Zone Code 93 College Code 45



# **TOLANI COLLEGE OF ARTS & SCIENCE**

Accredited A by NAAC, Bangalore,
Affiliated with KSKV Kachchh University, Bhuj, Gujarat
(Under the Management of Gandhidham Collegiate Board, Adipur)
Near Railway Station, Adipur (KUTCH) Gujarat. 370 205
Ph. (O) 02836 260698, Fax: 02836 260573

Website: www.tcas.ac.in

Principal: Dr. S.G.Dharmani Email: tcasadipur@yahoo.co.in

## **Skill Enhancement Course**

SEC-I: Basics of Household electricity

Total credits-2 Teaching hours: 60

## **SYLLABUS**

## **Learning Outcomes:**

After completing, students will be able to:

- To learn house wiring & devices.
- Gain self-competency in physics of household appliances.
- To prepare for self identified occupation with green energy and appliance repair.
- Understand and apply basic functions of every appliances.

Unit No.	Topics	Credit/hours
1	Household wiring & devices:	12 Hrs
	Single phase & three phase power.	31
	Use of switch, Pin, holder, tester etc.	57/
	Use of MCB, ELCB, Electric boards.	
2	Lights & fans:	12 Hrs
	LED bulb, LED tube lights, Fans	
	Power ratings (V, I, W)	/
	A ADIPUR KUTCH -	
3	Power consumption:	12 Hrs
	Power consumption meter	
	Inverters	
	Series & parallel connections & loads	
	UPS, Stabilizer	

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4	Solar rooftopsystems:	12 Hrs
	Solar panels,	
	Power inverter	
	Power generation meters	
5	Self-repair at least one appliance	12 Hrs
	#### Assessment:	
	- Weekly quizzes or assignments to assess understanding	
	- Final project evaluation of self-repaired appliance	
	- Optional: Midterm and final exams for comprehensive evaluation	
	#### Resources:	
	- Recommended reference books	=1
	- Basics of Electronics by V.K. Mehta	=
	-Networks, Lines & fields by J. D. Ryder	7.4

# Evaluation methodology: 25 +25 practical College/ University Assessment

Question No.	Type of Questions	Marks
1	Practical performance	15
2	Objective/Viva	10