



Mahavir Education Trust's  
**SHAH & ANCHOR KUTCHHI ENGINEERING COLLEGE**

Affiliated to University of Mumbai & Approved by DTE & AICTE  
# UG Programs accredited by NBA for 3 years w.e.f. 1st July, 2019

### TRANSCRIPT

Shah and Anchor Kutchhi Engineering College is affiliated to the University of Mumbai, approved by the Director of Technical Education, Maharashtra State and All India Council for Technical Education, New Delhi.

This is to certify that Ms. **JAIN DHRUVI LALIT ARCHANA** is / was a bonafide student of this Institute for the four-year degree program of Bachelors of Engineering in **COMPUTER ENGINEERING** from 2018-19 to 2021-22 and this is the official transcripts of the course taken by him/her.

The University of Mumbai is the examining Authority, and it issues the marks sheets to the candidates. The **total Credits Assigned** for the above said course is 211. The medium of instruction for the entire course is in English.

**The Medium of Instruction for the above mentioned course is English.**

The University of Mumbai follows GPA (Grade Point Average) system-

**1. Grading of Performance (Letter Grade and Grade Point Allocation):**

The letter grades and their equivalent grade point applicable for undergraduate program are given below:

Percentage of Marks obtained	Letter Grade	Grade Points	Performance
80.00 and above	O	10	Outstanding
75.00 – 79.99	A	9	Excellent
70.00 – 74.99	B	8	Very Good
60.00 – 69.99	C	7	Good
50.00 – 59.99	D	6	Fair
45.00 – 49.99	E	5	Average
40.00 – 44.99	P	4	Pass
Less than 40.00	F	0	Fail

**2. SGPI/ CGPI calculation:**

**2.1 Semester Grade Performance Index (SGPI):**

The performance of a learner in a semester is indicated by a number called Semester Grade Performance Index (SGPI). SGPI is calculated to two decimal places, is equal to:-

$$SGPI = \frac{C_1 G_1 + C_2 G_2 + C_3 G_3 + \dots + C_n G_n}{C_1 + C_2 + C_3 + \dots + C_n}$$

**2.2 Cumulative Grade Performance Index (CGPI):**

An up to date assessment of the overall performance of a learner from the time he/she enrolled the University of Mumbai is obtained by calculating a number called the Cumulative Grade Performance Index (CGPI), in a manner similar to the calculation of SGPI. The CGPI therefore considers all the courses mentioned in the curriculum/syllabus manual, towards the minimum requirement of the degree learner have enrolled for.

Signature valid  
Digitally signed by RAJESH VAIJU  
Date: 2023.07.14 14:52:45+05:30  
Reference ID: 3A8B8A8D

Registrar

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**TRANSCRIPT**

**First Year Engineering - Semester-I**

Name of Student	Ms. JAIN DHRUVI LALIT ARCHANA							
Course	Computer Engineering							
Academic Year	November 2018							
Exam held in / Seat No./ Registration No.	November 2018/ 6012235 /14814							

Sr. No	Subject Code	Subject	Teaching Scheme (PPW*)			Course Credits Assigned			Grade Earned	Credit Earned (C)	Grade Point (G)	C X G
			T	P	Tut	T	P	Tut				
1	FEC101	Applied Mathematics-I	04	--	--	04	--	--	05	C	04	07 28
			--	--	01	--	--	01		O	01	10 10
2	FEC102	Applied Physics-I	03	--	--	03	--	--	3.5	C	03	07 21
			--	01	--	--	0.5	--		O	0.5	10 05
3	FEC103	Applied Chemistry -I	03	--	--	03	--	--	3.5	B	03	08 24
			--	01	--	--	0.5	--		O	0.5	10 05
4	FEC104	Engineering Mechanics	05	--	--	05	--	--	06	D	05	06 30
			--	02	--	--	01	--		O	01	10 10
5	FEC105	Basic Electrical Engineering	04	--	--	04	--	--	05	D	04	06 24
			--	02	--	--	01	--		B	01	08 08
6	FEC106	Environmental Studies (EVS)	02	--	--	02	--	--	02	C	02	07 14
7	FEL101	Basic Workshop & Practice I	--	04	--	--	02	--	02	O	02	10 20
		<b>Total</b>	<b>21</b>	<b>10</b>	<b>01</b>	<b>21</b>	<b>05</b>	<b>01</b>	<b>27</b>	--	<b>27</b>	-- <b>199</b>

**Remark: Successful**

**SGPI: 7.37**

**NOTE: PPW : Periods per week, T : Theory (1 hour), P : Practical (2 hour), Tut. : Tutorial (1 hour)**

**\*: Duration of each Period is 1 hour and Duration of each semester is 16 weeks**

Signature valid  
  
Date: 20/11/2018  
Time: 14:35 40:30

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Name of Student	Ms. JAIN DHRUVI LALIT ARCHANA									
Course	Computer Engineering									
Academic Year	May 2019									
Exam held in / Seat No./ Registration No.	May 2019/3099717/14814									

Sr. No	Subject Code	Subject	Teaching Scheme (PPW*)			Course Credits Assigned			Grade Earned	Credit Earned (C)	Grade Point (G)	C X G	
			T	P	Tut	T	P	Tut					
1	FEC201	Applied Mathematics-II	04	--	--	04	--	--	05	D	04	06	24
			--	--	01	--	--	01		O	01	10	10
2	FEC202	Applied Physics-II	03	--	--	03	--	--	3.5	C	03	07	21
			--	01	--	--	0.5	--		O	0.5	10	05
3	FEC203	Applied Chemistry -II	03	--	--	03	--	--	3.5	O	03	10	30
			--	01	--	--	0.5	--		O	0.5	10	05
4	FEC204	Engineering Drawing	03	--	--	03	--	--	05	C	03	07	21
			--	04	--	--	02	--		O	02	10	20
5	FEC205	Structured Programming Approach	04	--	--	04	--	--	05	O	04	10	40
			--	02	--	--	01	--		O	01	10	10
6	FEC206	Communication Skills	02	--	--	02	--	--	03	A	02	09	18
			--	02	--	--	01	--		A	01	09	09
7	FEL201	Basic Workshop Practice II	--	04	--	--	02	--	02	A	02	09	18
		<b>Total</b>	<b>19</b>	<b>14</b>	<b>01</b>	<b>19</b>	<b>07</b>	<b>01</b>	<b>27</b>	--	<b>27</b>	--	<b>231</b>

**Remark: Successful****SGPI: 8.56**

NOTE: PPW : Periods per week, T : Theory (1 hour), P : Practical (2 hour), Tut. : Tutorial (1 hour)

\*: Duration of each Period is 1 hour and Duration of each semester is 16 weeks

Signature valid

Digitally signed by SAKALA  
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Name of Student	Ms. JAIN DHARUVI LALIT ARCHANA						
Course	Computer Engineering						
Academic Year	December 2019						
Exam held in / Seat No. /Registration No.	December 2019/RWM3038/14814						

Sr. No	Subject Code	Subject	Teaching Scheme Contact Hours)			Course Credits Assigned			Grade Earned	Credit Earned (C)	Grade Point (G)	C X G
			T	P	Tut	T	P	Tut				
1	CSC301	Applied Mathematics III	4+1@	-	-	5	-	-	5	B	05	08
2	CSC302	Digital Logic Design and Analysis	4	-	-	4	-	-	4	A	04	09
3	CSC303	Discrete Structures	4	-	-	4	-	-	4	O	04	10
4	CSC304	Electronic Circuits & Communication Fundamentals	4	-	-	4	-	-	4	B	04	08
5	CSC305	Data Structures	4	-	-	4	-	-	4	C	04	07
6	CSL301	Digital System Lab	-	2	-	-	1	-	1	A	01	09
7	CSL302	Basic Electronics Lab	-	2	-	-	1	-	1	O	01	10
8	CSL303	Data structure Lab	-	2	-	-	1	-	1	C	01	07
9	CSL304	OOPM (Java) Lab	-	2+2*	-	-	2	-	2	O	02	10
<b>Total</b>			<b>21</b>	<b>10</b>	-	<b>21</b>	<b>5</b>	-	<b>26</b>	--	<b>26</b>	--
												<b>222</b>

**Remark: Successful****SGPI: 8.54**

@1 hour Tutorial Classwise #02 hours classwise and 02 hours batchwise

**NOTE:** T : Theory (1 hour), P : Practical (2 hour), Tut. : Tutorial (1 hour)

\*: Duration of each Period is 1 hour and Duration of each semester is 16 weeks

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## TRANSCRIPT

### Second Year Engineering - Semester-IV

Name of Student	Ms. JAIN DHRUVI LALIT ARCHANA										
Course	Computer Engineering										
Academic Year	May 2020										
Exam held in / Seat No. / Registration No.	May 2020/RWM4038/14814										

Sr. No	Subject Code	Subject	Teaching Scheme (Contact Hours)			Course Credits Assigned			Grade Earned	Credit Earned (C)	Grade Point (G)	C X G	
			T	P	Tut	T	P	Tut					
1	CSC401	Applied Mathematics-IV	4+1@	-	-	5	-	-	5	O	05	10	50
2	CSC402	Analysis of Algorithms	4	-	-	4	-	-	4	C	04	07	28
3	CSC403	Computer Organization and Architecture	4	-	-	4	-	-	4	O	04	10	40
4	CSC404	Computer Graphics	4	-	-	4	-	-	4	O	04	10	40
5	CSC405	Operating System	4	-	-	4	-	-	4	B	04	08	32
6	CSL401	Analysis of Algorithms Lab	-	2	-	-	1	-	1	B	01	08	08
7	CSL402	Computer Graphics Lab	-	2	-	-	1	-	1	O	01	10	10
8	CSL403	Processor Architecture Lab	-	2	-	-	1	-	1	O	01	10	10
9	CSL404	Operating System Lab	-	2	-	-	1	-	1	O	01	10	10
10	CSL405	Open Source Tech Lab	-	2+2*	-	-	2	-	2	O	02	10	20
Total			21	12	-	21	6	-	27	-	27	-	248

Remark: Successful

SGPI: 9.19

@1 hour Tutorial Classwise #02 hours classwise and 02 hours batchwise

NOTE: T : Theory (1 hour), P : Practical (2 hours), Tut. : Tutorial (1 hour)

\*: Duration of each Period is 1 hour and Duration of each semester is 16 weeks

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Location: Mumbai

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5 of 9



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TRANSCRIPT

**Third Year Engineering - Semester-V**

Name of Student	Ms. JAIN DHRUVI LALIT ARCHANA										
Course	Computer Engineering										
Academic Year	December 2020										
Exam held in / Seat No./Registration No.	December 2020/RWM5043/14814										

Sr. No	Subject Code	Subject	Teaching Scheme (PPW*)			Course Credits Assigned			Grade Earned	Credit Earned (C)	Grade Point (G)	C X G	
			T	P	Tut	T	P	Tut					
1	CSC501	Microprocessor	4	-	-	4	-	-	4	O	04	10	40
2	CSC502	Database Management System	4	-	-	4	-	-	4	O	04	10	40
3	CSC503	Computer Network	4	-	-	4	-	-	4	A	04	09	36
4	CSC504	Theory of Computer Science	4	-	-	4	-	-	4	O	04	10	40
5	CSDLO 5013	Advanced Algorithm (DLOC-3)	4	-	-	4	-	-	4	O	04	10	40
6	CPL501	Microprocessor Lab	-	2	-	-	1		1	O	01	10	10
7	CPL502	Computer Network Lab	-	2	-	-	1	-	1	O	01	10	10
8	CPL503	Database & Info. System Lab	-	2	-	-	1	-	1	O	01	10	10
9	CPL504	Web Design Lab	-	2+2*	-	-	2	-	2	O	02	10	20
10	CPL505	Business Communication & Ethics	-	2+2*	-	-	2	-	2	O	02	10	20
		<b>Total</b>	<b>20</b>	<b>14</b>	<b>-</b>	<b>20</b>	<b>7</b>	<b>-</b>	<b>27</b>	<b>-</b>	<b>27</b>	<b>-</b>	<b>266</b>

**Remark: Successful**

**SGPI: 9.85**

@1 hour Tutorial Classwise #02 hours classwise and 02 hours batchwise

**NOTE:** T : Theory (1 hour), P : Practical (2 hours), Tut. : Tutorial (1 hour)

\*: Duration of each Period is 1 hour and Duration of each semester is 16 weeks

Signature valid  
Digital Signature ID: 1A100  
Date: 2020-12-14 14:50:10:30  
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## TRANSCRIPT

### Third Year Engineering - Semester-VI

Name of Student	Ms. JAIN DHRUVI LALIT ARCHANA
Course	Computer Engineering
Academic Year	May 2021
Exam held in / Seat No./Registration No.	May 2021 / RWM6043/14814

Sr. No	Subject Code	Subject	Teaching Scheme (Contact Hours)			Course Credits Assigned			Grade Earned	Credit Earned (C)	Grade Point (G)	C X G	
			T	P	Tut	T	P	Tut					
1	CSC601	Software Engineering	4	-	-	4	-	-	4	O	04	10	40
2	CSC602	System Programming & Complier Construction	4	-	-	4	-	-	4	O	04	10	40
3	CSC603	Data Warehousing & Mining	4	-	-	4	-	-	4	O	04	10	40
4	CSC604	Cryptography & System Security	4	-	-	4	-	-	4	O	04	10	40
5	CSDLO 6021 (DLOC-1)	Machine Learning	4	-	-	4	-	-	4	B	04	08	32
6	CSL601	Software Engineering Lab	-	2	-	-	1	-	1	O	01	10	10
7	CSL602	System software Lab	-	2	-	-	1	-	1	O	01	10	10
8	CSL603	Data Warehousing & Mining Lab	-	2	-	-	1	-	1	O	01	10	10
9	CSL604	System Security Lab	-	2	-	-	1	-	1	O	01	10	10
10	CSP605	Mini-Project	-	4	-	-	2	-	2	O	02	10	20
		<b>Total</b>	<b>20</b>	<b>12</b>	<b>-</b>	<b>20</b>	<b>6</b>	<b>-</b>	<b>26</b>	--	<b>26</b>	<b>-</b>	<b>252</b>

**Remark: Successful**

**SGPI: 9.69**

@1 hour Tutorial Classwise #02 hours classwise and 02 hours batchwise

NOTE: T : Theory (1 hour), P : Practical (2 hour), Tut. : Tutorial (1 hour)

\*: Duration of each Period is 1 hour and Duration of each semester is 16 weeks

Signature valid  
Date: 10/05/2022  
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Parikh Anil

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**TRANSCRIPT**

**Fourth Year Engineering - Semester-VII**

Name of Student	Ms. JAIN DHRUVI LALIT ARCHANA									
Course	Computer Engineering									
Academic Year	November 2021									
Exam held in / Seat No.	November 2021/ 7277599									

Sr. No	Subject Code	Subject	Teaching Scheme (PPW*)			Course Credits Assigned				Grade Earned	Credit Earned (C)	Grade Point (G)	C X G
			T	P	Tut	T	P	Tut	Total				
1	CSC701	Digital Signal & Image Processing	4	-	-	4	-	-	4	O	04	10	40
2	CSC702	Mobile Communication & Computing	4	-	-	4	-	-	4	O	04	10	40
3	CSC703	Artificial Intelligence & Soft Computing	4	-	-	4	-	-	4	O	04	10	40
4	CSDLO7032	Dept. Level OPT-III Big Data Analytics	4	-	-	4	-	-	4	A	04	09	36
5	ILO7015	Inst. Level OPT-I Operation Research	3	-	-	3	-	-	3	O	03	10	30
6	CSL701	Digital Signal & Image Processing Lab	-	2	-	-	1	-	1	O	01	10	10
7	CSL702	Mobile App. Development. Tech. Lab	-	2	-	-	1	-	1	O	01	10	10
8	CSL703	Artificial Intelligence & Soft Computing Lab	-	2	-	-	1	-	1	B	01	08	08
9	CSL704	Computational Lab-I	-	2	-	-	1	-	1	A	01	09	09
10	CSP705	Major Project-I	-	6	-	-	3	-	3	O	03	10	30
<b>Total</b>			<b>19</b>	<b>14</b>	<b>-</b>	<b>19</b>	<b>7</b>	<b>-</b>	<b>26</b>	<b>-</b>	<b>26</b>	<b>-</b>	<b>253</b>

**Remark: Successful**

**SGPI: 9.73**

**NOTE: PPW :** Periods per week, T : Theory (1 hour), P : Practical (2 hour), Tut. : Tutorial (1 hour)  
**\*:** Duration of each Period is 1 hour and Duration of each semester is 16 weeks

Signature valid  
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### TRANSCRIPT

#### Fourth Year Engineering - Semester-VIII

Name of Student	Ms. JAIN DHRUVI LALIT ARCHANA						
Course	Computer Engineering						
Academic Year	May 2022						
Exam held in / Seat No.	May 2022/ 7280494						

Sr. No	Subject Code	Subject	Teaching Scheme (PPW*)			Course Credits Assigned			Grade Earned	Credit Earned (C)	Grade Point (G)	C X G	
			T	P	Tut	T	P	Tut					
1	CSC801	Human Machine Interaction	4	-	-	4	-	-	4	A	04	09	36
2	CSC802	Distributed Computing	4	-	-	4	-	-	4	A	04	09	36
3	CSDLO 8012	Natural Language Processing	4	-	-	4	-	-	4	A	04	09	36
4	ILO8021	Project Management	3	-	-	3	-	-	3	A	03	09	27
5	CSL801	Human Machine Interaction Lab	-	2	-	-	1		1	O	01	10	10
6	CSL802	Distributed Computing Lab		2			1		1	O	01	10	10
7	CSL803	Cloud Computing Lab	-	4	-	-	2		2	O	02	10	20
8	CSL804	Computational Lab-II	-	2	-		1		1	O	01	10	10
9	CSP805	Major Project-II	-	12			6	-	6	O	06	10	60
		<b>Total</b>	<b>15</b>	<b>22</b>	<b>-</b>	<b>15</b>	<b>11</b>	<b>-</b>	<b>26</b>	--	26	--	245

**Remark: Successful**

**CGPI : 9.04**

**SGPI: 9.42**

NOTE: PPW: Periods per week, T: Theory (1 hour), P: Practical (2 hour), Tut: Tutorial (1 hour)

\*: Duration of each Period is 1 hour and Duration of each semester is 16

Signature valid



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