

# **Jordan National Semiconductor Design Competition (JOSDC'2023)**

## **Rubric**

### **Report Submission (35 points)**

- **First Month Progress Report (10 points)**
- **Second Month Progress Report (10 points)**
- **Final Report (15 points)**

Each report will be graded on the following criteria:

Phase I and Phase II separately:

1. Clarity and Organization (3 points):
  - Is the report well-structured and organized for easy comprehension?
  - Does it effectively present the key aspects of the design process?
2. Technical Documentation (4 points):
  - Is there thorough documentation of the design, including schematics, block diagrams, and explanations?
  - Are technical terms and concepts explained clearly?
3. Results and Analysis (3 points):
  - Are the results of the design (so far) clearly presented, including performance benchmarks and test outcomes?
  - Is there a comprehensive analysis of the design's strengths and weaknesses?

Phase III:

1. Clarity and Organization (5 points):
  - Is the report well-structured and organized for easy comprehension?
  - Does it effectively present the key aspects of the design process?
2. Technical Documentation (5 points):
  - Is there thorough documentation of the design, including schematics, block diagrams, and explanations?
  - Are technical terms and concepts explained clearly?
3. Results and Analysis (5 points):
  - Are the results of the design (so far) clearly presented, including performance benchmarks and test outcomes?
  - Is there a comprehensive analysis of the design's strengths and weaknesses?

## **Project Execution (65 points)**

### **1. Design Functionality and Performance (40 points):**

- Design functionality by the end of Phase II (i.e. end of November).
  - If Phase II design is not functional participant(s) will be disqualified from the competition (i.e. No points, either 0/1).
- How well does the design meet the specified functionality requirements?
- Does the design demonstrate high performance and efficiency in its intended applications?
- Soundness of engineering, including evaluation of tradeoffs and ingenuity at all levels of design activity

### **2. Technical Excellence (25 points):**

- Are there any errors or issues in the design, such as logical errors or performance bottlenecks?
- Clarity of the functional specification, system description, and design description
- Code Organization

## **Extra Features (30 points):**

Up to 30 points will be added based on any additional innovative features implemented in the design beyond the basic requirements. Please discuss the following in the report when you document any extra features.

- How effectively do these extra features enhance the design's functionality?
- Are the extra features practically implemented and demonstrated to be useful?
- Do they address real-world needs or challenges?