

## Rubrics for Lab (PCC-CS492)

Criteria Score	Excellent (10-8)	Good (7-6)	Average (5-4)	Poor (3-1)	CO Mappin g	PO/PS O Mappin g
<b>Lab Participation (Following Procedure +Lab Techniques + Subject Knowledge + Contribution)</b>	Student demonstrates an accurate understanding of the lab assignments. The student can correctly answer questions and if appropriate, can explain concepts to fellow classmates. Student is eager to develop new ideas and assists when needed.	Student arrives on time to lab, but may be underprepared. Answers to questions are basic and superficial suggesting that concepts are not fully grasped. Able to follow the instruction and somehow managed to execute the program.	Student unpreparedness makes it impossible to fully participate. If able to participate, student has difficulty explaining key lab concepts.	There was no attempt to make prior arrangements to make up the lab. Attendance is not regular. Not able to run the program even after getting help from the peers.		<b>PO1/ PO2/ PO3, PSO1/ PSO2</b>
<b>Interaction with Group (Team work)</b>	Very good participation with a good leadership quality; is respectful of others and their point of view; makes sure that everyone gets a turn; conscious of time	Good participation; appears interested; enthusiastic but talks over teammates; try to help group complete tasks; somewhat conscious of time	Minimal participation; shows little interest; doesn't pay attention to other group members; may argue to get point across; helps group only when asked; little emphasis on time	No participation; sits on the sidelines with no interaction; disinterested; no stake in time management		<b>PO9</b>

Criteria Score	Excellent (10-8)	Good (7-6)	Average (5-4)	Poor (3-1)	CO Mapping	PO/PS O Mapping
<b>Execution and Debugging (Modern tool usage)</b>	Follow the logical ideas; can develop suitable program from specific algorithm; debug the program with proficiency; Able to check the reliability	Can develop suitable program from specific algorithm with the help of the instructor; debug the program with proficiency; Able to check the reliability	Can develop suitable program from specific algorithm with the help of the instructor; debug the program with the help of technical assistant; Not able to check the reliability.	Not be able to develop suitable program from specific algorithm; need assistance to debug the program. Not able to check the reliability		<b>PO5</b>
<b>Lab Report</b>	Student demonstrates an accurate understanding of the lab concepts. Questions are answered completely and correctly. Output of each program is neat, creative and includes complete titles. Errors, if any are minimal	Student has a basic knowledge of content, but may lack some understanding of some concepts. Questions are answered fairly well and/or output could have been done more neatly, accurately or with more complete information	Student has problems with both the output and the answers. Student appears to have not fully grasped the lab content and the code possess multiple errors	Student turns in lab report late or the report is so incomplete and/or so inaccurate that it is unacceptable.		<b>PO10</b>