

Office of the Director (CRTS)
Khulna University of Engineering & Technology

Pre-defined Test under CRTS (EEE)

SL. No.	Name of Test	Remarks
Calibration of meters		
1	Voltmeter (ac/dc)	
2	Ammeter (ac/dc)	
3	Wattmeter (1- ϕ , 3- ϕ)	
4	Energy meter / Watt-hour meter (1- ϕ , 3- ϕ)	
5	Analog Multi-meter / AVO meter	
6	Compact Digital Multi-meter	
7	Digital Multi-meter	
8	Electronic VOM	
9	Frequency meter	
10	Insulation testing meter / Megger	
11	Digital Insulation Resistance Meter	
12	DC/AC clamp meter	
13	Multi core Clamp meter	
14	True RMS Clamp meter	
15	Current Clamp meter	
16	Earth leakage Clamp meter	
17	KVA meters	
18	Harmonic testing meter	
19	Multifunctional Network Power meter	
20	LCR meter	
21	LUX Meter	
22	Phase Rotation meter/Phase Sequence Indicator /Phase Rotation Indicator	
23	Digital Electrical Tester	
24	Continuity and Current Tester	
25	Earth Resistance Tester	
26	Multi-function Tester	
27	Digital Light Meter	
28	Mains Wiring Tester	
29	Digital Loop / PSC Tester	
30	Digital RCD Tester	
31	Digital Loop/PSC Tester & RCD Tester	
32	Multifunction Installation Tester	
33	Laser Distance Meter	
34	Laser Distance Meter with Bluetooth	
35	Microwave Leakage Test Meter	
36	Voltage and Continuity Tester	
37	Analogue Insulation Tester	
38	Low Resistance Ohmmeter	
39	Special Applications Insulation Tester	
40	Insulation Resistance Tester	
41	Portable digital meters	
42	Oscilloscope	
43	Analog Panel meters	
44	Digital Panel meters	
45	Continuity testers	
46	Electrical safety testers	
47	Electrometers	
48	Electrostatic meters	
49	EMF meters	
50	Optical power meter	
51	Welding machine	
52	Digital/Digimatic Micrometer	
53	Digital thermometer	

54	Digital slide caliper	
Testing of Electrical Machines		
55	Generator: Determination of different losses, resistance and reactance of winding, Rating; MW, MVAR etc, Different protection schemes.	
56	Motor (1- ϕ , 3- ϕ , special motors): Ratings, capacity test, losses test, different fault test	
57	Transformer: VA rating, Determination of different losses, resistance and reactance of winding, temperature rise, vector group, double voltage double frequency test and oil test.	
Testing of Solar Home Systems (SHS) Appliances		
58	Solar Batteries: Capacity test, Charging and discharging cycle, Life time, Electrolyte test	
59	DC - DC Converter	
60	Inverter, IPS, UPS	
61	PV Charge Controller	
62	Solar power meter	
63	Solar Power UV-A/B Light Intensity Meter, Lumen	
64	Solar cable	
65	Solar light: Semiconductor light (LED), CFL, Tube light, Lumen Test	
66	Solar panel: Efficiency, Short circuit current, Open circuit voltage and Fill Factor	
Electrical & Electronic component measurement		
67	Resistance (small, medium, high)	
68	Inductance	
69	Capacitance	
70	Electronic component: IC, OP-AMP, transistor, power electronic components.	
Cable test		
71	Cable dc resistance	
72	Current capacity	
73	Cable diameter (direct and imaging method)	
74	Cable insulation, resistance	
75	Cable fault and localization	
76	Optical fiber & parameters	
Power system equipments		
77	Power electronic systems/FACTS testing	
78	Testing of static synchronous compensator (STATCOM)	
79	Testing of Static Var compensation (SVC)	
80	Testing of thyristor controlled series compensation (TCSC)	
81	Testing of unified power flow controller (UPFC)	
82	Testing of automatic power factor improvement plant	
High voltage measurement		
83	Insulation and Continuity Test	
84	HV impulse test	
85	HV Digital Indicator test	
86	High Voltage withstand test of cable	
87	HV potential indicators	
88	Relay testing	
89	Transformer oil test	
90	Transformer test for HV	
91	Machine test for HV	
Signal Processing		
92	Analog dB meters	
93	Circuit tracers or signal tracers	
94	RF noise figure meters	
95	S meters	
96	SWR meters	

97	VU meters	
Electrical wiring and estimation		
98	Domestic Houses	
99	Office and industrial Buildings	
100	Mosque, multipurpose commercial complex	
	Supermarket, Megamall	
101	Lift circuit design	
102	Design & testing of substation	
Design and programming		
103	Printed circuit board (PCB) design	
104	Microcontroller programming	
105	Embedded system design	
106	Electrical & Electronic circuit optimization	
Consultancy on		
107	Examination conducting related to electrical, electronic, communication, computer based electronics, biomedical engineering	
108	Academic curriculum/syllabus preparation	
109	Conducting laboratory class related to electrical circuits, measurement, electronics, measurement, telecommunication, microwave, Power system, protection schemes.	