**CS/ECE/ME532**

**Rubric for Peer Review of Final Projects**

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| Component | Points | Excellent  (100%) | Strong  (90%) | Acceptable  (75%) | Needs Improvement  (60%) | Missing  (0%) |
|  |  |  |  |  |  |  |
| **Abstract**  10 points total | 3 | Clearly defines topic studied | Some minor weakness in topic definition | Topic indirectly related to course content | Topic undefined or unrelated to course content | No abstract |
| 4 | Learning objectives clearly describe what the user will be able to do after completing exercise | Some minor weakness in learning objectives | Learning objectives present, but not clearly described | No identifiable learning objectives | No abstract |
| 3 | Conveys why project is interesting/unique | Some minor weakness in rationale for completing the activity | Rationale for completing the activity needs improvement | No rationale for completing the activity | No abstract |

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| Component | Points | Excellent  (100%) | Strong  (90%) | Acceptable  (75%) | Needs Improvement  (60%) | Missing  (0%) |
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| **Background**  15 points total | 3 | Problem clearly described | Minor weakness in problem description | Problem description needs improvement | Problem description is not understandable | No problem described |
| 2 | History and importance of the problem are clear | Minor weakness in  history and/or importance | History and importance present but need improvement | History or importance very weak | No history |
| 3 | References contribute to understanding nature/importance of problem | Minor weakness in references | Relevance of references unclear | No references |  |
| 2 | Thoughtful discussion of potential ethical issues | Minor weakness in discussion of ethical issues | Major weakness in discussion of ethical issues | Ethical issues presented and topic have no relationship | Ethics analysis missing |
| 5 | Mathematical formulation of problem is clear | Minor weakness in math. formation | Math. formulation incomplete or unclear | Mathematical formulation substantially incorrect | No math given |

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| Component | Points | Excellent  (100%) | Strong  (90%) | Acceptable  (75%) | Needs Improvement  (60%) | Missing  (0%) |
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| **Activity-**  **Warm up,**  **Primary**  25 points | 5 | Assumes appropriate level of prior knowledge (i.e., material covered in the course) | Minor gaps between course content and assumed prior knowledge | Some gaps between course content and assumed prior knowledge | Assumes prior knowledge well outside of course content | No activities |
| 5 | Appropriate difficulty and scope (length) of activities | Difficulty/scope of activities inappropriate in minor areas | Difficulty/scope of activities inappropriate in a few significant areas | Either trivial or impossibly complex | No activities |
| 5 | Appropriate progression and flow of activities (simple to complex, gradually introducing new concepts) | Progression and flow of activities needs improvement in minor areas | Weak progression and flow of activities in a few significant areas | Overall poor continuity in progression and flow of activities | No activities |
| 10 | Activities achieve learning objectives | Minor mismatch between learning objectives and activities | Some mismatch between learning objectives and activities | Activities unrelated to learning objectives | No activities |

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| --- | --- | --- | --- | --- | --- | --- |
| Component | Points | Excellent  (100%) | Strong  (90%) | Acceptable  (75%) | Needs Improvement  (60%) | Missing  (0%) |
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| **Supplementary**  **Information**  10 points | 4 | Citations are complete | Minor missing information in citations | Significant missing citations or missing information | Citations largely incomplete | No citations |
| 6 | Solutions complete and easy to follow | Solutions are incomplete or hard to follow in minor areas | Solutions are confusing or incomplete in significant areas | Solutions impossible to follow | No solutions |

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| Component | Points | Excellent  (100%) | Strong  (90%) | Acceptable  (75%) | Needs Improvement  (60%) |
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| **Presentation**  15 points | 5 | Clearly written with words that precisely express the intended meaning and support comprehension | Mostly clearly written with minor weakness in word choice | Occasional significant weakness in clarity due to word choice | Clarity and word choice poor |
| 5 | Clear and easy to follow logic and flow of ideas | Logic and flow of ideas easy to follow with minor exceptions | Logic and flow of ideas difficult to follow in some areas | Requires considerable effort to understand logic and flow of ideas |
| 5 | Insignificant grammatical or spelling errors | Minor grammatical and/or spelling errors that do not hinder comprehension | Occasional grammatical and spelling errors affect comprehension | Frequent grammatical and spelling errors that hinder comprehension |