

**NAME OF STUDENT:** Ali Imran **ID No:** 1074-2022

**ASSIGNMENT 1**  
**SPRING 2024**

Department / Faculty	Program	Semester	Course Title	Instructor	Issue Date	Due Date	Faculty Signature	Total Marks
FCIT	BS(CS)	4	(SES-221) Formal Methods in SE (3+0)	Waseem Akhtar	27/05/2024	29/05/2024		5

**Instructions**

1. This paper contains **1 Question**. Attempt all questions.
2. This assignment should be completed within assigned time, after the due date, assignment will not be accepted.
3. Students of particular course will download assignment exam and submit solution which will only be accepted through CMS portal.
4. Please ensure that no part of your assignment should be copied from any other source without acknowledgement of the source and proper referencing.(IEEE)
5. Please note that copy-paste is a serious nature of academic dishonesty, it is called “Plagiarism” and the penalties are attached to being found guilty of committing such offences.
6. It is allow using lecture notes, books and other sources, however needing to refer/cite properly, Reference list must be given at end of the assignment.
7. This assignment should be submitted in **PDF** file for this purpose first take image of all hand written pages and then merge using Smartphone app (from PC/Laptop put all images in word file and save as **PDF**) including assignment paper in the start of submission.
8. Assignment can be compressed or break in two parts if file size is larger than uploading limit.
9. The font size should 12 and Times New Roman should be used. All figures and illustrations should be properly titled or numbered on the left side, below.
10. Also ensure that no part of your assignment has been written by any other person, except to the extent of collaboration and /or group work.
11. Preferably neat and clean hand-written form, if a marker can't read what you've written, your answer might as well be wrong.

***This table is for official use; do not write anything on it.***

CLOs	CLO_4			Total
Question Number	1	-	-	
Student's Score				
Maximum Score				05

This paper has a total of **2** pages including this title page

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**(SES-221) Formal Methods in Software Engineering (3+0)**

**CLO-1:** Recalls SDLC and understands fundamental concepts of logic, logic programming, formal languages, automata theory, problem-solving methods, and recognize some examples of known formal languages

**Q1: Moore and Mealy Machines. Viva**

1.) <del>M</del> Uzaif Hassan -	1192-2022,	5
2) M. Hassan.	863-2022,	4
3) Syed. Amaal.	825-2022.	4
4, Ali Imran.	1074-2022.	4
5, Sajjad Ali	1077-2022	5
6) Sohail Ahmed,	984-2022.	5