

**Assessment Rubrics**

**Assessment Rubrics for Mini Design Project:**

Criteria	Levels of performance and grades			
	Insufficient (1) F	Acceptable (2) D & C	Good (3) B	Excellent (4) A
<b>Selection, design and analysis of HVAC water, heat rejection, chiller, refrigeration and control systems</b>	Very weak understanding of design concepts. Not able to analyze system performance.	Able to apply basic design concepts and analyze system performance in simple cases only.	Able to apply design concepts and analyze system performance in complex situations.	Able to apply design concepts effectively and analyze system performance in more complex situations.
<b>Project development, problem solving and analysis</b>	Cannot identify the key problem and develop a coherent plan to solve it.	Fails to define the problem adequately. Develops a marginal plan only.	Adequately defines the problem and develops a plan to analyze and solve it.	States the problem clearly, identifies underlying issues and develops a clear and effective plan to solve it.
<b>Report writing</b>	Information is not well organized and clearly presented. Lack of coherence and logical consistency.	Some information is scattered and not clearly presented. Weak coherence and logical consistency.	The information is clearly presented. Logical interconnection and consistency are shown.	The information is effectively presented. Good coherence and logical consistency are demonstrated.
<b>Oral presentation (optional)</b>	Presentation is very confused and unclear. Visual aids are poorly prepared.	People can follow presentation with effort. Delivery and flow are not well thought out.	Presentation is generally clear. A few minor points may be confusing. Visual aids and delivery are appropriate.	Presentation is clear and logical. Visual aids and delivery are effective and professional.
<b>Team work</b>	Team work was hardly observed. Each member prepares the writing in isolation with no coordination.	Some planning and coordination are shown in the writing, but team work is not smooth and effective.	Every member contributes and collaborates in the writing. Good coordination and consistent style are observed.	Every member contributes and collaborates in the writing. Effective coordination and division of work are achieved.