

**MAULANA AZAD NATIONAL INSTITUTE OF TECHNOLOGY****BHOPAL (INDIA) -462003****Office of Examinations****OFFICIAL TRANSCRIPT**

This is to certify that Ms. SHATI BISWAS Scholar No.141112093 is a bona fide student of Maulana Azad National Institute of Technology, Bhopal, India from July 2014 for the Bachelor's degree course (8 Semester course) Bachelor of Technology (B.Tech) in Computer Science & Engineering and has successfully completed 8 semester course as of April 2018.

Following is the detailed examination /grading scheme as prescribed for the degree course Computer Science & Engineering along with her performance in the semester examinations-

PERIOD OF STUDY: 4 Years from July 2014 to April 2018

- Each Semester is of sixteen weeks duration and there are eight such semesters.
- Each lecture is of 50 minutes duration.
- Maulana Azad National Institute of Technology, BHOPAL, INDIA employs a Grade Point Average (GPA) system (out of 10) for the B.Tech. course.
- Grade point average systems were introduced in July 2003. Percentage systems existed earlier.
- Relative grading started from July 2011 (exam held in Nov 2011).

Relative Grading Effective from Nov.2011 Exam		
Grade	Grade Points	Description of Performance
A+	9.00 to 10.00	Outstanding
A	8.00 to 8.99	Excellent
B+	7.00 to 7.99	Very Good
B	6.00 to 6.99	Good
C	5.00 to 5.99	Satisfactory
D	4.00 to 4.99	Pass
F	< 4.00 (0 to 3.99)	Fail

Formula for Calculation of SGPA, CGPA and GGPA:-

$$SGPA = \frac{\sum (\text{number of credits earned in each subject} \times \text{grade points of respective subject})}{\text{Total number of credits in that semester}}$$

CGPA = Mean of ODD and Even Semester SGPA's.

GGPA = Mean of all CGPAs.

Detailed official copies of the Transcripts are hereby enclosed.

Prepared by

Checked by

10th -Sep.-2018

प्रो. व्ही. सुमित्रा
Prof. V.C Examinations
मौलाना आज़ाद राष्ट्रीय प्रौद्योगिकी संस्थान
Maulana Azad National Institute of Technology
भोपाल - 462003 (M.P.) भारत
भोपाल - 462003 (M.P.) INDIA



MAULANA AZAD NATIONAL INSTITUTE OF TECHNOLOGY, BHOPAL -462003, MP, INDIA

Office of Examinations
Transcript Statement of Marks/Grades

Year : 2014 - 2018
Scholar No : 141112093

NAME : SHATI BISWAS
COURSE : B.TECH. (IV YEARS DEGREE COURSE)

BRANCH : COMPUTER SCIENCE & ENGINEERING

SEMESTER : I (Ex)

Subject Code	Subject Name	Credits	Credits Earned	Grade	Point Index	Grade
SEMESTER : II (Ex)						
MTH 111	MATHEMATICS I	3.00	3.00	A- 6.74	D	
CHM 122	ENGINEERING CHEMISTRY	3.00	3.00	A+ 9.14	B	
CE 123	ENVIRONMENTAL ENGINEERING	3.00	3.00	A- 6.05	C	
EE 124	BASIC ELECTRONICS AND ELECTRICAL ENGINEERING	3.00	3.00	A- 6.49	D	
ME 125	BASIC MECHANICAL ENGINEERING	3.00	3.00	A- 6.16	D	
AM 126	SOLID MECHANICS	3.00	3.00	A- 6.35	B	
NE 127	WORKSHOP PRACTICE	1.00	1.00	A- 6.40	A	
EE 128	ELECTRICAL AND ELECTRONICS LAB	1.00	1.00	A- 6.56	B+	
CHM 129	CHEMISTRY LAB	2.00	2.00	A- 7.89	B+	
SOPA : 6.36		22.00	22.00	Result : Pass		
SEMESTER : III (Ex)						
Subject Code	Subject Name	Credits	Credits Earned	Grade	Point Index	Grade
MTH 121	MATHEMATICS II	3.00	3.00	A- 6.30	D	
CE 112	BASIC CIVIL ENGINEERING	3.00	3.00	A- 6.54	B	
PHY 113	PHYSICS	3.00	3.00	A- 6.54	D	
HOM 114	COMMUNICATION SKILLS	3.00	3.00	A- 6.40	D	
CS 115	COMPUTER PROGRAMMING	3.00	3.00	A- 6.56	D	
ME 116	ENGINEERING GRAPHICS	3.00	2.00	B+ 7.03	B+	
CS 117	COMPUTER PROGRAMMING LAB	2.00	2.00	A- 7.65	A	
PHY 118	PHYSICS LAB	2.00	2.00	A- 7.89	B+	
SOPA : 5.78	CGPA : 6.07	22.00	22.00	Result : Pass		
SEMESTER : III (Ex)						
Subject Code	Subject Name	Credits	Credits Earned	Grade	Point Index	Grade
CSE 211	DISCRETE STRUCTURE	3.00	3.00	A- 6.49	C	
CSE 212	DATA STRUCTURE	3.00	3.00	A- 6.50	C	
CSE 213	DIGITAL ELECTRONICS	3.00	3.00	A- 6.55	C	
CSE 214	DIGITAL COMMUNICATION	3.00	3.00	A- 6.55	C	
CSE 215	COMPUTER GRAPHICS	3.00	3.00	A- 6.60	A	
CSE 216	LINEAR ALGEBRA & NUMERICAL METHODS	3.00	3.00	A- 6.06	B	
CSE 217	DATA STRUCTURE LAB	2.00	2.00	B+ 7.64	B	
CSE 218	DIGITAL ELECTRONICS LAB	2.00	2.00	B+ 7.89	B	
CSE 219	COMPUTER GRAPHICS LAB	1.00	1.00	A+ 8.13	CSE 431	
CSE 220	LAB - I (PYTHON / VHDL)	1.00	1.00	B+ 7.93	CSE 432	
SOPA : 6.21	CGPA : 6.02	23.00	23.00	Result : Pass		
SEMESTER : IV (Regular)						
Subject Code	Subject Name	Credits	Credits Earned	Grade	Point Index	Grade
CSE 221	PROBABILITY AND QUEUING THEORY	3.00	3.00	A- 6.49	C	
CSE 222	COMPUTER ARCHITECTURE	3.00	3.00	A- 6.50	C	
CSE 223	THEORY OF COMPUTATION	3.00	3.00	A- 6.57	C	
CSE 224	DATABASE MANAGEMENT SYSTEM	3.00	3.00	A- 6.25	B	
CSE 225	ANALYSIS AND DESIGN OF ALGORITHM	3.00	3.00	A- 6.16	B	
CSE 226	SOFTWARE ENGINEERING	3.00	3.00	A- 6.89	C	
CSE 227	DBS LAB - I	2.00	2.00	B+ 7.07	B	
CSE 228	ADA/LAB II	1.00	1.00	B+ 7.66	B	
CSE 229	SLAB III	1.00	1.00	B+ 7.98	B	
CSE 230	LAT - II (JAVA/PHP)	1.00	1.00	A- 8.19	A	
SOPA : 5.84	CGPA : 6.02	23.00	23.00	Result : Pass		
SEMESTER : V (Regular)						
Subject Code	Subject Name	Credits	Credits Earned	Grade	Point Index	Grade
CSE 311	PROBABILITY AND QUEUING THEORY	3.00	3.00	A- 6.05	C	
CSE 312	COMPUTER ARCHITECTURE	3.00	3.00	A- 6.05	C	
CSE 313	THEORY OF COMPUTATION	3.00	3.00	A- 6.25	B	
CSE 314	DATABASE MANAGEMENT SYSTEM	3.00	3.00	A- 6.16	B	
CSE 315	ANALYSIS AND DESIGN OF ALGORITHM	3.00	3.00	A- 6.89	C	
CSE 316	SOFTWARE ENGINEERING	3.00	3.00	A- 7.07	B	
CSE 317	DBS LAB - I	2.00	2.00	B+ 7.66	B	
CSE 318	ADA/LAB II	1.00	1.00	B+ 7.98	B	
CSE 319	MINOR PROJECT	1.00	1.00	A- 8.63	A	
CSE 320	OPERATING SYSTEM/LAB	1.00	1.00	A- 8.78	B+	
CSE 321	LAB - III (ANDROID/MATLAB)	1.00	1.00	A- 8.32	A	
SOPA : 6.64		23.00	23.00	Result : Pass		

Office of Examinations

Transcript Statement of Marks/Grades

Year : 2014 - 2018
Scholar No : 141112093

SEMESTER : VI (Regular)

Subject Code	Subject Name	Credits	Credits Earned	Grade	Point Index	Grade
SEMESTER : VI (Regular)						
CSE 321	COMPUTER NETWORKS	3.00	3.00	A- 6.19	B	
CSE 322	DATA WAREHOUSING AND MINING	3.00	3.00	A- 6.82	A	
CSE 323	ARTIFICIAL INTELLIGENCE	3.00	3.00	A- 6.95	B	
CSE 342	ADVANCED DATA STRUCTURE	3.00	3.00	A- 6.81	B	
CSE 343	DIGITAL IMAGE PROCESSING	3.00	3.00	A- 7.96	B+	
CSE 354	UNIX INTERNAL SHELL PROGRAMMING	3.00	3.00	A- 7.13	B+	
CSE 355	COMPUTER NETWORKS LAB - I	1.00	1.00	A- 7.75	B+	
CSE 326	LAB IV (HADOOP / CUDA)	2.00	2.00	A- 7.77	B	
CSE 327	MINOR PROJECT	2.00	2.00	A- 7.67	B+	
SOPA : 7.38	CGPA : .01	25.00	25.00	Result : Pass		

Subject Code	Subject Name	Credits	Credits Earned	Grade	Point Index	Grade
SEMESTER : VII (Regular)						
CSE 411	TCP / IP & WEB TECHNOLOGY	3.00	3.00	A- 7.75	B+	
CSE 443	BIG DATA ANALYTICS	3.00	3.00	A- 7.31	B	
CSE 442	WEB SEARCH AND MINING	3.00	3.00	A- 6.59	B	
CSE 446	ETHICAL HACKING	3.00	3.00	A- 6.67	A	
CSE 445	CRYPTOGRAPHY	3.00	3.00	A- 8.28	A	
CSE 447	CLOUD COMPUTING	3.00	3.00	A- 8.74	A	
CSE 448	MAJOR PROJECT & SEMINAR	2.00	2.00	A- 8.35	A	
CSE 449	INTERNSHIP / INDUSTRIAL TRAINING	1.00	1.00	A- 8.82	B	
CSE 450	SEMINAR	1.00	1.00	A- 7.47	B-	
SOPA : 7.96	CGPA : .01	20.00	20.00	Result : Pass		

Subject Code	Subject Name	Credits	Credits Earned	Grade	Point Index	Grade
SEMESTER : VIII (Regular)						
CSE 421	NETWORK SECURITY	3.00	3.00	A- 6.85	B	
CSE 427	NATURAL LANGUAGE PROCESSING	3.00	3.00	A- 6.40	B	
CSE 437	BIOMETRICS	3.00	3.00	A- 6.72	A	
CSE 451	GRAPH THEORY	3.00	3.00	A- 6.37	B	
CSE 452	CLOUD COMPUTING	3.00	3.00	A- 9.13	A	
CSE 453	MAJOR PROJECT	2.00	2.00	A- 8.84	A	
CSE 454	GENERAL PROFICIENCY	2.00	2.00	A- 7.42	B	
CSE 423	SEMINAR	1.00	1.00	A- 8.35	B	
SOPA : 7.66	CGPA : .01	20.00	20.00	Result : Pass		

Subject Code	Subject Name	Credits	Credits Earned	Grade	Point Index	Grade
SEMESTER : IX (Regular)						
CSE 311	PROBABILITY AND QUEUING THEORY	3.00	3.00	A- 6.49	B	
CSE 312	COMPUTER ARCHITECTURE	3.00	3.00	A- 6.46	B	
CSE 313	THEORY OF COMPUTATION	3.00	3.00	A- 6.34	B	
CSE 314	DATABASE MANAGEMENT SYSTEM	3.00	3.00	A- 5.50	C	
CSE 315	ANALYSIS AND DESIGN OF ALGORITHM	3.00	3.00	A- 8.28	A	
CSE 316	SOFTWARE ENGINEERING	3.00	3.00	A- 7.20	B+	
CSE 317	COMPILER DESIGN LAB	1.00	1.00	A- 7.00	B	
CSE 318	MICROPROCESSOR LAB II	1.00	1.00	A- 8.63	A	
CSE 319	MINOR PROJECT	1.00	1.00	A- 7.78	B+	
CSE 320	OPERATING SYSTEM/LAB	1.00	1.00	A- 5.88	C	
CSE 321	LAB - III (ANDROID/MATLAB)	1.00	1.00	A- 8.32	A	
SOPA : 6.64		23.00	23.00	Result : Pass		

Subject Code	Subject Name	Credits	Credits Earned	Grade	Point Index	Grade
SEMESTER : X (Regular)						
CSE 321	DATA WAREHOUSING AND MINING	3.00	3.00	A- 6.82	A	
CSE 322	ARTIFICIAL INTELLIGENCE	3.00	3.00	A- 6.95	B	
CSE 342	ADVANCED DATA STRUCTURE	3.00	3.00	A- 7.96	B+	
CSE 343	DIGITAL IMAGE PROCESSING	3.00	3.00	A- 7.13	B	
CSE 354	UNIX INTERNAL SHELL PROGRAMMING	3.00	3.00	A- 7.13	B	
CSE 355	COMPUTER NETWORKS LAB - I	1.00	1.00	A- 7.75	B+	
CSE 326	LAB IV (HADOOP / CUDA)	2.00	2.00	A- 7.77	B	
CSE 327	MINOR PROJECT	2.00	2.00	A- 7.67	B+	
SOPA : 7.81	CGPA : .01	23.00	23.00	Result : Pass		

Subject Code	Subject Name	Credits	Credits Earned	Grade	Point Index	Grade
SEMESTER : XI (Regular)						
CSE 321	DATA WAREHOUSING AND MINING	3.00	3.00	A- 6.82	A	
CSE 322	ARTIFICIAL INTELLIGENCE	3.00	3.00	A- 6.95	B	
CSE 342	ADVANCED DATA STRUCTURE	3.00	3.00	A- 7.96	B+	
CSE 343	DIGITAL IMAGE PROCESSING	3.00	3.00	A- 7.13	B	
CSE 354	UNIX INTERNAL SHELL PROGRAMMING	3.00	3.00	A- 7.13	B	
CSE 355	COMPUTER NETWORKS LAB - I	1.00	1.00	A- 7.75	B+	
CSE 326	LAB IV (HADOOP / CUDA)	2.00	2.00	A- 7.77	B	
CSE 327	MINOR PROJECT	2.00	2.00	A- 7.67	B+	
SOPA : 7.81	CGPA : .01	23.00	23.00	Result : Pass		

Passed the UG course with Gross Grade Point Average (GGPA) of 6.73 on 10 point scale

Year : 2014 - 2018
Scholar No : 141112093

SEMESTER : I (Ex)

SEMESTER : II (Ex)

SEMESTER : III (Ex)

SEMESTER : IV (Regular)

SEMESTER : V (Regular)

SEMESTER : VI (Regular)

SEMESTER : VII (Regular)

SEMESTER : VIII (Regular)

SEMESTER : IX (Regular)

SEMESTER : X (Regular)

SEMESTER : XI (Regular)

SEMESTER : XII (Regular)

SEMESTER : XIII (Regular)

SEMESTER : XIV (Regular)

SEMESTER : XV (Regular)

SEMESTER : XVI (Regular)

SEMESTER : XVII (Regular)

SEMESTER : XVIII (Regular)

SEMESTER : XIX (Regular)

SEMESTER : XX (Regular)

SEMESTER : XXI (Regular)

SEMESTER : XXII (Regular)

SEMESTER : XXIII (Regular)

SEMESTER : XXIV (Regular)

SEMESTER : XXV (Regular



मौलाना आज़ाद राष्ट्रीय प्रौद्योगिकी संस्थान, भोपाल

मध्य प्रदेश, भारत

अभिषद की अनुशंसा पर

Scholar No. 141112093

शती बिसवास
को
कम्प्यूटर विज्ञान एवं अभियांत्रिकी

में
प्रौद्योगिकी स्नातक

की उपाधि उनके द्वारा इस उपाधि की अवास्थी हेतु विनियम विहित अर्हताओं को सफलतापूर्वक
पूर्णकर निर्धारित परीक्षा अप्रैल 2018 में उत्तीर्ण होने पर एतद द्वारा प्रदान करता है।
10 अंकीय मापक्रम में इनकी कुल कोटि अंक माध्य 6.73 है।
भारतीय गणराज्य के अंतर्गत भोपाल में आज दिनांक 9 सितंबर 2018 को संस्थान की मुद्रा सहित दी गई।



MAULANA AZAD NATIONAL INSTITUTE OF TECHNOLOGY, BHOPAL

Madhya Pradesh, India

Upon recommendation of the Senate, hereby confers the degree of

BACHELOR OF TECHNOLOGY

in

COMPUTER SCIENCE & ENGINEERING

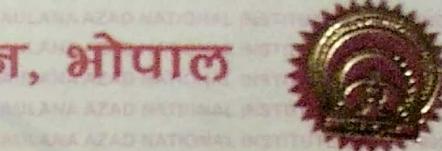
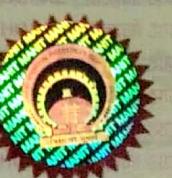
on

SHATI BISWAS

who has completed the requirements prescribed under the regulations
for the award of this Degree and passed the examination in **APRIL 2018**
with Gross Grade Point Average of **6.73** on a 10 point scale.

Given this day, the **9th September 2018** under the seal of the Institute at Bhopal in the Republic of India.

निदेशक एवं अध्यक्ष, अभिषद
Director & Chairman, Senate



अध्यक्ष, शासी निकाय
Chairperson, Board of Governors



मौलाना आज़ाद राष्ट्रीय प्रौद्योगिकी संस्थान MAULANA AZAD NATIONAL INSTITUTE OF TECHNOLOGY

भोपाल - 462 051

BHOPAL - 462 051 (M.P.) INDIA

.Migrations Certificate

S. No. 010944

Scholar No. 141112093

Mr./Ms. SHATI BISWAS

Father's/Husband's Name SHIAPAN BISWAS

Passed/Failed in last Examination of B.TECH Semester VIII Branch

COMPUTER SCIENCE & ENGINEERING Year APRIL 2018

This Migration certificate is issued on his/her own request and Maulana Azad National Institute of Technology, Bhopal has no objection in his/her seeking admission in any other Institute/University. He/She was indulged/not indulged in any type of ragging/indisciplinary activity, individually or in group.

Date 11.09.18


Dean (Academic)

Note :

- Consequent upon the issuing of this migration certificate he/she is not eligible to appear at any examination of the Institute unless he/she is re-enrolled and this migration certificate is returned or a migration certificate from the University or Institution having the status of a University last attended by him/her is submitted. If he/she appears at any examination of this Institute without being re-enrolled, he/she does so at his/her own risk and the examination will be liable to be cancelled.
- It may also be treated as equivalent to Transfer Certificate wherever required.