

C4154	2.0	2.0	2.0	2.1	2.1										
C4162	2.2	2.2		2.1	2.2										
C417	2.0	2.0	2.0						2.0						
C418	2.1	2.1			2.1				2.1				1.9	1.9	
C421	2.40	2.42		2.38	2.32										
C422	2.3	2.3			2.3										
C423	2.4	2.4			2.2										
C4241	2.0		1.8		2.1										
C425	2.7	2.8	2.7		2.9				2.8	2.7			2.7	2.8	
C426	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.1	2.1	2.1	2.1			2.0
No of Courses Contributing to each PO-PSO Count	62	59	35	23	37	8	8	4	17	11	6	7	17	19	
% of Courses Contributing to each PO-PSO	92.14	92.19	54.69	35.94	57.81	12.50	12.50	6.25	26.56	17.19	9.38	10.94	26.56	29.69	
Sum	127.05	122.72	71.48	48.58	77.8	16.5	16.11	8.28	35.56	22.2	13.13	13.8	35.24	41.2	
Direct Attainment through Courses	2.05	2.08	2.04	2.11	2.11	2.06	2.01	2.07	2.09	2.02	2.19	1.97	2.07	2.17	

POs ATTAINMENT LEVELS
TABLE .2 POs Attainment Levels 2018-22 Batch

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
Direct Attainment	2.05	2.08	2.04	2.11	2.11	2.06	2.01	2.07	2.09	2.02	2.19	1.97	2.07	2.17
Indirect Attainment	2.17	2.4	2.09	2.07	1.99	2.25	2.22	2.22	2.21	2.11	1.98	2.13	2.16	2.08
Over all Attainment	2.07	2.14	2.04	2.22	2.07	2.24	2.11	2.22	1.92	2.12	2.14	2.07	2.13	2.26
Target	2.03	2.04	1.88	1.95	1.96	1.69	1.67	1.8	1.92	1.93	1.95	1.66	1.75	1.75

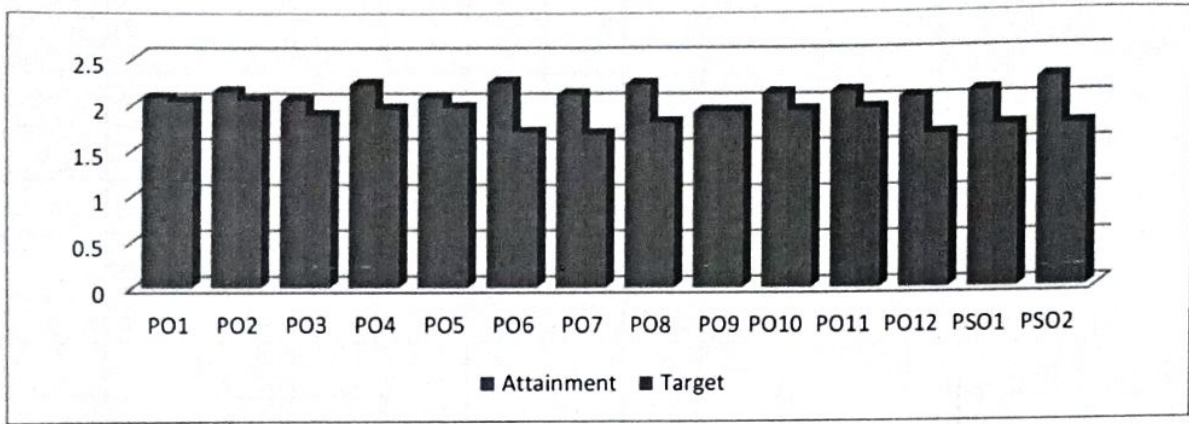


Fig. 2 Bar Chart representing PO-PSO ATTAINMENT OF 2018-22 BATCH



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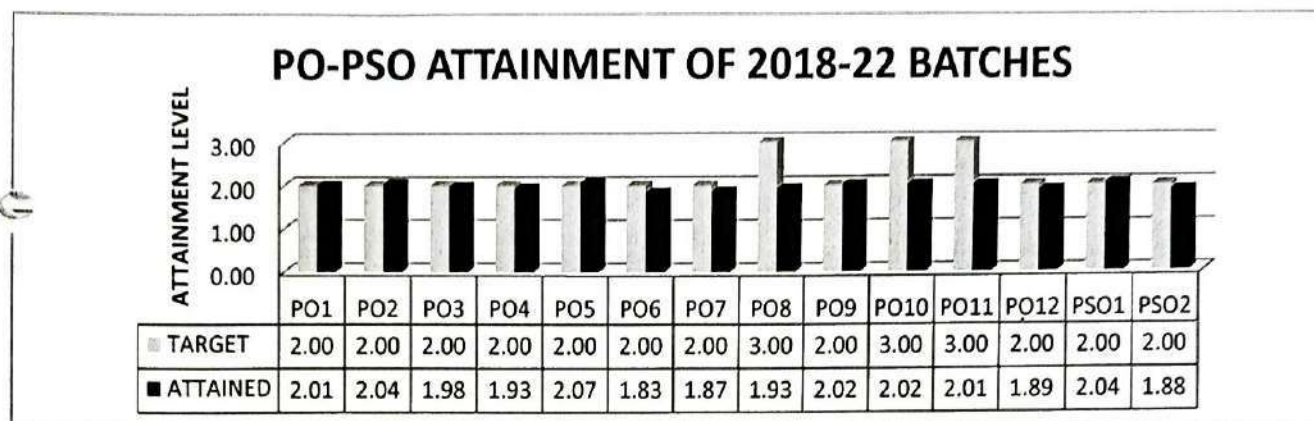
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 B.V.C. INSTT. OF TECH. & SCIENCE
 AMALAPURAM-533 221 , E.G.Dt., A.P.

	Chemistry Lab															
18	English Communications Skills Lab II	C128					2.00				2.00	2.00		2.00		2.00
19	Computer Programming Lab	C129	2.55	2.04	2.52	2.54	1.56							2.55		2.51
20	Electronic Devices and Circuits	C211	1.64	1.67	1.70											1.67
21	Switching Theory and Logic Design	C212	1.79	1.81	1.82	1.78	1.82						1.82	1.80		
22	Signals and Systems	C213	1.72	1.77	1.75		1.78									1.74
23	Network Analysis	C214	1.45	1.44												1.45
24	Random Variables and Stochastic Process	C215	1.45	1.45	1.45	1.46										1.46
25	Managerial Economics and Financial Analysis	C216	1.96	1.94	2.02				1.84			1.94				
26	Electronic Devices and Circuits Lab	C217	2.49	2.49												2.49
27	Networks and Electrical Technology Lab	C218	2.16	2.17						2.16	2.17					
28	Electronic Circuit Analysis	C221	1.60	1.64	1.67											1.63
29	Control Systems	C222	1.94	2.04	2.07											1.99
30	Electromagnetics Waves and Transmission Lines	C223	2.03	2.03	2.03	2.10								2.04	2.02	
31	Analog Communications	C224	1.88	1.90	1.78		1.78							1.90	1.90	
32	Pulse and Digital Circuits	C225	1.74	1.75	1.78		1.73									1.76
33	Management Science	C226		1.82					1.81	1.63	1.78		1.96			

52	Digital Communications Lab	C328	1.86	1.02	2.11		2.15								1.70	
53	IPR & Patents	C329			1.92			1.92								
54	Radar Systems	C415	2.17	2.14	2.18										2.17	
55	Digital Image Processing	C412	1.83	1.87	2.80										2.00	
56	Computer Network	C413	1.97	1.98	1.83	1.95									1.95	
57	Optical Communications	C416	2.18	2.11	1.97		1.97							2.31	2.14	
58	Electronic Switching Systems	C415	2.03	2.04	1.97										2.00	
59	Embedded Systems	C423	2.05	2.02	2.07										2.04	
60	Micro Wave Engineering & Optical Lab	C417	2.62	2.62			2.61								2.62	
61	Digital Signal Processing Lab	C418	2.77	2.76	2.76										2.77	
62	Cellular Mobile Communications	C421	1.85	1.90	1.78	1.96	1.94								1.87	
63	Electronic Measurements and Instrumentation	C422	2.12	2.12											2.12	
64	Satellite Communications	C423	1.76	1.78	1.79		1.65							1.78	1.76	
65	Wireless Sensors and Networks	C424	1.72	1.88	1.77	1.52	1.67								1.70	
66	Seminar	C425		2.25		2.25	2.08	2.25	2.25	2.00		1.75		1.75	2.05	2.08
67	Project	C426		2.25	2.25	2.25	2.25	1.75	1.75	2.25	2.25	1.75	2.25	1.75	2.05	2.08
No of Courses Contributing to each PO-PSO			60	59	49	21	33	8	7	8	11	12	3	12	49	14
% of Courses Contributing to each PO-PSO			90%	88%	73%	31%	49%	12%	10%	12%	16%	18%	4%	18%	73%	21%
PO ATTAINMENT LEVEL:			1.98	1.98	2.02	1.94	1.98	1.91	1.88	1.94	1.98	1.97	2.05	1.95	1.98	1.98
DIRECTATTAINMENT			1.58	1.58	1.62	1.55	1.58	1.53	1.50	1.55	1.58	1.58	1.64	1.56	1.58	1.58

INDIRECT ATTAINMENT	2.11	2.28	1.82	1.89	2.45	1.53	1.83	1.87	2.18	2.20	1.84	1.51	2.29	1.47
	0.42	0.46	0.36	0.38	0.49	0.31	0.37	0.37	0.44	0.44	0.37	0.30	0.46	0.29
TARGET	2.00	2.00	2.00	2.00	2.00	2.00	2.00	3.00	2.00	3.00	3.00	2.00	2.00	2.00
ATTAINED	2.01	2.04	1.98	1.93	2.07	1.83	1.87	1.93	2.02	2.02	2.01	1.86	2.04	1.88

Bar Chart Representing PO-PSO ATTAINMENT OF 2018-22 BATCHES



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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

3.3.2. Provide results of evaluation of each PO & PSO (40)

A. Verification of documents, results and level of attainment of each PO/PSO (24)

2018-22Batch(R16-JNTUK)

PO Attainment Points (2018-2022 Batch)

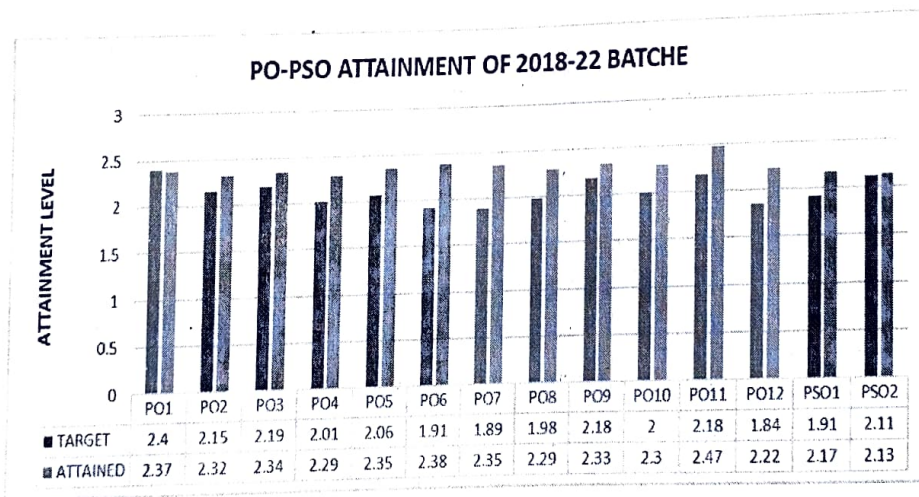
COURSE-PO ATTAINMENT																
BATCH: 2018-22																
S. No	COURSE NAME	COURSE CODE	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PS O1	PS O2
1	ENGLISH I	C111	2.0		2.0				2.0	2.2		2.1			2.1	
2	MATHEMATICS I	C112	2.0	2.0	2.0	2.0										
3	MATHEMATICS II	C113	2.2	2.2	2.2											
4	APPLIED PHYSICS	C114	2.0	2.0	1.8							2.1				2.0
5	COMPUTER PROGRAMMING	C115	2.2	2.2	2.2										2.2	2.2
6	ENGINEERING DRAWING	C116	1.7	1.7	1.6	1.6	1.8		1.7	1.8	1.7	1.8	1.8	1.8	1.7	1.7
7	ENGLISH - COMMUNICATION SKILLS LAB I	C117									2.2	2.2		2.2	2.2	
8	APPLIED / ENGINEERING PHYSICS LAB	C118	2.1	2.1			2.1								2.1	
9	APPLIED / ENGINEERING PHYSICS - VIRTUAL LABS - ASSIGNMENTS	C119	3.0	3.0	3.0		3.0									
10	C PROGRAMMING LAB	C1110	2.9	2.9	2.9	2.9	2.9								2.9	2.3
11	ENGLISH-II	C121	2.4				3.0	1.8	2.3		2.5	2.3			2.2	
12	MATHEMATICS III	C122	2.0	2.0	2.0											
13	APPLIED CHEMISTRY	C123	2.1	2.1	2.1	2.0	2.1	2.2	2.2							
14	ELECTRICAL AND MECHANICAL TECHNOLOGY	C124	2.1	2.1	2.1	2.1								2.0	2.1	2.1
15	ENVIRONMENTAL STUDIES	C125	1.8	1.9				1.9	1.7						1.8	
16	DATA STRUCTURES	C126	1.7	1.7											1.7	1.7

17	APPLIED / ENGINEERING CHEMISTRY LAB	C127	2.8	2.8	2.8		2.8	2.2	2.5						2.8	
18	ENGLISH COMMUNICA TIONS SKILLS LAB II	C128									1.9	1.9		1.9	1.9	
19	COMPUTER PROGRAMMI NG LAB	C129	2.8		2.8	2.7	2.8								2.8	
20	STATISTICS WITH R PROGRAMMI NG	C211	3.0	3.0	2.0		2.5				2.2				2.0	
21	MATHEMATIC AL FOUNDATION S OF COMPUTER SCIENCE	C212	2.7	2.4												
22	DIGITAL LOGIC DESIGN	C213	3.0	2.8	2.6											
23	PYTHON PROGRAMMI NG	C214	2.6	2.6	2.6	2.6	2.6								2.6	2.6
24	DS THROUGH C++	C215	2.1	2.2	1.2	1.0	0.7							0.2	1.4	1.6
25	COMPUTER GRAPHICS	C216	2.5	2.8	1.8		1.7								0.8	0.8
26	DS THROUGH C++ LAB	C217	2.4	1.9	1.8	2.0	2.4								2.0	1.5
27	PYTHON PROGRAMMI NG	C218	2.8	2.5	3.5	2.5	2.5								2.8	2.5
28	SOFTWARE ENGINEERING	C221	2.3	2.0	3.0	2.5	2.0	1.7		2.2	2.2			3.0	2.9	3.0
29	JAVA PROGRAMMI NG	C222	2.6	2.8	2.5	2.5		3.0							2.5	2.5
30	ADVANCED DATA STRUCTURES	C223	2.7	2.9	2.5	2.4	2.4								2.4	2.4
31	COMPUTER ORGANIZATI ON	C224	1.2	1.1	1.1	1.1	1.1							1.1	1.2	1.1
32	FORMAL LANGUAGE AND AUTOMATA THEORY	C225	2.1	2.1	2.1	2.1									2.1	
33	PRINCIPLES OF PROGRAMMI NG LANGUAGES	C226													2.2	2.3
34	ADVANCED DATA STRUCTURES LAB	C227	2.5	2.5	2.5	2.4	2.5								2.5	2.5
35	JAVA PROGRAMMI NG LAB	C228	2.5	2.6	2.7	2.6	2.6	2.5						2.6	2.5	2.7
36	COMPILER DESIGN	C311	1.8	2.3	2.3	2.3										
37	UNIX PROGRAMMI NG	C312	2.1	2.2	2.2										2.1	2.1
38	OOAD USING UML	C313	2.0	2.0	2.4	2.3	2.5								2.1	2.0
39	DBMS	C314	2.0	2.0	1.9	2.0	1.8						1.8	2.0	1.8	1.8
40	OPERATING	C315	1.7	1.7		1.7	1.7					1.7			1.7	1.7

SYSTEMS																	
41	UNIFIED MODELING LAB	C316	2.6	2.6	2.6	2.6	2.6								2.6		
42	OS & LINUX LAB	C317	2.2	2.0	2.7	2.7	2.9								2.6		
43	DBMS LAB	C318	2.2		2.2	2.2	2.2				2.0	2.6	2.1	2.6	2.0	2.5	
44	PROFESSIONAL ETHICS & HUMAN VALUES	C319	2.9	2.9	3.0	2.9	3.0	3.0	2.9	2.9	2.9	3.0	2.9	2.9	3.0	3.0	
45	COMPUTER NETWORKS	C321	1.7	1.7	1.7	1.8	1.9								1.7	1.7	
46	DATA WAREHOUSE AND DATA MINING	C322	2.3	2.3	2.3	2.3	2.3	2.3	2.3			2.3			2.3	2.3	
47	DESIGN AND ANALYSIS OF ALGORITHMS	C323	2.1	2.1	2.1	2.1									2.1	2.1	
48	SOFTWARE TESTING METHODOLOGIES	C324	1.8	1.8	1.8	1.7				1.7	1.9	1.9			1.8	1.8	
49	INTERNET OF THINGS	C3252	1.8		1.7	1.7	1.8	1.7						1.8	1.8	1.9	
50	NETWORK PROGRAMMING LAB	C326	2.5	2.6	2.5	2.6	2.5				2.6	2.6			2.5		
51	STM LAB	C327	2.0	2.5	2.5				2.5		2.0	2.0	3.0	3.0	2.0	2.5	
52	DWDM LAB	C328	2.4	2.4	2.4	2.4	2.4								2.4	1.9	
53	INTELLECTUAL PROPERTY RIGHTS AND PATENTS	C329			1.0			2.5									
54	CRYPTOGRAPHY AND NETWORK SECURITY	C411	1.5	1.6	1.4	1.5	1.7	1.8	1.5	1.6		1.5		1.4	1.5	1.4	
55	SOFTWARE ARCHITECTURE AND DESIGN PATTERNS	C412	1.9	1.9	1.9		2.4								1.9	1.9	
56	WEB TECHNOLOGIES	C413	1.8	1.8	1.9		1.8								1.8	1.8	
57	MEFA	C414	2.5	2.5	2.5	2.5	2.5	2.6	2.6	2.4	2.5	2.5	2.5	2.4	2.4	2.4	
58	BIG DATA ANALYTICS	C4151	2.4	2.4	2.4										2.3	2.3	
59	SOFTWARE PROJECT MANAGEMENT	C4162	2.3		2.3		2.3								2.3		
60	SOFTWARE ARCHITECTURE AND DESIGN PATTERNS LAB	C417	2.3	2.3	2.3	2.3	2.3								2.3		
61	WEB TECHNOLOGIES LAB	C418	2.5	2.6	2.6	2.6	2.6						2.7	2.6	2.6	2.6	
62	DISTRIBUTED SYSTEMS	C421	2.3	2.3	2.3		2.3								2.1	2.3	2.2
63	MANAGEMENT SCIENCE	C422	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.2	2.1	2.0	2.1	2.1	2.0	2.0	
64	MACHINE LEARNING	C423	2.1	2.1	2.1	2.1				2.1					2.1	2.1	

65	ARTIFICIAL NEURAL NETWORKS	C424	2.6	2.6	2.6	2.6	2.6	2.7							2.6	2.7
66	SEMINAR	C425	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
67	PROJECT	C426		2.5	2.5	2.5	2.5	2.6	2.6	2.5	2.5	2.6	2.5	2.6	2.6	2.5
No of Courses Contributing to each PO-PSO			63	57	60	42	45	16	14	10	14	18	10	20	58	46
% of Courses Contributing to each PO-PSO			93%	85%	87%	61%	64%	25%	21%	16%	22%	27%	15%	30%	85%	64%
PO ATTAINMENT LEVEL:			2.25	2.26	2.24	2.23	2.28	2.30	2.27	2.22	2.26	2.21	2.41	2.15	2.17	2.13
DIRECT ATTAINMENT			1.80	1.80	1.79	1.78	1.82	1.84	1.82	1.77	1.81	1.77	1.92	1.72	1.74	1.70
INDIRECT ATTAINMENT			2.77	2.49	2.58	2.55	2.57	2.57	2.61	2.55	2.58	2.60	2.62	2.52	2.29	1.47
TARGET			2.45	2.10	2.11	2.01	2.06	1.91	1.89	1.98	2.18	2.00	2.18	1.84	1.91	2.11
ATTAINED			2.37	2.32	2.34	2.29	2.35	2.38	2.35	2.29	2.33	2.3	2.47	2.22	2.17	2.13

Bar Chart Representing PO-PSO ATTAINMENT OF 2018-22 BATCHES



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