



NANDHA COLLEGE OF TECHNOLOGY, ERODE-638052
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING
ACADEMIC YEAR 2022-2023 (EVEN)

IAE-1 ANALYSIS

COURSE CODE & NAME : EC8095 - VLSI Design

FACULTY NAME : K.POORNIMA,Prof/ECE

EACH QUESTION EXPECTED LEVEL OF ATTAINMENT : 60 %

TOTAL STRENGTH : 41

CLASS: III YEAR/ ECE

S. No	Register Number	Name	2 Marks					Q6(13)				Q7(13)				Q8(14)				TEST SCORE (50)
			Q1	Q2	Q3	Q4	Q5	a (i)	a (ii)	b (i)	b (ii)	a (i)	a (ii)	b (i)	b (ii)	a (i)	a (ii)	b (i)	b (ii)	
			CO1	CO1	CO1	CO2	CO2	CO1	-	CO1	-	CO2	-	CO2	-	CO1	-	CO2	-	
Marks			2	2	2	2	2	13	0	13	0	13	0	13	0	14	0	14	0	
Expected Marks to attainment			1.2	1.2	1.2	1.2	1.2	7.8	0.0	7.8	0.0	7.8	0.0	7.8	0.0	8.4	0.0	8.4	0.0	
1	732119106001	AAKASH K	2	2	2	2	2	12					12					10		44
2	732119106002	AJITHA BANU I	2	2	2	2	2	10				10				4				34
3	732119106003	ARJUN M	1	1	1	2	2			12			10		9					38
4	732119106005	BALU P	2	1.5	1.5	2	2	11					5					5		30
5	732119106007	CHANDRA SEKAR N	1	1	1	2	2			10			6					8		31
6	732119106008	DHANASEKARAN N	2	2	2	2	2	9				6			5					30
7	732119106009	DHARANI M	2	2	2	2	1	7				7			7					30
8	732119106010	DINESHWARAN S	2	2	1	1	2	10					6					7		31
9	732119106011	GOWTHAM V	2	2	1	1	2	12					5					5		30
10	732119106012	GOWTHAMI P	2	2	2	2	2	9				7			9					35
11	732119106013	HARI V	2	2	2	2	2			10		10						10		40
12	732119106014	JAYA CHANDRAN N	2	2	2	2	2	7				10			7					34
13	732119106015	JEEVADHARSHINI V	2	2	2	2	2	8				8			10					36
14	732119106016	KARTHIK B	0	0	2	2	2			12			10					5		33
15	732119106018	LAKSHMIDHARSHI	2	2	2	2	2	8				6			11					35
16	732119106019	LOGAJITH N	1	2	1	2	1			9		12						9		37
17	732119106020	MANIKANDAN P	1	1	2	2	2	12				12			12					44
18	732119106021	MANJU V	1	1	2	2	2			7			7					6		28
19	732119106022	MOHAMMED ARSA	2	2	2	2	2	12				6			4					32
20	732119106023	MONISHAN J	1	2	1	1	2	8				8			7					30
21	732119106024	NANDHINI A	1	1	1	1	2	12					7					8		33



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			Q1	Q2	Q3	Q4	Q5	a (i)	a (ii)	b (i)	b (ii)	a (i)	a (ii)	b (i)	b (ii)	a (i)	a (ii)	b (i)	b (ii)	
			CO1	CO1	CO1	CO2	CO2	CO1	-	CO1	-	CO2	-	CO2	-	CO1	-	CO2	-	
Marks			2	2	2	2	2	13	0	13	0	13	0	13	0	14	0	14	0	
Expected Marks to attainment			1.2	1.2	1.2	1.2	1.2	7.8	0.0	7.8	0.0	7.8	0.0	7.8	0.0	8.4	0.0	8.4	0.0	
22	732119106025	NANDHINI V	2	2	2	2	2	12						11				6	39	
23	732119106026	OBULI SARAVANAN	2	1	2	2	2	7				3			12				31	
24	732119106027	PARTHIBAN S	2	2	2	2	2	10				6			1				27	
25	732119106028	PAVISH KUMAR S	2	1	1	2	2			0			0				4		12	
26	732119106029	ROJA M	2	2	2	2	2	13					6				3		32	
27	732119106030	SABARI M	2	0	2	2	0	0				8			6				20	
28	732119106031	SANTHOSHKUMAR	2	2	2	2	2	11				7			5				33	
29	732119106032	SANTHOSH KUMAR	0	1	2	2	2	10				4			12				33	
30	732119106034	SHASTHA CHANDR	2	2	2	2	2	9				7			9				35	
31	732119106035	SIVAHARISH K	2	2	2	2	2	6				9			6				31	
32	732119106037	SUDHAKAR S	0	1	1	1	0	12					11				12		38	
33	732119106038	SWATHI P	2	2	2	2	2	8				13			9				40	
34	732119106039	TAMILARASAN P S	1	1	1	2	2			4				9			8		28	
35	732119106040	VAISHNAVI P	2	2	2	2	2	12				8			0				30	
36	732119106041	VENKADANATHAN	2	2	2	2	2	12				6			5				33	
37	732119106042	VIGNESH A	1	1	1	2	2	11					0				12		30	
38	732119106043	VIGNESHWARA PER	2	2	2	2	2	6				10			12				38	
39	732119106044	YUVANKUMAR S Y	1	1	1	2	2			10			10				7		34	
40	732119106701	ABINAYA R	2	2	2	2	2	0				11			13				34	
41	732119106702	KARTHIKEYAN V	1	0	1	1	0			9			10			10			32	

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NANDHA COLLEGE OF TECHNOLOGY, ERODE-638052
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING
ACADEMIC YEAR 2022-2023 (EVEN)

IAE-1 ANALYSIS

COURSE CODE & NAME : EC8095 - VLSI Design

FACULTY NAME : K.POORNIMA,Prof/ECE

EACH QUESTION EXPECTED LEVEL OF ATTAINMENT : 60 %

TOTAL STRENGTH : 41

CLASS: III YEAR/ ECE

S. No	Register Number	Name	2 Marks					Q6(13)				Q7(13)				Q8(14)				TEST SCORE (50)		
			Q1	Q2	Q3	Q4	Q5	a (i)	a (ii)	b (i)	b (ii)	a (i)	a (ii)	b (i)	b (ii)	a (i)	a (ii)	b (i)	b (ii)			
			CO1	CO1	CO1	CO2	CO2	CO1	-	CO1	-	CO2	-	CO2	-	CO1	-	CO2	-			
Marks			2	2	2	2	2	13	0	13	0	13	0	13	0	14	0	14	0			
Expected Marks to attainment			1.2	1.2	1.2	1.2	1.2	7.8	0.0	7.8	0.0	7.8	0.0	7.8	0.0	8.4	0.0	8.4	0.0			
Range of attainment			> 60			50 to 62					<50											
Mapping with CO			CO1	CO1	CO1	CO2	CO2	CO1	-	CO1	-	CO2	-	CO2	-	CO1	-	CO2	-			
Attainment level of each CO			3	3	3	3	3	3	0	3	0	2	0	1	0	1	0	1	0			
Attainment Level of COs in IAE 1			CO1	CO2	CO3	CO4	CO5															
			2.67	2.00	0.00	0.00	0.00															
Mapping with PO & PSO :			P01, P02, P03, P04,P05,P06,P011,P012																			
Faculty I/C															HoD						Principal	

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NANDHA COLLEGE OF TECHNOLOGY, PERUNDURAI, ERODE-638052

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

ACADEMIC YEAR 2022-2023 (EVEN)

END SEMESTER ANALYSIS

COURSE CODE & NAME : EC8095 - VLSI Design

FACULTY NAME: K.POORNIMA,Prof/ECE

Overall Expected Level of Attainment : 60 %

Class

TOTAL STRENGTH : 41

III YEAR/ ECE

S.No	Reg No	Name	Grade (O=10, A+=9, A=8, B+=7, B=6, U=0, RA=0)
1	732119106001	AAKASH K	A
2	732119106002	AJITHA BANU I	B+
3	732119106003	ARJUN M	B
4	732119106005	BALU P	B+
5	732119106007	CHANDRA SEKAR M	B+
6	732119106008	DHANASEKARAN N	B
7	732119106009	DHARANI M	U
8	732119106010	DINESHWARAN S	U
9	732119106011	GOWTHAM V	U
10	732119106012	GOWTHAMI P	B
11	732119106013	HARI V	B+
12	732119106014	JAYA CHANDRAN M S	B+
13	732119106015	JEEVADHARSHINI V	A+
14	732119106016	KARTHIK B	B+
15	732119106018	LAKSHMIDHARSHINI P	B+
16	732119106019	LOGAJITH N	B
17	732119106020	MANIKANDAN P	B+
18	732119106021	MANJU V	B
19	732119106022	MOHAMMED ARSATH A	U
20	732119106023	MONISHAN J	B+

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30	21	732119106024	NANDHINI A	B+
31	22	732119106025	NANDHINI V	B
32	23	732119106026	OBULI SARAVANAN D	B
33	24	732119106027	PARTHIBAN S	U
34	25	732119106028	PAVISH KUMAR S	U
35	26	732119106029	ROJA M	A
36	27	732119106030	SABARI M	U
37	28	732119106031	SANTHOSHKUMAR M	B
38	29	732119106032	SANTHOSH KUMAR V	B
39	30	732119106034	SHASTHA CHANDRU S	B
40	31	732119106035	SIVAHARISH K	B
41	32	732119106037	SUDHAKAR S	B
42	33	732119106038	SWATHI P	B+
43	34	732119106039	TAMILARASAN P S	U
44	35	732119106040	VAISHNAVI P	A
45	36	732119106041	VENKADANATHAN K	B
46	37	732119106042	VIGNESH A	B
47	38	732119106043	VIGNESHWARA PERUMAL G	A

39	732119106044	YUVANKUMAR S Y	A
40	732119106701	ABINAYA R	B
41	732119106702	KARTHIKEYAN V	B

No of Students Scored upto Expected Level		33
% of Scored Above the Attainment Level		80

Course Outcome Attainment Level Indicator

Scale	3	2	1
Range of attainment	>62	60 to 62	<50
Mapping with CO	CO1, CO2,CO3, CO4 and CO5		
Attainment level of all COs	3		
Mapping with PO	PO1, PO2, PO3, PO4,PO5,PO6,PO11,PO12		

Faculty I/C	HoD	Principal
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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

ACADEMIC YEAR 2022-2023 (EVEN)

COURSE END SURVEY

COURSE NAME & CODE : EC8095 - VLSI Design

FACULTY NAME : K.POORNIMA,Prof/ECE

CO1	Realize the concepts of digital building blocks using MOS transistor.						
CO2	Design combinational MOS circuits and power strategies.						
CO3	Design and construct Sequential Circuits and Timing systems.						
CO4	Analysis arithmetic building blocks and memory subsystems.						
CO5	Apply and implement FPGA design flow and testing.						
						Class :	III YEAR/ ECE
S.No	Reg. No.	Name	CO1	CO2	CO3	CO4	CO5
1	732119106001	AAKASH K	3	2	3	3	3
2	732119106002	AJITHA BANU I	3	3	3	3	3
3	732119106003	ARJUN M	3	3	3	2	3
4	732119106005	BALU P	3	1	3	3	2
5	732119106007	CHANDRA SEKAR M	3	3	3	3	3
6	732119106008	DHANASEKARAN N	3	3	3	3	3
7	732119106009	DHARANI M	3	3	3	3	2
8	732119106010	DINESHWARAN S	3	3	3	3	3
9	732119106011	GOWTHAM V	3	3	3	2	3
10	732119106012	GOWTHAMI P	3	3	3	2	3
11	732119106013	HARI V	3	2	3	2	3
12	732119106014	JAYA CHANDRAN M S	3	3	3	2	3

13	732119106015	JEEVADHARSHINI V	3	2	2	2	2
14	732119106016	KARTHIK B	3	2	3	2	3
15	732119106018	LAKSHMIDHARSHINI P	2	2	2	2	2
16	732119106019	LOGAJITH N	3	3	3	2	3
17	732119106020	MANIKANDAN P	1	1	1	2	1
18	732119106021	MANJU V	3	2	3	2	3
19	732119106022	MOHAMMED ARSATH A	3	3	3	2	3
20	732119106023	MONISHAN J	2	2	2	3	2
21	732119106024	NANDHINI A	3	3	3	2	3
22	732119106025	NANDHINI V	3	3	3	3	3
23	732119106026	OBULI SARAVANAN D	3	3	3	3	3
24	732119106027	PARTHIBAN S	2	2	2	3	2
25	732119106028	PAVISH KUMAR S	1	3	3	3	3
26	732119106029	ROJA M	2	2	3	3	2
27	732119106030	SABARI M	3	3	3	3	3
28	732119106031	SANTHOSHKUMAR M	3	3	3	2	3
29	732119106032	SANTHOSH KUMAR V	2	3	2	2	2
30	732119106034	SHASTHA CHANDRU S	3	3	3	3	2
31	732119106035	SIVAHARISH K	3	3	3	3	3
32	732119106037	SUDHAKAR S	2	3	3	3	3
33	732119106038	SWATHI P	2	3	2	3	2
34	732119106039	TAMILARASAN P S	3	3	2	3	3

35	732119106040	VAISHNAVI P	3	3	2	2	3
36	732119106041	VENKADANATHAN K	1	3	2	3	2
37	732119106042	VIGNESH A	3	3	2	3	3
38	732119106043	VIGNESHWARA PERUMAL	3	3	2	3	3
39	732119106044	YUVANKUMAR S Y	3	3	2	3	2
40	732119106701	ABINAYA R	3	3	3	3	3
41	732119106702	KARTHIKEYAN V	2	3	1	2	3
AVERAGE			2.66	2.68	2.61	2.59	2.66

Faculty I/C			HoD			Principal	
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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING
ACADEMIC YEAR 2022-2023 (EVEN)
ATTAINMENT OF COURSE OUTCOMES

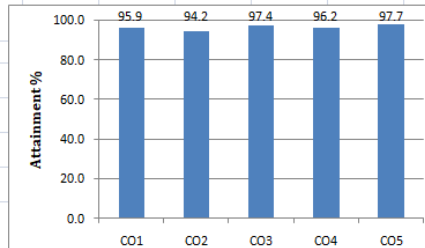
COURSE CODE & NAME: **EC8095 - VLSI Design**
 FACULTY NAME: **K.POORNIMA,Prof/ECE**

Class: **III YEAR/ ECE**

DIRECT ATTAINMENT						
ATTAINMENT LEVEL IN 3 SCALE						
ASSESSMENT TOOLS	CO1	CO2	CO3	CO4	CO5	
IAE 1	2.67	2.00				
IAE 2		2.60	3.00			
IAE 3				2.80	3.00	
AVERAGE OF IAE	2.67	2.30	3.00	2.80	3.00	0.55
END SEMESTER	3	3	3	3	3	2.40
80% of END SEM +20 % of IAE	2.93	2.86	3.00	2.96	3.00	
Overall CO Direct Attainment	2.95					

OVERALL FINAL CO ATTAINMENT (80% of Direct +20% of Indirect)					
ATTAINMENT LEVEL IN 3 SCALE					
CO1	CO2	CO3	CO4	CO5	
2.88	2.82	2.92	2.89	2.93	
2.89					
ATTAINMENT LEVEL IN %					
CO1	CO2	CO3	CO4	CO5	
95.9	94.2	97.4	96.2	97.7	

INDIRECT ATTAINMENT						
ATTAINMENT LEVEL IN 3 SCALE						
ASSESSMENT TOOLS	CO1	CO2	CO3	CO4	CO5	
Course End Survey	2.66	2.68	2.61	2.59	2.66	
Overall CO Indirect Attainment	2.64					



Mapping with PO & PSOs: **PO1, PO2, PO3, PO4, PO5, PO6, PO11, PO12**

CO-PO-PSO Attrication Matrix

CO No	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
1	3	3	2	3	1	3	-	-	-	-	1	1	2	1	2
2	3	3	3	3	2	3	-	-	-	-	3	3	3	3	1
3	3	3	2	3	3	1	-	-	-	-	2	3	2	3	3
4	3	3	3	3	3	3	-	-	-	-	3	3	3	3	1
5	3	2	3	2	1	2	-	-	-	-	1	3	2	3	3
AVERAGE	3.0	2.8	2.6	2.8	2.0	2.4	0	0	0	0	2.0	2.6	2.4	2.6	2.0

PO & PSO Attainment %

CO Attainment	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
2.88	2.88	2.88	1.92	2.88	0.96	2.88	0.00	0.00	0.00	0.00	0.96	0.96	1.92	0.96	1.92
2.82	2.82	2.82	2.82	2.82	1.88	2.82	0.00	0.00	0.00	0.00	2.82	2.82	2.82	2.82	0.94
2.92	2.92	2.92	1.95	2.92	2.92	0.97	0.00	0.00	0.00	0.00	1.95	2.92	1.95	2.92	2.92
2.89	2.89	2.89	2.89	2.89	2.89	2.89	0.00	0.00	0.00	0.00	2.89	2.89	2.89	2.89	0.96
2.93	2.93	1.95	2.93	1.95	0.98	1.95	0.00	0.00	0.00	0.00	0.98	2.93	1.95	2.93	2.93
Overall PO/PSO ATTAINMENT OUT OF 3	2.9	2.7	2.5	2.7	1.9	2.3	0.0	0.0	0.0	0.0	1.9	2.5	2.3	2.5	1.9
Overall PO/PSO ATTAINMENT	96.3	96.2	96.2	96.2	96.3	96.0	0.0	0.0	0.0	0.0	95.9	96.3	96.1	96.3	96.8

COs Attainment of all Courses for the Batch 2019-2023

S.N O	Course	Course Code	Course Name	Direct Attainment		Overall Direct Attainment	Indirect Attainment	Target Fixed	Over all CO Attainment	Attained or Not Attained
				IAE	End Sem					
1	C101	HS8151	Communicative English	0.57	0.80	1.37	2.55	1.86	1.60	Not Attained
2	C102	MA8151	Engineering Mathematics - I	0.58	1.60	2.18	2.55	1.92	2.26	Attained
3	C103	PH8151	Engineering Physics	0.55	0.80	1.35	2.82	1.86	1.64	Not Attained
4	C104	CY8151	Engineering Chemistry	0.51	2.40	2.91	2.55	1.92	2.84	Attained
5	C105	GE8151	Problem Solving and Python Programming	0.53	0.80	1.33	2.63	1.86	1.59	Not Attained
6	C106	GE8152	Engineering Graphics	0.57	2.40	2.97	2.84	1.92	2.94	Attained
7	C107	GE8161	Problem Solving and Python Programming Laboratory	0.60	2.40	3.00	2.63	2.10	2.93	Attained
8	C108	BS8161	Physics and Chemistry Laboratory	0.60	2.40	3.00	2.76	2.10	2.95	Attained
9	C109	HS8251	Technical English	0.38	2.00	2.38	2.55	1.92	2.10	Attained
10	C110	MA8251	Engineering Mathematics - II	0.59	2.40	2.99	2.51	1.92	2.90	Attained
11	C111	PH8253	Physics for Electronics Engineering	0.37	1.60	1.97	2.79	1.92	2.13	Attained
12	C112	BE8254	Basic Electrical and Instrumentation Engineering	0.35	2.40	2.75	2.62	1.86	2.08	Attained
13	C113	EC8251	Circuit Analysis	0.37	1.60	1.97	2.61	1.86	2.10	Attained
14	C114	EC8252	Electronic Devices	0.48	2.40	2.88	2.56	2.10	2.81	Attained
15	C115	EC8261	Circuits and Devices Laboratory	0.60	2.40	3.00	2.85	2.25	2.97	Attained
16	C116	GE8261	Engineering Practices Laboratory	0.60	2.40	3.00	2.88	2.40	2.98	Attained
17	C201	MA8352	Linear Algebra and Partial Differential Equations	0.60	2.40	3.00	2.66	1.80	2.93	Attained
18	C202	EC8393	Fundamentals of Data Structures In C	0.60	2.40	3.00	2.63	1.86	2.92	Attained
19	C203	EC8351	Electronic Circuits- 1	0.57	2.40	2.97	2.73	1.80	2.92	Attained
20	C204	EC8352	Signals and Systems	0.58	2.40	2.98	2.71	1.86	2.93	Attained
21	C205	EC8392	Digital Electronics	0.60	2.40	3.00	2.63	1.80	2.92	Attained
22	C206	EC8391	Control Systems Engineering	0.59	2.40	2.99	2.69	2.10	2.93	Attained
23	C207	EC8381	Fundamentals of Data Structures in C Laboratory	0.60	2.40	3.00	2.63	2.40	2.93	Attained
24	C208	EC8361	Analog and Digital Circuits Laboratory	0.60	2.40	3.00	2.63	2.46	2.93	Attained
25	C209	HS8381	Interpersonal Skills/Listening & Speaking	0.60	2.40	3.00	2.60	2.40	2.92	Attained
26	C210	MA8451	Probability and Random Processes	0.50	2.40	2.90	2.62	2.10	2.84	Attained
27	C211	EC8452	Electronic Circuits II	0.46	2.40	2.86	2.54	2.10	2.80	Attained
28	C212	EC8491	Communication Theory	0.46	2.40	2.86	2.62	2.16	2.81	Attained
29	C213	EC8451	Electromagnetic Fields	0.40	2.40	2.80	2.56	2.10	2.75	Attained
30	C214	EC8453	Linear Integrated Circuits	0.50	2.40	2.90	2.49	2.10	2.82	Attained

31	C215	GE8291	Environmental Science and Engineering	0.37	2.40	2.77	2.57	2.40	2.73	Attained
32	C216	EC8461	Circuits Design and Simulation Laboratory	0.60	2.40	3.00	2.61	2.55	2.92	Attained
33	C217	EC8462	Linear Integrated Circuits Laboratory	0.60	2.40	3.00	2.62	2.46	2.92	Attained
34	C301	EC8501	Digital Communication	0.49	2.40	2.89	2.57	2.16	2.83	Attained
35	C302	EC8553	Discrete-Time Signal Processing	0.50	2.40	2.90	2.66	2.10	2.86	Attained
36	C303	EC8552	Computer Architecture and Organization	0.53	2.40	2.93	2.68	2.10	2.87	Attained
37	C304	EC8551	Communication Networks	0.50	2.40	2.90	2.56	2.10	2.84	Attained
38	C305	EC8073	Medical Electronics	0.45	2.40	2.85	2.65	2.16	2.83	Attained
39	C306	ORO551	Renewable Energy Sources	0.53	2.40	2.93	2.73	2.04	2.89	Attained
40	C307	EC8562	Digital Signal Processing Laboratory	0.60	2.40	3.00	2.70	2.10	2.94	Attained
41	C308	EC8561	Communication Systems Laboratory	0.60	2.40	3.00	2.69	2.40	2.94	Attained
42	C309	EC8563	Communication Networks Laboratory	0.60	2.40	3.00	2.60	2.40	2.92	Attained
43	C310	EC8691	Microprocessors and Microcontrollers	0.60	2.24	2.84	2.62	1.80	2.89	Attained
44	C311	EC8095	VLSI Design	0.55	2.40	2.95	2.64	1.80	2.89	Attained
45	C312	EC8652	Wireless Communication	0.51	1.60	2.11	2.70	1.86	2.22	Attained

46	C313	MG8591	Principles of Management	0.45	2.40	2.85	2.60	2.10	2.80	Attained
47	C314	EC8651	Transmission Lines and RF Systems	0.52	0.80	1.32	2.63	1.86	1.58	Not Attained
48	C315	SB8040	Naan Muthalvan	0.53	1.60	2.13	2.63	1.92	2.23	Attained
49	C316	EC8681	Microprocessors and Microcontrollers Laboratory	0.60	2.40	3.00	2.64	2.40	2.93	Attained
50	C317	EC8661	VLSI Design Laboratory	0.60	2.40	3.00	2.58	2.55	2.92	Attained
51	C318	EC8611	Technical Seminar	0.60	2.40	3.00	2.64	2.52	2.93	Attained
52	C319	HS8581	Professional Communication	0.40	2.40	2.80	2.53	2.58	2.91	Attained
53	C401	EC8701	Antennas and Microwave Engineering	0.46	0.80	1.26	2.66	1.86	1.54	Not Attained
54	C402	EC8751	Optical Communication	0.42	2.40	2.82	2.71	2.10	2.79	Attained
55	C403	EC8791	Embedded and Real Time Systems	0.40	2.40	2.80	2.70	1.98	2.78	Attained
56	C404	EC8702	Ad hoc and Wireless Sensor Networks	0.49	2.40	2.89	2.74	1.80	2.86	Attained
57	C405	OME754	Industrial Safety	0.46	2.40	2.86	2.56	1.98	2.80	Attained
58	C406	SB8021	Naan Muthalvan	0.60	2.40	3.00	2.67	2.40	2.93	Attained
59	C407	EC8711	Embedded Laboratory	0.60	2.40	3.00	2.70	2.40	2.94	Attained
60	C408	EC8761	Advanced Communication Laboratory	0.60	2.40	3.00	2.66	2.46	2.93	Attained
61	C409	EC8093	Digital Image Processing	0.55	2.40	2.95	2.62	1.80	2.88	Attained
62	C410	EC8094	Satellite Communication	0.54	2.40	2.94	2.64	1.80	2.88	Attained
63	C411	EC8811	Project Work	0.60	2.40	3.00	2.62	2.40	2.92	Attained