MODEL ROUTE

School:	School of Engineering Technology and Applied Science - SDRE	Program Number:	3775

Program Title:	**Energy Systems Engineering Technician**	Credential:	☐ Certificate ☐ Graduate Certificate ☐ Degree ☑ Diploma ☐ Advanced Diploma

Program Delivery Mode:	☐ Co-Op ☐ Online ☑ Fast Track ☐ Hybrid ☑ Non Co-op	Duration :	☑ 2 Semesters ☐ 3 Semesters ☐ 4 Semesters ☐ 6 Semesters ☐ 8 Semesters

Campus:	**Progress Campus**

Intake:	**Fall 2022 or Winter 2023**

Course Code	Course Title	Co/Pre Requisite (Course Code)	Lab Hours	Lecture Hours	Field Placement Hours	Course Delivery ODL=Online BLD=Blended HYB = Hybrid	Total Course Hrs (Lab + Lecture + Field)	Weeks (14)	Total Hours
Semester 3				**Fall 2022 or Winter 2023**					
ESET-211	Digital & Power Electronics		2	2			4	14	56
ESET-212	Boilers & Auxiliaries		2	2			4	14	56
ESET-213	Renewable Energy System		2	2			4	14	56
ESET-215	Electronic Devices & Digital Electronics		2	3			5	14	70
ESET-216	Mechanics and Materials		1	2		ODL	3	14	42
ESET-217	Introduction to AutoCAD		3	0			3	14	42
COMM-170/171	College Communications 2		0	3			3	14	42
							Total		364
Semester 4				**Winter 2023 or Summer 2023**					
ESET-221	Fluid Mechanics & Dynamics	PHYS-100, MATH-170 or FT Code	1	3			4	14	56
ESET-222	Wind and Solar Energy	ESET-213	2	2			4	14	56
ESET-223	Power Engineering and HVAC	ESET-212	2	2			4	14	56
ESET-224	Design Project	ESET-213	3	1			4	14	56
ESET-225	Pneumatic/PLC	ESET-211	2	3			5	14	70
GNED-500	Global Citizenship: From Social Analysis to Social Action◈		0	3		ODL, BLD, HYB	3	14	42
							Total		336
							Total Program Hours:		**700**

C = Co-Requisite; P = Pre-Requisite

Notes:

◈This course may be offered in one of the following modalities (Online, Hybrid or Blended)

Signature:	*Clarence Cheung*	24-Mar-22
	School Dean/Chair	Revised Date