

## **Key Indicator- 2.6 Student Performance and Learning Outcome -**

### **2.6.2 Attainment of Programme outcomes and course outcomes are evaluated by the institution.**

Each course is defined with a set of course outcomes describing what the students are expected to know after learning each course. Course outcomes are oriented towards achieving the respective program outcomes.

#### **Regulations 2017**

- i) Two CIA tests and one model exam is conducted per semester for 100 marks. As per University norms, each question paper consists of 10 questions under Part A with 2 marks each, Part B consists of 5 questions under either or pattern with 13 marks each and Part C consists of 1 question with 15 marks. Each question is mapped to some prescribed COs. A table is made in the answer sheet indicating the marks scored by each student of the class against each question and also against each CO addressed by the test.
- ii) Two or three assignments are given combining 2 units in each semester for 10 marks each addressing different COs. The assignments may include short or long answer questions and a evaluation method with some criteria's such as clarity, neatness, understanding and content is followed for evaluating them.
- iii) Two class tests are conducted for 20 marks containing 2 questions with 2 marks and one question with 16 marks.
- iv) The end semester examination for 80 marks is conducted by the university. Attainment is considered as uniform for all COs of the course.
- v) Based on the marks obtained in the Internal tests, class tests, assignments and University examinations(UE), the CO attainment computation is performed. For each CO, the number of students who scored more than the target level is computed in 3 degree scale. The set attainment levels are then verified.
- vi) The CO level in Internal assessments and the CO level in UE are combined as  $0.20 * \text{CIE Level} + 0.80 * \text{UE Level}$ .
- vii) The set target levels of COs are compared, and targets are set for next academic year.
- viii) The average value of the CO levels of each course are then used for mapping the PO attainments, using the array of target PO values for the course.
- ix) The assessment system followed by the University in four different levels are shown in Table.2.6.2.1. The internal assessment tests are uploaded in the University web portals before the due dates.

**Table: 2.6.2.1 Assessment system adopted by the University (Reg. 2013)**

<b>Assessment</b>	<b>Marks</b>	<b>Web Portal Entry</b>	<b>IE Weightage</b>	<b>UE Weightage</b>	<b>Total</b>
Attendance	-	University Portal Entry - 1	-	-	-
Assessment I	100	University Portal Entry - 2	20	-	20
Assessment II	100	University Portal Entry - 3			
Assessment III	100	University Portal Entry - 4			
UE	100	-	-	80	80
<b>Total Marks</b>					100

## Regulations 2021

### Internal Assessment (IA) Methods:

- Class Test (CT) and MCQ/Case study- For Theory (Two Cycles)
- Continuous Internal Assessment (CIA) - For Theory (Two Cycles)
- End Semester University Examinations (UE)

**Table: 2.6.2.2 Theory:**

S.No	Assessment Component	Portion	Pattern	Marks	Weightage
1.	Unit Test	1 Unit	Part A- 2 x 5 =10 Marks Part B-10 x 1 =10 Marks	20	40
2.	Assignment	-	Creative Assignment	20	
3	CIA test	2.5 Units	Part A- 10 x 2 = 20 Marks Part B- 5 x 13 = 60 Marks Part C- 1 x15 = 15 Marks	100	60

**For Theory with Lab Component: Internal (50) + External (50)**

**Table: 2.6.2.3 Internal – 50 Marks**

Assessment I (40% Weightage) Theory Component		Assessment II (60% Weightage) Laboratory Component		Total Internal Assessment
Individual Assignment / Case Study / Seminar / Mini Project	Written Test	Evaluation of Laboratory, Observation, Record	Test	
40	60	75	25	*50

\*50 - Total 200 - Weighted average will be converted to 50

**Table: 2.6.2.4 External: End Semester University Examinations – 50 Marks**

S. No	Mode of Assessment	Duration	% Weightage
1.	Theory	3 Hours	35
2.	LAB	3 Hours	15

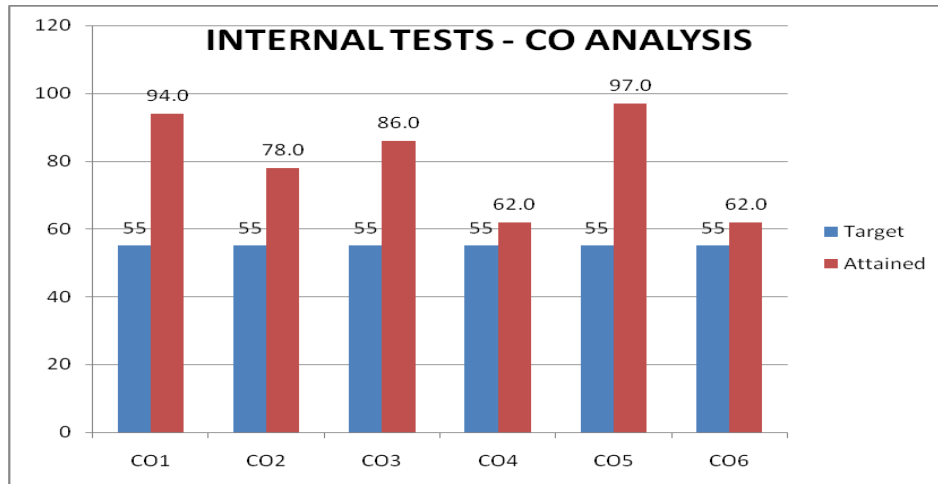
**Table: 2.6.2.5 Regulations 2021 - Assessment for practical adopted by the University**

S.No	Assessment Methods	Marks	Weightage
1	Lab Work with record	75	60
2	Model Exam	25	
3	End Semester University Examinations	100	40
<b>Total</b>			100



The attainment of each course is evaluated using the excel template and the marks attained under each CO is posted and the overall attainment of each CO is evaluated as shown in Figure 2.6.2a and Figure 2.6.2b.

The chart showing the attainment of CO in internal tests under 3 degree scale for the expected level 2 is shown in Figure 2.6.2b.



**Figure 2.6.2b Sample Chart for CO Target Vs Attained Level in CIA tests**

The marks attained by students in UE is compared with the target fixed for every academic year and is evaluated and posted the same value for all the COs. The attainment in UE is shown in Figure 2.6.2c.

S.NO	REG. NO 82031910	NAME	Univ. Grade
1	820320104001	Anitha R	A
2	820320104002	Anjana R	A+
3	820320104003	Arularasi S	A
4	820320104004	Arun S	A+
5	820320104005	Ayscha Sumaya J	UA
6	820320104006	Balaji M	B+
7	820320104007	Bose V	A
8	820320104008	Devika R	A+
9	820320104009	Dharshini S	A
10	820320104010	Dharshini V	A
11	820320104011	Ganesh Balaji B	B
12	820320104012	Hemachandran S.B	B
13	820320104013	Hari Rajan R	B
14	820320104014	Ishwarya P	A+
15	820320104015	Jeevashree S	B+
16	820320104016	Jepsnal J	B+
17	820320104018	Kaviya R	B
18	820320104019	Kavya S	A
19	820320104020	Krithika S	A+
20	820320104021	Manikandan P	A+
21	820320104022	Manushri S	A+
22	820320104023	Mohamedwashif V	B
23	820320104024	Prashanthini S V	A
24	820320104025	Rahul R	A
25	820320104026	Rajan A	B
26	820320104027	Rufas Stalin B	B
27	820320104028	Sakthianandham V	A+
28	820320104029	Sakthi Rasmitha S	A
29	820320104030	Sakthivel S	A
30	820320104031	Santhiya S	A
31	820320104032	Santhoshini B	A
32	820320104033	Saranraj S	B+
33	820320104034	Sasirekha S	A+
34	820320104035	Semmozhiyan T	B
35	820320104036	Shangeetha L	A
36	820320104038	Siva Balan S	B
37	820320104039	Sowndharya R	B
38	820320104040	Srimathi R	A
39	820320104041	Srivalkdevi R	B+
40	820320104042	Sudharsan V	A+
41	820320104043	Suguna A	B
42	820320104044	Swedha S	A
43	820320104045	Swetha S	B+
44	820320104046	Thiricksha G	A
45	820320104047	Umesh S	A
46	820320104048	Vandhanaa N.C	A
47	820320104049	Vasanthakumar M	B
48	820320104050	Venkateshwaran K	A
49	820320104051	Vijayaragavi M	A
50	820320104052	Vikash E	B
51	820320104301	Abhiraami V	B
52	820320104302	Abirami R	U
53	820320104303	Arulmozhi A	B
54	820320104304	Aruna N	B+
55	820320104305	Ezhlmathy P	B
56	820320104306	Hari Prasath D	B
57	820320104308	Kavya M	B+
58	820320104309	Maheswaran G	B
59	820320104310	Musharaf ali E.M.J	B
60	820320104311	Muthusivaraj N	B
61	820320104312	Sheela V G	B+
62	820320104313	Sriram B	U
63	820320104314	Subiksha B	B
64	820320104315	Vijayasarithi R	B
65	820320104701	Venkatesh B	U
		No. of O Grade (91-100)	0
		No. of A+ Grade (81-90)	10
		No. of A Grade (71 - 80)	20
		No. of B+ Grade (61 - 70)	9
		No. of B Grade (50-60)	22
		No. of U Grade	3
		No. of UA	1
		Target for course outcome Attainment	55
		No of students above the target	61
		CO-Attainment University (%)	94

Figure 2.6.2c Attainment in University Examinations

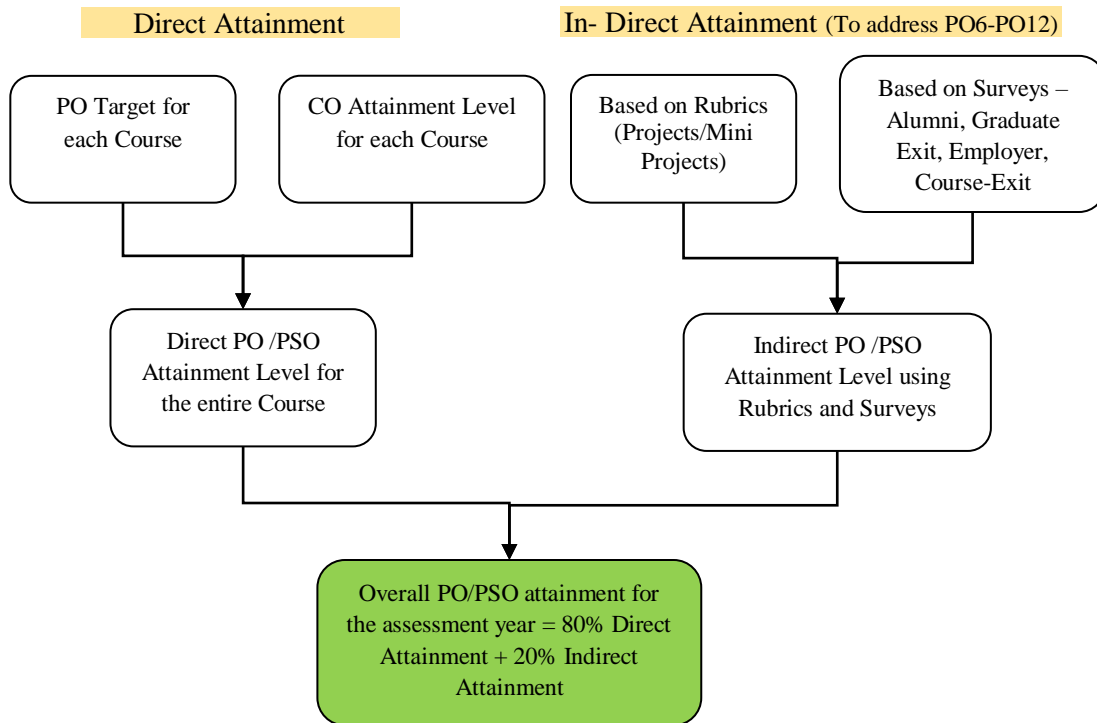
**Overall Attainment Calculation based on Direct and Indirect methods**

Programme Outcomes (POs) and Programme Specific Outcomes (PSOs) are calculated in two ways as,

(i) Direct attainment: The direct attainment is measured based on the performance of the students in the internal assessments conducted by the Institute and external assessments conducted by the University (IA and UE).

(ii) Indirect attainment: The indirect attainment is measured based on various surveys such as Alumni survey, Graduate Exit survey and Employer survey.

The process flow involved in measuring the attainment of POs and PSOs is shown in Figure 2.6.2d.



**Figure 2.6.2d Attainment of PO/PSO**

The course exit survey is shown in Figure 2.6.2e.

A.V.C COLLEGE OF ENGINEERING, MANNAMPANDAL, MAYILADUTHURAI						
Department of Computer Science and Engineering						
COURSE EXIT SURVEY						
ACADEMIC YEAR - 2021-22 (ODD SEMESTER)						
Name of the Faculty	Dr. K. Krishnakumari					
Name of the Subject	Analysis of Algorithms		Batch : 2020-2024			
Semester	II Year CSE / IV Semester		From Google Form : <a href="https://docs.google.com/forms/d/15pX4Mw8ikAW9XhatNusotwVJKAjNNUXcxnWGzOnFNqI/edit#responses">https://docs.google.com/forms/d/15pX4Mw8ikAW9XhatNusotwVJKAjNNUXcxnWGzOnFNqI/edit#responses</a>			
		No. of Students given				
		SA	PA	A	D	Overall Satisfied
C213.1	Design algorithm for various recursive and non-recursive problems.	40	19	6	0	84.1
C213.2	Apply the design techniques of Brute force and Divide and conquer	40	18	7	0	83.59
C213.3	Design algorithms using Dynamic programming and Greedy technique	37	17	10	1	79.49
C213.4	Apply the design techniques of iterative improvement.	28	25	12	0	74.87
C213.5	Interpret Class P, Class NP and NP Complete Problems.	27	27	11	0	74.87
C213.6	Design algorithms using Backtracking and Branch and Bound techniques.	36	25	3	1	82.56
Signature of the Staff						

**Figure 2.6.2e Course Exit Survey**

The overall attainment based on direct and indirect assessment methods are tabulated in Figure 2.6.2f.

COURSE CODE / TITLE	CS8451/ Design and Analysis of Algorithms				NBA Code	C213
SEMESTER / YEAR	III / II Year				Academic year	2021-22
COORDINATOR	Dr. K. Krishnakumari				Credits	3
Level 1 (55-64%), Level 2 (65-74%) and Level 3 (above 75%)						
CO ATTAINMENT						
COs	Internal (CO - INT)	University (CO - UNIV)	Direct Attainment	Indirect attainment	Overall Attainment	Attainment Level
	(INT)	(UNIV)	(DA = 0.2INT + 0.8UNIV)	(IDA) (Course End survey)	(OA = 0.8DA + 0.2 IDA)	
C504.1	88.00	94.00	92.80	84.10	91.06	3
C504.2	69.00	94.00	89.00	83.59	87.92	3
C504.3	80.00	94.00	91.20	79.49	88.86	3
C504.4	55.00	94.00	86.20	74.87	83.93	3
C504.5	94.00	94.00	94.00	74.87	90.17	3
C504.6	54.00	94.00	86.00	82.56	85.31	3

Figure 2.6.2f Overall attainment based on direct and indirect assessment methods

The expected and attained levels of PO's and PSO's are tabulated in Figure 2.6.2g.

A.V.C. COLLEGE OF ENGINEERING, Mannampandal - 609 305															
Department of Computer Science and Engineering															
COURSE CODE / TITLE	CS8451/ Design and Analysis of Algorithms				NBA Code	C213			Batch	2020-2024					
SEMESTER / YEAR	III / II Year				Credits	3									
FACULTY	Dr. K. Krishnakumari				Target	55									
REGULATIONS	2017				Academic Year	2021-22									
Expected CO - PO/PSO Attainment Level															
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C213.1	3	2	2										2		3
C213.2	3	2	2										3		2
C213.3	3	2	2										3		2
C213.4	3	2	2										2		3
C213.5	2	1	1										2		3
C213.6	2	2	2										2		2
<b>C213</b>	<b>2.67</b>	<b>1.83</b>	<b>1.83</b>										<b>2.33</b>		<b>2.50</b>
CO - PO/PSO Attained Level															
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C213.1	3	2	2										2		3
C213.2	3	2	2										3		2
C213.3	3	2	2										3		2
C213.4	3	2	2										2		3
C213.5	2	1	1										2		3
C213.6	2	2	2										2		2
<b>C213</b>	<b>2.67</b>	<b>1.83</b>	<b>1.83</b>										<b>2.33</b>		<b>2.50</b>
Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
<b>C213</b>	2.67	1.83	1.83	-	-	-	-	-	-	-	-	-	2.33		2.50
Attainment	2.67	1.83	1.83	-	-	-	-	-	-	-	-	-	2.33		2.50
Gap	0.00	0.00	0.00										0.00		0.00

Figure 2.6.2g Expected vs attained PO's and PSO's

The overall PO/PSO attained for the batch 2018-2022 for all the subjects and mapping is shown in Table 2.6.2.

**Table 2.6.2 PO/PSO MAPPING FOR BATCH 2018-2022 (R2017)**

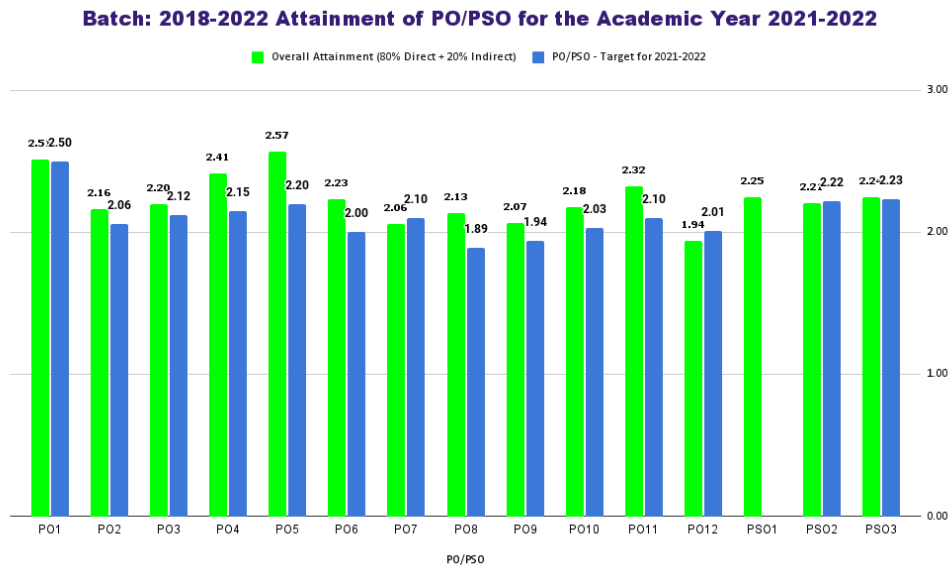
A.V.C COLLEGE OF ENGINEERING, MANNAMPANDAL, MAYILADUTHURAI																			
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING																			
PROGRAMME OUTCOME MAPPING FOR BATCH 2018-2022 (R2017)																			
S. N	Semester	SUB CODE	NBA CODE	SUB-NAME	PO												PSO		
					1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
1	Semester I	C101	HS8151	Communicative English	-	-	-	-	-	-	-	1.89	1.76	1.89	-	1.39	-	0.94	
2		C102	MA8151	Engineering Mathematics - I	0.67	0.33	0.33	-	-	-	-	-	0.33	-	-	-	-	0.5	
3		C103	PH8151	Engineering Physics	2.00	1.00	1.00	-	-	-	-	-	-	-	-	-	-	0.94	
4		C104	CY8151	Engineering Chemistry	1.47	0.74	1.36	-	-	-	-	-	-	-	-	-	-	0.74	
5		C105	GE8151	Problem Solving and Python Programming	1.56	1.31	1.85	-	-	-	-	-	-	-	-	-	-	1.69	
6		C106	GE8152	Engineering Graphics	1.30	0.87	1.30	-	1.45	-	-	1.02	0.58	1.02	-	1.60	0.58	0.58	
7		C107	GE8161	Problem Solving and Python Programming Lab	3.00	2.17	2.67	-	2.50	-	-	2.00	1.33	1.17	-	1.33	2.00	1.00	2.00
8		C108	BS8161	Physics and Chemistry Laboratory I	2.00	1.40	1.60	-	-	-	-	2.00	1.00	2.00	-	-	-	-	1.00
9	Semester II	C109	HS8251	Technical English	-	-	-	-	-	-	-	1.83	1.65	1.65	-	0.92	-	0.92	
10		C110	MA8251	Engineering Mathematics - II	1.05	0.80	1.10	-	-	-	-	-	1.07	-	-	-	0.67	-	
11		C111	PH8252	Physics for Information Science	1.89	1.78	1.44	-	-	-	-	-	-	-	-	-	0.94	-	
12		C112	BE8255	Basic Electrical, Electronics and Measurement Engineering	0.73	0.73	0.73	-	-	-	-	-	-	-	-	-	-	-	0.67
13		C113	GE8291	Environmental Science and Engineering	1.33	1.07	1.33	-	-	-	1.33	1.33	1.33	0.67	-	1.07	-	-	0.67
14		C114	CS8251	Programming in C	1.27	1.09	1.09	-	-	-	-	1.09	1.09	0.66	-	1.09	1.27	0.63	1.27
15		C115	GE8261	Engineering Practices Laboratory	2.00	2.00	1.00	1.00	2.00	2.00	-	1.80	1.00	1.00	-	1.00	-	-	1.00
16		C116	CS8261	C Programming Laboratory	2.00	1.17	2.00	-	-	-	-	2.00	1.00	1.00	-	1.00	2.00	2.00	-
17	Semester III	C201	MA8351	Discrete Mathematics	1.83	2.00	1.67	-	-	-	-	-	1.83	-	-	-	1.50	1.50	1.33
18		C202	CS8351	Digital Principles and System Design	2.83	2.17	2.17	2.17	3.00	-	-	-	-	-	-	3.00	3.00	3.00	3.00
19		C203	CS8391	Data Structures	2.67	2.00	2.00	-	-	-	-	-	-	-	-	-	2.33	2.33	2.50
20		C204	CS8392	Object Oriented Programming	2.67	2.00	2.00	-	-	-	-	-	-	-	-	-	2.33	-	2.50
21		C205	EC8395	Communication Engineering	2.67	2.00	2.00	-	-	-	-	-	-	-	-	-	1.83	1.00	1.83
22		C206	CS8381	Data Structures Laboratory	2.50	2.17	2.17	-	-	-	-	-	-	-	-	-	2.17	2.17	2.67
23		C207	CS8383	Object Oriented Programming Laboratory	2.83	1.83	1.83	-	-	-	-	-	-	-	-	-	1.83	1.83	2.83



24		C208	CS8382	Digital Systems Laboratory	2.50	2.17	2.17	-	-	-	-	-	-	-	-	2.17	2.00	2.67	
25		C209	HS8381	Interpersonal Skills/Listening & Speaking	-	-	1.83	-	-	-	-	-	-	-	-	1.00	-	-	
26		C210	MA8402	Probability and Queueing Theory	2.50	1.50	1.50	-	-	-	-	1.50	-	1.67	1.50	1.50	1.50	2.67	
27		C211	CS8491	Computer Architecture	2.17	1.17	1.17	-	-	-	-	-	-	-	-	2.17	-	2.17	
28		C212	CS8492	Database Management Systems	2.33	1.67	1.67	-	-	-	-	-	-	-	-	1.67	-	1.67	
29		C213	CS8451	Design and Analysis of Algorithms	2.67	2.00	2.00	-	-	-	-	-	-	-	-	1.83	1.00	1.83	
30		C214	CS8493	Operating Systems	2.67	2.00	2.00	-	-	-	-	-	-	-	-	2.33	-	2.50	
31		C215	CS8494	Software Engineering	2.33	1.60	2.33	-	2.33	2.33	-	2.33	2.33	2.33	-	2.33	1.60	2.33	2.33
32		C216	CS8481	Database Management Systems Laboratory	3.00	2.83	2.83	-	-	-	-	1.00	3.00	3.00	-	2.00	2.17	2.00	2.67
33		C217	CS8461	Operating Systems Laboratory	2.33	1.60	2.33	-	2.33	2.33	-	2.33	2.33	2.33	-	2.33	1.60	2.33	2.33
34		C218	HS8461	Advanced Reading and Writing	-	-	-	2.83	-	-	-	3.00	2.80	3.00	-	3.00	-	2.00	2.00
35		C301	MA8551	Algebra and Number Theory	2.50	2.67	2.17	-	-	-	-	2.17	1.83	-	-	-	1.33	1.50	1.33
36		C302	CS8591	Computer Networks	2.83	1.83	1.83	-	-	-	-	-	-	-	-	1.83	1.83	2.67	
37		C303	EC8691	Microprocessors and Microcontrollers	2.67	2.00	2.00	-	-	-	-	-	-	-	-	2.33	-	2.50	
38		C304	CS8501	Theory of Computation	2.50	1.67	1.67	-	-	-	-	-	-	-	-	2.33	-	2.50	
39		C305	CS8592	Object Oriented Analysis and Design	2.83	1.83	1.83	-	-	-	-	-	-	-	-	1.83	1.83	2.67	
40		C306	OCE551	Air Pollution and Control Engineering (OE1)	2.25	2.25	1.60	2.25	2.25	1.60	2.25	3.00	2.25	2.25	2.25	2.25	2.25	2.25	2.25
41		C331	EC8681	Microprocessors and Microcontrollers Lab	3.00	2.83	2.83	2.67	2.83	-	-	2.50	2.33	2.17	-	1.67	2.33	-	2.33
42		C332	CS8582	Object Oriented Analysis and Design Lab	2.83	1.83	1.83	-	-	-	-	-	-	-	-	1.83	1.83	2.83	
43		C333	CS8581	Networks Laboratory	3.00	2.83	2.83	-	-	-	-	1.83	1.83	1.83	-	1.00	1.83	-	1.83
44		C334	CS8651	Internet Programming	2.00	3.00	3.00	-	-	-	-	-	-	-	-	2.67	2.83	2.67	
45		C335	CS8691	Artificial Intelligence	2.67	1.67	2.67	-	-	-	-	-	-	-	-	1.67	2.67	2.67	
46		C336	CS8601	Mobile Computing	2.83	1.83	1.83	1.83	-	-	-	-	-	-	-	2.83	1.83	2.17	
47		C337	CS8602	Compiler Design	2.67	2.17	2.00	-	3.00	-	-	-	-	-	-	2.67	2.00	2.80	
48		C338	CS8603	Distributed Systems	3.00	2.67	2.67	2.60	-	-	-	-	-	-	-	2.67	2.33	2.67	
49		C340	IT8076	Software Testing (PE1)	2.83	2.17	2.17	2.17	2.17	-	-	-	2.17	2.17	-	-	2.17	2.17	2.83
50		C346	CS8661	Internet Programming Laboratory	3.00	2.83	2.83	-	3.00	-	-	1.00	3.00	3.00	-	1.00	3.00	2.00	2.00
51		C347	CS8662	Mobile Application Development Laboratory	3.00	2.80	2.25	2.67	3.00	-	-	-	2.50	2.67	3.00	2.25	2.17	2.50	2.50
52		C348	CS8611	Mini Project	3.00	2.50	2.50	1.00	1.00	1.00	1.00	1.83	1.83	1.83	1.00	1.00	1.83	2.00	1.83

53		C349	HS8581	Professional Communication	-	-	-	2.83	-	-	-	3.00	2.80	3.00	-	3.00	-	2.00	2.00	
54	Semester VII	C401	MG8591	Principles of Management	2.67	2.00	2.00	-	-	-	-	-	-	-	-	-	2.33	-	2.50	
55		C402	CS8792	Cryptography and Network Security	2.83	2.83	2.83	-	-	-	-	-	-	-	-	-	2.83	2.67	2.67	
56		C403	CS8791	Cloud Computing	2.67	2.50	2.17	-	3.00	-	-	-	-	-	-	-	2.50	2.00	2.80	
57		C413	OBM752	Hospital Management (OE2)	2.67	2.00	2.00	-	-	-	-	-	-	-	-	-	2.33	-	2.50	
58		C436	CS8079	Human Computer Interaction (PE3)	2.67	2.33	2.67	-	-	-	-	-	-	-	-	-	2.67	1.80	1.60	
59		C433	IT8074	Service Oriented Architecture	2.67	2.00	2.00	-	-	-	-	-	-	-	-	-	2.33	-	2.50	
60		C443	CS8711	Cloud Computing Laboratory	3.00	2.50	2.50	2.50	2.50	2.50	-	-	-	-	-	-	3.00	2.00	2.50	
61		C444	IT8761	Security Laboratory	3.00	2.83	2.83	-	-	-	-	1.83	1.83	1.83	-	1.00	1.83	-	1.83	
62		Semester VIII	C451	GE8076	Professional Ethics in Engineering (PE4)	2.00	3.00	3.00	-	-	-	-	-	-	-	-	-	2.67	2.83	2.67
63	C453		CS8078	Green Computing (PE5)	2.20	2.40	2.33	2.50	-	2.20	2.20	2.00	2.00	-	-	-	2.33	-	-	
64	C459		CS8811	Project Work	2.50	2.33	2.60	2.67	3.00	2.33	2.33	1.33	2.83	2.83	2.83	1.80	2.17	2.83	2.17	
					PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	
Through Direct Attainment: Attained					2.39	1.95	2.00	2.26	2.46	2.04	1.82	1.92	1.83	1.97	2.15	1.68	2.06	2.01	2.05	
Indirect Attainment																				
Graduate Exit Survey (in %) : G					90.00	87.78	85.56	86.67	88.33	89.44	86.67	86.67	90.00	87.78	87.78	88.89	89.44	89.44	87.78	
Alumni Survey(in %): A					79.6	77.6	78.6	79.1	79.6	79.6	79.1	80.6	81.6	77.6	78.6	79.1	80.6	78.1	76.0	
Employer Survey(in %): E					75.0	68.8	75.0	75.0	46.9	43.8	56.3	75.0	66.7	71.9	66.7	75.0	70.8	73.4	67.2	
Indirect (G*10%+A*5%+E*5%) in 20%					16.73	16.09	16.23	16.37	15.16	15.11	15.43	16.45	16.41	16.25	16.04	16.59	16.52	16.52	15.94	
Indirect in 100%					83.65	80.46	81.17	81.85	75.78	75.56	77.17	82.24	82.07	81.25	80.20	82.96	82.58	82.60	79.69	
Indirect Attainment (Graduate Exit Survey+Alumni Survey+Employer Survey)in 3 degree scale					3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
Overall Attainment (80% Direct + 20% Indirect)					2.51	2.16	2.20	2.41	2.57	2.23	2.06	2.13	2.07	2.18	2.01	2.25	2.22	2.22	2.23	2.24
PO/PSO - Target for 2021-22					2.50	2.06	2.12	2.15	2.20	2.00	2.10	1.89	1.94	2.03	2.10	2.01	3	2.22	2.23	

The graphical representation of overall attainment of PO/PSO for the batch 2018-2022 is shown in Figure 2.6.2h.



**Figure 2.6.2h Batch: 2018-2022 PO/PSO attained Target vs Attained**