Teaching Schedule Per Week		Progressive		Examination Schedule (Marks)								
Lectures Practical		Credits	Assessment		Theory		Practical Ex.		Total			
3		3		25	3Hrs.	100		•	t	25		
Pre-re	equisite	Source			Theory	Test	Total	TW	PR	Gr T	otal	
	Nil	MCL	Semeste	er 🗖	75	25	100			10	00	
Jpdated o	on 8/ 8/ 200	0	n the country			1						
non-con energy f	ventional sou or power gen	eration, which	comes necess ches & efforts ch in turn can evel as an opti COURSE	mee onal	being made t the power	to utilize demand. I	the non-c	onventio	nal sou	ces of	-	
Differenc Potential hydro-	and limitatio	onventional ons of vario , geotherma	l sources and us renewabl al and bio-m	e 501	ewable sou rrces of en	rces of e ergy like	nergy. solar, wi	ind,	18	5 *		
Non-cond workin of a ty Concentr princip Non-f	entrating so ig of a typic pical air col ating types ple of parabo ocussing col as composition	lar energy of al liquid co lector, with of solar ene olic trough llector: - W d parabolic	lar radiation collectors – l illector, Sola i absorber de ergy collecto reflector, mi orking princ concentrato Working prin	Flat r air tails rs – rror iple rs.	plate collector: (porous an Focussing strip reflect of flat plat	ctor: - Co -Construe nd non-pe collector ctor, frem e collector	ction and prous typ s: - Worl el lens co r augment	e). cing ollector nted wi			·	
	Applicati Space I sun spa system power j basic p Solar w Schema	ons of solar heating: -Pr aces, roof si , basic hot plant. Solar hotovoltaic vater still; S atics. Solar	oond, applica r energy. Wa assive heatin torage conne air system. S r electric poo system for Solar pumpir cooker – Bo	ig sy sctiv Solar wer g pow	stem-direct e loop. Act thermal e generation: er generati Solar num	t gain the tive heati lectric co -Solar p on, appli- n schema	ng syster ny syster nyersion hotovoltu	rage wa n: -Bas : Solar j aics: - P	II, attac ic hot v pond el rinciple	ectric		1
	Hio mass - Bio mass o bio-che Classificat process Types of b	mical conv tion of bio p Dome &	f energy; Di technologie:	s – E Cont Sch	inuous typ	bustion, t	hermal-c e stage p	rocess,	double	stage	7	15
	Basic com Electric Classificat relative wind; A Constructio Applicatio storage; battery	of wind-sp ponents of generating ion of W.E position of According to on of horiz n of wind e ; Wind assi storage. En	,C. systems f the rotor fo o its size; Ac ontal axis ty energy. Basic sted gas -Tu ivironmental	– Ac llow ccore pe w wir urbin	version sy cording to ring the wi ding to out indmill -S ad energy of e generation	stem, phy axis of s nd veloci put powe ingle, two conversion ng unit: V	haft; Nu ty, such r; Rotati o, multi- n system Vind ene	mber of as upwi onal spe blade ty i with e	blades nd, dor ed. pes.	; The vn	10	20
	5. SOURC: Geotherma	I - Sources	, schematic	arrar	ngement si id double b	ngle geot	hermal e	energy.			10	20