**COE Department at KFUPM**

**BS Program Student Outcomes**

|  |  |
| --- | --- |
| **Student Outcomes** | |
|
| **a** | Ability to apply knowledge of mathematics, science, and engineering to obtain solutions and formulate models of processes and systems. |
| **b** | Ability to design and conduct experiments, and collect, analyze and interpret data. |
| **c** | Ability to design a system, process, or component to meet desired needs subject to given constraints. Analyze and evaluate alternative solutions. |
| **d** | Ability to function on multi-disciplinary and/or diverse teams. Take responsibility, share work, and value other viewpoints. |
| **e** | Ability to Identify, formulate, and solve engineering problems. Make appropriate and necessary assumptions. Suggest and evaluate new approaches. |
| **f** | Ability to understand professional and ethical responsibilities. Demonstrate ethical practice. |
| **g** | Ability to use oral, written, and audio-visual techniques effectively for successful communication. |
| **h** | Understanding of the impact of engineering solutions in a global, economic, environmental, and societal context |
| **i** | Ability to recognize the need for, and demonstrate ability to, engage in lifelong learning. |
| **j** | Knowledge of contemporary socio-economic issues relevant to computer engineering. |
| **k** | Ability to use techniques, skills and modern engineering tools necessary for engineering practice. |
| **l** | Ability to design a system that involves the integration of hardware and software |