

Semester 1 Course Structure

Teaching Unit	Total Hours (VHS)	Weekly Hours (V.H weekly)				Coeff	Credits	Evaluation Mode	
	14-16 weeks	Lec. (C)	Tut. (TD)	Lab. (TP)	Other			Continu ous	Exams
Fundamental Teaching Unit	13h30					9	18		
Energy Sources	67h30	3h	1h30			3	6	33,33%	66,67%
Advanced Fluid Mechanics	67h30	3h	1h30			3	6	33,33%	66,67%
Heat Transfer	67h30	3h	1h30			3	6	33,33%	66,67%
Methodology Teaching Unit	9h					6	9		
Heat Transfer Lab	45h			3h		2	3	50%	50%
Numerical Methods & Programming	45h	1h30		1h30		2	3	50%	50%
Applied Electrical Engineering	45h	3h				2	3	50%	50%
Discovery Teaching Unit (Choose 1 subject)	1h30					1	2		
Hydraulic Energy	22h30	1h30				1	2		100%
Solar Habitats									
Transversal Teaching Unit	1h30					1	1		
Scientific English I	22h30	1h30				1	1		100%
Entire Semester 1	382h30	16h30	4h30	4h30		17	30		

Semester II

Teaching Unit	Total Hours (VHS)	Weekly Hours (V.H weekly)				Coeff	Credits	Evaluation Mode	
	14-16 weeks	Lec. (C)	Tut. (TD)	Lab. (TP)	Other			Continu ous	Exams
Fundamental Teaching Unit	13h30					9	18		
Applied Thermodynamics	67h30	3h	1h30			3	6	33,33%	66,67%
Applied Fluid Mechanics	45h	1h30	1h30			2	4	33,33%	66,67%
Photovoltaic Conversion	45h	1h30	1h30			2	4	33,33%	66,67%
Solar Resources & Collectors	45h	1h30	1h30			2	4	33,33%	66,67%
Methodology Teaching Unit	9h					6	9		
Fluid Mechanics Lab	45h			3h		2	3	50%	50%
Research Initiation & Scientific Computing Tools	45h	1h30	1h30			2	3	50%	50%
Radiation	45h	3h				2	3	50%	50%
Discovery Teaching Unit (Choose 1 subject)	1h30					1	2		
Biomass Energy	22h30	1h30				1	2		100%
Thermal Insulation & Efficiency									
Turbomachinery									
Transversal Teaching Unit	1h30					1	1		

Scientific English II	22h30	1h30				1	1		100%
Entire Semester II	382h30	15h	7h30	3h		17	30		

Semeter III

Teaching Unit	Total Hours (VHS)	Weekly Hours (V.H weekly)				Coeff	Credits	Evaluation Mode	
	14-16 weeks	Lec. (C)	Tut. (TD)	Lab. (TP)	Other			Continu-ous	Exams
Fundamental Teaching Unit	13h30					9	18		
Hybrid Systems	45h	1h30	1h30			2	4	33,33%	66,67%
Wind Energy	45h	1h30	1h30			2	4	33,33%	66,67%
Heat & Mass Exchangers	67h30	1h30	1h30	1h30		3	6	33,33%	66,67%
Fuel Cells & Hydrogen Production	45h	1h30	1h30			2	4	33,33%	66,67%
Methodology Teaching Unit	9h					6	10		
MTU1									
La Thermoélectricité	45h	1h30		1h30		2	3	50%	50%
Physique atomique	45h	1h30	1h30			2	3	50%	50%
MTU 2 (Choose 2 subject)									
Stockage de l'énergie solaire	22h30	1h30				1	2		100%
Semi-conducteurs	22h30	1h30				1	2		100%
Energie Géothermique	22h30	1h30				1	2		100%
Discovery Teaching Unit (Choose 1 subject)	1h30					1	1		
Ethique et de déontologie de travail	22h30	1h30				1	1		100%
Transversal Teaching Unit	1h30					1	1		
Gestion des entreprises	22h30	1h30				1	1		100%
Entire Semester III	382h30	15h	7h30	3h		17	30		