

Department of Electrical and Electronic Engineering  
 Khulna University of Engineering & Technology  
 Predefined Test under CRTS (EEE)

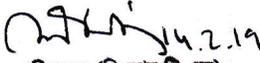
SL. No.	Name of Test	Remarks
<b>Calibration of meters</b>		
1	Voltmeter (ac/dc)	
2	Ammeter (ac/dc)	
3	Wattmeter (1- $\phi$ , 3- $\phi$ )	
4	Energy meter / Watt-hour meter (1- $\phi$ , 3- $\phi$ )	
5	Analog Multi-meter / AVO meter	
6	Compact Digital Multi-meter	
7	Digital Multi-meter	
8	Electronic VOM	
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	

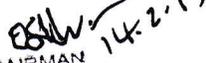
26	Multi-function Tester	
27	Digital Light Meter	
28	Mains Wiring Tester	
29	Digital Loop / PSC Tester	
30	Digital RCD Tester	
31	Digital Loop/PSC Tester & RCD Tester	
32	Multifunction Installation Tester	
33	Laser Distance Meter	
34	Laser Distance Meter with Bluetooth	
35	Microwave Leakage Test Meter	
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	
<b>Testing of Electrical Machines</b>		
55	Generator: Determination of different losses, resistance and reactance of winding, Rating; MW, MVAR etc, Different protection schemes.	

56	Motor (1- $\phi$ , 3- $\phi$ , 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. Routing test of transformers CT and PT test	
<b>Testing of Solar Home Systems (SHS) Appliances</b>		
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	
<b>Electrical &amp; Electronic component measurement</b>		
67	Resistance (small, medium, high)	
68	Inductance	
69	Capacitance	
70	Electronic component: IC, OP-AMP, transistor, power electronic components.	
<b>Cable test</b>		
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	
<b>Power system equipments</b>		
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	
83	SCADA	
<b>High voltage measurement</b>		
84	Insulation and Continuity Test	
85	HV impulse test	
86	HV Digital Indicator test	
87	High Voltage withstand test of cable	
88	HV potential indicators	
89	Relay testing	
90	Transformer oil test	
91	Transformer test for HV	
92	Machine test for HV	
<b>Signal Processing</b>		
93	Analog dB meters	
94	Circuit tracers or signal tracers	
95	RF noise figure meters	
96	S meters	
97	SWR meters	
98	VU meters	
<b>Electrical wiring and estimation</b>		
99	Domestic Houses	
100	Office and industrial Buildings	
101	Mosque, multipurpose commercial complex	
102	Supermarket, Megamall	

103	Lift circuit design	
104	Building protection system	
<b>Design and programming</b>		
105	Printed circuit board (PCB) design	
106	Microcontroller programming related to electrical and Electronic system design	
107	Embedded system design	
108	Electrical and Electronic circuit optimization	
<b>Switchgear and Protection</b>		
109	Design and testing of substation	
110	Testing of CB, LBS, Relay	
111	Lightning protection system (LPS)	
112	Measurement of earth resistance for proper Earthing	
113	Test of MCCB, MCB, MDB, SDB, LDB	
<b>Consultancy on</b>		
114	Examination conducting related to electrical, electronic, communication, computer based electronics, biomedical engineering	
115	Academic curriculum/syllabus preparation	
116	Conducting laboratory class related to electrical circuits, measurement, electronics, measurement, telecommunication, microwave, Power system, protection schemes.	

  
 পরিচালক (সি আর টি এস)  
 খুলনা প্রকৌশল ও প্রযুক্তি বিশ্ববিদ্যালয়

  
 CHAIRMAN  
 CENTRAL CRTS  
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