

## PROGRAMME OUTCOMES (PO)

PO	PO STATEMENT
PO1	Apply knowledge of mathematics, sciences, engineering fundamentals and engineering specialization to solve <b><u>complex engineering problems</u></b> .
PO2	Identify, formulate, research literature and analyse <b><u>complex chemical engineering problems</u></b> reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.
PO3	Conduct investigations of <b><u>complex problems</u></b> via literature review, design of experiments, analysis and interpretation of data as well as synthesis of information to provide valid conclusions.
PO4	Create, select and apply appropriate techniques, resources, modern engineering and IT tools, and including prediction and modelling to solve <b><u>complex chemical engineering problems</u></b> with an understanding of the limitations.
PO5	Design solutions for <b><u>complex chemical engineering problems</u></b> and design systems, components or processes that meet specified needs with appropriate consideration on health, safety, society and environment.
PO6	Understand and evaluate the sustainability and impact of professional engineering work in the solution of <b><u>complex engineering problems</u></b> in societal and environmental contexts.
PO7	Communicate effectively in dealing with <b><u>complex engineering activities</u></b> to all level of society via effective reports or design documentation and oral communication.
PO8	Apply reasoning informed by contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to professional engineering practice and solutions to <b><u>complex engineering problems</u></b> .
PO9	Function effectively as an individual and as a team member with the capacity to be a leader in multi-disciplinary settings.

<b>PO10</b>	Understand and demonstrate knowledge of engineering management, business acumen and entrepreneurship, with the capability to manage projects as a leader and a team member in multidisciplinary fields.
<b>PO11</b>	Apply ethical principles and commit to professional ethics and responsibilities and norms of engineering practice.
<b>PO12</b>	Recognize the necessity for independent and life-long learning to cater for future technological advancement.

### **PROGRAM EDUCATIONAL OBJECTIVES (PEO)**

#### **PEO 1 Statement**

Bumiputra graduates who are imbued with moral and cultural values committed to the sustainable development for nation building.

#### **PEO 2 Statement**

Established a career progression in chemical process or, oil and gas industries, or any related industries

