

Theory of Computation CSE6344

Dr. Arselan Ashraf

TRIMESTER: 2510

Rubric for Assignment (20%)

1. Design and Explanation (8 Marks)

Criteria / Marks	4	3	2	1	0
NFA Design and Explanation (4)	Clear diagrams. Detailed and logical explanations.	Mostly clear diagrams with minor issues. Clear explanations with minor gaps.	Unclear diagrams or missing transitions. Vague or incomplete explanations.	Missing or incorrect diagrams. Little to no explanation.	No submission
NFA to DFA Conversion and Explanation (4)	Clear, accurate conversion using subset construction. Detailed and logical explanations.	Mostly correct conversion with minor errors. Clear explanations with minor gaps.	Incomplete or unclear conversion. Vague or incomplete explanations.	Missing or incorrect conversion. Little to no explanation.	No submission
Total (8)					

2. Python Implementation (8 Marks)

Criteria / Marks	4	3	2	1	0
Functionality (4)	Fully functional program with all features (item selection, note insertion, change calculation, invalid note rejection).	Mostly functional with minor bugs; most features work.	Partially functional with major issues; limited features work.	Barely functional ; missing critical components.	No Submission

Test Cases (4)	Comprehensive test cases covering successful purchases, change returned, invalid notes, and exact payments. Clear results.	Most test cases covered with minor gaps. The results are mostly clear.	Limited test cases or unclear results.	Few or incorrect test cases; results unclear.	No Submission
Total (8)					

3. Report Quality and Presentation (4 Marks)

Criteria / Marks	2	1.5	1	0.5	0
Quality of Report (2)	All sections included (Title Page, TOC, Introduction, etc.), well-organized with clear, professional writing.	Most sections included, minor organizational issues, clear writing with slight errors.	Some sections missing, noticeable organizational or clarity issues.	Major sections missing, disorganized, or barely coherent writing.	No submission.
Presentation (2)	Content presented in class clearly, confidently, and engagingly.	Presentation mostly clear but lacks some confidence or engagement.	Presentation unclear or minimally engaging, with significant issues.	Presentation attempted but incoherent or severely lacking.	No presentation or submission.
Total (4)					

Overall Total

Section	Marks
1. Design and Explanation	8
2. Python Implementation	8
3. Report Quality and Presentation	4
Total	20