

The Operational Plan for the Master of Science in
Renewable Energy Engineering at the
Department of Electrical Engineering
Academic Year 2023-2024

Matrix of Initiatives and Performance Indicators for
Master of Science in Renewable Energy Engineering
Program Based on College of Engineering Operation
Plan

Strategic Goal	Goal 1: Commitment to inclusive governance					
Sub-Goal	Sub-Goal 4: Human capacity development					
Initiative	Key Performance Indicator	Academic Year				
		20/21	21/22	22/23	23/24	24/25
Enhance faculty feedback	The rate of university employees' satisfaction with the organizational environment.					
Support department with academic staff	The percentage of faculty and staff members leaving the university for reasons other than retirement.					

Strategic Goal	Goal 2: Improve the status of the university					
Sub-Goal	Sub-Goal 2: Commitment to social responsibility					
Initiative	Key Performance Indicator	Academic Year				
		20/21	21/22	22/23	23/24	24/25
Directing graduation projects to meet the needs of society	Quantitative growth rate in the programs and applications of social responsibility and sustainable development.					

Strategic Goal	Goal 3: Achieving competitiveness in educational program outputs					
Sub-Goal	Sub-Goal 1: Continuous improvement of the education and innovation environment					
Initiative	Key Performance Indicator	Academic Year				
		20/21	21/22	22/23	23/24	24/25
The use of effective teaching strategies and methods for engineering education	Student satisfaction rate with program quality					

Strategic Goal	Goal 3: Achieving competitiveness in educational program outputs					
Sub-Goal	Sub-Goal 4: Promote excellence in graduate programs					
Initiative	Key Performance Indicator	Academic Year				
		20/21	21/22	22/23	23/24	24/25
Improve the quality of graduate programs	Average overall estimate of employment agencies for college graduate's competence.					
Global twinning in some graduate programs	Average estimate of student satisfaction with the educational environment.					
The development of quality graduate programs	The percentage of graduates who have employed or enrolled in graduate programs.					

Strategic Goal	Goal 4: Enhancing knowledge production					
Sub-Goal	Sub-Goal 2: Promote engineering and applied scientific research					
Initiative	Key Performance Indicator	Academic Year				
		20/21	21/22	22/23	23/24	24/25
Linking scientific research with outputs that relate the needs of industry and society	Average number of peer reviewed and / or published research papers per faculty member during the year to total faculty members					
Establishing research and engineering and technical consulting partnerships with local community organizations						

Strategic Goal	Achieving competitiveness in educational program outputs					
Sub-goal	Promote excellence in graduate programs					
Initiative	Employers' evaluation of the program graduate's proficiency					
Committee	Academic Accreditation Committee					
Activity	KPI	Target Benchmark	Implementation Period		Source	Support
			From	To		
Submitting Report to resolve the NCAAA conditional Accreditation	---	--	W1-FS	W5-FS	AAU	All committees
Evaluate employers' opinion of the program graduate's proficiency	KPI-P-09 Employers' evaluation of the program graduate's proficiency	4/5	W1-FS	W10-FS	SPSC	All committees
Checking the course portfolios (First Semester)	KPI-P-03 Students' evaluation of the quality of the courses.	4/5	W9-FS	W10-FS	SPSC	DAC
Checking the course portfolios (Second Semester)	KPI-P-03 Students' evaluation of the quality of the courses.	4/5	W9-SS	W10-SS	SPSC	DAC
Following Senior design and Engineering practice portfolios (First Semester)	KPI-P-09 Employers' evaluation of the program graduate's proficiency	4/5	W1-FS	W5-FS	SPSC	SDC & EPC
Following Senior design portfolios (Second Semester)	KPI-P-09 Employers' evaluation of the program graduate's proficiency	4/5	W2-SS	W5-SS	SPSC	SDC & EPC
Writing the annual report and submit to strategic planning and steering committee	KPI-P-01 Percentage of achieved indicators of the program operational plan objectives.	-	W11-TS	W11-SS	SPSC	-
Strategic Goal	Achieving competitiveness in educational program outputs					
Sub-goal	Continuous improvement of the education and innovation environment					
Initiative	Measuring and analysis of all reports and surveys provided by committees					
Committee	Assessment and Evaluation Committee					

Activity	KPI	Target Benchmark	Implementation Period		Source	Support
			From	To		
Measuring and analysis of all reports and surveys provided by committees	KPI-P-03 Students' evaluation of the quality of the courses.	4/5	W1-10	W10-SS	SPSC	DSC, QC & DAC
Evaluation the quality of Final Exam (First Semester)	KPI-P-03 Students' evaluation of the quality of the courses.	4/5	W10-FS	W11-FS	SPSC	QC
Evaluation the quality of Final Exam (Second Semester)	KPI-P-03 Students' evaluation of the quality of the courses.	4/5	W10-SS	W11-SS	SPSC	QC
Writing the annual report and submit to strategic planning and steering committee	KPI-P-01 Percentage of achieved indicators of the program operational plan objectives.	-	W11-SS	W11-SS	SPSC	-
Strategic Goal	Improve the status of the university					
Sub-goal	Commitment to social responsibility					
Initiative	Measuring the satisfaction of students					
Committee	Bridging Program Committee					
Activity	KPI	Target Benchmark	Implementation Period		Source	Support
			From	To		
Measuring the satisfaction of students	KPI-P-02 Students' Evaluation of quality of learning experience in the program KPI-P-03 Students' evaluation of the quality of the courses.	4/5	W10-SS	W12-SS	SPSC	DSC
Writing the annual report and submit to strategic planning and steering committee	KPI-P-01 Percentage of achieved indicators of the program operational plan objectives.	-	W11-SS	W11-SS	SPSC	-
Strategic Goal	Commitment to inclusive governance					
Sub-goal	Human capacity development					
Initiative	Enhance faculty feedback					
Committee	Department Service Committee					
Strategic Goal	Achieving competitiveness in educational program outputs					
Sub-goal	Promote excellence in graduate programs					

Initiative	Collecting data: students, faculty, score summary,					
Committee	Documentation and Archiving Committee					
Activity	KPI	Target Benchmark	Implementation Period		Source	Support
			From	To		
Collecting data: students, faculty, score summary,	KPI-P-01 Percentage of achieved indicators of the program operational plan objectives.	4/5	W1-FS	W11-TS	SPSC	DSC
Recording activities during the academic year	KPI-P-01 Percentage of achieved indicators of the program operational plan objectives.					
Collecting updated approved forms in the college	KPI-P-01 Percentage of achieved indicators of the program operational plan objectives.	4/5	W7-FS	W10-FS	SPSC	-
Writing the annual report and submit to strategic planning and steering committee	KPI-P-01 Percentage of achieved indicators of the program operational plan objectives.	-	W11-SS	W11-SS	SPSC	-
Strategic Goal	Achieving competitiveness in educational program outputs					
Sub-goal	Promote excellence in graduate programs					
Initiative	Measuring the student's satisfaction of the EP					
Committee	Engineering Practice Committee					
Activity	KPI	Target Benchmark	Implementation Period		Source	Support
			From	To		
Measuring the student's satisfaction of the EP	KPI-P-07 Graduates' a) employability and b) enrolment in postgraduate programs	80%	W1-FS	W3-FS	SPSC	DSC
Preparing EP Course Portfolio	KPI-P-02 Students' Evaluation of quality of learning experience in the program	4/5	W1-FS	W3-FS	SPSC	QC
Organizing one meeting with new students: Explaining regulations and requirements	KPI-P-02 Students' Evaluation of quality of learning experience in the program	4/5	W3-SS	W4-SS	SPSC	DSC

Writing the annual report and submit to strategic planning and steering committee	KPI-P-01 Percentage of achieved indicators of the program operational plan objectives.	-	W11-SS	W11-SS	SPSC	-
Strategic Goal	Enhancing knowledge production					
Sub-goal	Promote engineering and applied scientific research					
Initiative	Linking scientific research with outputs that relate the needs of industry and society					
Committee	Graduate Studies and scientific Research Committee					
Activity	KPI	Target Benchmark	Implementation Period		Source	Support
			From	To		
Linking scientific research with outputs that relate the needs of industry and society	KPI-P-14 Percentage of publications of faculty members	4/5	W6-SS	W7-SS	College Operation Plan	
Establishing research and engineering and technical consulting partnerships with local community organizations	KPI-P-14 Percentage of publications of faculty members	4/5	W6-SS	W7-SS	College Operation Plan	
Providing instructors with external and funding information and the easy ways to submit	KPI-P-15 Rate of published research per faculty member.	1:1	W7-FS	W8-FS	SPSC	DSC
Writing the annual report and submit to strategic planning and steering committee	KPI-P-01 Percentage of achieved indicators of the program operational plan objectives.	-	W11-TS	W11-TS	SPSC	-
Strategic Goal	Achieving competitiveness in educational program outputs					
Sub-goal	Promote excellence in graduate programs					
Initiative	Providing direction and counsel to the EE department					
Committee	Strategic Planning & Steering Committee					
Activity	KPI	Target Benchmark	Implementation Period		Source	Support
			From	To		

Preparing an EE operational Plans for 2022-2023	KPI-P-01 Percentage of achieved indicators of the program operational plan objectives.	85%	W10-SS	W11-TS	SPSC	All Committees
Providing direction and counsel to the EE department	KPI-P-01 Percentage of achieved indicators of the program operational plan objectives.	85%	W1-FS	W2-SS	SPSC	All Committees
Writing the annual report and submit to strategic planning and steering committee	KPI-P-01 Percentage of achieved indicators of the program operational plan objectives.	-	W11-TS	W11-TS	SPSC	-
Strategic Goal	Achieving competitiveness in educational program outputs					
Sub-goal	Promote excellence in graduate programs					
Initiative	Improve the quality of graduate programs					
Committee	Program and Curriculum Committee					
Activity	KPI	Target Benchmark	Implementation Period		Source	Support
			From	To		
Preparing the New EE curriculum based on the new three semester system	KPI-P-05 First-year students retention rate	60%	W1-FS	W10-FS	-	-
Determination of the exit point	KPI-P-05 First-year students retention rate	60%	W1-FS	W10-FS	VDAA	HOD
Writing the annual report and submit to strategic planning and steering committee	KPI-P-01 Percentage of achieved indicators of the program operational plan objectives.	-	W11-TS	W11-TS	SPSC	-
Strategic Goal	Enhancing knowledge production					
Sub-goal	Promote engineering and applied scientific research					
Initiative	Writing the annual report and submit to strategic planning and steering committee					
Committee	Student Research and Assistance Committee					
Activity	KPI	Target Benchmark	Implementation Period		Source	Support
			From	To		

To organize throughout the semester training programs which will enhance the technical skills of the students on Professional software	KPI-P-06 Students' performance in the professional and/or national examinations	80%	W1-FS, W1-SS, W1-SS	W11-FS, W11-SS, W11-TS	SPSC	-
Participation of student micro-projects in Annual Exhibition of Scientific Research and selection of best student micro-projects	KPI-P-09 Employers' evaluation of the program graduate's proficiency		W2-SS	W10-SS	SPSC	
A presentation for students: "How to publish your paper from SD"	KPI-P-14 Percentage of publications of faculty members	2	W7-FS	W9-FS	SPSC	SDC
Writing the annual report and submit to strategic planning and steering committee	KPI-P-01 Percentage of achieved indicators of the program operational plan objectives.	-	W11-TS	W11-TS	SPSC	-
Strategic Goal	Enhancing knowledge production					
Sub-goal	Promote engineering and applied scientific research					
Initiative	Organizing at least two consulting services to community					
Committee	Community Service Community					
Activity	KPI	Target Benchmark	Implementation Period		Source	Support
			From	To		
Organizing at least two consulting services to community	KPI-P-21 Number of annual programs of partnership and cooperation with society and private sectors.	2	W5-FS, W5-SS	W8-FS, W8-SS	SPSC	
Organizing at least two programs of partnership and cooperation with society and private sectors	KPI-P-21 Number of annual programs of partnership and cooperation with society and private sectors.	2	W8-FS, W8-SS, W8-TS	W11-FS, W11-SS, W11-TS	SPSC	
Organizing volunteer activities for students	KPI-P-27 Percentage of students participating in community services.	4	W1-FS	W13-SS	SPSC	

Organizing volunteer activities for Instructors	KPI-P-32 Percentage of faculty members and other staff who provided community service activities.	4	W1-FS	W13-SS	SPSC	
Writing a report about research published for community	KPI-P-32 Percentage of faculty members and other staff who provided community service activities.	20%	W13-SS	W9-SS	SPSC	
Writing the annual report and submit to strategic planning and steering committee	KPI-P-01 Percentage of achieved indicators of the program operational plan objectives.	-	W11-SS	W11-SS	SPSC	-
Strategic Goal	None					
Sub-goal	None					
Initiative	None					
Committee	Follow-Up Committee					
Activity	KPI	Target Benchmark	Implementation Period		Source	Support
			From	To		
Following the achievement of the EE operation plan	KPI-P-01 Percentage of achieved indicators of the program operational plan objectives.	80%	Weekly		SPSC	
Writing monthly report about achievement with percentages and submit to HOD	KPI-P-01 Percentage of achieved indicators of the program operational plan objectives.	80%	Monthly		SPSC	
Writing a final report about achievements with percentage of achievement. And submit to the HOD	KPI-P-01 Percentage of achieved indicators of the program operational plan objectives.	80%	W9-SS	W10-SS	SPSC	
Writing the annual report and submit to strategic planning and steering committee	KPI-P-01 Percentage of achieved indicators of the program operational plan objectives.	-	W11-TS	W11-TS	SPSC	-
Strategic Goal	Achieving competitiveness in educational program outputs					
Sub-goal	Promote excellence in graduate programs					
Initiative	Improve the quality of graduate programs					
Committee	Quality Committee					

Activity	KPI	Target Benchmark	Implementation Period		Source	Support
			From	To		
Improve the quality of graduate programs	KPI-P-09 Employers' evaluation of the program graduate's proficiency	4/5	W1-FS	W10-SS	College Operation Plan	PCC
	KPI-P-07 Graduates' a) employability and b) enrolment in postgraduate programs					
Preparing the Annual Program Report 21/22	KPI-P-02 Students' Evaluation of quality of learning experience in the program	4/5	W1-FS	W10-FS	Department	PCC
Complete updating of CS and PS based on three semester system	KPI-P-02 Students' Evaluation of quality of learning experience in the program	4/5	W1-FS	W10-FS	Department	PCC
Program learning outcomes assessment plan and reports: Program learning outcomes assessment Plan Program learning outcomes assessment reports	KPI-P-08 Average number of students in the class	25	W1-TS	W10-TS	SPSC	PCC
Writing the annual report and submit to strategic planning and steering committee	KPI-P-01 Percentage of achieved indicators of the program operational plan objectives.	-	W11-SS	W11-SS	SPSC	-