Serial No: 110498



Registration 20: CIIT/SP22-RCS-002/WAH

# COASATS University Islamabad

# MUBASHIR IQBAL s/o KHUDA BAKHSH KHAN

Of

# Wah Campus

has been conferred upon the degree of

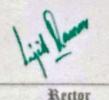
# Master of Science in Computer Science

Given on this Fifteenth day of March two thousand and Twenty Four at Islamabad

Date of Issuance: 15th March 2024



Controller of Examinations



Registrar

Prepared By:

Note: This degree is issued without alteration or erasure.

Checked By: ....

Contact Address:

COMSATS University Islamabad, Park Road, Tarlai Kalan, Islamabad, Pakistan. Ph: +92-51-9247000-3 http://www.comsats.edu.pk



# **COMSATS** University Islamabad

### TRANSCRIPT

Date: 01-Mar-2024

Certified that MUBASHIR IQBAL s/o KHUDA BAKHSH KHAN Registration No. CIIT/SP22-RCS-002/WAH Department of Computer Science has completed and passed all the requisite courses / examinations for the degree of Master of Science in Computer Science, on 18th January 2024, taught as a Regular Mode of study from Wah Campus.

Date of birth: 18-Jun-1992



The details of the courses passed are as follows:

Course Code	Semester / Course Title	Cr.	LG	CP	Course Code	Semester / Course Title	Cr.	LG	CP
	Spring 2022					Spring 2023			
CSC512	Theory of Automata - II	3	B+	9.99	CSC511	Theory of Programming Languages	3	A	12.00
CSC602	Advanced Operating Systems	3	B+	9.99	CSC715	Special Topics in Computer Science- I	3	A	12.00
CSC683	Advanced Algorithm Analysis	3	B+	9.99					
						Fall 2023			
	Fall 2022								
		Town I		5 40000	CSC800	MS Thesis	6+	Approved	
CSC535	Natural Language Processing	3	B+	9.99					
CSC607	Research Methodology	1	B-	2.66					
CSC613	Advanced Topics in Artificial Neural Networks	3	A	12.00		TOTAL SECTION AND ADDRESS OF THE PARTY OF TH	100		
CSC630	Advanced Data Mining	3	A-	10.98					

Thesis Title: Enhancing Heart Disease Prediction with Explainable AI (XAI)

Total Credit Hours Registered: 31 \*Discounted Credit Hours: Net Credit Hours Passed: Total CP: 89.6 CGPA+: 3.58

+Credit Hours allocated to Thesis are not counted for calculation of CGPA

Controller of Examinations

Errors/Omissions Excepted

(Please Turn Over)

### EXPLANATORY NOTES

The following explanations are to assist the reader with the interpretation of the transcript.

The Academic year normally comprises two regular semesters i.e. (16 weeks each) and summer session (8 weeks).

English is the medium of instruction.

4. Legend

Cr. Credit of Courses GP Grade Point

L.G. Letter Grade **CGPA** Cumulative Grade Point Average

NC Non Credit Withdrawal WD \*IP

\*Awarded in the first semester (generally of split semester course) and/or subsequent semesters if the performance of the student was satisfactory. Has no grading and/or credit value for result calculation purpose.

### Credit Value Definition

A course of one credit represents one hour of lecture / three hours laboratory work per week, per semester.

#### 6. **Discounted Credit Hours**

In case of course is repeated due to failure or improvement, its credit hours are counted only once, hence the term "discounted credit hours".

#### 7. Marks

- Each course carries 100 marks of which 50% are reserved for mid term, quizzes, assignments, practicals & 50% marks for the terminal examinations.
- Minimum pass marks in each course are 50%.

### 8. **Grading System**

Percentage Obtained in a Semester System	Grade	Grade Points
85 and Above	A	4.00
80 - 84	A-	3.66
75 - 79	B+	3.33
71 - 74	В	3.00
68 - 70	В-	2.66
64 - 67	C+	2.33
61 - 63	С	2.00
58 - 60	C-	1.66
54 - 57	D+	1.30
50 - 53	D	1.00
Below 50	F	0.00

Note: This Transcript is issued without alteration or erasure.

Prepared By:

Contact Address:

COMSATS University Islamabad, Park Road, Tarlai Kalan, Islamabad. Ph: +92-51-9247000-3 http://www.comsats.edu.pk Checked By:

Serial No: 063096 Roll No: BC140400342

# 2063096 3C140400342 Aniversity of Pakisian Regd No: 014-Regd No: 014-VU-006717



Upon the recommendation of

# The Faculty of Computer Science and Information Technology

confers upon

Mubashir Iqhal

son of Khuda Bakhsh Khan

the degree of

Bachelor of Science in Computer Science (4 year program) With all the rights, honors and privileges pertaining thereto

given this

fourth day of January two thousand and twenty one

Controller of Examinations



Rector





Serial No: A052618

# Virtual University of Pakistan



# TRANSCRIPT OF RECORD Bachelor of Science in Computer Science (4 year program)

Student ID: Name: Father's Name: D.O.B: CNIC Number: BC140400342 Mubashir Iqbal Khuda Bakhsh Khan June 18, 1992 32102-4610858-9 Registration No: Registration Date: Result Notification No: Result Notification Date: Mode of Study: 014-VU-006717 September 09, 2014 VU-CE/BS/20/0018 October 23, 2020 Regular



Semester	Code	Course Title	Cr. Hrs.	Grade	G.P.	Equiv. Marks	Remark
	CS101	Introduction to Computing	3	A-	3,83	82.50	
	ENG101	English Comprehension	3	A-	3.76	81.61	
Fait 2014	ISL201	Islamic Studies	1	A	4.00	85.32	-
	MGT101	Financial Accounting	3	В	3.16	73.05	
	MTH101	Calculus And Analytical Geometry	3	A	4.00	85.36	
	PAK301	Pakistan Studies	2	B+	3.46	77.01	
and the	CS201	Introduction to Programming	3	В	3.18	73.21	
	ECO401	Economics	3	В	3,11	72.42	100
Spring 2015	ENG201	Business and Technical English Writing	3	8	3.29	74.56	
	MTH202	Discrete Mathematics	3	В	3.22	73.78	
	MTH301	Calculus II	3	8	3,11	72.42	
	CS301	Data Structures	3	В	3.02	71.28	
	CS302	Digital Logic Design	3	B-	2.99	70.96	
Spring 2016	CS304	Object Oriented Programming	3	B-	2.89	70.05	
	CS801	Data Communication	3	В	3.20	73.44	
	PHY101	Physics	3	B-	2.88	70.00	
	CS401	Computer Architecture and Assembly Language Programming	3	В	3.01	71.12	
	CS403	Database Management Systems	3	В	3.06	71.82	-
Fall 2016	CS504	Software Engineering - I	3	В	3.07	71.87	
	CS610	Computer Network	3	В	3.12	72.53	0 100
	MGT301	Principles of Marketing	3	В	3.16	72.95	
Spring 2017	CS501	Advance Computer Architecture	3	С	2.27	63.94	-
	MCM301	Communication skills	3	8-	2.83	69.53	
	STA301	Statistics and Probability	3	С	2.46	65.95	
-	CS502	Fundamentals of Algorithms	3	8-	2.79	69.15	R
	CS602	Computer Graphics	3	B-	2.86	69.81	
Fall 2017	CS605	Software Engineeringii	3	B-	2.86	69.80	
F dit 2017	MGT501	Human Resource Management	3	С	2.11	62.19	
	MTH501	Linear Algebra	3	C	2.48	66.16	
	CS402	Theory of Automata	3	В	3.03	71.41	R
	CS402	Human Computer Interaction	3	В	3.03	71.48	- 6
	-		3	B+	3.40	76.13	
Fall 2018	CS411	Visual Programming	3	B+	3.38	75.82	
	CS506	Web Design and Development	3	8	3.02	71.35	
	CS604	Operating Systems	3	8+	3.34	75.23	
	CS508	Modern Programming Languages	3	-	-		
	CS606	Compiler Construction		C	2.52	66.58	
Spring 2019	CS607	Artificial Intelligence	3	8	3.12	72.52	
	MTH601	Operations Research	3	В	3.12	72.46	
	CS619	Final Project - CS819	6	A	4.00	85.00	
	CS609	System Programming	3	В	3.18	73.19	
Fall 2019	CS614	Data Warehousing	3	B+	3.41	76.30	
	MGT211	Introduction To Business	3	В	3.17	73.06	
oring 2020	MTH401	Differential Equations	3	B-	2.80	69.27	R
mily zozo	MTH603	Numerical Analysis	3	C	2.24	63.65	R

CGPA:		3.09
Overall Equiv. Marks:	(3197.24 / 4400)	72.66%
Credits Earned:		132
Credits Transferred:		0
Credits Exempted:		0
Credits Required		132

All requirements completed

Controller of Examinations

### **Grading Scheme**

Letter Grade	Grade Points	Equivalent Percentage	
A+	4.00	90 - 100	
Α	4.00	85 - 89.99	
A-	3.66 - 3.99	80 - 84.99	
B+	3.33 - 3.65	75 - 79.99	
В	3.00 - 3.32	71 - 74.99	
B-	2.66 - 2.99	68 - 70.99	
С	2.00 - 2.65	61 - 67.99	
D	1.00 - 1.99	50 - 60.99	
F	0.00	Below 50	

Point) / Sum of Credit Hours

tive Grade Point Average

HIGHER EDUCATION COMMISSION PAKISTAN

PAKISTAN

Improved

R Repeat

T Transfer Credit

\*Not to be counted towards CGPA

University Charter Date: September 11, 2002

Previous Degree & Institution Name: FA (Federal Board of Intermediate and

Secondary Education, Islamabad)

Controller of Examinations

## FEDERAL BOARD OF INTERMEDIATE AND SECONDARY EDUCATION **ISLAMABAD**

Serial No.

459803

Roll No 572159

Group

SCIENCE GENERAL



Certificate No. 275423/036281

Registration No. 1394330008

Attempt(s)

FIRST

### HIGHER SECONDARY SCHOOL CERTIFICATE EXAMINATION ANNUAL 2013

Certified that

MUBASHIR IQBAL

Son / Daughter of KHUDA BAKHSH KHAN

has qualified for award of Higher Secondary School Certificate

at the examination held in the month of May / June

as a REGULAR CANDIDATE from

HASHMI'S CANTT COLLEGE, SHAH WALI COLONY, WAH CANTT

as per statement of marks given below and has obtained grade  $\ \underline{C}$ 

His/Her mark of identification: ----

## SUBJECT - WISE STATEMENT OF MARKS

ORDANIA SA	ATOMIS ANALOGO STATE OF THE STA	MAF	RKS
S.No.	Subject(s)	Maximum	Obtained
1	ENGLISH COMPULSORY	200	081
2.	URDU COMPULSORY	200	116
3	ISLAMIC EDUCATION	050	039
4	PAKISTAN STUDIES	050	026
5	MATHEMATICS	200	153
6	PHYSICS	200	077
7	COMPUTER SCIENCE	200	120
PEGREAL BING DOFTH FENE D WILLIAM EDAT	CONTROL BENEFIT AT EARLOSE COLOMOTE DICEATORIE AMABIET DE BENEFIT AND ACTION DE TERM ONT TEMPER DE CONTROL BENEFIT ATTENDE COLOMOTE DICEATORIE AMABIET DE BENEFIT AND ACTION DE L'ANDIE DE AMORE CONSIGNE DE L'ATTENDE ADULT CONTROL AMABIET DE BENEFIT AND ACTION DE L'ANDIE DE	THE FLOOR TO SHELL AND ARE THE SALES ADDOLES VETWER AND ALL CAMBOLINA VETWER AND ALL CAMBOLINA VETWER CAMBOLINA SHELL CAMBOLIN	A 100 A 100 A 100 B 100
MILLIANDE DE CARL SET CARLOS ANA LISTADA DE CO ACO E CARLOS	TOTAL	1100	612

(Marks in words) Six Hundred Twelve



SECRETARY

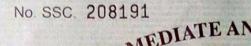
Islamabad Dated 30-12-2013

Note: This certificate is issued without alteration or erasure. (Grades over leaf)

# GRADING FORMULA

PERCENTAGE OF MARKS	GRADE	REMARKS
80% and above	A-1	Exceptional
70% and above but below 80%	Α	Excellent
60% and above but below 70%	В	Very Good
50% and above but below 60%	С	Good
40% and above but below 50%	D	Fair
below 40% to minimum Pass marks	Е	Satisfactory

Prepared by:	47	
Checked by:		



NO. SSC. 208191

ROLL NO. 67100

ROLL NO. 6710

### SECONDARY SCHOOL CERTIFICATE(ANNUAL)EXAMINATION, 2008

SCIENCE GROUP

Certified that

MUBASHIR IQBAL

Son / Daughter of

KHUDA BAKHSH KHAN

School / District

GOVT.HIGH SCHOOL NO.1 DERA GHAZI KHAN

Date of birth (In words) 18 th June, Nineteen Hungrad and Ninety Two

18/06/1992

has passed the Secondary School Certificate

Examination conducted by this Board in

as a REGULAR candidate.

### DETAIL OF MARKS

Sr#	SUBJECT	M	MARKS JM   OBTAINED	
Alle	MICA (CARDINA MARCHANIA)	MAXIMUM	OBTAINED	
1	Urdu Sound at Intermed	150	1 109	
2	English	150	1 137	
3	Islamiyat	75	68	
4	Pakistan Studies	1 75	1 63	
5	Mathematics	1 100	95	
6	Physics	1 100	1 88	
7	Chemistry	1 100	1 84	
8	Biology	100	1 89	
	TOTAL MARKS(in figures)	i_ 850	1 733	

(IN WORDS) SEVEN HUNDRED AND THIRTY THREE

GRADE A-1

DATED: 1 " AUGUST, 2008.

SECRETARY

Note:- This Certificate is issued without alteration or erasure

## **GRADING FORMULA**

GRADE	REMARKS
A +	Exceptional
Α	Excellent
В	Very Good
С	Good
D	Fair
E	Satisfactory
	A +  A  B  C

External Grade: \_\_\_\_\_ Awarded by the Board.

Prepared by

Checked by: M- Ro-3c