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18/ENG04/078

Electrical/Electronics Engineering

1)

Relevance of Engineering law:

* . To be able to hold an engineer to the highest level of moral conduct or suffer litigation if an engineering system fails causing harm to the public including to a maintenance technician.

Relevance of Engineering Economics:

* The Engineering economics theories are used to take decisions related to uncertain and changing business environment in the engineering sector
* As a discipline, it is focused on the branch of economics known as [microeconomics](https://en.wikipedia.org/wiki/Microeconomics) in that it studies the behavior of individuals and firms in making decisions regarding the allocation of limited resources in the engineering sector

Relevance of Engineering management :

* Engineering management is a career that brings together the technological problem-solving ability of [engineering](https://en.wikipedia.org/wiki/Engineering) and the organizational, administrative, and planning abilities of [management](https://en.wikipedia.org/wiki/Management) in order to oversee the operational performance of complex engineering driven enterprises.
* It is relevant to those studying to become engineering managers because they learn how to effectively utilize technical, financial, and human resources. They also hone their conceptual skills such as critical thinking, analytical thinking, and problem-solving.

2)

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| --- | --- | --- | --- | --- | --- |
| ITEM NO. | DESCRIPTION | UNIT | QUANTITY | RATE(₦) | AMOUNT(₦) |
|  | **PROPOSED INSTALLATION OF SOLAR STREET LIGHTING FOR AFE BABALOLA UNIVERSITY** |  |  |  |  |
| 1. | SOLAR PANEL LIGHTS |  | 30 | 50,000.00 | 1,500,000.00 |
| 2. | BATTERY |  | 32 | 200,000.00 | 6,400,000.00 |
| 3. | LIGHTING POINTS AND FITTINGS |  | 72 | 10,000.00 | 720,0000.00 |
| 4. | CONTROLLER |  | 30 | 40,000.00 | 1,200,000.00 |
| 5. | UNDERGROUND PLASTIC BATTERY BOX |  | 41 | 4,000.00 | 164,000.00 |
|  | **TOTAL** |  |  |  | **32,768,000.00** |