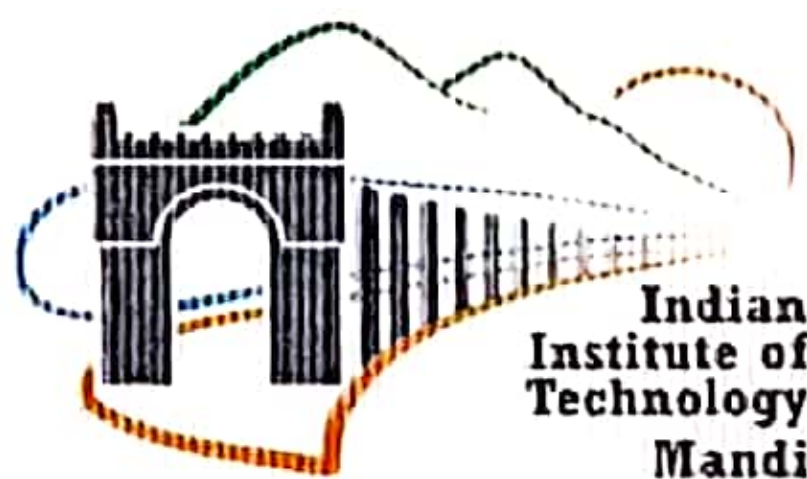




अभिषद् की अनुशंसा पर
भारतीय प्रौद्योगिकी संस्थान मण्डी
के अभिशासक परिषद् द्वारा
संगणक विज्ञान एवं अभियांत्रिकी में प्रौद्योगिकी स्नातक
के साथ माइनर इन प्रबन्धन
की उपाधि
आयुष मिश्रा
को

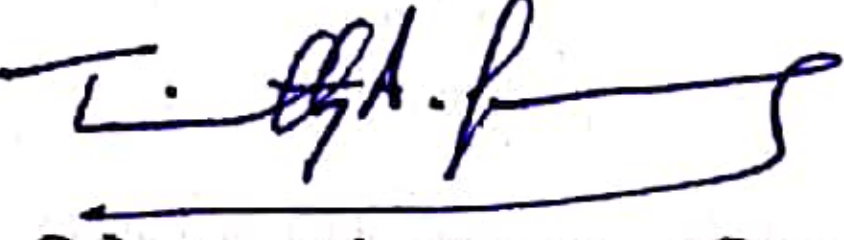
05 अक्टूबर 2019 को कमांद, मण्डी जनपद में प्रदान की गयी।

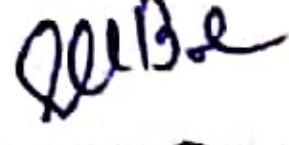


The Board of Governors of the
Indian Institute of Technology Mandi
upon the recommendation of the Senate hereby confers the degree of
Bachelor of Technology
in *Computer Science and Engineering*
With Minor in Management
on
AAYUSH MISHRA

Given at Kamand, Mandi District on this 05th of October 2019


अध्यक्ष, अभिशासक परिषद्
Chairman, Board of Governors


निदेशक एवं अध्यक्ष, अभिषद्
Director & Chairman, Senate


कुलसचिव
Registrar

Indian Institute of Technology Mandi



No.: IIT Mandi/B.Tech/B15101/2019/DS-7970

Dated 27th June, 2019

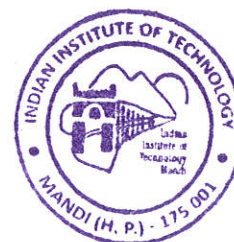
PROVISIONAL CERTIFICATE

(FOR THE DEGREE OF BACHELOR OF TECHNOLOGY (B.Tech.))

This is to certify that **Mr. Aayush Mishra**, Roll No.: B15101 has successfully completed all the requirements for the award of the **Bachelor of Technology (B.Tech.) in Computer Science and Engineering** of this Institute on **27th June, 2019**. He has secured a CGPA of **8.88** out of the maximum CGPA of 10.00.

The degree shall, however, be conferred at the next Convocation of the Institute subject to ratification by the Senate and the Board of Governors of the Institute.


(Suresh Rohilla)
Assistant Registrar (Academics)





Indian Institute of Technology Mandi

GRADE REPORT

ROLL NO. : B15101

PROGRAMME : B.TECH.

NAME : AAYUSH MISHRA

BRANCH : COMPUTER SCIENCE & ENGINEERING

ACADEMIC YEAR/ SEMESTER	SUBJECT CODE	TITLE OF SUBJECT	CREDIT	GRADE OBTAINED	SGPA	CGPA
2015-16 FIRST	HS-105	BASIC COMMUNICATION SKILLS	3	A	9.32	9.32
	IC-101P	REVERSE ENGINEERING	2	B		
	IC-110	ENGINEERING MATHEMATICS	3	A		
	IC-140	GRAPHICS FOR DESIGN	4	O		
	IC-150	COMPUTATION FOR ENGINEERS	3	O		
	IC-150P	COMPUTATION FOR ENGINEERS LAB	2	O		
	IC-160	ELECTRICAL SYSTEMS AROUND US	3	A		
	IC-160P	ELECTRICAL SYSTEMS AROUND US LAB	2	A		
2015-16 SECOND	HS-202	PRINCIPLES OF ECONOMICS	3	O	8.64	8.98
	IC-111	LINEAR ALGEBRA	3	A		
	IC-121	MECHANICS OF PARTICLES AND WAVES	3	B		
	IC-141	PRODUCT REALIZATION TECHNOLOGY	2	B		
	IC-141P	PRODUCT REALIZATION TECHNOLOGY LAB	2	B		
	IC-142	ENGINEERING THERMODYNAMICS	4	B		
	IC-161	APPLIED ELECTRONICS	3	A		
	IC-161P	APPLIED ELECTRONICS LAB	2	A		
2016-17 FIRST	CS-207	APPLIED DATABASES PRACTICUM	2	A	8.64	8.86
	CS-208	MATHEMATICAL FOUNDATIONS OF COMPUTER SCIENCE	4	B		
	IC-130	APPLIED CHEMISTRY FOR ENGINEERS	3	B		
	IC-130P	CHEMISTRY PRACTICUM	2	A		
	IC-136	UNDERSTANDING BIOTECHNOLOGY AND ITS APPLICATIONS	3	A		
	IC-221	FOUNDATIONS OF ELECTRODYNAMICS	3	C		
	IC-222P	PHYSICS PRACTICUM	2	O		
	IC-250	PROGRAMMING AND DATA STRUCTURE PRACTICUM	3	O		
2016-17 SECOND	CS-201	COMPUTER ORGANIZATION	3	A	8.95	8.89
	CS-201P	COMPUTER ORGANIZATION LABORATORY	1	O		
	CS-202	ADVANCED DATA STRUCTURE AND ALGORITHMS	4	O		
	IC-201P	DESIGN PRACTICUM	4	A		
	IC-210	PROBABILITY STATISTICS & RANDOM PROCESSES	3	A		
	IC-240	MECHANICS OF RIGID BODIES	3	A		
	IC-260	SIGNALS AND SYSTEMS	3	C		

Date: 27 June, 2019

Prepared By: *Indudeep*

Checked By: *Aushma*

AS
Assistant Registrar
(Academics)

Please see overleaf for details of Grading System and SGPA/CGPA calculations.





Indian Institute of Technology Mandi

GRADE REPORT

ROLL NO. : B15101		PROGRAMME : B.TECH.				
NAME : AAYUSH MISHRA		BRANCH : COMPUTER SCIENCE & ENGINEERING				
ACADEMIC YEAR/ SEMESTER	SUBJECT CODE	TITLE OF SUBJECT	CREDIT	GRADE OBTAINED	SGPA	CGPA
2017-18 FIRST	CS-308	LARGE APPLICATIONS PRACTICUM	2	A		
	CS-310	INTRODUCTION TO COMMUNICATING DISTRIBUTED PROCESSES	4	A		
	CS-562	ARTIFICIAL INTELLIGENCE	3	A		
	CS-669	PATTERN RECOGNITION	4	A	8.68	8.85
	HS-355	INDIA THROUGH ITS EPICS	3	B		
	IC-241	MATERIALS SCIENCE FOR ENGINEERS	3	B		
2017-18 SECOND	CS-302	PARADIGMS OF PROGRAMMING	4	O		
	CS-307	SYSTEMS PRACTICUM	2	A		
	CS-309	INFORMATION AND DATABASE SYSTEMS	4	A		
	CS-671	DEEP LEARNING AND APPLICATIONS	4	B	8.70	8.83
	HS-304	ORGANIZATIONAL MANAGEMENT	3	A		
	IC-242	CONTINUUM MECHANICS	3	C		
2018-19 FIRST	CS-660	DATA MINING FOR DECISION MAKING	4	A		
	DP-401P	MAJOR TECHNICAL PROJECT	3	A		
	HS-205	FINANCIAL ACCOUNTING	3	O		
	HS-391	INTRODUCTION TO WORLD HISTORY	3	O	9.19	8.87
	HS-591*	SPECIAL TOPICS IN MIXED MEDIA FILM MAKING	1	P		
	PH-513	QUANTUM MECHANICS	3	B		
2018-19 SECOND	CS-606	COMPUTATIONAL MODELING OF SOCIAL SYSTEMS	3	A		
	DP-402P	MAJOR TECHNICAL PROJECT	5	A		
	HS-208	ENGLISH -II	3	A		
	HS-510	ESSENTIALS OF ENTREPRENEURSHIP	3	A	9.00	8.88
	HS-591	SELECTED TOPICS IN BUSINESS COMMUNICATION FOR ENGINEERS	1	A		
	IC-010*	INTERNSHIP	2	P		
TOTAL CREDITS EARNED &FINAL CGPA			160			8.88

Result: The student has successfully completed all the requirements for the award of the B.Tech degree.

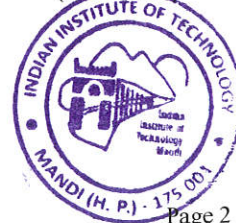
NOTE: *The courses are not considered in Final CGPA calculation

Date: 27 June, 2019

Prepared By: *Kuldeep*

Checked By: *Aushma*

[Signature]
Assistant Registrar
(Academics)



Please see overleaf for details of Grading System and SGPA/CGPA calculations.

Grading System (Grade Points) for B.Tech Programme at IIT Mandi:

At the end of the semester, a student is awarded a letter grade in each of his/her courses by the concerned Instructor-in-charge taking into account his/her performance in various examinations, quizzes, assignments, laboratory work (if any) etc., besides regularity of attendance in classes.

Grading system:

Letter Grades	O	A	B	C	D	E	F
Grade Points	10	9	8	7	6	4	0

O = Outstanding, A = Very Good, B = Good, C = Average, D = Below Average, E = Pass, F = Fail.

Pass/Fail Course: Letter Grade 'P' = Pass, 'F' = Fail. This grade is not counted towards SGPA/CGPA calculation.

Note:

- The credits for the course depend on the academic load, which, in turn, is determined by the number of contact hours (lectures and tutorials), laboratory hours (if applicable) & additional hours that a student is expected to devote per week.
- For theory classes and tutorials: 1 credit is awarded for 1 lecture hour/week (14 lecture hours per semester).
- For Lab Courses, Practicals & Practicums: The following system is followed.

Hours per week	1-2	3-4	5-6	7-8
Credits	1	2	3	4

Semester/Cumulative Grade Point Average (SGPA/CGPA):

SGPA (*Semester Grade Point Average*) / CGPA (*Cumulative Grade Point Average*) is a weighted average of the grade points earned by a student in the credited courses (on a 10-Point Scale) and is computed by using the following formula:

$$\text{SGPA or CGPA} = \frac{\sum_{i=1}^n C_i \cdot G_i}{\sum_{i=1}^n C_i}$$

where n is the number of courses credited in semester (in SGPA) or the number of courses credited from the first semester to the latest semester (in CGPA). C_i & G_i denote the credits associated and grade-points obtained respectively in a course i .

For SGPA, $\sum C_i$ represents the number of credits registered in that semester. For CGPA, $\sum C_i$ represents the total earned credits i.e. number of credits earned by passing the courses.

Minimum graduating CGPA for B.Tech Programme: 5.0

No Class or Division is awarded for B.Tech Programme.