Assessment Rubics for Group Project

Criteria	A^+ / A / A^-	B^+ / B / B^-	C^+ / C / C^-	D^+ / D	F
Identify the services provided by operating systems	The student was able to: * Identify most services provided by operating systems and explain and apply them properly and precisely in the project scope.	The student was able to: * Identify most services provided by operating systems and link them to the project scope.	The student was able to: * Identify some services provided by operating systems as applied in the project scope.	The student was able to: * Identify some services provided by operating system.	The student <u>failed</u> to: * Identify services provided by operating systems.
Understand the internal structure of an operating system and be able to write programs using system calls	There is evidence that the student was able to: • Show their good understanding of the internal structure of an OS through the implementation of the required application. • Write a program that applies the system calls of an OS properly and precisely.	There is evidence that the student was able to: • Show their understanding of most of the internal structure of an OS through the implementation of the required application. • Write a program that applies most of the system calls of an OS correctly.	There is evidence that the student was able to: • Show their understanding of some of the internal structure of an OS through the implementation of the required application. • Write a program that applies some of the system calls of an OS correctly.	There is evidence that the student was able to: • Show their marginal understanding of some of the internal structure of an OS through the implementation of the required application. • Write a program that applies a limited number of the system calls of an OS.	The student <u>failed</u> to: • Show their understanding of some of the internal structure of an OS through the implementation of the required application. • Write a program that applies the system calls of an OS.
Understand and solve problems involving process control, mutual exclusion, deadlock and synchronization	There is evidence that the student was able to: * Show their good understanding of the problem domain in the project related to the relevant topics properly and precisely.	There is evidence that the student was able to: * Show their understanding of the problem domain in the project related to most of the relevant topics correctly.	There is evidence that the student was able to: * Show their understanding of the problem domain in the project related to some of the relevant topics correctly.	There is evidence that the student was able to: * Show their marginal understanding of the problem domain in the project related to a few parts of the relevant topics.	The student <u>failed</u> to: * Show their understanding of the problem domain in the project related to the relevant topics.

Criteria	A^+ / A / A^-	B^+ / B / B^-	C^+ / C / C^-	D^+ / D	F
Develop skills in problem solving using systematic approaches	There is evidence that the student was able to: * Demonstrate their problem solving skill by using proper algorithms (learned in class) to solve the problems in the problem and show all of these steps by steps properly and logically.	There is evidence that the student was able to: * Demonstrate their problem solving skill by using related algorithms (learned in class) to solve the problems in the problem and show most of these steps by steps correctly.	There is evidence that the student was able to: * Demonstrate their problem solving skill by using related algorithms (learned in class) to solve the problems in the problem and possibly to show some of these steps by steps correctly.	There is evidence that the student was able to: * Demonstrate their problem solving skill by using algorithms (learned in class) to solve the problems in the problem and possibly to show some of the steps properly.	The student <u>failed</u> to: * Demonstrate their problem solving skill by using algorithms.
Solve complex problems in groups and develop group work	There is evidence that shows: • The team worked well together to achieve the objectives. • Workload was evenly distributed to each member. • Members were supportive and encouraging each other in discussions, offering ideas, suggestions, etc. • Different members took charge in different stages.	There is evidence that shows : • The team worked well together most of time to achieve the objectives. • Workload was distributed to members properly. • Some members might take charge of the project.	There is evidence that shows: • The team worked well together some of time to achieve the objectives. • All members received some reasonable workload. • Just 1 or 2 members took charge of the project.	There is evidence that shows: • The team seldom worked together to achieve the objectives. • Some members received little workload. • Only 1 or 2 members made most contributions.	The group <u>failed</u> to: • Collaborate or communicate. • Define and allocate workload to certain extent. • Have members work together towards the objectives.

Assessment Weightings

ILO #	Item	Assessment Method(s) and Indicative %	
		Application / Implementation	**Report + Demo**
1	Identify the services provided by operating systems	5	5
2	Understand the internal structure of an operating system and be able to write programs using system calls	10	5
3	Understand and solve problems involving process control, mutual exclusion, deadlock and synchronization	20	15
4	Develop skills in problem solving using systematic approaches	15	5
5	Solve complex problems in groups and develop group work	10	10
	Total	**60%**	**40%**