

## Demonstration

Area of achievement	Unacceptable (F)	Pass (D)	Fair (C)	Good (B)	Excellent (A)
Problem Identification and Solving	<ul style="list-style-type: none"> <li>The problem cannot be comprehended</li> <li>No progress in solving the problem</li> </ul>	<ul style="list-style-type: none"> <li>The problem is unclear or minor</li> <li>Very little progress in solving the problem</li> </ul>	<ul style="list-style-type: none"> <li>The problem is reasonable and can be described clearly</li> <li>Methods are used to solve the problem and the problem is partly solved</li> </ul>	<ul style="list-style-type: none"> <li>The problem is significant, and causes of the problem under study are fully explained;</li> <li>Suitable methods are used to solve the problem and the problem is reasonably solved</li> </ul>	<ul style="list-style-type: none"> <li>The problem is significant and is fully analyzed</li> <li>Suitable methods are used and they fully solve the problem</li> <li>Advancement and innovation are noted</li> </ul>
Technical Skills	<ul style="list-style-type: none"> <li>No demonstration of skills or the way of demonstration is totally inappropriate</li> </ul>	<ul style="list-style-type: none"> <li>Engineering analysis infrequently used or appears trivial and leads to obvious conclusions</li> <li>Poor technical (software/hardware) skills are demonstrated</li> </ul>	<ul style="list-style-type: none"> <li>Included some analysis, but not very detailed or challenging; many steps seem not supported by reasoning</li> <li>Basic technical (software/hardware) skills are demonstrated</li> </ul>	<ul style="list-style-type: none"> <li>Detailed engineering analysis; but some steps seem not supported by reasoning</li> <li>Good technical (software/hardware) skills are demonstrated</li> </ul>	<ul style="list-style-type: none"> <li>Detailed &amp; challenging engineering analysis at every stage of the design process</li> <li>Excellent technical (software/hardware) skills are demonstrated</li> </ul>
Project output	No effort observed in software/hardware development	<ul style="list-style-type: none"> <li>Development on software/hardware is not completed even for basic part</li> <li>Software/hardware developed is not functional</li> </ul>	<ul style="list-style-type: none"> <li>Development on software/hardware is partly completed</li> <li>Software/hardware developed is functional with acceptable quality</li> </ul>	<ul style="list-style-type: none"> <li>Development on software/hardware is mostly completed</li> <li>Quality of software/hardware developed is good, though it is not comparable to that of commercial products</li> </ul>	<ul style="list-style-type: none"> <li>Development on software/hardware is fully completed</li> <li>Quality of software/hardware developed is equivalent to that of commercial products</li> </ul>
Extension of Knowledge	No effort observed in applying knowledge	<ul style="list-style-type: none"> <li>Basic concepts not applied correctly; new areas not included</li> <li>No innovative work initiated</li> </ul>	<ul style="list-style-type: none"> <li>Basic concepts used; new ideas not introduced</li> <li>Innovative work initiated; of minimal importance</li> </ul>	<ul style="list-style-type: none"> <li>Basic concepts used easily, and include a few new concepts</li> <li>Innovative work initiated; but of minimal impact</li> </ul>	<ul style="list-style-type: none"> <li>Basic and new concepts frequently used.</li> <li>Promising innovative work</li> </ul>