LAHORE UNIVERSITY OF MANAGEMENT SCIENCES

Name:	**Zoha Khan**	Degree:	**Bachelor of Science - BS**
Roll No.:	**2023-10-0021**	Major:	**Computer Science**
ID:	**22997**	Year Admitted:	**2019-20**
Date of Birth:	**Sep 18, 2000**	Year Graduated:	**Incomplete**

COURSE CODE	DESCRIPTION	CREDITS	GRADE	COURSE CODE	DESCRIPTION	CREDITS	GRADE
Fall Semester 2019-20							
CHEM 101	Principles of Chemistry I	3	A				
CS 100	Computational Problem Solving	3	A				
MATH 101	Calculus I	3	A				
PHY 100	Experimental Physics Lab I	2	A+				
PHY 101	Mechanics	4	A				
SS 101	Islamic Studies	2	A				
Placed on Dean's Honour List.							
Spring Semester 2019-20							
BIO 100	Biology Laboratory	1	A+				
BIO 101	Introductory Biology	3	A+				
CHEM 100	Experimental Chemistry	1	A				
EE 100	Engineering Laboratory	1	A				
MATH 120	Linear Algebra with Differential Equations	3	A				
PHY 104	Modern Physics	4	A				
SS 100	Writing and Communication	4	A+				
Placed on Dean's Honour List at the end of academic year 2019-2020.							
Fall Semester 2020-21							
CS 200	Introduction to Programming	4	A+				
CS 210	Discrete Mathematics	4	B				
CS 225	Fundamentals of Computer Systems	4	B+				
MATH 102	Calculus II	3	A				
SS 102	Pakistan Studies: Culture and Heritage	2	A+				
Placed on Dean's Honour List.							
Spring Semester 2020-21							
CS 202	Data Structures	3	A-				
CS 331	Introduction to Artificial Intelligence	3	A				
CS 382	Network-Centric Computing	3	A				
MATH 230	Probability	3	A-				
MKTG 201	Principles of Marketing	3	A-				
Placed on Dean's Honour List at the end of academic year 2020-21							
Fall Semester 2021-22							
CS 310	Algorithms	3	A-				
CS 370	Operating Systems	3	A				
CS 436	Computer Vision Fundamentals	3	A				
CS 535	Machine Learning	3	A				
MATH 210	Introduction to Differential Equations	3	A+				
MGMT 373	Personal Effectiveness	3	A				
Placed on Dean's Honour List.							
Spring Semester 2021-22							
CS 300	Advanced Programming	3	A-				
CS 360	Software Engineering	3	A				
CS 473	Network Security	3	A				
CS 497B	Directed Research Project	2	P				
CS 678	Topics in Internet Research	3	A-				
Placed on Dean's Honour List at the end of academic year 2021-22							
Summer Semester 2021-22							
HIST2325	A Brief History of Feminist Movement in Pakistan	4	A+				
Fall Semester 2022-23							
CS 340	Databases	3					
CS 491A	Senior Project	3					
CS 682	Topics in Computer and Network Security	3					
EE 212	Mathematical Foundations for Machine Learning and Data Science	3					
MATH 341	Operations Research I	3					

	CREDITS		
ATTEMPTED	117		
TAKEN TOWARDS GPA	100	CGPA	3.88
TRANSFERRED	0		
CREDITS GIVEN ON RE-ADMISSION	0		
SUCCESSFULLY COMPLETED	102		

End of Undergraduate Programme Transcript

Official Seal		*Z. F. Qizilbash*
		Registrar

Date Printed: 25-Nov-2022

Transcript Interpretation
Undergraduate Programme

The University moved from Quarter (Units) to Semester (Credits) System in Fall 2009-2010. This interpretation applies to both units and credits.

The medium of instruction at LUMS is English.

Degree Requirements

Programme	Required Units/Credits (Minimum)	Passing CGPA
BSc/BA (Honours), BS	180/130	2.20/2.00
BSc (Honours) Computer Engineering/BS (EE)	192/133	2.20/2.00
Double major	225/160	2.20/2.00
B.A.-LL.B	220/162	2.20/2.00
B.A.-LL.B/(Honours)	0.00/162	0.00/2.00

Explanation of Cumulative GPA/Specialization CGPA (CGPA/SCGPA)

- Batches 1997 to 2004: Calculated on a scale of 4.30
- Batches 2005 onwards: Calculated on a scale of 4.00

Specialization CGPA

At the time of graduation, SCGPA (Specialization CGPA) is also visible on the transcript and is calculated on the basis of all courses taken in the area of the major.

Notations

(): Credits for the course(s) given on readmission/transfer. Upon readmission, all credits will count towards attempted credit hours but not included in computation of CGPA. Transfer credits will not count towards attempted credits.

\#: Under Repeat and Replace policy, this represents the lower grade for course(s) repeated. Credits and grades not included in computation of CGPA or towards completed credits. However, these credits count towards total attempted.

R*: Best grade for repeated course(s) which counts towards graduation requirements (i.e. CGPA and completed credits) and total attempted credits.

‡: Under All Grades Counts Policy, this represents the original grade of repeated course(s). Such credits and grades are included in the computation of CGPA. These credits are not included in total completed credits but are counted towards total attempted credits.

* For courses repeated between Academic Year 2014-15 to 2015-16, 'R' will denote the latest attempt instead of best grade.

Minor

Subject to fulfillment of the minor requirements; the title of the minor is displayed only on the transcript and not on the degree.

Graduation Honours

CGPA	Recognition
3.80 and above*	**Deans' Honour List** and Graduation with **High Distinction**
3.60 to 3.79	**Deans' Honour List** and Graduation with **Distinction**
3.30 to 3.59	Graduation with **High Merit**
3.10 to 3.29	Graduation with **Merit**

*For Batch 2014 and onwards.

Grading Legend

Letter Grade	Grade Points	Description
A+	4.3*	Exceptional
A+	4.0**	Exceptional
A	4.0	Outstanding
A-	3.7	Excellent
B+	3.3	Very Good
B	3.0	Good
B-	2.7	Average
C+	2.3	Satisfactory
C	2.0	Low Pass
C-	1.7	Marginal Pass
D	1.0	Unsatisfactory
F	0	Fail
P	--	Pass
NC	--	No Credit***
W	--	Withdrawn
WF	--	Withdrawn while failing
WP	--	Withdrawn while passing
NGR	--	No Grade Reported
I	--	Incomplete
IP	--	In-Progress
U	--	Unsatisfactory
T	--	Transfer

*For batches 2004 and earlier.
**For batches 2005 and onwards.
***From Spring 2020 onwards, this is a special accommodation due to COVID-19.

Authenticity

A signed and dated transcript provides a certified copy of the student's academic performance. A LUMS official transcript is printed on security paper and sealed in an envelope or emailed via password protected PDF document. An official, confidential transcript can only be obtained directly from the Office of the Registrar. If the document is received with a broken seal or the PDF is not secure, the transcript should be considered an unofficial document.

Contact Information

Office of the Registrar
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Transcript Enquiries only: registrar@lums.edu.pk
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Website: www.lums.edu.pk

Counter Signed by

Senior Assistant/Assistant Registrar
Lahore University of Management Sciences (LUMS)