

**SO1: An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics**

PI#	Performance Indicator [Weight]	Unsatisfactory	Developing	Satisfactory	Outstanding	Score
		1 Point	2 Points	3 Points	4 points	Max.
PI1	Capable of identifying a complex engineering problem [1]	Unable to identify complex engineering problem by using basic mathematical, science and engineering knowledge	Partly identifies the complex engineering problem by using basic mathematical, science and engineering knowledge but needs improvement	Reasonably able to identify the complex engineering problem by using basic mathematical, science and engineering knowledge	Properly and clearly identify the complex engineering problem by using basic mathematical, science and engineering knowledge	4
PI2	Capable of formulating a complex engineering problem [1]	Unable to formulate complex engineering problem by using basic mathematical, science and engineering knowledge	Partly formulates the complex engineering problem by using basic mathematical, science and engineering knowledge but needs improvement	Reasonably able to formulate the complex engineering problem by using basic mathematical, science and engineering knowledge	Properly and clearly formulate the complex engineering problem by using basic mathematical, science and engineering knowledge	4
PI3	Capable of solving complex engineering problem [1]	Unable to solve complex engineering problem by using basic mathematical, science and engineering knowledge	Partly solves the complex engineering problem by using basic mathematical, science and engineering knowledge but needs improvement	Reasonably able to solve the complex engineering problem by using basic mathematical, science and engineering knowledge	Properly and clearly solve the complex engineering problem by using basic mathematical, science and engineering knowledge	4
<b>OVERALL PERFORMANCE</b>		<b>Unsatisfactory</b>	<b>Developing</b>	<b>Satisfactory</b>	<b>Outstanding</b>	<b>Total</b>
<b>POINTS REQUIRED</b>		<b>0-3 (or: 0-24)</b>	<b>4-6 (or: 25-49)</b>	<b>7-9 (or: 50-74)</b>	<b>10-12 (or: 75-100)</b>	<b>12 (or: 100)</b>