

الموضوعات التي تستهدف التنمية المستدامة
خريف ٢٠٢٣/٢٠٢٤

الكلية /هندسة - قسم الهندسة الكهربائية

أ- برنامج هندسة الاتصالات والإلكترونيات والكهربائية:


الهدف المستهدف من اهداف التنمية المستدامة	الموضوع	الفرقة الدراسية	اسم المقرر	كود المقرر	م
Goal (3): Good Health and Well-being. Goal (7): Affordable and Clean Energy. Goal (11): Sustainable Cities and Communities. Goal (12): Responsible Consumption and Production. Goal (13): Climate Action.	Green Hydrogen Production Era in Egypt & Cop-27.	Second	Energy Systems	EE 271	١
Goal (3): Good Health and Well-being. Goal (7): Affordable and Clean Energy. Goal (9): Industry, Innovation and Infrastructure. Goal (11): Sustainable Cities and Communities. Goal (12): Responsible Consumption and Production.	Integrated Circuits (IC) Industry.	Third	Micro-Electronic Devices and Circuits	EE 228	٢
Goal (9): Industry, Innovation and Infrastructure. Goal (13): Climate Action.	Earth Observation Satellite.	Fourth	Digital Communications (1)	EE 255	٣
Goal (9): Industry, Innovation and Infrastructure. Goal (11): Sustainable Cities and Communities.	1- IOT and M2M applications in 5G.	Fifth	Communication Systems	EE 350	٤
Goal (3): Good Health and Well-being. Goal (9): Industry, Innovation and Infrastructure.	2- Possible health hazards of 5G and introduction to 6G.				

ب- برنامج هندسة القوى الكهربائية والتحكم:

الهدف المستهدف من اهداف التنمية المستدامة	الموضوع	الفرقة الدراسية	اسم المقرر	كود المقرر	م
Goal (3): Good Health and Well-being. Goal (7): Affordable and Clean Energy. Goal (11): Sustainable Cities and Communities. Goal (12): Responsible Consumption and Production. Goal (13): Climate Action.	Green Hydrogen Production Era in Egypt & Cop-27.	Second	Energy Systems	EE 271	١
Goal (3): Good Health and Well-being. Goal (7): Affordable and Clean Energy. Goal (9): Industry, Innovation and Infrastructure. Goal (11): Sustainable Cities and Communities. Goal (12): Responsible Consumption and Production.	Integrated Circuits (IC) Industry.	Third	Micro-Electronic Devices and Circuits	EE 228	٢
Goal (3): Good Health and Well-being. Goal (9): Industry, Innovation and Infrastructure.	1- Protective grounding systems to avoid electrical shock hazards.	Fourth	Electrical Safety	EE 274	٣
Goal (3): Good Health and Well-being. Goal (9): Industry, Innovation and Infrastructure.	2- Safety Limit Calculations to IEEE and IEC Standards to minimize step and touch potential hazards in working space.				
Goal (3): Good Health and Well-being. Goal (9): Industry, Innovation and Infrastructure. Goal (13): Climate Action.	3- Influence of Electromagnetic Pollution of High-Voltage Over-Head Lines on Living Organisms.				
Goal (3): Good Health and Well-being. Goal (9): Industry, Innovation and Infrastructure. Goal (13): Climate Action.	4- Protective techniques keep safety of structure buildings against lightning and electrostatic charges.				
Goal (3): Good Health and Well-being. Goal (7): Affordable and Clean Energy. Goal (9): Industry, Innovation and Infrastructure.	5- Specification of electrical plants and classification of safety equipment for various hazardous locations.				

Goal (7): Affordable and Clean Energy. Goal (9): Industry, Innovation and Infrastructure. Goal (11): Sustainable Cities and Communities. Goal (12): Responsible Consumption and Production.	1- Voltage Sags Mitigation Techniques	Fifth	Power System Quality	EE 374	ε
Goal (7): Affordable and Clean Energy. Goal (9): Industry, Innovation and Infrastructure. Goal (11): Sustainable Cities and Communities. Goal (12): Responsible Consumption and Production.	2- Power System Harmonics Mitigation Techniques				

Head of Department
 Prof. Dr. Mohammed Hamdy
 10/7/2023


 9/10/2023