

PO attainment value using direct assessment tools

PO Attainments for 2023-24 Passed Out Batch(R20)													
Course Code	COURSE NAME	Program Outcomes (PO's) &(PSO'S)											
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C101	Linear Algebra and Calculus	2.45	2.45										2.45
C102	Applied Physics	1.54	1.54	1.54	1.52	1.54	1.54						1.53
C103	Programming for Problem Solving	1.37	1.37	1.37	1.37	1.37	1.37			1.27			1.27
C104	Basic Electrical Engineering	1.50	1.50	1.50	1.50								
C105	Engineering Workshop & IT Workshop		3.00	3.00	3.00	3.00							
C106	Applied Physics Lab	3.00	3.00	3.00	3.00	3.00	3.00		3.00	3.00			3.00
C107	Programming for Problem Solving Lab	3.00	3.00	3.00	3.00	3.00	3.00			3.00		3.00	3.00
C108	Basic Electrical Engineering Lab	3.00	3.00	3.00	3.00								
C109	Differential Equations and Vector Calculus	1.99	1.99										1.99
C110	Engineering Chemistry	2.27	2.27				2.52	2.00					
C111	Data Structures	2.04	2.04	2.04	2.04	2.04	2.04			2.04			2.04
C112	Engineering Graphics	1.46		1.46		1.46			1.46	1.46		1.46	
C113	English								3.00	3.00	3.00		3.00
C114	Engineering Chemistry Lab	3.00	3.00		3.00	3.00							
C115	Data Structures Lab	3.00	3.00	3.00	3.00	3.00	3.00			3.00		3.00	3.00
C116	English Language and Communication Skills Lab								3.00	3.00	3.00		3.00

C201	Database Management Systems	2.58	2.58	2.58	2.58	2.58				2.63	2.52	2.52	2.58
C202	Computer Organization and Architecture	2.04	2.04	2.04	2.04	2.04	2.04		2.04	2.04	2.04	2.04	2.04
C203	Operating Systems	2.04	2.04	2.04	2.04	2.04	2.04		2.04	2.04	2.04	2.04	2.04
C204	Object Oriented Programming through Java	2.50	2.50	2.50		2.48			2.68				
C205	Discrete Mathematics	2.01	2.01	2.01	2.01	2.01					2.01		2.01
C206	Database Management Systems Lab	3.00	3.00	3.00	3.00	3.00							
C207	Operating Systems Lab	3.00	3.00	3.00	3.00	3.00						3.00	3.00
C208	Java Programming Lab	3.00	3.00	3.00	3.00	3.00						3.00	
C209	Gender Sensitization Lab						3.00		3.00				3.00
C210	Employability Skills-III	2.00					2.00	3.00		2.00	2.00	2.00	
C211	Business Economics & Financial Analysis		2.52	2.52			2.52		2.52	2.52	2.52	2.52	2.50
C212	Computer Oriented Statistical Methods	3.00	3.00	3.00	3.00								3.00
C213	Analog & Digital Electronics	1.54	1.54	1.54	1.54	1.54							1.52
C214	Python Programming	2.01	2.01	2.00	2.01	2.01	1.98			2.04	2.01		2.00
C215	Software Engineering	2.52	2.52	2.52	2.52	2.52	2.52		2.52	2.52	2.52	2.52	2.52
C216	Analog & Digital Electronics Lab	3.00	3.00	3.00	3.00	3.00							3.00
C217	Python Programming Lab	3.00	3.00	3.00	3.00	3.00							

C218	Software Engineering Lab	3.00	3.00	3.00	3.00	3.00				3.00	3.00	3.00	3.00
C219	Environmental Science						3.00	3.00				3.00	
C220	Employability Skills-IV	2.00					2.00	3.00		2.00	2.00	2.00	
C301	Design and Analysis of Algorithms	2.04	2.04	2.04	2.04	2.04				2.04	2.04	2.04	2.04
C302	Computer Networks	2.52	2.52	2.52	2.52	2.52	2.52		2.52	2.52			2.52
C303	Artificial Intelligence	2.98	2.98	2.98	2.98	2.98	2.97		3.00	3.00	2.99	2.99	3.00
C304	Formal Languages and Automata Theory	3.00	3.00	3.00	3.00	3.00							3.00
C305	Data Analytics Using R	1.56	1.56	1.56	1.56	1.56						1.56	1.56
C306	Principle Of Programming Language	2.52	2.52	2.52	2.52	2.52	2.52			2.52	2.52	2.52	2.52
C307	Artificial Intelligence Lab	3.00	3.00	3.00	3.00	3.00	3.00			3.00	3.00	3.00	
C308	Computer Networks Lab	3.00	3.00	3.00		3.00				3.00			
C309	Design and Analysis of Algorithms Lab	3.00	3.00	3.00	3.00	3.00	3.00		3.00	3.00	3.00	3.00	3.00
C310	Constitution of India								3.00		3.00		
C311	Devops	3.00		3.00		3.00							3.00
C312	Compiler Design	1.56	1.56	1.56	1.56	1.56	1.56		1.56	1.56		1.56	1.56
C313	Machine Learning	3.00	3.00	3.00	3.00	3.00	3.00		3.00		3.00	3.00	
C314	Web Technologies	2.52	2.52	2.52	2.52	2.52					2.52		2.52
C315	Software Project Management	2.50	2.50	2.50	2.49	2.49	2.48		2.48	2.50	2.50	2.50	2.50
C316	Information Retrieval System	2.48	2.50	2.50	2.49	2.48	2.48		2.41	2.41	2.50	2.41	2.50
C317	Principles of Electronic	3.00	3.00	3.00	3.00	3.00					3.00		3.00

	Communication												
C318	Advanced Communication Skills Lab									3.00	3.00		3.00
C319	Machine Learning Lab	3.00	3.00	3.00	3.00	3.00	3.00				3.00		
C320	Web Technologies Lab	3.00	3.00	3.00	3.00	3.00	3.00				3.00	3.00	
C321	Intellectual Property Rights						3.00		3.00				3.00
C322	Cyber Security	3.00	3.00	3.00	3.00		3.00		3.00				3.00
C401	Data Mining	3.00	3.00	3.00	3.00	3.00	3.00		3.00	3.00	3.00	3.00	3.00
C402	Internet of Things	3.00	3.00	3.00	3.00		3.00			3.00	3.00	3.00	3.00
C403	Software Testing Methodologies	3.00	3.00	3.00	3.00	3.00					3.00		3.00
C404	Distributed System	2.52	2.52	2.52	2.52	2.52					2.52		2.52
C405	Object Oriented Modeling and Design	3.00	3.00	3.00	3.00	3.00	3.00		3.00	3.00	3.00	3.00	3.00
C406	Electronics Measurements and Instrumentation	3.00	3.00	3.00	3.00	3.00							3.00
C407	Information Security and Risk Management	2.04	2.04	2.04	2.04	2.04	2.04				2.04	2.04	2.04
C408	Data Mining Lab	3.00	3.00	3.00	3.00	3.00				3.00			
C409	Internet of Things Lab	3.00	3.00	3.00	3.00	3.00			3.00	3.00		3.00	3.00
C410	Industry Oriented Mini Project	3.00	3.00	3.00	3.00	3.00	3.00		3.00	3.00	3.00	3.00	3.00
C411	Project –I	3.00	2.00	2.00	2.00	2.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
C412	Block chain Technology	3.00	3.00	3.00	3.00	3.00	3.00		3.00	3.00	3.00	3.00	3.00
C413	Computer Vision	2.52	2.52	2.52	2.52	2.52	2.52		2.52	2.52	2.52	2.52	2.52
C414	Design Patterns	3.00	3.00	3.00	3.00	3.00					3.00		3.00

C415	Cloud computing	3.00	3.00	3.00	3.00	3.00	3.00		3.00	3.00	3.00	3.00	3.00
C416	IOT Protocols and its Application	3.00	3.00	3.00	3.00	3.00			3.00	3.00	3.00	3.00	3.00
C417	Seminar	3.00	2.00	1.00	2.00	2.00	2.00		1.00	3.00	1.00	2.00	3.00
C418	Project -II	3.00	3.00	3.00	3.00	3.00	2.00	3.00	1.00	3.00	2.00	3.00	3.00
	Sum	175	170	163	155	151	103	17	81	108	108	99	147
	MAPPED COUNT	67	65	63	59	58	40	6	31	41	41	38	56
	Direct PO Attainment (X)	2.61	2.61	2.59	2.63	2.61	2.57	2.83	2.60	2.63	2.63	2.61	2.63
	Indirect PO Attainment (Y)(Through survey forms)	2.40	2.32	2.31	2.30	2.00	1.90	0.50	1.90	2.20	2.40	2.40	2.33
	Indirect PO Attainment (Z)(Through Activities)	2.50	2.26	2.25	1.90	2.23	1.50	0.80	1.40	2.20	2.30	2.50	2.50
	Final PO Attainment (X*80% + Y*10%+Z*10%)	2.58	2.55	2.53	2.52	2.51	2.39	2.40	2.41	2.54	2.57	2.58	2.59
	Target	2.37											

PSO Attainments for 2022-23 Passed Out Batch(R18)			
Course Code	COURSE NAME		
		PSO1	PSO2
C101	Mathematics - I		
C102	Chemistry		
C103	Basic Electrical Engineering	1.39	1.45
C104	Engineering Workshop		
C105	English		
C106	Engineering Chemistry Lab		
C107	English Language and Communication Skills Lab		
C108	Basic Electrical Engineering Lab	3	3
C109	Mathematics - II		
C110	Applied Physics		

C111	Programming for Problem Solving	1.56	1.56
C112	Engineering Graphics		
C113	Applied Physics Lab		
C114	Programming for Problem Solving Lab	3	3
C201	Analog and Digital Electronics	1.56	1.56
C202	Data Structures	1.56	1.56
C203	Computer Oriented Statistical Methods		
C204	Computer Organization and Architecture	1.56	1.56
C205	Object Oriented Programming using C++	1.56	1.56
C206	Analog and Digital Electronics Lab	3	3
C207	Data Structures Lab	3.00	3.00
C208	IT Workshop Lab		
C209	C++ Programming Lab	3.00	3.00
C210	Gender Sensitization		
C211	Discrete Mathematics	1.56	1.56
C212	Business Economics & Financial Analysis		
C213	Operating Systems	1.56	
C214	Database Management Systems	1.56	1.56
C215	Java Programming	1.56	
C216	Operating Systems Lab	3.00	3.00
C217	Database Management Systems Lab	3.00	3.00
C218	Java Programming Lab	3.00	3.00
C219	Constitution of India		
C301	Formal Languages & Automata Theory	1.56	1.56
C302	Software Engineering	1.56	1.56
C303	Computer Networks	1.56	1.56
C304	Web Technologies	1.56	1.56
C305	Principles of Programming Language	1.56	1.56
C306	Information Retrieval Systems	1.56	1.56
C307	Software Engineering Lab	3.00	3.00
C308	Computer Networks & Web Technologies Lab	3.00	3.00
C309	Advanced Communication Skills Lab		
C310	Intellectual Property Rights		
C311	Artificial Intelligence	3.00	3.00
CS521PE	Computer Graphics	2.04	2.04
CS513PE	Data Analytics	2.04	2.04
C312	Machine Learning	1.56	1.56
C313	Compiler Design	1.56	1.56
C314	Design and Analysis of Algorithms	1.56	1.56
C315	Mobile Application Development	1.56	1.56
C316	Software Testing Methodologies	1.56	1.56

C317	Fundamentals of Internet of Things	1.56	1.56
C318	Machine Learning Lab	3.00	3.00
C319	Compiler Design Lab	3	
C320	Mobile Application Development Lab	3.00	3.00
C321	Software Testing Methodologies Lab	3	3
C322	Environmental Science		
C323	Cyber Security		3.00
C401	Cryptography & Network Security	2.04	2.04
C402	Data Mining		2.52
C403	Cloud Computing	1.56	1.56
C404	Software Process & Project Management	1.56	1.56
C405	Real Time Systems		1.56
C406	Electronic Sensors	1.56	1.56
C407	Cryptography & Network Security Lab	3.00	3.00
C408	Industrial Oriented Mini Project/ Summer Internship	3.00	3.00
C409	Seminar	3	3
C410	Major Project Stage -1	3	3
C411	Organizational Behaviour		
C412	Human Computer Interaction		2.52
C413	Cyber Forensics	3.00	3.00
C414	Measuring Instruments	1.56	1.56
C415	Major Project Stage -2	3	3
		107	110
	MAPPED COUNT	49	50
	Direct PSO Attainment (X)	2.17	2.20
	Indirect PSO Attainment (Z)(Through Activities)	2.30	2.10
	Final PSO Attainment (X*80% +Z*20%)	2.20	2.18
	Target	2.26	

PO and PSO attainment value using indirect assessment tools

Indirect Attainment Values															
Academic Year: 2023-24															
S.No	Surveys	Program Outcomes (PO's)													
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
1	Graduate Exit Survey	2.50	2.40	2.50	2.35	2.10	2.00	0.53	2.10	2.35	2.50	2.52	2.50	2.65	2.55
2	Alumini Survey	2.50	2.35	2.32	2.30	2.00	1.90	0.50	1.92	2.27	2.50	2.50	2.33	2.60	2.45
3	Employer Survey	2.20	2.20	2.10	2.25	1.90	1.80	0.47	1.67	1.98	2.20	2.18	2.15	2.25	2.15
Average		2.40	2.32	2.31	2.30	2.00	1.90	0.50	1.90	2.20	2.40	2.40	2.33	2.50	2.38

Overall PO and PSO attainment value

Assessment	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO1 2	PSO 1	PSO 2
Direct PO Attainment (X)	2.61	2.61	2.59	2.63	2.61	2.57	2.83	2.60	2.63	2.63	2.61	2.63	2.60	2.60
Indirect Attainment (Z)(Through Activities)	2.50	2.26	2.25	1.90	2.23	1.50	0.80	1.40	2.20	2.30	2.50	2.50	2.50	2.30
Overall PO and PSO Attainment (X*80% + Y*10%+Z*10%)	2.58	2.55	2.53	2.52	2.51	2.39	2.40	2.41	2.54	2.57	2.58	2.59	2.50	2.50