

STUDY SCHEME FOR THIRD SEMESTER LATERAL AND ITI PASSED STUDENTS

THIRD SEMESTER (RENEWABLE ENERGY)

Sr. No.	SUBJECTS	Category & Course Type	STUDY SCHEME			Credits	MARKS IN EVALUATION SCHEME										Total Markso f Internal & External
			Periods/Week				INTERNAL ASSESSMENT			EXTERNAL ASSESSMENT							
			L	T	P		Th	Pr	Tot	Th	Hrs	Pr	Hrs	Tot			
3.1	Fundamentals of Renewable energy Resources	Program Core (Theory)	3	1	-	4	40	-	40	60	3	-	-	60	100		
3.2	Solar Photovoltaic	Program Core (Practicum)	2	-	4	4	40	-	40	60	3	-	-	60	100		
3.3	Fundamental of Thermodynamics and Heat Transfer	Program Core (Practicum)	2	-	4	4	40	-	40	60	3	-	-	60	100		
3.4	Renewable Energy Instrumentation Applications	Program Core (Theory)	4	-	-	4	40	-	40	60	3	-	-	60	100		
3.5	Renewable Energy Instrumentation Applications Laboratory	Program Core (Practical)	-	-	8	4	-	60	60	-	-	40	3	40	100		
3.6	*Minor Project		-	-	-	1	-	50	50	-	-	-	-	-	50		
#Student Centred Activities(SCA)			-	-	8	-	-	50	50	-	-	-	-	-	50		
Total			11	1	24	21	160	160	320	240	-	40	-	280	600		

*Lateral entry students shall undertake a minor project and deliver a presentation on the same. This project will serve as an equivalent to Summer Internship-I for the purpose of earning the associated credits and marks..

Student Centered Activities will comprise of co-curricular activities like extension lectures, games, hobby club, etc. g. photography etc., seminars, declamation contests, educational field visits, N.C.C., NSS, library, Cultural Activities and self-study etc.

- 1) Each period will be 60 minutes duration.
- 2) Each session will be of 16 weeks.
- 3) Effective teaching will be at least 14 weeks per session.

**A. COMPULSORY SUBJECT OF I-SEMESTER RENEWABLE ENERGY TO BE TAUGHT IN III SEMESTER TO ITI
PASSED STUDENTS OF TRADES ARE AS FOLLOWS :-**

Sr. No.	SUBJECTS	STUDY SCHEME			Credits	MARKS IN EVALUATION SCHEME									Total Marks of Internal & External
		Periods/Week				INTERNAL ASSESSMENT			EXTERNAL ASSESSMENT						
		L	T	P		Th	Pr	Tot	Th	Hrs	Pr	Hrs	Tot		
1.1	*Mathematics-I	2	1	-	3+0=3	40	-	40	60	3	-	-	60	100	
1.2	*AppliedPhysics-I	3	-	2	3+1=4	40	60	100	60	3	40	3	100	200	
1.3	*AppliedChemistry	3	-	2	3+1=4	40	60	100	60	3	40	3	100	200	
1.4	*CommunicationSkillsin English	3	-	2	3+1=4	40	60	100	60	3	40	3	100	200	
TOTAL		11	1	6	15	160	180	340	240		120		360	700	

(*) It is compulsory to appear & to pass in examination From III Semester To VI Semester, But credit/marks will not be included for division and percentage of obtained marks.

(*) Four Semester (Two Years) of Extra Time will be given after diploma curriculum period (If Required) to pass the above paper (1.1 To 1.4 and 2.1To 2.2) examination (As Per G. O. No. 2221/16-Pra. Shi.-3-2009 Dated 28-08-2009) & Revised G.O. No. 2704/16-Pra.Shi.-3-2013-46(8)/2002 Dated 09-01-2013 and B.T.E Order No. Pra.Shi.Pa/C.D.C./2022/872021 Dated 21.02.22

FOURTH SEMESTER (RENEWABLE ENERGY)

Sr.N o.	SUBJECTS	Category & Course Type	STUDY SCHEME			Credits	MARKS IN EVALUATION SCHEME									Total Marksof Internal & External
			Periods/Week				INTERNAL ASSESSMENT			EXTERNAL ASSESSMENT						
			L	T	P		Th	Pr	Tot	Th	Hrs	Pr	Hrs	Tot		
4.1	Solar Energy	Program Core (Theory)	2	-	-	2	40	-	40	60	3		-	60	100	
4.2	Solar Energy (Lab)	Program Core (Practical)	-	-	6	3	-	60	60	-	-	40	3	40	100	
4.3	Hydraulics and Pneumatics	Program Core (Practicum)	1	-	4	3	-	60	60	-	-	40	3	40	100	
4.4	Wind Energy	Program Core (Practicum)	2	-	4	4	40	-	40	60	3	-	-	60	100	
4.5	Bio-Energy	Program Core (Theory)	2	-	-	2	40	-	40	60	3	-	-	60	100	
4.6	Bio-Energy (Lab)	Program Core (Practical)	-	-	6	3	-	60	60	-	-	40	3	40	100	
4.7	(Q) Open Elective -1 a) Project Management b) Artificial IntelligenceOR	Open Elective	2	-	-	2	50*	-	-	-	-	-	-	-	-	
	*Advance Skill Development	Certification Course	-	-	-		-	-	-	-	-	-	-	-		
4.8	(Q) Essence of Indian Knowledge and Tradition	Audit Course	2	-	-	-	50*	-	-	-	-	-	-	-	-	
#StudentCentredActivities(SCA)			-	-	5	-	-	50	50	-	-	-	-	-	50	
Total			11	-	25	19	120	230	350	180	-	120	-	300	650	

Note -(Q) - It is compulsory to appear & to pass in examination, But marks will not be included for division and percentage of obtained marks.

Advance Skill Development:-

To fulfill the requirements for Advanced Skill Development, a minimum of 20 hours of skill certification is necessary. This certification must be obtained from a recognized national or international agency or institute. The assessment and certification process will be conducted by the respective agency or institute. Students must present their certificate to earn 02 credits for this subject.

** SUMMER INTERNSHIP (4-6 WEEKS) duration to be organized after fourth semester exam. Evaluation will be in fifth semester.

StudentCenteredActivitieswillcompriseofco-curricularactivitieslikeextensionlectures,games,hobbyclubse.g.photographyetc., seminars, declamationcontests,educationalfieldvisits,N.C.C.,NSS, library, CulturalActivitiesandself-studyetc. .

**B.COMPULSORY SUBJECT OF II- SEMESTER RENEWABLE ENERGY TO BE TAUGHT IN IV SEMESTER TO ITI PASSED
STUDENTS OF TRADES ARE AS FOLLOWS :-**

Sr. No.	SUBJECTS	STUDY SCHEME			Credits	MARKS IN EVALUATION SCHEME									Total Marks of Internal & External
		Periods/Week				INTERNAL ASSESSMENT			EXTERNAL ASSESSMENT						
		L	T	P		Th	Pr	Tot	Th	Hrs	Pr	Hrs	Tot		
2.1	*Mathematics-II	3	1	-	4+0=4	40	-	40	60	3	-	-	60	100	
2.2	*AppliedPhysics-II	3	-	2	3+1=4	40	60	100	60	3	40	3	100	200	
TOTAL		6	1	2	8	80	60	140	120	-	40	-	160	300	

(*) It is compulsory to appear & to pass in examination From III Semester To VI Semester, But credit/marks will not be included for division and percentage of obtained marks.

(*) Four Semester (Two Years) of Extra Time will be given after diploma curriculum period (If Required) to pass the above paper (1.1 To 1.4 and 2.1To 2.2) examination (As Per G. O. No. 2221/16-Pra. Shi.-3-2009 Dated 28-08-2009) & Revised G.O. No. 2704/16-Pra.Shi.-3- 2013-46(8)/2002 Dated 09-01-2013 and B.T.E Order No. Pra.Shi.Pa/C.D.C./2022/872021 Dated 21.02.22

Sr No	Name of Courses	L	T	P	Credit
1	Open Elective -1 (Select any one subject of the given list)				
	a) Project Management	2	-	-	2
	b) Artificial Intelligence	2	-	-	2

OR

OPEN ELECTIVE-1 (Advance Skill Development)

SR.NO.	CERTIFICATE COURSES
1.	COURSES CONDUCTED BY CENTRE OF EXCELLENCE (ESTABLISHED BY THIRD PARTY AS: - TATA TECHNOLOGIES. etc)
2.	COURSES CONDUCTED BY INFOSYS PRINGBOARD
3.	COURSES CONDUCTED BY TCS ION
4.	COURSES CONDUCTED BY OTHER RELEVANT GOVERNMENT, INTERNATIONAL/NATIONAL ORGANIZATION OR PLATFORMS OF REPUTE
5.	COURSES CONDUCTED BY AICTE-ELIS AND CENTRALLY FUNDED TECHNICAL INSTITUTES
6.	COURSES CONDUCTED BY C-DAC
7.	COURSES CONDUCTED BY NEILIT