

Semester IX

SL. NO.	UG/PG	CODE NO.	NAME OF SUBJECT	PERIODS			EVALUATION SCHEME				SUBJECT TOTAL
				L	T	P	SESSIONAL EXAM			EXAM. ESE	
							CT	TA	TOTAL		
01.	PG	EC 621	Design, Modeling and analysis of solar cells and systems	3	1	0	30	20	50	100	150
02.	PG	EC 622	Energy economics, management, auditing, policy & Entrepreneurship	3	1	0	30	20	50	100	150
03	PG	EC 623	Solar collectors & solar thermal systems	3	1	0	30	20	50	100	150
04.	PG	EC 624	Balance of systems in solar technology	3	1	0	30	20	50	100	150
05.	PG		*Elective-1	2	1	0	15	10	25	75	100
06.	PG		*Elective-2	2	1	0	15	10	25	75	100
07.	PG		*Elective-3	2	1	0	15	10	25	75	100
08.	PG	EC 630	Seminar-I	0	0	3	10	10	20	30	50
09.	PG	EC 631	^b Solar Hardware Lab	0	0	3	30	20	50	50	100
10.	PG	EC 632	GP	-	-	-	-	-	50	-	50
			TOTAL								1100

*Three distinct electives have to be chosen by the student from the following list

List of Electives:

- EC 625 Energy efficient buildings and systems
- EC 626 Solar products and applications
- EC 627 Advanced and hybrid energy storage
- EC 628 Optics in Solar Energy Applications
- EC 629 Nanomaterials use in Solar Applications

Labs:

^aPrograms on modeling and characterization of solar cell and solar system design on open source software

^bAny of eight experiments

1. Measurement of current and power of a load
2. Flat plate collector testing
3. PV cell characterization
4. PV panel characterization
5. Estimation of efficiency of solar PV panels
6. Effect of shadow & tilt angle on solar PV panels
7. Study on solar PV panel in series and parallel combination
8. Study on charging characteristics of a load acid battery using solar PV panels
9. Study of 500W PV power plant DC/AC
10. Performance evaluation of concentrating solar collector
11. Estimation of efficiency of solar collector
12. Performance evaluation of solar Cooker

Semester X

SL. NO.	UG/PG	CODE NO.	NAME OF SUBJECT	PERIODS			EVALUATION SCHEME				SUBJECT TOTAL
				L	T	P	SESSIONAL EXAM			EXAM. ESE	
							CT	TA	TOTAL		
01.	PG	EC 633	Tour	0	0	0	0	0	0	150	150
02.	PG	EC 634	Seminar	0	0	0	50	50	100	50	150
03	PG	EC 635	Dissertation & field interaction	-	-	-	-	-	250	500	750
04.	PG	EC 636	GP	0	0	0	0	0	50	0	50
			TOTAL	0	0	0	0	0	400	700	1100