The College of Engineering, Architecture and Technology (CEAT) is stepping up to the challenge by committing to be at the forefront of rendering sound engineering/architectural assistance and technical expertise to the Lasallian community in areas of design, construction and applied research. CEAT’s contribution is consistent with the University’s efforts towards its research goals, as penned in the 50-year Cavite Development Research Program, wherein innovations are being pursued in the areas of: agriculture, land use and environmental impacts, urban systems and applied technology, eco-tourism and enterprise development and good governance and cultural heritage analysis.

1. **Scope of Work**

CEAT will undertake the following types of projects depending on the nature of work per program and utilizing the high degree of expertise and area of specialization by the concerned faculty members acting as individual or team consultants. The type of technical services to be provided by the consultant(s) may include consultations, research, investigations and reports, design services for installation works and construction projects, construction supervision services and engineering support services.

1.1 **Civil Engineering (in collaboration with Sanitary Engineering)**

a. Structural analysis and design of buildings and other structures
b. Construction project management *(PERT/CPM work target schedule)*
c. Development of urban and rural water supply system
d. Groundwater development and management
e. Management of flood control and drainage system
f. Development of small scale irrigation system *(gravity dam/weir type)*
g. Integrated urban and transport planning studies
h. Traffic impact assessment studies
i. Transport management system
j. Environmental impact assessment studies
k. Development of fishing ports and landing quays
l. Development of livestock poultry and piggery farm system
m. Solid waste management
n. Pollution and control assessment study
o. Hydrologic and hydraulic model studies
p. Plumbing lay-out system
q. Mass and socialized housing development
r. Development of sanitary, wastewater and sewerage system
s. Development of sewage treatment plants
t. Development of micro-hydroelectric power plant *(civil works)*
u. Construction and supervision

1.2 **Architecture**

a. Architectural design of buildings and other structures
b. Landscape architecture
c. Construction and supervision

1.3 **Mechanical Engineering**
a. Development of HVAC system  
b. Development of fire protection system  
c. Installation of elevator and escalator system  
d. Development of micro-hydroelectric power plant (*mechanical works*)  
e. Mechanized farming and post-harvest facilities  
f. Development of small-scale irrigation system (*motor pump driven type*)  
g. Design of renewable energy system  
h. Construction and supervision

1.4 **Electrical Engineering**
a. Design and supervision on installation of electrical power system  
b. Design and supervision on installation of electrical substation  
c. Design and supervision on installation of lighting system (*Illumination Engineering*)  
d. Design and supervision on installation of motor control center/system  
e. Design of electrical engineering laboratory  
f. Design of renewable energy systems  
g. As-built drawings of existing electrical system  
h. Development of micro-hydroelectric power plant (*electrical works*)  
i. Construction and supervision

1.5 **Electronics Engineering**
a. Design and supervision on installation of telephone system  
b. Design and supervision on Installation of CCTV system  
c. Design and supervision on installation of electronic fire alarm system  
d. Design lay-out and supervision of computer networks installation and Structured Cabling  
e. Design and supervision for building system automation  
f. Design and supervision on installation of solar powered lighting system  
g. Design and supervision on installation of solar powered electrical system  
h. Design and supervision on installation of CATV System

1.6 **Computer Engineering**
a. Systems design and implementation  
b. Network design and administration  
c. Data base management and maintenance  
d. Server management and maintenance  
e. Hardware maintenance  
f. Software development  
g. Web development

1.7 **Industrial Engineering**
a. Project Feasibility study  
b. Productivity improvement  
c. Process and layout improvement  
d. Logistic/supply chain management  
e. System/quality improvement  

**Technical Working Group Composition**  

<table>
<thead>
<tr>
<th>Role</th>
<th>Members</th>
</tr>
</thead>
<tbody>
<tr>
<td>Committee Chairperson</td>
<td>CEAT TWG Head</td>
</tr>
<tr>
<td>Co-Chair</td>
<td>BFMO Director</td>
</tr>
<tr>
<td>Members</td>
<td>BFMO Team Members, CEAT TWG Members, ERMAC, Director, Concerned Consultants, PMO/LCDC/CDC/URO Representative (in case of community based)</td>
</tr>
</tbody>
</table>

**PBAC Composition**  

<table>
<thead>
<tr>
<th>Role</th>
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<tbody>
<tr>
<td>Committee Chairperson</td>
<td>VCFAS/AVCFAS</td>
</tr>
<tr>
<td>Co-Chair</td>
<td>CEAT TWG Head</td>
</tr>
<tr>
<td>Members</td>
<td>BFMO Director, ERMAC, Director, Concerned Consultants, Representative from the Finance department, Representative from the University Compliance Office, Representative from University Legal Counsel Office, PMO/LCDC/CDC/URO Representative (in case of community based assisted projects)</td>
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