To: Professor Hassan Hamdan Al Alkim, President

From: Prof. Stephen Wilhite, Provost Stephen C. Wilhite
Re: Academic Council Actions AY 2022- 2023 / MTG 4
Date: 11 April 2023

The Fourth Academic Council Meeting was held 11 April 2023 through Microsoft Teams. The main purpose of this meeting was to consider one policy and one procedure and to approve the Curriculum Items submitted by University Curriculum Committee on 22 March 2023.

The Chair and Eight other members attended the meeting. The Chair of the University Curriculum Committee was invited to present the curriculum items endorsed by the University Curriculum Committee.

The Provost applied the motion procedure in considering all of the agenda items.

At its meeting of 11 April 2023 the AURAK Academic Council took the following actions, which I hereby submit for your consideration:

AY 22-23. 4.1 Welcome

- The meeting started at 12:00 pm with welcome remarks made by the Provost.

AY 22-23.4.2 Minutes and Actions from Previous Meeting:

- The Academic Council members unanimously approved Third Academic Council meeting which were circulated on 6th April 2023 without any changes.
- The Action Grid has been updated with respect to the following items:
  - AY 22-23. 2.5
  - AY 22-23. 2.6
  - AY 22-23. 2.7
  - AY 22-23.3.3
  - AY 22-23.2.5

AY 22-23.4.3 Policies and Procedures:

✓ Course File Policy Revision

- The Course File Policy Revision was endorsed by Provost's Council on 24 Jan 2023
- The Academic Council members unanimously approved the Course File Policy Revision without any changes.

✓ Faculty Promotion Procedure Revision

- The Academic Council members unanimously approved the Faculty Promotion Procedure Revision without any changes.
- The Provost highlighted the most important changes about the external review of applicants' research portfolio, including the role of the applicant, department chair, dean, and school promotion committee in the selection of external reviewers.

AY 22-23. 4.4 Curriculum Items

- **The Academic Council members unanimously approved the curriculum actions listed below with 5 amendments:**

1. Senior Design Project I (SDPI) courses:

1.1 Resubmitting SDPI syllabus for all programs showing assessments measures, and how they impact the determination of final grade for the two-semester course sequence, as well as the new content pertaining to the project management topics.
1.2 For SDPI teaching load:

- The school will designate a primary instructor for each course and section whose teaching load will be calculated based on the teaching load and equivalency procedure.
- The school will designate one secondary instructor who will be teaching the project management component for all sections of SDPI courses in a specific semester. The secondary instructor will receive one credit hour teaching load for all sections of the SDPI courses combined.

2. The Mechanical Engineering Program needs to consider options for keeping the total number of required credits the same rather than submitting a substantive change for a one-credit reduction in credits.

3. Include all curriculum changes and the rationale in the annual program review report.

4. ENGR 107 will be (1:3:0) 1 Credit Hour for lecture and 3 Contact Hours for workshop, so the faculty load for this course will be 2.5 credits. The course credit for students will remain 2 credits.

- Curriculum Items submitted by the University Curriculum Committee on 22 and 28 March :

School of Engineering

Undergraduate Programs:

A. Introduction of ENGR 210 (Sustainability in Engineering) in selected SoE programs

- New Course Creation:
  - ✓ ENGR 210 (2 credits)
  - ✓ EEEN 452 "Control Lab" (1 Credit)

Given the key role of sustainability in shaping socio-economic development, engineering graduates are expected to be well-versed in the concept of sustainability and be equipped with basic skills on applying sustainability in their duties. Consequently, the School of Engineering is proposing to introduce a new 2-credit course on sustainability **ENGR 210 (Sustainability in Engineering)** in the curricula of the Civil and Infrastructure Engineering (CIEN),

Mechanical Engineering (ME) and Electrical and Electronics Engineering (EEE) programs. A proposal will be submitted later in Spring 2023 by the Chemical Engineering (CE) and Petroleum Engineering (PE) programs to include ENGR210 in their curricula. The CE and PE have opted to postpone their submission given that they are considering making significant changes to their programs, and it would be therefore more suitable to include ENGR 210 as part of these changes. The Computer Science, AI & Computer Engineering are proposing to include another course on sustainability ENVS 102 as a required natural sciences course in their curricula. The Architecture & Interior Design programs already have ENVS102 as part of their curricula.

- Programs Modifications:

To accommodate the inclusion of ENGR 210 in the CIEN, EEE and ME programs, the following changes are proposed by these programs:

1. BS in Civil & Infrastructure Engineering

- The CIEN program proposes to replace the 2-credit course CIEN 250 (Engineering in Global Environment) with ENGR 210. Consequently, there will be no change in the total number of credits for the CIEN program.

2. BS in Electrical and Electronics Engineering

- The EEE program is proposing to replace one of the program's technical electives (3 credits) with ENGR 210 as a required course. The program also proposes to introduce a new 1-credit lab course EEEN 452 "Control Lab". This would result in no change in the total number of credits for the EEE program.

3. BS in Mechanical Engineering

- The ME program proposes to replace one of the program's technical electives with ENGR 210. The 2-credit ENGR 210 is added to the school requirements, not core courses. This would result in reducing the total number of credits for the program from 134 to 133. Consequently, the program has submitted a substantive change form to be submitted for approval by the CAA.

B. Including lectures on project management topics and tools in Senior Design Project I (SDPI) courses

A review of SoE programs has indicated that project management is not covered consistently across the school's programs. To address this issue the SoE is proposing to include lectures on project management in Senior Design Project I (SDPI) courses.

- Change of Existing Course:

This will be achieved by replacing one credit of SDPI courses with a one-hour lecture per week.

The course descriptions, semester credit hours distribution, CLOs, and syllabi of the following SDPI courses have been updated to reflect the proposed changes:

- ✓ CSCI 492 (1:6:0),
- ✓ CENG 492 (1:6:0),
- ✓ CIEN 491 (1:6:0),
- ✓ MENG 491 (1:6:0),
- ✓ EEEN 492 (1:6:0),
- ✓ CHEN 491 (1:9:0),
- ✓ PENG 491 (1:9:0)
  - The teaching load of SPD I will not change. However, we need to include one credit hour for the lecture on project management that will be given to all SPDI courses.

C. Including a workshop component in ENGR 107

- Change of Existing Course:

To equip students with basic machinery skills that will help them in developing their course and senior design projects, the School of Engineering is proposing to include a workshop component in ENGR107 (Introduction to Engineering). The course description, CLOs and syllabus have been updated to reflect these changes. There would be no change to the total number of credits for any program. (1:3:0) will cause a change in the teaching load of the course.

D. Other changes in the CSE programs

- **Programs Modifications:**

In addition to the changes proposed above, the CSE programs are proposing the following changes:

- The Computer Science program is proposing the following:
  - Replace one Free elective with a core course, CSAI 350 (Data Science) to cover the contemporary topic of data science in the computer science program.
  - Make ENVS 102 a Mandatory Course.
  - Remove the two master's level courses, the MEPM 533 and MEPM 511 from the pool of technical electives.
- The Computer Engineering program is proposing the following:
  - Replace one core course CENG 401 (Network servers and architectures) with a core course, CSAI 484 (Internet of things)
  - Make ENVS 102 a Mandatory Course.
  - Remove the two master's level courses, the MEPM 533 and MEPM 511 from the pool of technical electives.
- The Artificial Intelligence program is proposing the following:
  - Replace one Technical elective with a core course, CSAI 484 (Internet of things).
  - Remove the two master's level courses, the MEPM 533 and MEPM 511 pool of technical electives
  - Make ENVS 102 a Mandatory Course.

- Change of Existing Course:
  - Change the pre-requisite for CSAI 452 Natural Language Processing from CSAI 451 (Machine learning) to CSAI 350 (Data Science). Reason: The data science course (CSAI 351) will provide students with the necessary Python knowledge and prepare them well for deep learning. Furthermore, it will allow a smoother progression toward the degree.

E. Other changes proposed by the Mechanical Engineering program

The Mechanical Engineering program is proposing removing the following master-level courses from the pool of technical electives:

- MEPM 511 Project Management Fundamentals
- MEPM 532 Engineering Management
- MEPM 543 Risk Management for Project Managers
- MIEN 511 Infrastructure Planning
- MIEN 514 Environmental and Social Impact Assessment for Sustainable Infrastructure

- MIEN 561 Smart Cities
- MSRE 513 Energy Economics
- MSRE 515 Energy Efficiency and Management
- MSRE 521 PhotoVoltaics
- MSRE 526 Green Buildings

(Please refer to the Summary of Curriculum Changes proposed by the School of Engineering in the excel sheet)

Summary of Changes					
#	**Program**	**Nature of Change**	**Old**	**New**	**Justification**
1	**Electrical and Electronics Engineering (EEEN)**	Reduce the number of EEE technical electives	3 technical electives	2 technical electives	To be able to add the sustainability course.
		Introducing ENGR 210 "Sustainability" course	N/A	A new course (ENGR 210, 2 CH) is added as SoE required course	Sustainability is an important topic for engineering students
		Introducing EEEN 452 "Control Lab"	N/A	A new lab (EEEN 452, 1 CH) is added to the EEE core courses	To equip the students with hands on experience on control systems
		New Credit Hour Distribution	Total core courses in EEE program (71 CH) including 62 CH compulsory and 9 CH technical electives	Total core courses in EEE program (69 CH) including 63 CH	This will ensure improving the program plan by introducing Sustainabilit

			+ 32 CH SoE required courses + 32 CH GenEd Total Credit hours = **135**	compulsory and 6 CH technical electives. + 34 CH SoE required courses + 32 CH GenEd Total Credit hours = **135**	y (2 CH) and Control Lab (1 CH) and keep the same program overall credits hours (135)
		Senior Design Projects EEEN 492- Course description	Conception of senior design project and determination of feasibility of proposed project. Includes development of a preliminary design and implementation plan.	This is the first course of a capstone project that requires students to develop, design, and implement a solution to an engineering problem under the supervision of a faculty advisor. Students are required to consider the ethical,	Initiated by the School of Engineering to include a lecturing component to provide the students with more knowledge on project management

				social and economic implications of their project. The course also introduces project management topics including project life cycle, integration, scope, time, cost, risk, quality, resource, procurement, and communication, with consideration of ethical and professional conduct.	

		Senior Design Projects EEEN 492- CLOs	CLO 1 Design a preliminary system to meet given specifications. CLO 2 Plan a technical project from specification to implementation. CLO 3 Formulate project specifications and study their impact from several perspectives while taking relevant constraints into consideration. CLO 4 Identify and analyze the challenges of similar systems. CLO 5 Operate effectively and present findings in teams.	CLO 1 Design a preliminary system to meet given specifications. CLO 2 Plan a technical project from specification to implementation. CLO 3 Formulate project specifications and study their impact from several perspectives while taking relevant constraints into consideration. CLO 4 Identify and analyze the challenges of similar	

				systems. CLO 5 Operate effectively and present findings in teams. CLO 6 Employ the areas of project management knowledge in the SDP	
2	**Civil and Infrastructure Engineering (CIEN)**	Replace CIEN 250 (Engineering in Global Environment) with ENGR 210 (Sustainability in Engineering)	Total number of credit hours for the CIEN program is 134 credit hours (CIEN 250 is 2 credit hours)	Total number of credit hours for the CIEN program will remain 134 credit hours (ENGR 210 is 2 credit hours)	Both courses cover topics in sustainability but ENGR 210 will be offered to multiple engineering programs and the topics covered will be more global covering

					more areas of sustainability
		Senior Design Projects CIEN 491- Course description	Preparation and starting of project in civil and infrastructure engineering. The project is a multidisciplinary interaction for infrastructure design and management that includes system analysis and inculcates sustainable engineering principles. Includes use of engineering software's especially project management such as MS project, Primavera Project Planner and CYCLONE	This is the first course of a capstone project that requires students to develop, design, and implement a solution to an engineering problem under the supervision of a faculty advisor. Students are required to consider ethical, social and economic implications of their project. The course also	Initiated by the School of Engineering to include a lecturing component to provide the students with more knowledge on project management

				introduces project management topics including project life cycle, integration, scope, time, cost, risk, quality, resource, procurement, communication, with consideration of ethical and professional conduct	

		Senior Design Projects CIEN 491- CLOs	CLO 1 Design a preliminary system to meet given specifications. CLO 2 Plan a technical project from specification to implementation. CLO 3 Formulate project specifications and study their impact from several perspectives while taking relevant constraints into consideration. CLO 4 Identify and analyze the challenges of similar systems. CLO 5 Operate effectively and present findings in teams.	CLO 1 Design a preliminary system to meet given specifications. CLO 2 Plan a technical project from specification to implementation. CLO 3 Formulate project specifications and study their impact from several perspectives while taking relevant constraints into consideration. CLO 4 Identify and analyze the challenges of	

				similar systems. CLO 5 Operate effectively and present findings in teams. CLO 6 Employ the areas of project management knowledge in the SDP	
3	**Mechancial Engineering (MENG)**	Change the number of Technical Electives	9 CH (3 Technical Electives)	6 CH (2 Technical Electives)	School of engineering decided to add a 2-credit sustainability course to selected engineering programs.
		Add ENGR 210 course about sustainability as an SoE requirement in ME	Total core courses in ME (72 CH) including 63 CH compulsory and 9 CH technical electives	Total core courses in Mechanical Engineering (69 CH) including 63 CH	The mechanical and industrial engineering department approved

				compulsory and 6 CH technical electives. E NGR 210 sustainability course is added as school of engineering requirement. The program submitted a substantive change application since the total number of credits in the program is reduced by one credit.	adding ENGR 210 (sustainability in Engineering) to ME core courses
		Removing Master courses from technical electives	MEPM 511 Project Management Fundamentals MEPM 532 Engineering Management	Remove MEPM 511 Project Management Fundamentals Remove MEPM 532 Engineering	Following the instructions of the provost to remove graduate courses from undergradua

				Management	te technical electives.
			MEPM 543 Risk Management for Project Managers	Remove MEPM 543 Risk Management for Project Managers	
			MIEN 511 Infrastructure Planning	Remove MIEN 511 Infrastructure Planning	
			MIEN 514 Environmental and Social Impact Assessment for Sustainable Infrastructure	Remove MIEN 514 Environmental and Social Impact Assessment for Sustainable Infrastructure	
			MIEN 561 Smart Cities	Remove MIEN 561 Smart Cities	
			MSRE 513 Energy Economics	Remove MSRE 513 Energy Economics	
			MSRE 515 Energy Efficiency and Management	Remove MSRE 515 Energy	

			MSRE 521 PhotoVoltaics MSRE 526 Green Buildings	Efficiency and Management Remove MSRE 521 PhotoVoltaics Remove MSRE 526 Green Buildings	
		Senior Design Projects MENG 491 -Course Description	The course requires students to work in small design teams to solve a significant engineering problem. Students develop, design, and implement a solution to the engineering problem in conjunction with a faculty advisor. The course reinforces principles of the engineering design process and serves as a capstone for mechanical engineering knowledge obtained in the ME curriculum. The consideration of the ethical and social implications of technology and the basic concepts of business are also aspects of the course.	This is the first course of a capstone project that requires students to develop, design, and implement a solution to an engineering problem under the supervision of a faculty advisor. The course also introduces project	Initiated by the School of Engineering to include a lecturing component to provide the students with more knowledge on project management

				management topics including project life cycle, integration, scope, time, cost, risk, quality, resource, procurement, and communication, with consideration of ethical, economical, social and professional conduct.	

		Senior Design Projects MENG 491 - CLOs	CLO 1 Design a preliminary system to meet given specifications. CLO 2 Plan a technical project from specification to implementation. CLO 3 Formulate project specifications and study their impact from several perspectives while taking relevant constraints into consideration. CLO 4 Identify and analyze the challenges of similar systems. CLO 5 Operate effectively and present findings in teams.	CLO 1 Design a preliminary system to meet given specifications. CLO 2 Plan a technical project from specification to implementation. CLO 3 Formulate project specifications and study their impact from several perspectives while taking relevant constraints into consideration. CLO 4 Identify and analyze the challenges of similar	

				systems. CLO 5 Operate effectively and present findings in teams. CLO 6 Employ the areas of project management knowledge in the SDP	

4	**Chemical Engineering (CHEN)**	Senior Design Projects CHEN 491-Course Description	The Senior Design Project entails team work involving development of a two semester long workflow that includes preparing and presenting a proposal for a major design work. The design work may involve physico-chemical process design and testing, or simulation workflow design related to one or more chemical engineering activities, such as, reaction, separation, mass or heat transfer and dynamic and control– with due consideration of economic, environmental and societal impacts. The SDP-I entails finalizing the proposal by interacting with the Faculty Supervisor. A progress report is due that includes the following: objective, review of literature, statement of the problem, scope of work, description of tasks to be executed and task plan. The recognition of the ethical and legal principles are also aspects of the course. Most of the tasks are planned to be pursued and finalized in Senior Design Project-II for the following semester.	The Senior Design Project entails team work involving development of a two-semester long workflow that includes preparing and presenting a proposal for a major design work. The design work may involve physic-chemical process design and testing, or simulation workflow design related to one or more chemical engineering	Initiated by the School of Engineering to include a lecturing component to provide the students with more knowledge on project management

				activities, such as, reaction, separation, mass or heat transfer and dynamic and control– with due consideration of economic, environmental and societal impacts. The course also introduces project management topics including project life cycle, integration, scope, time, cost, risk, quality, resource, procurement, communication, with consideratio	

				n of ethical and professional conduct.	

		Senior Design Projects CHEN 491- CLOs	CLO 1 Design a preliminary system to meet given specifications. CLO 2 Plan a technical project from specification to implementation. CLO 3 Formulate project specifications and study their impact from several perspectives while taking relevant constraints into consideration. CLO 4 Identify and analyze the challenges of similar systems. CLO 5 Operate effectively and present findings in teams.	CLO 1 Design a preliminary system to meet given specifications. CLO 2 Plan a technical project from specification to implementation. CLO 3 Formulate project specifications and study their impact from several perspectives while taking relevant constraints into consideration. CLO 4 Identify and analyze the challenges of	

				similar systems. CLO 5 Operate effectively and present findings in teams. CLO 6 Employ the areas of project management knowledge in the SDP	
5	**Petroleum Engineering (PENG)**	Senior Design Projects PENG 491 -Course Description	A significant design effort in one area of petroleum operations. Design is based on fundamental understanding of petroleum and reservoir engineering concept and a critical review of literature of current state of knowledge for the subject under consideration. Projects may involve analysis and computer program development and/or usage combined with experimental work. Topics for projects may be developed with industry cooperation.	The Senior Design Project entails team work involving development of a two-semester long workflow that includes preparing and presenting a proposal for a major design work.	Initiated by the School of Engineering to include a lecturing component to provide the students with more knowledge on project management

				Throughout the course students are required to develop, design and implement a solution to one of the petroleum engineering problem under the supervision of a faculty advisor. The course also introduces project management topics including project life cycle, integration, scope, time, cost, risk, quality, resource, procurement, and communicati on, with	

				consideration of ethical, economic, social and professional conduct.	
		Senior Design Projects PENG 491 -CLOs	CLO 1 Design a preliminary system to meet given specifications. CLO 2 Plan a technical project from specification to implementation. CLO 3 Formulate project specifications and study their impact from several perspectives while taking relevant constraints into consideration. CLO 4 Identify and analyze the challenges of similar systems. CLO 5 Operate effectively and present findings in teams.	CLO 1 Design a preliminary system to meet given specifications. CLO 2 Plan a technical project from specification to implementation. CLO 3 Formulate project specifications and study	

				their impact from several perspectives while taking relevant constraints into consideration. CLO 4 Identify and analyze the challenges of similar systems. CLO 5 Operate effectively and present findings in teams. CLO 6 Employ the areas of project management knowledge in the SDP	

6	**Computer Science and Engineering (CSCE)**	**Computer Engineering**	Replacing one core course	CENG 401	CSAI 484	As part of our efforts to modernize the program, we benchmarked and found that the Internet of Things System (CSAI 481) is now integrated into many top-ranked universities' CE study plans, helping students to gain more experience and enrich their portfolios. In place of CENG 401 (Network Servers & Architecture), another core course

						called CSCI 462 (Data Communications and Computer Networks) will cover the main networking courses.
			Make an elective Gen Ed course mandatory	ENVS 102 (Sustainability and Human-Environment Relations) is an elective course in Natural Science Gen Ed	Make the ENVS 102 a mandatory course	By making the course a core rather than an elective, we will increase awareness of the importance of sustainability and its impact on our economy, society, and environment. This also fits into the UAE's 2030 Sustainable

						Development Agenda.
			Senior Design Projects CENG 492- Course description	The course requires seniors to work in small teams to solve significant problems. Over the duration of CENG 492 and CENG 493, students design, implement, and evaluate a solution to the problem in conjunction with a faculty advisor. The course reinforces gained design principles and serves as a capstone for computing knowledge obtained in the BSCE curriculum. The recognition of the ethical and legal principles are also aspects of the course.	This is the first course of a capstone project that requires students to develop, design, and implement a solution to an engineering problem under the supervision of a faculty advisor. Students are required to consider the ethical, social, and economic implications of their project. The	Initiated by the School of Engineering to include a lecturing component to provide the students with more knowledge on project management

					course also introduces project management topics including project life cycle, integration, scope, time, cost, risk, quality, resource, procurement, and communication, with consideration of ethical and professional conduct.	

			Senior Design Projects CENG 492- CLOs	CLO 1 Design a preliminary system to meet given specifications. CLO 2 Plan a technical project from specification to implementation. CLO 3 Formulate project specifications and study their impact from several perspectives while taking relevant constraints into consideration. CLO 4 Identify and analyze the challenges of similar systems. CLO 5 Operate effectively and present findings in teams.	CLO 1 Design a preliminary system to meet given specifications. CLO 2 Plan a technical project from specification to implementation. CLO 3 Formulate project specifications and study their impact from several perspectives while taking relevant constraints into consideration. CLO 4 Identify and analyze the challenges of similar	

					systems. CLO 5 Operate effectively and present findings in teams. CLO 6 Employ the areas of project management knowledge in the SDP	
		Artificial Intelligence	Replacing one technical elective with a core course	3 Technical Electives	2 Technical electives + CSAI 484 as a core	As part of our efforts to modernize the program, we benchmarked and found that the Internet of things System (CSAI 484) is now integrated into many

						top-ranked universities' AI study plans, helping students to gain more experience and enrich their portfolios.
			Make an elective Gen Ed course mandatory	ENVS 102 (Sustainability and Human-Environment Relations) is an elective course in Natural Science Gen Ed	Make the ENVS 102 a mandatory course	By making the course a core rather than an elective, we will increase awareness of the importance of sustainability and its impact on our economy, society, and environment. This also fits into the UAE's 2030 Sustainable

						Development Agenda.
		Computer Science	Replacing one free elective with a core course	2 Free electives	1 Free elective + CSAI 351 as a core	As part of our efforts to modernize the program, we benchmarked and found that the Data Science (CSAI 351) is now integrated into many top-ranked universities' CS study plans, helping students to gain more experience and enrich their portfolios.

			Make an elective Gen Ed course mandatory	ENVS 102 (Sustainability and Human-Environment Relations) is an elective course in Natural Science Gen Ed	Make the ENVS 102 a mandatory course	By making the course a core rather than an elective, we will increase awareness of the importance of sustainability and its impact on our economy, society, and environment. This also fits into the UAE's 2030 Sustainable Development Agenda.

			Senior Design Projects CSCI 492- Course description	The course requires seniors to work in small teams to solve significant problems. Over the duration of CENG 492 and CENG 493, students design, implement, and evaluate a solution to the problem in conjunction with a faculty advisor. The course reinforces gained design principles and serves as a capstone for computing knowledge obtained in the BSCE curriculum. The recognition of the ethical and legal principles are also aspects of the course.	This is the first course of a capstone project that requires students to develop, design, and implement a solution to a computing problem under the supervision of a faculty advisor. Students are required to consider the ethical, social, and economic implications of their project. The course also introduces project management topics including project life cycle,	Initiated by the School of Engineering to include a lecturing component to provide the students with more knowledge on project management

					integration, scope, time, cost, risk, quality, resource, procurement, and communication, with consideration of ethical and professional conduct.	
			Senior Design Projects CSCI 492- CLOs	CLO 1 Design a preliminary system to meet given specifications. CLO 2 Plan a technical project from specification to implementation. CLO 3 Formulate project specifications and study their impact from several perspectives while taking relevant constraints into consideration. CLO 4 Identify and analyze the challenges of similar systems. CLO 5 Operate effectively and present findings in teams.	CLO 1 Design a preliminary system to meet given specifications. CLO 2 Plan a technical project from specification to implementation. CLO 3 Formulate project specifications and study	

					their impact from several perspectives while taking relevant constraints into consideration. CLO 4 Identify and analyze the challenges of similar systems. CLO 5 Operate effectively and present findings in teams. CLO 6 Employ the areas of project management knowledge in the SDP	
		For all the programs- Removing two technical electives		MEPM 533-Information Systems for Project Management MEPM 511- Project Management Fundamentals	Remove MEPM 533 and MEPM 511 from technical	These two courses are Masters level and are not

				elective pool	appropriate for undergraduates
7	**Introduction to Engineering ENGR 107 (1:3:0)**	Introduction to Engineering ENGR 107- Course description	Introduces engineering profession fundamentals and problem solving. Topics include description of engineering disciplines, functions of the engineer, professionalism, ethics and registration, problem solving and representation of technical information, estimation and approximations, and analysis and design.	This course introduces functions of the engineer, professionalism, engineering ethics, problem-solving techniques, presentation of technical information, estimation, analysis, and design. The course will include a workshop where students develop basic skills in hand filing, turning, welding, carpentry,	Initiated by the School of Engineering to include a workshop component in ENGR107 to develop basic hands-on skills in using machinery.

				sheet metal fabrication, metal forming, and basic electric circuit connections.	
	(EEEN,CIEN,MENG,CHEN,PENG,CSCE)	Course Learning Outcomes (CLOs)	CLO 1: Identify and describe engineering profession fundamentals and problem-solving skills CLO 2: Describe basic concepts in the field such as engineering disciplines, functions of the engineer, professionalism and ethics. CLO 3: Implement the basic engineering design steps. CLO 4: Employ correct Dimensions, Units, and Conversions CLO 5: Explain the differences between different engineering disciplines	CLO 1: Identify engineering profession fundamentals and problem-solving skills CLO 2: Describe as the main elements of engineering disciplines, functions of the engineer, professionalism, and ethics. CLO 3: Implement	

				the basic engineering design steps. CLO 4: Employ correct dimensions, units, and conversions CLO 5: Implement basic engineering workshop skills and practice different manufacturing processes. CLO 6: Describe the concepts of safety and precaution systems and tool handling	

8	**Sustainability in Engineering ENGR 210 (New Course)**	Course Learning Outcomes (CLOs)		CLO 1: Explain the role of engineers in sustainable development CLO 2: Recognize environmental changes and their impact CLO 3: Describe the Life Cycle Assessment process CLO 4: Identify the main features of a sustainable engineering system CLO 5: Describe role of sustainability in business management	Given the key role of sustainability in shaping socio-economic development, the ENRG 210 course is introduced to enable engineering graduates to be well-versed in the concept of sustainability and equip them with basic skills on applying sustainability in their duties
		Credit Hours		2 CH	

		Pre - requisites		N/A	
		Course Description		This course introduces engineering students to the contemporary issue of sustainability and how it should guide engineering practice and design. Topics covered include sustainability concepts, SDGs, climate change, environmental issues, life cycle assessment, sustainable engineering systems (infrastructure, buildings,	

				clean energy, and smart cities), and sustainable business management .	

AY 22-23. 4.5 Any other relevant business:

- ✓ The next Provost's Council Meeting will discuss any potential proposal for new programs in all schools.
- ✓ The CSEO will be invited to the next Provost's Council Meeting as a participant in the discussion of potential new programs.
- ✓ The deadline for submitting curriculum changes to the University Curriculum Committee for implementation next fall 15th May 2023.

Notes:

- The final recommended Policy and Procedure will be submitted by Ms. Amanda Fiona Forte, Chief Strategy and Excellence Officer, on behalf of Academic Council.

The meeting was adjourned at 2:00 pm. The minutes of meeting will be sent soon.