

**BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY, DHAKA – 1000**

**DEPARTMENT OF ELECTRICAL AND ELECTRONIC ENGINEERING**

*SERVING THE COUNTRY WITH INNOVATION AND QUALITY IN TESTING & CONSULTANCY*



**AREAS OF CONSULTANCY SERVICES**

Rates will include VAT(15%), University Overhead (30%)

**BRTC-EEE**

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**BRTC Office Time : Sat to Wed 9:00 AM to 5:00 PM, Thursday 9:00 AM to 2:00 PM**

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**AREAS OF CONSULTANCY SERVICES PROVIDED BY THE DEPARTMENT OF  
EEE, BUET**

<b>01</b>	Feasibility study on electrical aspects of residential and commercial buildings, Factories, Hospitals, Mega Projects etc
<b>02</b>	Feasibility Study for Establishment of Cyber Security Center and Data Center
<b>03</b>	Technical and Economic Feasibility Study of Energy Management Systems of commercial facilities such as Airport, Factories, Malls, Hospitals, commercial and residential Buildings etc
<b>04</b>	Planning and Design of power and energy systems, smart grid and nuclear power plants
<b>05</b>	Design of electrical substations, distribution and protection systems
<b>06</b>	Supervisory Control and Data Acquisition (SCADA) system for commercial and industrial applications
<b>07</b>	Design of grid integration of wind, PV and energy storage system
<b>08</b>	Design and vetting of Electrical Services for Buildings, Factories, Malls, Hospitals, Airports etc.
<b>09</b>	Design and vetting of Intelligent Services such as network, data, cable TV, fire alarm system for Buildings, Factories, Malls, Hospitals, Airports etc.

10	Design and vetting of fire safety for Buildings, Factories, Malls, Hospitals, Airports etc.
11	Design and vetting of lighting protection system in residential, academic, commercial and industrial buildings
12	Illumination design of building and open space
13	Grid impact studies of nonlinear loads and renewable generation sources.
14	Installation and commissioning of hybrid power system
15	Comprehensive Study of Power System to formulate an appropriate frequency setting.
16	Design and vetting of Wireless and Cellular Mobile Communications system, Radar and Satellite Communication system
17	Design, Inspection, Commissioning and impact analysis of solar power plant, solar micro grid and solar home system
18	Design and vetting of access control system
19	Technical specification and design of expert system
20	Design and vetting of electric vehicle charging station, Power train, storage and other electrical components
21	Design and vetting of biometric security system, recognition system and digital forensic system
22	Design and vetting of IoT, AI and 4IR system
23	Design and vetting of ground station, RADAR, VHF and satellite TV system
24	Design and vetting of optical DWDM network, GPON
25	Process automation and Programmable Logic Controller (PLC) system design.

26	Consultancy on digital forensic, digital security and other digital system
27	Technical audit related to electrical, electronic and ICT system
28	Expert Opinion on establishment of new high-tech electrical/electronic industry such mobile phone manufacturing industry, transformer and switchgear manufacturing industry, semiconductor design and fabrication industry etc.
29	Expert Opinion on suitable use of transformer, switchgear and electrical conductors in different purpose and objectives
30	Expert opinion on Electrical safety of industrial / commercial / residential / academic installation.
31	Expert opinion on cause analysis of fire and recommendation on safety.
32	Expert opinion on medical equipment for Hospitals, diagnostic and health care control
33	Program development and conduction of Lottery for (a) Allotment of IPO share in Dhaka/Chittagong stock exchange (b) Allotment of plot/flat for various society, e.g., POHS, Rajuk (c) Admission of School/College students by lottery
34	Expert opinion on optical fiber
36	Consultancy work on construction of power plant
37	Consultancy service on Power and Energy policy
38	Specifications design for power plant simulator
39	Compact modelling of semiconductor devices
40	Reliability analysis of semiconductor process and devices

<b>41</b>	Vetting and evaluation of tenders, DPP preparation, technical and legal compliance issues
<b>42</b>	Consultancy services for VAT automation system
<b>43</b>	Consultancy services of drug detection and sensing
<b>44</b>	Tax exemption related (SRO) technical verification/certification of mobile/power plant companies
<b>45</b>	Consultancy service for conduction of recruitment examination (written and viva) in the area of Electrical, Electronic, Power and Energy, ICT, IT, Communication, Control, Automation, Mechatronics, Robotics, Nuclear Power, Biomedical Instrumentation and any other relevant field
<b>46</b>	Consultancy Services related to Electrical, Electronic, Power and Energy, ICT, IT, Communication, Control, Automation, Biomedical Instrumentation and any other relevant area
<b>47</b>	Environmental impact study of any industrial and civil structure (civil, mechanical etc.) related to electrical power and energy
<b>48</b>	Feasibility study for establishment/modernization of any industrial, civil structure etc.
<b>49</b>	Feasibility study of underpass, overpass, intersection, MRT line, underground sub-way line related to power, lightning, surveillance, communication, SCADA monitoring
<b>50</b>	Design and vetting of underpass, overpass, intersection, MRT line, underground sub-way line related to power, lightning, surveillance, communication, SCADA monitoring