

# OFFICIAL TRANSCRIPT

Name: Bhumika Mittal
Enrolment ID: 1020211063
Admission: August 2021
Graduation: May 2024

Degree: B.Sc. (Hons.) Computer Science

Degree CGPA: 3.90 Major: Computer Science

University Honours: Summa Cum Laude

**Minor:** Mathematics

Minor: Entrepreneurial Leadership and

Strategy

Code	Course Title	Credits	Grade	
Monsoon 2021				
CVA-0051	Making Interactive Art	The Table of the State of the S	2	A
FC-0309	Quantitative Reasoning at Thinking: Foundations of Programming		4	A
FC-0410	Economy, Politics and Soc Development	ciety: Politics and	4	A-
FC-0701	Literature and the World	-And Android with the section in the second section of the section of the second section of the section of	4	В+
MAT-1000	Calculus	The control of the second state of the second	4	A
Credits Earned: 18	GPA: 3.78	CGPA: 3.78	Dear	's List

Ji auc	Code
	Spring 2
A	CS-1101/
A	CS-1104
	CT-0001
	ENT-201
A-	ENT-300
	FC-0601
B+	Credits
A	O COURT
List	

Code	Course Title		Credits	Grade
Spring 2022				
CS-1101/ PHY-1101	Introduction to Compute	r Programming	4	A
CS-1104	Discrete Mathematics	and the same that the said of the said	4	A
CT-0001	Introduction to Critical T	'hinking	4	A-
ENT-2010	How to Start a Startup		4	B+
ENT-3008	Theory and Practice of Lo	eadership	2	A-
FC-0601	Great Books		4	A
Credits Earned: 22	GPA: 3.79	CGPA: 3.79	Dean	's List

Summer 2022				
FC-0201	Indian Civilisations	CALL AND THE MANUAL TOP A THE THE MANUAL AT THE MANUAL AND A THE MANUAL AT THE MANUAL	4	A
FC-0503	Mind and Behaviour	a to the part of the desired sequel for the end of the second of the sec	4	A
Credits Earned: 8	GPA: 4.00	CGPA: 3.82		

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CLA-0038	Kath, Baath Te Baeth: Ka	shmiri	2	A
CS-1101/ PHY-1101	Introduction to Compute	r Programming	0	TP
CS-1203	Data Structures		4	A
CS-1216	Computer Organization and Systems		4	A
ENT-2017	Artificial Intelligence and	l Data Analytics	4	A
FC-0801	Principles of Science	OF THE STATE OF TH	4	A
MAT-2020/ CS-1209/ PHY-1208	Probability and Statistics		4	A
PHI-1060/ CS-2160	Symbolic Logic	The Art I had the track of the Part of the Company of the track of the Company of	0	AU
Credits Earned: 22	GPA: 4.00	CGPA: 3.88	Dear	ı's List



Scan the secure code on the left using the Validator App to verify as per instructions at verify.ashoka.edu.in No.

Registrar Signature



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Code	Course Title	Credits	Grade	
Spring 2023				
CS-1104	Discrete Mathematics	THE PROPERTY OF THE PROPERTY O	0	TP
CS-1205	Algorithm Design and An	alysis	4	A
CS-1217	Operating Systems	Operating Systems		
CS-1390	Introduction to Machine	Introduction to Machine Learning		
CS-IS-3037	Security Engineering 1		0	AU
ENT-2024	Technology and Product I	Development	0	AU
ENT-2025	Strategy through Board G	ames	2	TP
MAT-1001/ CS-2210	Linear Algebra		4	A
MAT-1004	Multivariable Calculus		4	A-
Credits Earned: 22	GPA: 3.82	CGPA: 3.86	Dear	n's List

Code	Course Title	Course Title		Grade
Summer 2023				
ENT-IS-3003	Technology Strategies for Transformation	or Business	4	A
Credits Earned: 4	GPA: 4.00	CGPA: 3.87		

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CS-1203	Data Structures		0	TP
CS-1319	Programming Language Desi Implementation	4	A-	
CS-1340	Computer Networks	and the control of th	4	A
CS-2361	Blockchain and Cryptocurrencies		4	A
ENT-2031	The Power Of Execution		2	A
FC-0102	Environmental Studies	to a service of the s	4	A
MAT-2001/ CS-2250	Algebra 1	The state of the s	4	A
MAT-2003	Real Analysis		4	A-
Credits Earned: 26	GPA: 3.91	CGPA: 3.88	Dear	n's List

### Spring 2024

CS-1349	Theory of Computation	4	A
CS-2362	Computer Security and Privacy	4	A
CS-2366	An Introduction to Quantum Information, Computation and Cryptology	2	A
CS-IS-3060	Investigation of Dilithium: A Lattice-Based Post- Quantum Signature Scheme		A
ENT-1012	Essentials of Technology Product Management	2	A
ENT-2032/ POL-2120	Technology Law and Policy: A New Frontier for Business and Society	4	TP
MAT-4030/ CS-2403	Elliptic Curves and Cryptography	4	A
Credits Earned: 24	GPA: 4.00 CGPA: 3.90	Dean	's List



Scan the secure code on the left using the Validator App to verify as per instructions at verify.ashoka.edu.in **END OF TRANSCRIPT** 

TOTAL INSTITUTION CREDITS: 146
TOTAL TRANSFER CREDITS: 0
OVERALL CREDITS: 146
Print Date: 24th May, 2024

Registrar Signature



# **Ashoka University**

Office of the Registrar Address: Plot No.2, Rajiv Gandhi Education City, Rai 131029, Sonepat, Haryana, India

Ashoka University (Ashoka) is a multi-disciplinary, student-centric university offering a range of academic programmes at the undergraduate and postgraduate diploma levels.

Ashoka's multi-disciplinary curriculum provides students a strong foundation in disciplines in the humanities, social sciences and natural sciences, while enabling them to gain mastery of a subject of their choosing. Taught by world-class faculty, education at Ashoka is designed to develop students with the breadth of vision, knowledge, skills and attitudes required to succeed in the careers of the 21st century. The programmes at Ashoka bear the distinctive stamp of being interdisciplinary.

Located in Sonepat, Haryana, in India's National Capital Region, Ashoka University was established by the International Foundation for Research and Education (IFRE) in 2014 through Act no 21 of 2014 of State Legislature of Haryana as a State Private University.

# **Accreditation**

Ashoka has been approved by the University Grants Commission (UGC) and is competent to award degrees as specified by the UGC.

#### **Courses**

For course descriptions see https://www.ashoka.edu.in/ug-academics

A normal course load is 4-5 (4 credit) courses per semester. Introductory courses are numbered 1000-1999, intermediate courses 2000-2999, and advanced courses 3000-4999.

Foundation Courses (FCs) and the Introduction to Critical Thinking courses (ICT) carry 4 credits each.

# **Degree Requirements**

From the class of 2020 onwards, to graduate with a Bachelor's degree from Ashoka, students have to successfully complete at least the following, with an overall cumulative grade point

average (CGPA)  $\geq$  1.67:

- 36 academic credits from FC/ICT requirements, of which eight credits must come from Environment Studies and ICT.
- A minimum of 48 academic credits from courses in a Pure Major and 96 academic credits overall, or a minimum of 64 academic credits from courses in an Interdisciplinary Major and 112 academic credits overall;
- 4 credits from co-curricular courses.

# **Grading Policies**

For Ashoka's grading policy visit https://www.ashoka.edu.in/gradingpolicy

# **Grading System**

Final letter grades students receive convert to grade point average (GPA) quality points. For how these relate to grades see the grid below. Individual faculty decide how grades map onto percentages.

Letter Grade	Quality Points	Letter Grade	Quality Points
A	4.0	C	2.0
A -	3.7	C-	1.7
B +	3.3	D +	1.3
В	3.0	D	1.0
В =	2.7	D-	0.7
C+	2.3	F	0

The CGPA is the cumulative grade point average up to the given semester. Degree CGPA is the final grade point average of the student. To understand how the CGPA corresponds to percentage bands, visit https://www.ashoka.edu.in/converter

## **Repeated Courses**

Students may repeat a course marked C- or below. The best attempt will count towards the students' CGPA.

# From the semester of Monsoon 2022 onwards:

Students can repeat a course in which the receive a passing grade of C- or above. This option can be exercised twice during the UG program. The best attempt will count towards the students' cumulative GPA (CGPA). The grade(s) from the other attempts remain on the transcript, but do not count towards the CPGA and are marked by an asterisk (\*)

#### **Grade Comments**

**AU:** Course Audit. Awarded to students who successfully audit a course without earning any credits.

I: Incomplete. May be granted to students who were unable to complete coursework by the end of the semester. Failure to complete the coursework and earn a grade within a stipulated time results in a failing grade (F).

**P:** Pass. The student successfully completed the course and received credits. No effect on the GPA.

TC: Transfer Credit. Awarded to students who completed courses at another university. Credits are transferred, but grades earned do not affect the GPA.

**TP:** Teaching Practicum. Awarded to students who assisted a faculty member in a course.

W: Withdrawn. Assigned to students who withdrew from a course before week 9 of the semester. No effect on the GPA.

WAU: Withdrawn from Audit. Assigned to students who withdrew from an audited course. No effect on the GPA.

**WF:** Withdrawn (Fail). Assigned to students who withdrew from a course beyond week 8 of a semester. A WF has the same effect as an F.

**WX:** Withdrawn (Exceptional). Assigned to students who withdrew from a course after the last date for withdrawal due to exceptional reasons, e.g. severe illness. No effect on the GPA.

**Gap Semester:** Semester in which no courses were taken or all courses were dropped.

## **Academic Distinctions**

Rank: Ashoka neither computes nor awards "Class Rank".

**Dean's List:** Students with a GPA of  $\geq 3.65$  in a semester make the Dean's List in that semester.

**Honours:** Based on the CGPA calculated for courses taken at Ashoka during their undergraduate studies, students are awarded the following Honours.

**CUM LAUDE** (CGPA ≥ 3.60)

MAGNA CUM LAUDE (CGPA ≥ 3.75)

**SUMMA CUM LAUDE** (CGPA ≥ 3.90)