

**School of Engineering**  
**Electronics and Communication Engineering**

Date: 26/ 08 / 2024

**Program Outcomes and Program Specific Outcomes (2020-24)**

**PO and PSO attainment value using Direct Assessment tools.**

Course	Course Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C110	Mathematics-I	1.12	1.12										1.12		
C111	Applied Physics	0.9	0.9	1	0.8								0.9		
C112	Programming for Problem Solving	0.9	0.9	1	0.8								0.9		
C113	Engineering Graphics	2.20	2.20	2.20			2.20	2.20			2.20		2.20	2.20	
C114	Applied Physics Lab	2.9	2.89		2.89								2.89		
C115	Programming for Problem Solving Lab	2.87	2.89		2.89								2.89		
C120	Mathematics-II	1.04	1.04										1.04		
C121	Chemistry	2.4		2.4				2.4							
C122	Basic Electrical Engineering	1.2	1.2	1.2	1.2								1.2		
C123	Engineering Workshop	2.9								1.93	1.93				

C124	English							3	3	3	3		3		
C125	Engineering Chemistry Lab	2.94	2.94	2.94	2.94			2.94							
C126	English Language and Communication Skills Lab							2.93	2.93	2.93	2.93	2.93			
C127	Basic Electrical Engineering Lab	2.93	2.93	2.93	2.93	2.92	2.93	2.94					2.93		
C210	Electronic Devices and Circuits	3	2	1.4	1.4								1	1.4	1
C211	Network Analysis and Transmission Lines	3	2.6	2	2	2							2	2	2
C212	Digital System Design	2.2	2	2										2	2
C213	Signals and Systems	2.3	2.3	2.3	1.1									2.26	2.26
C214	Probability Theory and Stochastic Processes	1.1	1.1	1.1	1.2									1.1	1.1
C215	Electronic Devices and Circuits Lab	2.68	2.68	2.68	2.68										
C216	Digital System Design Lab	2	2	1.75										2	2
C217	Basic Simulation Lab	2.57	2.57	2.57	2.57	2.57							2.57	2.57	2.57
C220	Laplace Transforms, Numerical Methods & Complex Variables	1.12	1.12										1.12		
C221	Electromagnetic Fields and Waves	3	2.8	2	0.2									1	1
C222	Analog and Digital Communications	2.4	2.4	2.4	2.4	2.4								2.4	2.4
C223	Linear IC Applications	1.2	1.2	1.2	1.2	1.2	1.2		1.2		1.2	1.2	1.2	1.2	1.2
C224	Electronic Circuit Analysis	1.1	1.1	1.1	1.2									1.1	1.1
C225	Analog and Digital Communications Lab	2.91	2.91	2.91	2.91	2.91				2.91	2.91		2.91	2.91	2.91
C226	IC Applications Lab	2.91	2.91	2.91	2.91	2.91				2.91	2.91		2.91	2.91	2.91

C227	Electronic Circuit Analysis Lab	2.96	2.96	2.96	2.37									2.96	2.96
C310	Microprocessors and Microcontrollers	2.2	1.4	1.6	1.8		1		1	2.2	1.4	2.6	2.2	3	1.4
C311	Data Communications and Networks	2.90	2.90	2.90	2.90	2.90				2.90			2.90	2.90	2.40
C312	Control Systems	2.4	2.4	2.4	2.4	2.4								2.4	2.4
C313	Business Economics & Financial Analysis	2.4	2.4	2.4	2.4	2.4								2.4	2.4
C316	Electronic Measurements and Instrumentation (PE-I)	3	3	3	3	3								3	3
C317	Microprocessors and Microcontrollers Lab	2.9	1.94	1.94	0.97				0.97	1.94	1.94			1.94	1.94
C318	Data Communications and Networks Lab	2.9	2.9	2.9	2.9	2.9				2.90			2.9	2.9	2.9
C319	Advanced Communication Skills Lab	2.9	2.9	2.9	2.9	2.9				2.90			2.9	2.9	2.9
C320	Antennas and Propagation	2.2	2.2	2.2	2.2	2.2						2.2	2.2	2.2	2.2
C321	Digital Signal Processing	2.09	2.09	2.09	2.09	2.09								2.09	2.09
C322	VLSI Design	2.4	2.4	2.4	2.4									2.4	2.4
C325	Embedded System Design	2.89	2.89	2.89	2.89	2.89								2.89	2.89
C320	Fundamentals of Management for Engineering	2.9	2.9	2.9	2.9	2.9				2.90			2.9	2.9	2.9
C326	Digital Signal Processing Lab	2.9	2.9	2.9	2.9	2.9				2.90			2.9	2.9	2.9
C327	e-CAD Lab	2.54	2.54	2.54	2.54								2.54	2.54	2.54
C328	Scripting Languages Lab	2.9	2.9	2.9	2.9	2.9				2.90			2.9	2.9	2.9
C410	Microwave and Optical Communications	2.2	2.2	2.2	2.2	2.2						2.2	2.2	2.2	2.2
C413	Digital Image Processing	2.30	2.30	2.30	3.08	2.64				2.42	1.98	2.20	2.86	2.86	2.30

C414	Biomedical Instrumentation	2.80	2.80	2.80	2.61	2.33			2.80	2.10	2.10	2.33	2.80	2.80	2.80
C410	Python Programming	2.4	2.4	2.4	2.4	2.4								2.4	2.4
C417	Professional Practice, Law & Ethics	2.4	2.4	2.4	2.4	2.4								2.4	2.4
C418	Microwave and Optical Communications Lab	2.90	2.90	2.90	2.90	2.90				2.90			2.90	2.90	2.90
C419	Industrial Oriented Mini Project/Summer Internship	2.91	2.27	1.94	1.94	1.94	1.94	1.94	1.94	2.91			1.94	2.27	2.27
C41A	Seminar	2.91	2.27	1.94	1.94	1.94	1.94	1.94	1.94	2.91			1.94	2.27	2.27
C41B	Project Stage-I	2.91	2.27	1.94	1.94	1.94	1.94	1.94	1.94	2.91			1.94	2.27	2.27
C422	Wireless Sensor Networks	2.77	2.40	2.77	2.59	1.85	1.85	1.85			1.62		1.85	2.22	2.77
C425	Low Power VLSI Design	2.84	2.84	2.84	2.27	2.13				1.58	1.58		2.08	2.27	2.84
C420	Data Base Management Systems	2.71	1.35	2.32	2.71										
C426	Project Stage-II	2.91	2.27	1.94	1.94	1.94	1.94	1.94	1.94	2.91			1.94	2.27	2.27
Average		2.42	2.27	2.28	2.24	2.45	1.88	2.37	1.97	2.66	2.13	2.24	2.21	2.36	2.32

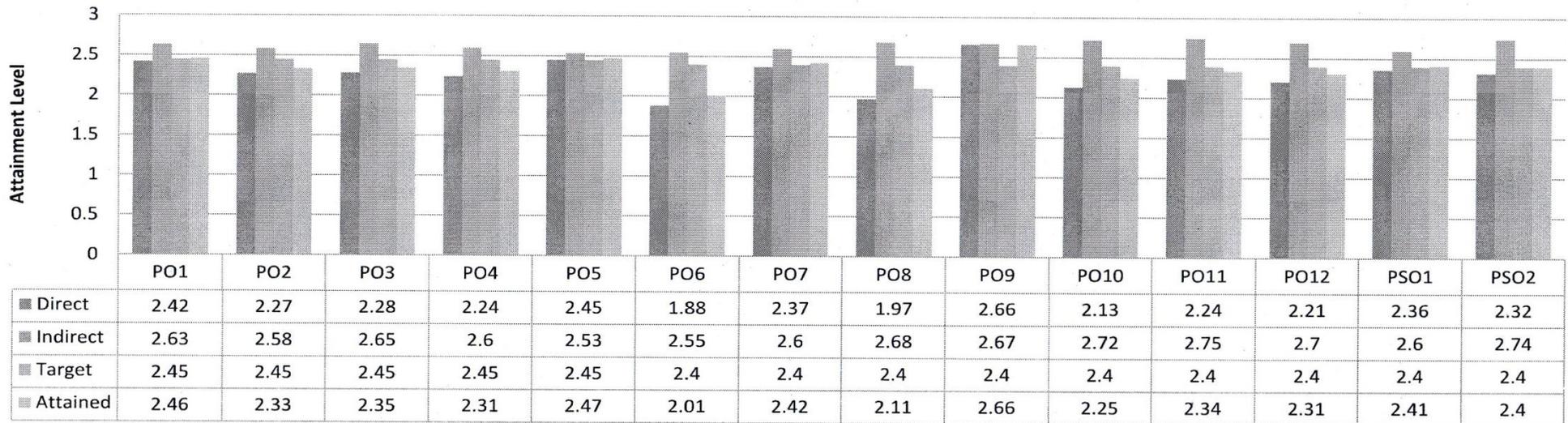
**POs and PSOs attainment value using indirect assessment tools**

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
<b>Program Exit Survey</b>	2.4	2.5	2.8	2.8	2.6	2.4	2.4	2.4	2.68	2.56	2.8	2.7	2.5	2.75
<b>Alumni feedback</b>	2.76	2.8	2.8	2.7	2.5	2.6	2.8	2.8	2.6	2.7	2.8	2.8	2.6	2.8
<b>Parents Feedback</b>	2.8	2.68	2.6	2.5	2.6	2.8	2.8	2.7	2.6	2.8	2.8	2.6	2.5	2.6
<b>Employers Feedback</b>	2.56	2.35	2.4	2.4	2.4	2.4	2.4	2.8	2.8	2.8	2.6	2.7	2.8	2.8
<b>Average</b>	2.63	2.58	2.65	2.60	2.53	2.55	2.60	2.68	2.67	2.72	2.75	2.70	2.60	2.74

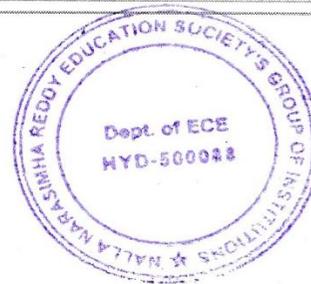
**POs and PSOs Overall Attainment for the Batch 2020-2024**

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
<b>Direct Attainment</b>	2.42	2.27	2.28	2.24	2.45	1.88	2.37	1.97	2.66	2.13	2.24	2.21	2.36	2.32
<b>Indirect Attainment</b>	2.63	2.58	2.65	2.60	2.53	2.55	2.60	2.68	2.67	2.72	2.75	2.70	2.60	2.74
<b>Target</b>	2.45	2.45	2.45	2.45	2.45	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40
<b>PO &amp; PSO Attainment</b>	2.46	2.33	2.35	2.31	2.47	2.01	2.42	2.11	2.66	2.25	2.34	2.31	2.41	2.40

**PO/PSO Attainment**



*M. P. ...*  
Program Coordinator



*[Signature]* 26/08/24  
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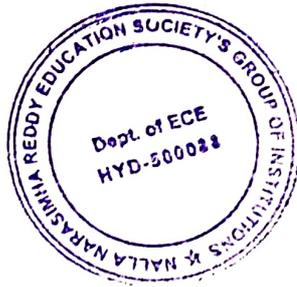
**Course Attainments for the Batch 2020-2024**

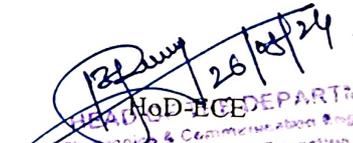
Course		Internal	External	Direct Attainment	Course End Survey	Indirect Attainment	Overall Attainment
Course Code	Course Name						
C110	Mathematics-I	2.8	0	1.12	2.1	2.1	1.32
C111	Applied Physics	2.30		0.92	2.5	2.5	1.24
C112	Programming for Problem Solving	2.3	1	1.5	2.3	2.3	1.68
C113	Engineering Graphics	2.8	2	2.32	2.5	2.5	2.36
C114	Applied Physics Lab	2.75	3	2.9	2.6	2.6	2.84
C115	Programming for Problem Solving Lab	2.68	3	2.87	2.6	2.6	2.82
C120	Mathematics-II	2.59		1.03	2.4	2.4	1.31
C121	Chemistry	2.89	2	2.35	2.8	2.8	2.44
C122	Basic Electrical Engineering	3		1.2	2.6	2.6	1.48
C123	Engineering Workshop	2.7	3	2.88	2.3	2.3	2.76
C124	English	3	3	3	2.4	2.4	2.88
C125	Engineering Chemistry Lab	2.84	3	2.93	2.4	2.4	2.83
C126	English Language and Communication Skills Lab	2.82	3	2.93	2.5	2.5	2.84
C127	Basic Electrical Engineering Lab	2.8	3	2.92	2.8	2.8	2.90
C210	Electronic Devices and Circuits	2.88	0	1.15	2.6	2.6	1.44
C211	Network Analysis and Transmission Lines	2.16	0	0.86	2.2	2.2	1.13
C212	Digital System Design	2.35	0	0.94	2.1	2.1	1.17
C213	Signals and Systems	2.63	2	2.25	2.6	2.6	2.32

C214	Probability Theory and Stochastic Processes	2.86	0	1.14	2.3	2.3	1.37
C215	Electronic Devices and Circuits Lab	2.13	3	2.65	2.6	2.6	2.64
C216	Digital System Design Lab	2.79	3	2.91	2.4	2.4	2.81
C217	Basic Simulation Lab	2.52	3	2.8	2.8	2.8	2.81
C220	Laplace Transforms, Numerical Methods & Complex Variables	2.59		1.03	2.8	2.8	1.39
C221	Electromagnetic Fields and Waves	1.88	0	0.75	2.6	2.6	1.12
C222	Analog and Digital Communications	3	1	1.8	2.4	2.4	1.92
C223	Linear IC Applications	1.88	0	0.75	2.6	2.6	1.12
C224	Electronic Circuit Analysis	2.86	0	1.14	2.2	2.2	1.36
C225	Analog and Digital Communications Lab	3	3	3	2.5	2.5	2.90
C226	IC Applications Lab	3	3	3	2.6	2.6	2.92
C227	Electronic Circuit Analysis Lab	3	3	3	2.5	2.5	2.90
C310	Microprocessors and Microcontrollers	2.64	0	1.05	2.1	2.1	1.26
C311	Data Communications and Networks	2.64	0	1.05	2.1	2.1	1.26
C312	Control Systems	3	1	1.8	2.8	2.8	2
C313	Business Economics & Financial Analysis	2.64	3	2.85	2.4	2.4	2.76
C316	Electronic Measurements and Instrumentation (PE-I)	3	2	2.4	2.6	2.6	2.44
C317	Microprocessors and Microcontrollers Lab	3	3	3	2.3	2.3	2.86
C318	Data Communications and Networks Lab	3	3	3	2.5	2.5	2.90
C319	Advanced Communication Skills Lab	2.64	3	2.85	2.6	2.6	2.80
C320	Antennas and Propagation	3	1	1.8	2.5	2.5	1.94
C321	Digital Signal Processing	2.22	2	2.08	2.1	2.1	2.09
C322	VLSI Design	3	2	2.4	2.6	2.6	2.44
C325	Embedded System Design	2.72	0	1.08	2.8	2.8	1.42
C320	Fundamentals of Management for Engineering	2.64	3	2.85	2.5	2.5	2.78
C326	Digital Signal Processing Lab	2.64	3	2.85	2.6	2.6	2.80
C327	e-CAD Lab	2.33	3	2.73	2.5	2.5	2.69
C328	Scripting Languages Lab	2.64	3	2.85	2.1	2.1	2.70
C410	Microwave and Optical Communications	3	1	1.8	2.6	2.6	1.96

C413	Digital Image Processing	3	3	3	2.8	2.8	2.96
C414	Biomedical Instrumentation	2.85	3	2.94	2.4	2.4	2.83
C410	Python Programming	2.64	3	2.85	2.8	2.8	2.84
C417	Professional Practice, Law & Ethics	2.64	3	2.85	2.4	2.4	2.76
C418	Microwave and Optical Communications Lab	3	3	3	2.4	2.4	2.88
C419	Industrial Oriented Mini Project/Summer Internship	3	3	3	2.6	2.6	2.92
C41A	Seminar	3	3	3	2.2	2.2	2.84
C41B	Project Stage-I	3	3	3	2.3	2.3	2.86
C422	Wireless Sensor Networks	2.95	3	2.98	2.5	2.5	2.88
C425	Low Power VLSI Design	3	3	3	2.5	2.5	2.90
C420	Data Base Management Systems	2.82	3	2.92	2.2	2.2	2.77
C426	Project Stage-II	3	3	3	2.3	2.3	2.86

  
Program Coordinator



  
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