are able to contribute to sustainable development in Tabuk and the kingdom to keep pace with Vision 2030.
2. Equip students with the statistical tools and data analysis skills to make informed decisions and solve research problems in various community issues.
3. Utilize statistical competencies for the enhancement of the community through both research initiatives and practical applications.

3. Program Learning Outcomes*

Knowledge and Understanding

K1	Demonstrate deep knowledge of theories, principles, and concepts of statistics and its related disciplines.
K2	Explain the utilization of statistical packages in different applications of statistical methods.

Skills

S1	Calculate various measurements by using appropriate statistical methods.
S2	Examine the basic theorems and various statistical formulas.
S3	Select fundamental statistical theories and techniques in solving real-world problems.
S4	Analyze the dataset using statistical packages and programming languages.
S5	Argue the results of a statistical analysis effectively via writing, visualizing and orally.
S6	Formulate statistical models to solve real-world problems in appropriate contexts.
S7	Communicate comprehensive statistical ideas, both orally and in writing.

Values, Autonomy, and Responsibility

V1	Demonstrate self-reliance as a responsible citizen, adhere to academic ethics and maintain analytical integrity in different applications of statistics.
V2	Collaborate responsibly to accomplish tasks and activities in a timely manner, whether working individually or in groups and undertake lifelong learning.

* 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	11	26	20%
	Elective	5	13	10%
College Requirements	Required	6	15	11%
	Elective	-	-	-
Program Requirements	Required	20	64	48%
	Elective	3	9	7%
Capstone Course/Project		1	3	2%
Field Training/ Internship		1	3	2%
Residency year				
Others				
Total		47	133	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	ELS1101	(1) اللغة الانجليزية English (1)	Required		3	Institution
	MATH1101	مقدمة في الرياضيات Introduction to Mathematics	Required		3	Institution
	ISLS1101	الثقافة الإسلامية بين الاصالة والمعاصرة Islamic Culture Between Authenticity & contemporary	Required		2	Institution
	CID1101	مهارات الاتصال Communication skills	Required		2	Institution
	CSC1102	حل المشكلات بالحوسبة Problem Solving in Computing	Required		3	Institution
	CHEM1101	اساسيات الكيمياء Fundamentals of Chemistry	Required		3	College
	STAT1102	Introduction to Statistical Packages مقدمة في الحزم الإحصائية	Required		3	Program
Level 2	ELS1102	(2) اللغة الانجليزية English (2)	Required	ELS1101	3	Institution
	MATH1102	حساب التفاضل Differential Calculus	Required	MATH1101	3	Institution
	BIO1101	أساسيات علم الأحياء Fundamentals of Biology	Required		3	College





Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Type of requirements (Institution, College, or Program)
Level 3	ARAB1101	مهارات اللغة العربية Arabic Language Skills	Required		2	Institution
	EDUF1102	مهارات التفكير الناقد وتطبيقاته المعاصرة Critical Thinking Skills & Applications	Required		3	Institution
	PHYS1101	اساسيات الفيزياء Fundamentals of Physics	Required		3	College
Level 4	MATH1201	Fundamentals of Integral Calculus اساسيات التكامل	Required	MATH1102	4	Program
	STAT1201	Fundamentals of Statistics أساسيات الإحصاء	Required	MATH1101	4	Program
	ISLS1201	الاخلاق والقيم الحضارية في الإسلام Ethics and civilized values in Islam	Required	ISLS1101	2	Institution
	BIO1201	Principles of Environmental Sustainability مبادئ الاستدامة البيئية	Required		2	College
	MATH1205	Linear Algebra الجبر الخطى	Required	MATH1102	3	Program
	GEE_T	Technology Elective Course مقرر اختياري تقنية	Elective		3	Institution
	STAT1202	Probability 1 احتمال 1	Required	STAT1201	4	Program
Level 5	STAT1203	Operations Research 1 بحوث العمليات 1	Required	MATH1101	3	Program
	STAT1204	Statistical Computing الحوسبة الإحصائية	Required	STAT1102	3	Program
	BIO1208	Biodiversity التنوع الإحيائي	Required		2	College
	PHYS1206	Natural Resources الموارد الطبيعية	Required		2	College
	GEE_S	Elective Natural And Social Science مقرر اختياري علوم اجتماعية وطبيعية	Elective		3	Institution
Level 5	STAT1301	Nonparametric Statistics الإحصاء اللامعجمي	Required	STAT1202	3	Program
	STAT1302	Probability 2 احتمال 2	Required	STAT1202	4	Program
	STAT1303	Applied Statistics in Natural Resources الإحصاء التطبيقي في الموارد الطبيعية	Required	STAT1201	3	Program





Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Type of requirements (Institution, College, or Program)
	STAT1304	Regression Analysis تحليل الانحدار	Required	STAT1201	3	Program
	GEE_P	Elective Professional and Personal Development مقرر اختياري تطوير مهني وشخصي	Elective		2	Institution
	GEE_L	Language Elective Course مقرر اختياري لغات	Elective		3	Institution
Level 6	STAT1305	Statistical Inference الاستدلال الإحصائي	Required	STAT1202	3	Program
	STAT1306	Sampling Techniques طرق المعاينة	Required	STAT1201	3	Program
	STAT1307	Experimental Design and Analysis تصميم وتحليل التجارب	Required	STAT1304	3	Program
	STAT1308	Stochastic Process عمليات تصادفية	Required	STAT1302	3	Program
	STAT1309	Ecological Statistics الإحصاء البيئي	Required	STAT1204	3	Program
	STATXXX 1	Elective Statistics 1 مقرر اختياري 1 إحصاء	Elective		3	Program
Level 7	STAT1401	Bayesian Data Analysis التحليل البيزوي للبيانات	Required	STAT1305	3	Program
	STAT1402	Time series analysis تحليل السلاسل الزمنية	Required	STAT1304	3	Program
	STAT1403	Multivariate Analysis تحليل متعدد المتغيرات	Required	STAT1305	3	Program
	STAT1498	Project مشروع	Required	STAT1307	3	Program
	STATXXX 2	Elective Statistics 2 مقرر اختياري 2 إحصاء	Elective		3	Program
	GEE_C	Elective Cultures مقرر اختياري ثقافات	Elective		2	Institution
Level 8	STAT1404	Categorical Data Analysis تحليل البيانات النوعية	Required	STAT1304	3	Program
	STATXXX 3	Elective Statistics 3 مقرر اختياري 3 إحصاء	Elective		3	Program
	STAT1495	Training التدريب	Required	120Credit hours	3	Program

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

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

Electives Courses





Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Type of requirements (Institution, College, or Program)
STAT1310	Operations Research 2 بحوث العمليات 2	Elective	STAT130 2	3	Program
STAT1311	Biostatistics الإحصاء الحيواني	Elective	STAT120 4	3	Program
STAT1312	Econometrics الاقتصاد القياسي	Elective	STAT130 4	3	Program
STAT1405	Statistical Quality Control الإحصاء ضبط الجودة	Elective	STAT130 4	3	Program
STAT1406	Advanced data analysis التحليل المتقدم للبيانات	Elective	STAT130 4	3	Program
STAT1407	Survival Analysis تحليل البقاء	Elective	STAT130 4	3	Program
STAT1408	Statistical Learning التعلم الإحصائي	Elective	STAT130 4	3	Program
STAT1409	Applied Predictive Modeling النمذجة التنبؤية التطبيقية	Elective	STAT130 4	3	Program

3. Course Specifications:

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

https://drive.google.com/drive/folders/1_sXUp7X33UL8lj5YFjHUwVsmJLQW3O9M?usp=sharing

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	S1	S2	S3	S4	S5	S6	S7	V1	V2	
ELS1101	<i>I</i>								<i>I</i>			<i>I</i>
MATH1101	<i>I</i>		<i>I</i>		<i>I</i>					<i>I</i>	<i>I</i>	
CID1101									<i>I</i>	<i>I</i>	<i>I</i>	
CHEM1101	<i>I</i>								<i>I</i>			<i>I</i>
CSC1101	<i>I</i>	<i>I</i>							<i>I</i>	<i>I</i>	<i>I</i>	
ISLS 1101										<i>I</i>	<i>I</i>	
ELS 1102	<i>I</i>								<i>I</i>			<i>I</i>
MATH1102	<i>I</i>		<i>I</i>	<i>I</i>	<i>I</i>					<i>I</i>	<i>I</i>	
ARAB1101										<i>I</i>	<i>I</i>	





Course code & No.	Program Learning Outcomes										
	Knowledge and understanding		Skills							Values, Autonomy, and Responsibility	
	K1	K2	S1	S2	S3	S4	S5	S6	S7	V1	V2
PHYS1101	I								I		I
EDUF1102									I	I	I
BIO1101	I								I		I
ISLS1201										I	I
BIO1208	I								I		I
PHY1206	I										I
MATH1201	I		I	I	I						I
MATH1205	I		I		I						I
STAT1102	I	I	I		I	I		I			I
STAT1201	I		I		I	I					I
STAT1202	I		I	I	I						I
STAT1203	I	I	I		I		I	I			I
STAT1204	I	I			I	I	I		I		I
STAT1301	P	P	P		P	P				I	P
STAT1302	P		P	P	P						P
STAT1303	P	P			P	P	P		P	I	P
STAT1304	P	P	P			P	P	P	P		P
STAT1305	P		P	P	P				P		P
STAT1306	P	P	P	P	P					I	P
STAT1307	P	P	P		p	p		P	P		P
STAT1308	P		P		P				P	P	
STAT1309	P	P	P		P	P				P	P
STAT1401	M	M	M	M	M	M					M
STAT1402	M		M	M		M		M	M	M	M
STAT1403	M	M	M	M	M	M					M
STAT1498	M	M			M	M	M	M	M	M	M
STAT1404	M	M	M		M	M	M		M		M
STAT1495					M	M			M	M	M
Elective Courses											
STAT1310	P	P	P		P	P			P		P
STAT1311	P	P	P		P	P			P		P
STAT1312	P	P	P			P	P	P	P		P
STAT1405	M	M	M		M	M			M		M
STAT1406	M	M	M		M	M			M		M





Course code & No.	Program Learning Outcomes										
	Knowledge and understanding		Skills							Values, Autonomy, and Responsibility	
	K1	K2	S1	S2	S3	S4	S5	S6	S7	V1	V2
STAT140 7	M	M	M		M	M		M			M
STAT140 8	M	M	M		M	M		M		M	M
STAT140 9	M	M	M		M	M		M		M	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.

Faculty members are required to follow course specifications, which are available at the department website. Faculty members are expected to adhere to teaching and learning strategies set out in the program and course specifications, which include:

1. Lectures
2. Lab lectures
3. Discussion
4. Solve problem
5. Group work
6. Cooperative learning and Teamwork
7. Self-learning

Each course learning outcome needs special methods for teaching and learning strategies according to the nature of the learning outcomes. Faculty members are expected to develop plans outlining how they will implement their teaching and learning strategies to achieve course learning outcomes.

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).

The assessments methods

The direct and indirect assessments methods include:

- Quizzes
- Written exam
- Lab Exam
- Lab Activities
- Assignments





- Oral Participation
- Program evaluation survey
- Employers Survey
- Independent evaluation

Mechanism of measuring the Program learning outcomes

The program learning outcomes are measured using both direct and indirect methods.

1. The direct method of assessing the program learning outcomes:

This method is based on the results of measuring the learning outcomes of the courses. Course learning outcomes will be measured by course coordinators using the methods outlined in the course specifications. The direct method is summarized in the following three steps

Step 1: Determine the courses that use in the measurement process: All statistical courses taught at the fifth and higher levels

Step 2: Determine courses outcomes related to program learning outcomes

Step 3. Then the following formula is applied

$$PLO_k = \frac{(C_1 * N_1) + (C_2 * N_2) + \dots + (C_h * N_h)}{N_1 + N_2 + \dots + N_h} = \frac{\sum_{i=1}^h C_i * N_i}{\sum_{i=1}^h N_i}$$

Where

PLO_k : actual level for the k^{th} program learning output.

C_h : actual level for the h^{th} course's learning output aligned with the k^{th} PLQ .

N_h : number of students who complete the i^{th} course.

h : number of courses.

The actual level C_h for the h^{th} course's learning output is computed using a collection of steps starting from course information up to the final report are explained in the user guide for the course learning outcomes measurement file.

Noting that the target level for the PLO is computed using the same formula.

2. The Indirect Method of assessing the program learning outcomes:

This method is based on the results of two surveys.

- The first is the program evaluation survey which is given to students who are expected to graduate.
- The second is the Employers Survey targeting employers in whose organizations graduates of the program work.

The questionnaire for the program evaluation is published electronically via the quality assurance and academic accreditation processes platform. While the employers' questionnaire is published online.

Both surveys are conducted in the time frame that is specified for each one. The results of these surveys are used for the implementation of improvement plans.





D. Student Admission and Support:

1. Student Admission Requirements

All the policies procedures and regulations are available in the following link:
[DG451.pdf \(ut.edu.sa\)](https://www.ut.edu.sa/ar/Deanship/student-affairs/Pages/default.aspx)

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).

[Pages - Home \(ut.edu.sa\)](https://www.ut.edu.sa/ar/Deanship/student-affairs/Pages/default.aspx)

<https://www.ut.edu.sa/ar/Deanship/student-affairs/Pages/default.aspx>

Students admitted at the Statistics program are given orientation program on services, facilities available and their rights and responsibilities as well as advice on curriculum matters and career opportunities. The orientation program is conducted once at the beginning of every academic year. Both the academic advisors and the senior students participate in the orientation program. In the orientation program, students received a package that includes:

- ✓ The Student Guide Handbook
- ✓ Contact information
- ✓ Academic counseling guide
- ✓ Executive rules for student's grievance
- ✓ The rules of study and exams in UT
- ✓ The Academic Calendar.
- ✓ Location of the classrooms prior to the beginning of classes
- ✓ IT guide including how students can activate their email account and change the password.

In addition, Students' satisfaction about the orientation program is evaluated through a questionnaire.

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).

Counseling manuals are available in the following link:

https://drive.google.com/drive/folders/17v83rBsSfxeVHKz_Nc9F3N0-U5SKykFg?usp=sharing

- The student is distributed among the faculty members, and this is announced on the college website, notice boards, and on the offices of the faculty members.
- Faculty members study students and classify problems (from low GPA, warnings, other personal problems)
- Faculty members meet with students, study their problems and work on solving them.
- The faculty member writes a set of reports on the forms prepared by the Guidance Unit and submits them to the unit.





- The Academic Guidance Unit makes a comprehensive report that is submitted to the Vice Dean for Academic Affairs to solve the problems and present it to the Dean of the College and take the necessary actions.
- The Training Unit, in conjunction with the Student Club and the Graduate Follow-up Unit, holds training courses for students for psychological and social preparation.
- The students complaints are posted to the academic Guidance or directly to the vice Dean or the Dean of the college to take the necessary actions towards it.

4. Special Support

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

Low achievers

- A student support system –E-register- is available to identify tripped students. Moreover, a committee for tripped students was established by FSUT.
- The Department of Statistics constitutes a counselling committee to investigate reasons for this poor performance and provide the necessary support for the students.
- The Department of Statistics provides a supportive education program for students with poor academic performance to improve their academic level.

Disabled

- Providing electric lifts.
- Providing private parking.
- Equipping the stairs that help them climb their steps.

Gifted and Talented

Talented students will be advised to communicate with the Creativity and Talent Unit at the University. The Deanship of Student Affairs launched the program “Innovators” in order to investigate talented students as well as to support and motivate them. Also, provide them with special training courses.

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	Statistics	Applied Statistics	Familiarity of the faculty	1	1	2





Associate Professor	Statistics	Applied Statistics	member of statistical packages (SPSS & R).	3	3	6
Assistant Professor	Statistics	Applied Statistics - Mathematical Statistics - Operations Research		10	10	20
Lecturer	Statistics	Applied Statistics- Mathematical Statistics		2	2	4
Teaching Assistant	Statistics	Applied Statistics - Mathematical Statistics		5	5	10
Technicians and Laboratory Assistant	Computer Science/ Statistics		Knowledge of Statistical Packages	1	1	2
Administrative and Supportive Staff	Secretary		Proficiency with Microsoft Office Excellent time management skills	1	1	2
Others (specify)						

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.)

The mechanism for providing learning resources:

- The department board submits a recommendation to the faculty deanship to provide the selected books and references to students through the faculty library
- The other learning resources like electronic books and specialized web sites were given to the student through the staff during lectures.

Quality assurance of learning resources:

- The choice of these learning resources is according to a reference comparison with that course teaches in science in the top 200 universities according to Q.S ranking.

2. Facilities and Equipment

(Library, laboratories, classrooms, etc.)





- The University of Tabuk provides a well-ventilated classroom equipped with white boards and comfortable seats and medical facilities.
- The computer lab has recently been equipped with high efficient computers connected to the Internet.
- Non-academic activities (cultural and sports) along with special considerations made for people with disabilities.
- Tabuk University's Deanship of Student Affairs offers smartphones and laptops to students on a monthly payment plan, since smartphones and laptops come with useful apps like Blackboards, CamScanner, Microsoft programs and University of Tabuk (My Service).
- In cooperation with the General Administration of Maintenance and Operations at UT, which is supervised by the Vice-President, the Faculty of Science established a Learning Resources Committee consisting of faculty members and employees from both male and female's sections to oversee and facilitate the teaching and learning process.

3. Procedures to ensure a healthy and safe learning environment

(According to the nature of the program)

The program follows safety guidelines and it creates a healthy, safe, and clean environment for students, staff, and visitors.

G. Program Quality Assurance:

1. Program Quality Assurance System

Provide a link to quality assurance manual.

[Quality Assurance Management System Statistics Program - Google Drive](#)

2. Procedures to Monitor Quality of Courses Taught by other Departments

- Completing course specifications according to the National Center for Academic Accreditation and Assessment templates.
- The faculty member, in coordination with the course coordinator, is obligated to teach the approved course specification, and it is notified to the students at the beginning of the semester with an explanation of its objectives, contents, vocabulary and philosophy, the teaching strategies used, and the various assessment strategies used.
- After completing the course teaching, the faculty member prepares the course report according to NCAAA form in coordination with the course coordinator to prepare a unified course report (includes both male and female students).
- Unified course reports are compiled to prepare the program report in coordination with the program and course coordinators to prepare a unified program report (includes both male and female sections).





- The other departments are requested to provide the course file.

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

- Unifying course specification, references, teaching strategies, and course report.
- Unifying final and periodic exams.
- Course coordinators are responsible for planning, and coordinating the teaching strategies and assessments as well as course delivery.
- Course coordinator and intstructures should cooperate in all course activities.

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

The plan for evaluating the learning outcomes of the program and the mechanisms for using its results in the development processes are as follows:

- To ensure the quality and continuous improvement of the program, the learning outcomes are evaluated and measured periodically based on the criteria that indicate the quality of performance according to the NCAAA program.
- The faculty members and staff responsible for the various activities in the program evaluate the level of performance according to these criteria, based on appropriate evidence, with support this with performance indicators and benchmarking with other programs of a high level of quality, especially in areas of great importance. This self-evaluation is supported by an independent opinion by reviewers or independent reviewers from outside the institution. To enhance the credibility, positioning and accuracy of the evaluation.
- Learning outcomes are evaluated and measured periodically according to the NCAAA program, for each course separately, each semester and every year for the program as a whole.

In order to assess the quality of the program outputs as well as the rates of achieving the targeted learning outcomes and the extent to which the program objectives are achieved, we will take the following procedure:

1. Reviewing the evaluation of the regular students for the courses and the academic program.
2. Reviewing the graduate students' evaluation of the academic courses and program.
3. Reviewing employers' evaluation of graduates' performance.
4. Internal review (self-evaluation) - external review of courses.
5. To enroll faculty members in training courses and workshops to provide them with teaching and professional skills and experiences.





6. Taking the opinion of an external reviewer of the program, identifying the strengths and weaknesses, making recommendations for improvement, and making plans to implement these recommendations and their rate of achievement.
7. Distributing questionnaires to employers and the target community of the program.
8. Organizing periodic meetings with employers and the target community of the program.

Based on all of the above, an improvement plan is prepared and circulated to the stakeholders, where the evaluation processes are used permanently for continuous improvement of the program and feedback on continuous improvement of the program.

5. Program Evaluation Matrix

Evaluation Areas/Aspects	Evaluation Sources/References	Evaluation Methods	Evaluation Time
Leadership	administrative staff, faculty	Surveys, interviews	End of academic year
Effectiveness of teaching & assessment	Students, Alumni, independent reviewers	Surveys	End of academic year
Learning resources	Students, alumni, faculty	Surveys, Visits	End of academic year
Facilities and Equipments	Students, alumni, faculty	Surveys, Interviews	Beginning of Semesters and 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.)

6. Program KPIs*

The period to achieve the target (one) year(s).

No.	KPIs Code	KPIs	Targeted Level	Measurement Methods	Measurement Time
1	KPI-P-01	Students' Evaluation of Quality of learning experience in the Program	4.5	Survey	At the end of academic year
2	KPI-P-02	Students' evaluation of the quality of the	4.5	Survey	At the end of each semester





No.	KPIs Code	KPIs	Targeted Level	Measurement Methods	Measurement Time
		courses			
3	KPI-P-03	Completion rate	40%	Report	At the end of academic year
4	KPI-P-04	First-year students retention rate	50%	Report	At the end of academic year
5	KPI-P-05	Students' performance in the professional and/or national examinations	NA	NA	NA
6	KPI-P-06	Graduates' employability and enrolment in postgraduate programs	Employed: 65% Enrolled in MSc. program 20%	Survey	At the end of academic year
7	KPI-P-07	Employers' evaluation of the program graduates proficiency	4.75	Survey	At the end of academic year
8	KPI-P-08	Ratio of students to teaching staff	M: 13:1 F: 12:1 Average: 12:1	Report	At the end of academic year
9	KPI-P-09	Percentage of publications of faculty members	M:50% F:50% Total:50%	Report	At the end of academic year
10	KPI-P-10	Rate of published research per faculty member	M: 1: 3 F:1:3 Average: 1:3	Report	At the end of academic year
11	KPI-P-11	Citations rate in refereed journals per faculty member	M: 1:6 F: 1:12 Total: 1:9	Report	At the end of academic year

* including KPIs required by NCAAA





H. Specification Approval Data:

COUNCIL /COMMITTEE	DEPARTMENT COUNCIL
REFERENCE NO.	7
DATE	1445/05/01

