



# CritaC Infotech

**R&D Projects | Certification Courses | Training**

## **IEEE PROJECT TITLES 2019-20**

**DOMAIN : POWER ELECTRONICS**

**Prabu V,  
Development Manager,  
critacinfotech@gmail.com  
www.critac.org  
+91 95780 11100, +91 9715163446**

**For Abstract, Base Papers and More Titles visit our website.**

S.N	TITLE NAME
1	DC -DC CONVERTER USING PI CONTROLLER USING MATLAB SIMULINK
2	TRANSFORMER LESS GRID CONNECTED PV SYSTEM USING MATLAB SIMULINK
3	THREE PORT DC - DC CONVERTER FOR SOLAR PV SYSTEM USING MATLAB SIMULINK
4	SEPIC CONVERTER USING SLIDING MODE CONTROL USING MATLAB SIMULINK
5	SEPIC WITH BLDC MOTROL CONTROL USING FUZZY LOGIC USING MATLAB SIMULINK
6	SEPIC CONVERTER USING PI CONTROLLER USING MATLAB SIMULINK
7	33 LEVEL MODULAR MULTI LEVEL INVERTER USING MATLAB SIMULINK
8	INTERLEAVED FLY-BACK INVERTER FOR SOLAR PV SYSTEM USING MATLAB SIMULINK
9	A SINGLE SWITCH HIGH STEP-UP CONVERTER
10	DC TO DC CONVERTER WITH SOFT SWITCHING CAPABILITY
11	CONVENTIONAL BUCK CONVERTER
12	DOUBLE FREQUENCY BUCK CONVERTER
13	DC MOTOR SPEED CONTROLLER
14	WIRELESS POWER TRANSMISSION WITH SINGLE PHASE INVERTER
15	DYNAMIC VOLTAGE RESTORER
16	CLOSED LOOP CONTROL OF BOOST CONVERTER
17	CLOSED LOOP CONTROL OF BLDC MOTOR
18	CLOSED LOOP CONTROL OF BUCK BOOST CONVERTER
19	CLOSED LOOP CONTROL OF BUCK BOOST CONVERTER
20	BRIDGELESS BOOST RECTIFIER FOR LOW-VOLTAGE ENERGY HARVESTING APPLICATIONS
21	DC MOTOR CONTROL BY SINGLE PHASE FULL CONVERTER USING ARDUINO
22	SPEED CONTROL OF THREE PHASE INDUCTION MOTOR BY EMPLOYING BOOST CONVERTER
23	SPEED CONTROL OF BLDC MOTOR BY EMPLOYING BOOST CONVERTER
24	SINGLE PHASE MOTOR CONTROL BY EMPLOYING MODIFIED SEPIC CONVERTER WITH INVERTER

25	SPEED CONTROL OF BLDC MOTOR BY EMPLOYING SEPIC CONVERTER
26	SPEED CONTROL OF SINGLE PHASE INDUCTION MOTOR BY EMPLOYING BOOST CONVERTER
27	SINGLE PHASE AC MOTOR CONTROL USING RASPBERRY PI
28	TRANSFORMER BASED MULTILEVEL INVERTER TOPOLOGY WITH REDUCED COMPONENTS
29	CLOSED LOOP CONTROL OF CUK CONVERTER
30	NOVEL SEVEN LEVEL INVERTER USING DSP CONTROLLER
31	SPEED CONTROL OF AC MOTOR USING LUO CONVERTER
32	FIVE LEVEL CASCADED MULTILEVEL INVERTER BY EMPLOYING SEPIC CONVERTER
33	CLOSED LOOP CONTROL FOR SWITCHED CAPACITOR BASED DUAL SWITCH HIGH BOOST CONVERTER
34	NOVEL SEVEN LEVEL DC TO AC INVERTER USING PIC CONTROLLER
35	NEW FIVE-LEVEL ACTIVE NEUTRAL POINT CLAMPED CONVERTER
36	SPEED CONTROL OF AC MOTOR USING BRIDGELESS SEPIC CONVERTER
37	CLOSED LOOP CONTROL OF ZETA CONVERTER
38	ELEVEN LEVEL CASCADED MULTILEVEL INVERTER USING 12 POWER SWITCHES
39	FIVE LEVEL CASCADED MULTILEVEL INVERTER
40	NINE LEVEL CASCADED MULTILEVEL INVERTER
41	NINE LEVEL CASCADED MULTILEVEL INVERTER WITH MOTOR CONTROL
42	ELEVEN LEVEL MULTILEVEL INVERTER WITH REDUCED COMPONENTS
43	SPEED CONTROL OF THREE PHASE INDUCTION MOTOR BY EMPLOYING MODIFIED SEPIC CONVERTER
44	STEP UP DC DC CONVERTER BASED ON THREE WINDING INDUCTOR
45	QUADRATIC BOOST CONVERTER
46	INTERLEAVED HIGH STEP-UP CONVERTER
47	MULTILEVEL INVERTER USING ARDUINO
48	DESIGN AND ANALYSIS OF HIGH GAIN MODIFIED SEPIC CONVERTER
49	CLOSED LOOP CONTROL SCHEME FOR A DC-DC SEPIC CONVERTER

50	SINGLE PHASE INVERTER USING ARDUINO
51	FULL-RANGE SOFT-SWITCHING BUCK-BOOST WITH PI
52	INDUCTION MOTOR SPEED CONTROL USING SPARTAN6 FPGA KIT
53	BLDC MOTOR CONTROL USING DSPIC MICROCONTROLLER
54	IMPROVED MPPT METHOD FOR RAPIDLY CHANGING ENVIRONMENTAL CONDITIONS
55	AVERAGE ABSOLUTE FREQUENCY DEVIATION VALUE BASED ACTIVE ISLANDING DETECTION TECHNIQUE
56	LUO CONVERTER USING PI CONTROLLER USING MATLAB SIMULINK
57	THREE LEVEL DC-DC BOOST CONVERTER CLOSED LOOP USING MATLAB SIMULINK
58	PI CONTROLLER BASED DC-DC BUCK BOOST CONVERTER USING MATLAB SIMULINK
59	ISOLATED DC-DC BUCK BOOST CONVERTER USING MATLAB SIMULINK
60	MULTI LEVEL INVERTER FOR SOLAR PV ARRAY USING MATLAB SIMULINK
61	SINGLE-STAGE BOOST INVERTER FOR PV APPLICATION USING MATLAB SIMULINK
62	PV BASED HIGH STEP UP DC-DC CONVERTER USING MATLAB SIMULINK
63	DFIG BASED WIND TURBINE SYSTEM USING MATLAB SIMULINK
64	THREE LEVEL DC-DC BOOST CONVERTER OPEN LOOP USING MATLAB SIMULINK
65	FULL-RANGE SOFT-SWITCHING ISOLATED BUCK-BOOST CONVERTERS WITH INTEGRATED INTERLEAVED BOOST CONVERTER AND PHASE-SHIFTED CONTROL WITH PI CONTROL
66	FULL-RANGE SOFT-SWITCHING ISOLATED BUCK-BOOST CONVERTERS WITH INTEGRATED INTERLEAVED BOOST CONVERTER AND PHASE-SHIFTED CONTROL
67	OPEN LOOP CONTROL OF BUCK AND BOOST CONVERTER
68	OPEN LOOP CONTROL OF BOOST CONVERTER
69	SINGLE PHASE HALF BRIDGE INVERTER
70	SINGLE PHASE STEP DOWN CYCLOCONVERTER
71	CLOSED LOOP CONTROL OF CHOPPER FED DC MOTOR CONTROL
72	THREE PHASE INDUCTION MOTOR SPEED CONTROL USING DSPIC CONTROLLER KIT
73	SPEED CONTROL OF BLDC MOTOR EMPLOYING ZETA CONVERTER
74	LUO CONVERTER
75	INDUCTION MOTOR CONTROL BY EMPLOYING SEPIC CONVERTER

76	SINGLE PHASE CASCADE 5 LEVEL QUASI Z SOURCE INVERTER
77	TRANSFORMERLESS SINGLE PHASE INVERTER
78	IOT BASED SPEED MONITORING USING PROXIMITY SENSOR
79	IOT BASED THREE PHASE INDUCTION MOTOR SPEED CONTROL AND MONITORING
80	HIGH GAIN FLYBACK CONVERTER
81	FIFTEEN LEVEL INVERTER USING 11 POWER SWITCHES
82	BRIDGELESS AC-DC BUCK CONVERTER
83	BRIDGELESS AC-DC BOOST CONVERTER
84	BOOST CONVERTER
85	ANALYSIS OF PV VOLTAGE GENERATION
86	3 PHASE CASCADED THREE LEVEL INVERTER USING MATLAB SIMULINK
87	3 PHASE CASCADED SEVEN LEVEL INVERTER USING MATLAB SIMULINK
88	CASCADED 5 LEVEL 3 PHASE MULTI LEVEL INVERTER USING MATLAB SIMULINK
89	FIFTEEN LEVEL CASCADED MULTILEVEL INVERTER USING 12POWER SWITCHES
90	SPEED CONTROL OF BLDC MOTOR BY EMPLOYING LUO CONVERTER