भारतीय प्रौद्योगिकी संस्थान भिलाई
Indian Institute of Technology Bhilai

Consolidated Grade Card

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Name	**PATEL HARSHVARDHAN MADAN**	Program	**Bachelor of Technology**
ID No	**11640420**	Discipline	**Computer Science and Engineering**

Semester: 2016-17-M — SGPA: 7.88

Course Code	Course Name	Course Type	Credit	Grade	Course Code	Course Name	Course Type	Credit	Grade
CA1010	Introduction to Folk Theatre of India	CL	2	A	ID1054	Digital Fabrication	IC	4	A-
					ID1303	Introduction to Programming	IC	4	B
CS1310	Discrete Structures I	PC	4	B	LA1280	Anthropology and Media	CL	2	A-
CY1017	Environmental Chemistry-I	IC	2	B	MA1110	Calculus-I	IC	2	D
EE1110	Applied Digital Logic Design	IC	2	B-	MA1220	Calculus-II	IC	4	C-
EE1120	Digital System Design	IC	2	B	PH1017	Classical Physics	IC	2	A+
ID1035	Independent Project	IC	2	A					

Semester: 2016-17-W — SGPA: 8.4

Course Code	Course Name	Course Type	Credit	Grade	Course Code	Course Name	Course Type	Credit	Grade
AA103	National Service Scheme	AA	2	SS	LA1110	Financial Markets	CL	2	A-
BO1010	Introduction to Life Sciences	IC	2	B	LA1260	Fundamentals of Organizational Structure	CL	2	A
CA1025	Madhubani Painting	CL	2	A+					
CS1340	Discrete Structures II	PC	4	B	MA1130	Vector Calculus	IC	2	A-
CS1353	Introduction To Data Structures	PC	6	B	MA1140	Linear Algebra	IC	2	C
CY1020	Dynamics of Chemical Systems-I	IC	2	A-	PH1027	Electro Magnetism & Maxwells Eqn	IC	2	C
EE1330	Digital Signal Processing	DE	2	A-					
LA1050	Introduction To Western Art	CL	2	A+					

Semester: 2017-18-M — SGPA: 8.19

Course Code	Course Name	Course Type	Credit	Grade	Course Code	Course Name	Course Type	Credit	Grade
CA1021	Understanding Cinema: Five days at the Movies	CL	2	A+	CS2610	Basics of Graph Theory	DE	2	B
					CS3510	Operating System-I	PC	2	A-
CS2233	Data Structures	PC	6	B	LA1240	Literature and Science	CL	2	A+
CS2323	Computer Architecture	PC	4	C	MA2110	Probability	IC	2	B-
CS2400	Principles of Programming Languages I	PC	2	A	PH1031	Physics Lab	IC	4	A
					PH2017	Relativity	IC	2	C
CS2600	Basics of Number-theoretic Algorithms	DE	2	A	PH2117	Photonics	IC	2	C-
					SY1003	Essential Physical Activities	AA	1	S

Semester: 2017-18-W — SGPA: 9.21

Course Code	Course Name	Course Type	Credit	Grade	Course Code	Course Name	Course Type	Credit	Grade
AA103	National Service Scheme	AA	2	SS	CS2443	Algorithms	PC	6	A
CS2410	Theory of Computation	PC	4	B	CS3320	Compilers-I	PC	2	B
CS2420	Introduction to Complexity Theory	PC	2	A+	CS3523	Operating System-II	PC	6	A-
CS2433	Principles of Programming Languages-II	PC	6	A	MA2140	Statistics	IC	2	B

Semester: 2018-19-M — SGPA: 8.91

Course Code	Course Name	Course Type	Credit	Grade	Course Code	Course Name	Course Type	Credit	Grade
CA100	Professional Communication Lab-I Sketching and Drawing	CL	1	A-	CS553	Cryptography	DE	6	A-
CA200	Professional Communication Lab-III- Technical Literature Structure	CL	1	A	CY201	Surface phenomena and electrochemistry	OE	2	A+
CS100	Software Tools & Technologies Lab I	PC	4	A	EE105	Embedded Programming	DE	2	A
					IC300	Materials Chemistry-III	IC	2	A-
CS301	Computer Networks	PC	6	B-	LA301	What is Literature	CL	2	A-
CS550	Machine Learning	DE	6	A-	PH204	Photovoltaics	OE	2	A-

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Name	**PATEL HARSHVARDHAN MADAN**
ID No	**11640420**

Program	**Bachelor of Technology**
Discipline	**Computer Science and Engineering**

Semester: 2018-19-W				SGPA: 8.77			
Course Code	**Course Name**	**Course Type**	**Credit**	**Grade**			
CA150	Professional Communication Lab-II Presentation Skills	CL	1	A			
CA250	Professional Ethics	CL	2	A-			
CS200	Software Tool and Technologies Lab-II	PC	4	B-			
CS252	Algorithms-II	PC	4	B			
CS254	Database Management Systems	DE	4	A-			

Course Code	Course Name	Course Type	Credit	Grade
CS555	Computer System Security	DE	6	A+
IC152	Linear Algebra-II	IC	3	B
LA305	City in Literature	CL	2	A
LA308	Positive Psychology	CL	2	A
LA309	History of Epigraphy and Numismatics	CL	1	A
PH203	Thin Film Science and Technology	OE	2	B-

Semester: 2019-20-M				SGPA: 9.0
Course Code	**Course Name**	**Course Type**	**Credit**	**Grade**
AA103	National Service Scheme	AA	2	SS
CA107	Understanding Kathak	OE	2	A+
CA109	Sculpture Design	OE	2	B
CA110	Fundamentals of Hindustani Music	OE	2	A-
CS513	Electronic Payment Systems	OE	6	B-

Course Code	Course Name	Course Type	Credit	Grade
CS601	Cryptographic Protocols	DE	6	A
CS607	Adversarial Machine Learning:Security and Privacy of Ml	DE	6	A+
LA317	The Psychology of Memory	CL	2	A-

Semester: 2019-20-W				SGPA: 9.15
Course Code	**Course Name**	**Course Type**	**Credit**	**Grade**
AA103	National Service Scheme	AA	2	SS
CS495	Mooc-Based (NPTEL): Reinforcement Learning	OE	6	A
CS503	Lightweight Cryptography	OE	6	B
CS554	Blockchain Technologies	DE	6	A

Course Code	Course Name	Course Type	Credit	Grade
EE567	Math of Machine Learning	OE	3	A-
LA324	Leadership: An Organizational Behaviour Perspective	OE	2	A-
LA326	Adaptation: Literature and Beyond	OE	2	A-
LA334	Themes in Literature	OE	2	B

CGPA: 8.67

The student completed the credit requirements for the program in May, 2020.

Digitally signed by
Nihar Ranjan Barick
Assistant Registrar,
Academic Affairs, IIT Bhilai

Assistant Registrar, Academic Affairs

* Course is **repeated** in higher semester(s) and hence shall NOT be considered for CGPA computations.

\# Course is **replaced** by another course in higher semester(s) and hence shall NOT be considered for CGPA computations.

$$CGPA = \frac{\sum_{i=1}^{n}(C_i \times N_i)}{\sum_{i=1}^{n} C_i}$$

where,
n is the number of courses eligible for CPGA computations,
C_i is the credits assigned to the course, and
N_i is the numeric points obtained for the course.

Grades and the associated numeric points

Grade	A+	A	A−	B	B−	C	C−	D	F
Points	10	10	9	8	7	6	5	4	0

CGPA Scale and Conversion

The CGPA awarded is on the scale of 10. The Institute awards NO class or division or rank to its students.

The Institute DOES NOT provide any formula for conversion of CGPA to percentage or any other scale.

Course Category Legends

AA: Additional Activity

IC: Institute Core

PC: Professional Core

DE: Departmental Elective

OE: Open Elective

TC: Thesis / Candidacy

CL: Creative Art/ Liberal Art

Medium of Instruction

The medium of instruction is English for all the courses.