Attainment of Course Outcomes

The POs and PSOs are evaluated using Microsoft excel that simplifies CO attainment calculation for every course.

1. Direct Assessment Process

The approach in evaluating the attainment of CO is using existing data from students' marks. This method is chosen because of the information is readily available and it is common for most courses. In general, assessment methods used are: (1) Internal Assessment Examinations (IAE) (2) Assignments (3) End Semester Examination. Each of these categories contributes a certain portion of the marks into some of the COs.

R-2017 -Direct CO Attainment = 80% Weightage of End Semester Examination + 20% of IAE R-2021 -Direct CO Attainment = 60% Weightage of End Semester Examination + 40% of IAE

2. Indirect Assessment Process

Indirect assessment strategies are calculated from course end survey reports collected at the end of every semester.

After collection of individual survey forms, the marks for COs are calculated based on the following formula:

CO Indirect attainment =Average of (CO1+CO2+CO3+CO4+CO5) from Course End Survey

Final Overall CO Attainment

Final CO attainment for each course is calculated based on the contribution of direct and indirect assessments as per the weightage given below:

1. Direct Assessment (80%)

2. Indirect Assessment (20%)

Final CO attainment level = (80% Direct assessment + 20 % Indirect assessment)

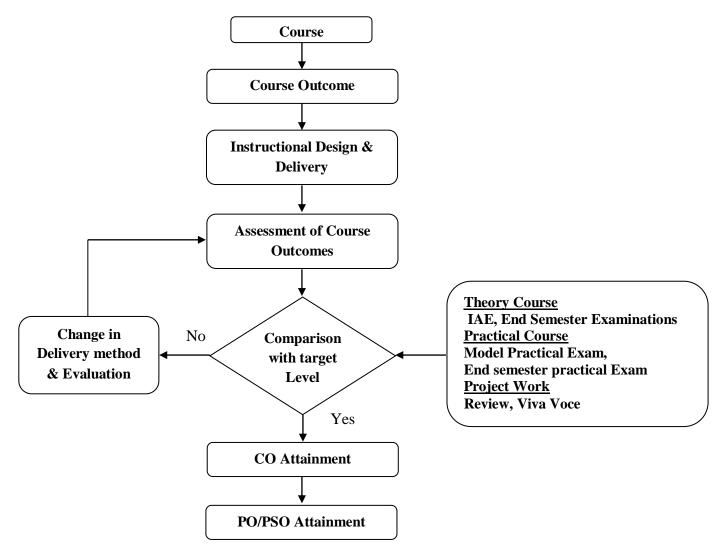


Fig. Assessment method to assess the attainment of the Course Outcomes

Course Outcomes Attainment Calculations

S.No.	Regulation	Category of Course	Internal Mark %	University Semester Exam Marks %	Total Marks
1	R2017	Theory course	20	80	100
2		Laboratory courses /Project work	20	80	100
1		Theory course	40	60	100
2	R2021	Laboratory courses /Project work	60	40	100
3		Theory cum Lab course	50	50	100

Table A. Ratio of Internal and End Semester Mark Split up for various Courses

Internal Assessment Process for Theory Courses

Table B Internal Assessment Process for Theory Courses

S.No	Components for IAP	Syllabus Coverage for the test	Duration of the test in Hrs.	Marks (Max)
		R2017		
1	Internal Assessment Examinations I	First 1.5 Units	1 hr 30 min	
2	Internal Assessment Examinations II	1.5 – 3 Units	1 hr 30 min	50 Marks (Converted to 20)
3	Internal Assessment Examinations III	4-5 Units	1 hr 30 min	
4	University Examination	All 5 Units	3 hrs	100 Marks (Converted to 80)
			Total	100

		R2021		
1	Internal Assessment Examinations I (60)	First 2.5 units	3 hrs	
1	Assignment I/ Seminar I (40)	2.5 – 5 units	3 hrs	100 Marks (Converted to
2	Internal Assessment Examinations I (60) Assignment I / Seminar I (40)	2.5 – 5 units	3 hrs	40)
3	University Examination	All 5 Units	3 hrs	100 (Converted to 60)
			Total	100

Internal Assessment Process for Theory Cum Lab Courses

Table C Internal Assessment Process for Theory Cum Lab Courses

		R2021		
1	Internal Assessment Examinations I (60)	First 2.5 units	3 hrs	100 Marks
1	Assignment I/ Seminar I (40)	First 2.5 units	3 hrs	(Converted to
2	Record (75) Model Exam (25)	All Excercises	3 hrs	50)
3	University Examination	All 5 Units	3 hrs	100 (Converted to 50)
	·		Total	100

Internal Assessment Process for Laboratory Courses

S.No	Components for IAM	Marks (max.)	Attainment Calculation					
		R2017						
1	Record	75	Record & Model Mark Converted					
			to					
2	Model Exam	25	20 Marks					
			University Practical Exam					
3	University Practical Exam	100	converted to 80 Marks					
		Total	100					
		R2021						
1	Record	75	Record & Model Mark Converted					
1	heeona	15	to					
2	Model Exam	25						
		23	60 Marks					
3	University Practical Exam	100	Converted to 40 Marks					
		Total	100					

Table D Internal Assessment Process for Laboratory Courses

Internal Assessment Process for Project Work

Table E Internal Assessment Process for Project work

S.No	Components for IAM	Marks (max.)	Attainment Calculation
1	Project Review	100	3 Review marks (5+7.5+7.5) Converted to 20 marks
2	University Viva-Voce	100	Converted to 80 marks
		Total	100

Methodology for attainment of Course Outcomes

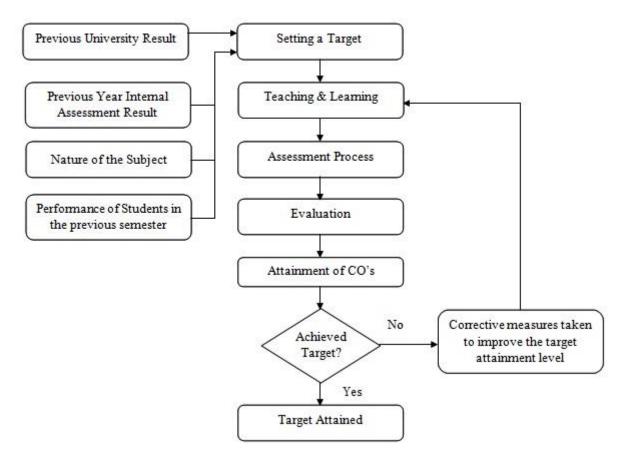


Fig. Attainment of all Courses

IAE Attainment calculation:

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		Ea	ch que	estion	Expec	ted Le	vel of a	attainn	nent -		64	%								
		TOTAL STF	ENGT	н	78															
			01	02	02	04	Q5		Q6	13)			Q7	(13)			Q8([14]		
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			CO1	CO1	CO1	CO 2	CO2	CO1	-	CO1	-	CO2	-	CO2	-	CO1	CO1	CO1	-	SCORE
		Marks	2	2	2	2	2	13	0	13	0	13	0	13	0	7	7	14	0	(50)
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1	732119104001	ABDUL RAZZAK R	2	0	2	0	2	10				7				6	7			36
2	732119104002	ABINATHAN P	2	2	2	2	2	10				7				5	4			36
3	732119104003	ABIRAMI M	2	2	2	2	2	12				9						12		43
4	732119104004	AJEETH KUMAR S	2	2	2	2	2	6				10				4	6			36
5	732119104005	ALOK C	2	2	2	2	2	6				8				6	6			36
6	732119104006	ANITHA S	2	2	2	2	2			10				8		7	7			42
7	732119104007	BHARATH J R	2	2	2	2	2			12		6				6	7			41
8	732119104008	BOOBESH K	2	2	2	2	2	6				12				4	5			37
9	732119104009	CHANDRU G	2	2	2	2	2	10				10				5	7			42
10	732119104010	DARSHAN B	2	2	2	2	2	8				11				5	4			38
11	732119104011	DEEPANCHAKKARAVART	2	2	2	2	2	8				12				6	6			42
12	732119104012	DEVI G	2	2	2	2	2	6				9				5	6			36
13	732119104013	DHATCHAYAN G	2	0	0	0	2			11		10				5	6			36
14	732119104014	DHEIVANANTH V	2	1	1	2	2			10		11				4	3			36
15	732119104015	DURGA DEVI K	2	2	2	2	2	6				7				6	7			36
16	732119104016	EBINSON R	2	0	0	0	2	9				10				6	7			36
17	732119104017	GAYATHRI B	2	2	2	2	2	6				9				5	6			36
18	732119104018	GAYATHRI V	2	0	2	2	2	11				12				6	5			42
19	732119104019	GNANASURYA P	2	2	2	2	2	6				9				5	6			36
20	732119104020	GOKUL PRASATH A	2	2	2	2	2	9				8				5	4			36
21	732119104021	GOKULSANKAR T	2	2	2	2	2	10				10				6	5			41

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43 732119104047 NAFREEN BANUN 1 2 0 2 1 10 12 4 4 4 36 44 732119104048 NARMATHA M 2 2 2 2 2 6 10 5 5 36 45 732119104049 NAVEEN J 2 2 2 2 7 7 5 6 35 46 732119104050 NAVEENKUMAR V 2 1 0 1 2 10 8 6 6 36 47 732119104051 NAVEEN PANDIAN P 2 2 2 1 2 10 8 6 6 6 36 47 732119104051 NAVEEN PANDIAN P 2 2 2 1 2 10 11 11 7 6 44 49 732119104052 PRASANNA VENKATESAN 2 2 2 2 13 13 6 6 44 49 732119104055 PRAVEEN KUMAR P 2 2 2 2	41	732119104045 MOUNESHWARAN S C	2	2	1	0	2	7		12		5	5		36
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	56	732119104061 RAMKUMAR V	2	2	1	2	2	10		10		6	6		41
58 732119104063 REVATHIN 2 1 1 0 2 13 13 7 6 45	57	732119104062 RENUKA S	2	2	2	2	2	12		7		4	5		38
	58	732119104063 REVATHI N	2	1	1	0	2	13		13		7	6		45

	Course Outcome Attainment Level Indicator																			
9	% of scoring abov	ve the attainment level	99	77	83	81	95	57.1	0	77.3	0	60.7	0	76.5	0	84.1	87.3	93.3	0	
s	o of students cored upto pected level	64	77	60	65	63	74	32	o	17	0	37	0	13	0	53	55	14	0	
78	732119104701	AJAYESWARAN R	2	2	2	2	2	6				6				7	7			36
77	732119104083	VIMALRAJ G	2	2	1	2	2	12				12				7	7			47
76	732119104082	VIJAYRAGU M	2	2	2	2	2			10				6				10		36
75	732119104081	VIJAYANANTHAN M	2	1	2	0	2	10				11				4	4			36
74	732119104080	VIGNESH R	2	2	2	2	2	13				11				6	6			46
73	732119104079	VIDHYASRI R	2	1	2	1	2	13				<u> </u>		10				14		45
72	732119104078	VIDHYAV	2	2	2	2	2	10				8				2	4			34
71	732119104077	VANNAMATHIK	2	2	2	2	2	12						13		7	7			49
70	732119104076	THIRUNAVUKKARASU D	2	0	2	2	2	10				6				6	6			36
69	732119104075		2	2	2	2	2	8				8				6	7			39
68			2	1	1	2	2			10		Ť		10		6	5			39
67			2	2	2	2	2	· ·		10		8				5	5			38
66	732119104070	SNEGA S	2	2	2	2	2	7				7				6	6			36
65		SIVASUBRAMANI T	2	2	2	2	2	7				7				6	6			36
64	732119104068	SHARNITHASHRI L	2	2	2	2	2	7		15		12		15		6	6	14		40
63			2	4	2	1	0	9		13		8		13		6	6	14		39 46
61 62	732119104066	SATHISHKUMAR C SHANKAR M	2	2	2	0	2	12				6				7	5			36 39
60	732119104065		2	2	2	0	2	10				10				6	5			39
59		RUBAVARSHINI S	2	1	0	1	2			10				12				13		41

C	O	Attainment		1
course	Outcome	Attainment	Leve	Indicator

Course outcome Attainment Lever mutator																				
	% Scale	3							2						1					
Rang	ge of attainment			>	64					50	to	64								
Ma	CO1	CO1	CO1	CO2	CO 2	CO1	-	CO1	-	CO 2	-	CO 2	-	CO1	CO1	CO1	-			
Attainment level of each CO			3	3	3	3	2	0	3	0	2	0	3	0	3	3	3	0		
Attainmon	CO1	CO 2	CO3	CO4	CO5		Mapp	ing wit	h PO:	P01,F	02,P0	3,PO9	, PO10	,PO12 ,	PSO1,	PSO3				
Attainment Level of COs in IAE 1			2.8	0	0	0														

End Semester Attainment:

	NANDHA COLLEGE OF TECHNOLOGY, PERUNDURAI, ERODE-638052 DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING											
NAMESIAA COLLEGE OF THE	ACADEMIC YEAR 2020 - 2021 (EVEN)											
HERVE	14/	END SEMESTER ANALYSIS										
COUR	SE NAME & CODE :	CS8451 - DESIGN AND ANALYSIS O	FALGORITHMS									
	FACULTY NAME:	Mrs.D.MOHANAPRIYA(CS) Mrs.M.	SARANYA(CS)									
	Ove	erall Expected Level of Attainment :										
		TOTAL STRENGTH =	78 Grade									
S.No	Reg No	Name	Grade (O=10, A+=9, A=8, B+=7, B=6, U=0)									
1	732119104001	ABDUL RAZZAK R	A									
2	732119104002	ABINATHAN P	A									
3	732119104003	ABIRAMI M	A+									
4	732119104004	AJEETH KUMAR S	A									
5	732119104005	ALOK C	A									
6	732119104006	A+										
7	732119104007	BHARATHJR	A+									
8	732119104008	BOOBESH K	A+									
9	732119104009	CHANDRU G	0									
10	732119104010	DARSHAN B	A+									
11	732119104011	DEEPANCHAKKARAVARTHI S	A+									
12	732119104012	DEVI G	A									
13	732119104013	DHATCHAYANG	A									
14	732119104014	DHEIVANANTHV	A									
15	732119104015	DURGA DEVI K	B+									
16	732119104016	EBINSON R	B+									
17	732119104017	GAYATHRI B	A+									
18	732119104018	GAYATHRI V	A									
19	732119104019	GNANASURYA P	A									
20	732119104020	GOKUL PRASATH A	A									
21	732119104021	GOKULSANKAR T	A									
22	732119104022	GOMATHI P	A									
23	732119104023	GOVARTHANAN J	A									
24	732119104024	GUHAN SHANMUGAM A	B+									

25	732119104025	GUNAVATHI S	A
26	732119104026	HARIHARAN S	A
27	732119104028	HARSHATH M	A
28	732119104029	ILAMUGIL B S	A
29	732119104033	KARTHICKRAJA S	B+
30	732119104034	KARTHIKEYAN S	B+
31	732119104035	KARTHIKEYAN S	A
32	732119104036	KARTHIKRAJA S	A
33	732119104037	KAVIYA SRI C	A
34	732119104038	KISHOR V	A
35	732119104039	LEELA E	A
36	732119104040	LINGAPRABU S	A
37	732119104041	MAHASAKTHIVEL A	A
38	732119104042	MANIKANDAN R	A
39	732119104043	MAYILSAMY S	A
40	732119104044	MOHANRAJ R	A+
41	732119104045	MOUNESHWARAN S C	B+
42	732119104046	MOUNIKA A	A+
43	732119104047	NAFREEN BANU N	A+
44	732119104048	NARMATHA M	A
45	732119104049	NAVEEN J	A
46	732119104050	NAVEENKUMAR V	B+
47	732119104051	NAVEEN PANDIAN P	A+
48	732119104052	NIHAL M	A+
49	732119104053	PRASANNA VENKATESAN K J	A+
50	732119104055	PRAVEEN KUMAR P M	A+
51	732119104056	PRIYA V	A+
52	732119104057	PRIYANGA S	A+
53	732119104058	RAHUL KUMARS	A+
54	732119104059	RAJESH SHANMUGAM S	A+
55	732119104060	RAJMOHAN V	A+
56	732119104061	RAMKUMAR V	A+

57	732119104062	RENUKA S		A+			
58	732119104063	REVATHI N		A+			
59	732119104064	RUBAVARSHINI S		A+			
60	732119104065	SANTHOSH S		A+			
61	732119104066	SATHISHKUMAR C		A+			
62	732119104067	SHANKAR M		A+			
63	732119104068	SHARMILA N	A+				
64	732119104069	SHARNITHASHRI L	A+				
65	732119104070	SIVASUBRAMANI T		A+			
66	732119104071	SNEGA S		A+			
67	732119104073	SUGANTH J		A+			
68	732119104074	SURYA M		A+			
69	732119104075	SUVETHA M		A+			
70	732119104076	THIRUNAVUKKARASU D		A+			
71	732119104077	VANNAMATHI K	A+				
72	732119104078	VIDHYA V	A+				
73	732119104079	VIDHYASRI R		A+			
74	732119104080	VIGNESH R		A+			
75	732119104081	VIJAYANANTHAN M		A+			
76	732119104082	VIJAYRAGU M		A+			
77	732119104083	VIMALRAJ G		A+			
78	732119104701	AJAYESWARAN R		А			
N	io of Students Sco	red upto Expected Level		78			
	% of Scored Abov	e the Attainment Level		100			
		Course Outcome Attainment Level	Indicator				
	Scale	Page	D 2	1			
Range	of attainment	> 64	50-64 <50				
	Mappi	ing with CO	CO1, CO2,CO3, CO4 and CO5				
	Attainmen	t level of all COs	3				
	Маррі	ng with PO	P01,P02,P03,P09,P010,P012,PS01, PS03				

Course end survey:

	NANDHA COLLEGE OF TECHNOLOGY, PERUNDURAI, ERODE-638052 DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING												
40	ACADEMIC YEAR 2020 -2021 (EVEN)												
			RSE END SU	-	M)								
	COURSE NAME & CODE : CS8451 - DESIGN AND ANALYSIS OF ALGORITHMS												
	COL	FACULTY NAME :											
		TACOLITI NAME :	PIIS.D.PIOI		(CO) Pils.	PL JANANI	M(CJ)						
CO1	1 Analyze the asymptotic performance of algorithms.												
CO2	Design algorithms	s for various computing proble	ems.										
CO2		and space complexity of algori											
	2												
CO4	Analyze the difference	ent algorithm design technique	es for a given p	roblem.									
CO5	Modify existing al	gorithms to improve efficiency	į .										
S.No	Reg. No.	Name	CO1	CO2	CO3	CO4	CO5						
1	732119104001	ABDUL RAZZAK R	3	2	3	3	3						
2	732119104002	ABINATHAN P	3	3	3	3	3						
3	732119104003	ABIRAMI M	3	3	3	2	3						
4	732119104004	AJEETH KUMAR S	1	1	1	3	2						
5	732119104005	ALOKC	3	3	3	3	3						
6	732119104006	ANITHAS	3	3	3	3	1						
7	732119104007	BHARATH JR	3	3	2	3	2						
8	732119104008	BOOBESHK	3	3	3	3	3						
9	732119104009	CHANDRU G	2	3	1	2	3						
10	732119104010	(DARSHAN B	3	1	3	3	3						
11	732119104011	DEEPANCHAKKARAVA	2	2	3	3	3						
12	732119104012	DEVIG	3	3	2	2	3						
13	732119104013	DHATCHAYANG	2	2	2	1	2						
14	732119104014	DHEIVANANTH V 🥒 🥟		2	3	3	1						
15	732119104015	DURGA DEVIK 🥏	2	2	2	1	2						
16		EBINSON R 📮 🛛 🚩	3	3	3	3	3						
17	732119104017	GAYATHRIB	۲	1	1	3	1						
18	732119104018	GAYATHRIV	3	2	3	3	3						
19	732119104019	GNANASURYA P	3	3	3	3	3						
20	732119104020	GOKUL PRASATH A	2	2	2	3	2						
21	732119104021	GOKULSANKART	3	3	3	2	3						
22	732119104022	GOMATHIP	3	3	3	3	3						
23	732119104023	GOVARTHANANJ	3	3	2	2	3						
24	732119104024	GUHAN SHANMUGAM A	2	2	2	3	2						
25	732119104025	GUNAVATHIS	1	3	3	3	3						
26	732119104026	HARIHARANS	2	2	3	3	2						
27	732119104028		3	3	3	3	3						
28			3	3	3	2	3						
29	732119104033	KARTHICKRAJA S	2	2	2	2	2						
<u>30</u> 31	732119104034	KARTHIKEYAN S	3	2	2	3	2						

36 37	732119104041	LINGAPRABUS MAHASAKTHIVEL A	3	3	3	3	2
38			3	3	3	3	3
39		MAYILSAMY S	3	3	2	3	2
40	732119104044	MOHANBAJB	3	3	3	1	3
41	732119104045	MOUNESHWARANSC	2	3	1	2	3
42	732119104046	MOUNIKAA	3	3	3	3	3
43	732119104047	NAFREEN BANU N	2	2	3	3	3
44	732119104048	NARMATHA M	3	3	2	1	1
45	732119104049	NAVEEN J	2	2	2	3	2
46	732119104050	NAVEENKUMAR V	3	2	3	3	3
47	732119104051	NAVEEN PANDIAN P	2	2	1	3	2
48	732119104052	NIHAL M	3	3	3	3	3
49	732119104053	PRASANNA	1	1	1	3	1
50	732119104055	PRAVEEN KUMAR P M	3	2	3	3	3
51	732119104056	PRIYA V	3	3	3	3	3
52	732119104057	'PRIYANGA S	1	2	2	3	2
53	732119104058	RAHUL KUMAR S	3	3	3	2	3
54	732119104059	RAJESH SHANMUGAM	3	1	3	3	3
55	732119104060	'RAJMOHAN V	3	3	3	1	3
56	732119104061	'RAMKUMAR V	2	2	2	3	2
57	732119104062	RENUKAS	1	3	3	3	3
58	732119104063	REVATHIN	2	2	3	3	2
59	732119104064	RUBAVARSHINIS	3	3	3	3	3
60	732119104065	SANTHOSHIS	3	3	3	2	3
61	732119104066	SATHISHKUMAR C	2	2	2	1	2
62	732119104067	SHANKAR M	3	3	3	3	2
63	732119104068	SHARMILAN	3	2	1	3	3
64	732119104069	SHARNITHASHRIL	2	2	3	3	3
65	732119104070	SIVASUBRAMANI T	2	2	2	2	2
66	732119104071	SNEGAS	3	3	3	3	3
67	732119104073	SUGANTH J	3	3	3	2	3
68	732119104074	SURYAM	3	3	3	3	3
69	732119104075	SUVETHAM	2	2	2	3	2
70	732119104076	THIRUNAVUKKARASU	2	3	3	2	3
71	732119104077	VANNAMATHIK	3	3	3	2	3
72	732119104078	VIDHYAV	2	2	3	3	3
73	732119104079	VIDHYASRIR	2	2	2	3	2
74	732119104080	VIGNESHR	1	3	3	3	3
75	732119104081	VIJAYANANTHAN M	2	2	2	3	2
76	732119104082	VIJAYRAGU M	3	3	3	3	3
77	732119104083	VIMALRAJG	3	3	3	2	3
78	732119104701	AJAYESWARANR	2	2	2	2	2
		RAGE	2.5	2.5	2.5	2.6	2.6

Over all Attainment:

	NANDHA COLLEGE OF TECHNOLOGY, PERUNDURAI, ERODE-638052 DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING ACADEMIC YEAR 2020 -2021 (EVEN) ATTAINMENT OF COURSE OUTCOMES												
	COL		S. NAME			OF COURSE OUTCO							
						A(CS) Mrs.M.SAR							
	DIRECT	ATTAINMI	ENT							ITAINMEN			
ATTA	INMENT	LEVEL IN	3 SCALE				(8	0% of Dir	ect +20%	of Indired	rt)		
ASSESSMENT TOOLS	CO1	CO 2	CO3	CO4	CO5		A	TTAINME	NT LEVEL	IN 3 SCAL	E		
IAE 1	2.88	2.75					CO1	CO2	CO3	CO4	CO5		
IAE 2		3.00	2.57				2.87	2.87	2.83	2.91	2.89		
IAE 3				2.88	2.86			1	2.88				
AVERAGE OF IAE	2.88	2.88	2.57	2.88	2.86	2.81		ATTAIN	MENT LEV	EL IN %			
END SEMESTER	3	3	3	3	3		C01	CO 2	CO3	CO4	CO5		
80% of END SEM +20 % of IAE	2.98	2.98	2.91	2.98	2.97		95.8	95.7	94.5	96.9	96.3		
Overall CO Direct Attainment			2.96				100.0 -	95.8	95.7	94.5 96	.9 96.3	_	
							80.0 -		_				
I	NDIRECT	ATTAINM	IENT				∦ €0.0-					_	
ATTA	INMENT	LEVEL IN	3 SCALE				me						
ASSESSMENT TOOLS	SSESSMENT TOOLS CO1 CO2 CO3 CO4 CO5						Attainment%					-	
Course End Survey	2.47	2.46	2.51	2.63	2.56		20.0 -					-	
Overall CO Indirect Attainment			2.53				0.0 -	C01	CO2	соз со	04 CO5	-	

			Mapping	with Pos :	P01,P02,	PO3,PO9,	PO10,PO1	2,PSO1,P	503						
CO-PO-PSO Attriculation M															
CO No	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PS01	PSO2	PSO3
1	3	3	2	-	-	-	-	-	3	3	-	3	2	-	2
2	2	3	2	-	-	-	-	-	2	3	-	3	2	-	2
3	3	2	3	-	-	-	-	-	3	2	-	2	3	-	3
4	3	2	3	-	-	-	-	-	3	2	-	2	2	-	2
5	2	3	2	-	-	-	-	-	2	3	-	3	2	-	2
AVERAGE	2.6	2.6	2.4						2.6	2.6		2.6	2.2		2.2
					P	0 & PSO A	ttainment	%							
CO Attainment	P01	PO2	PO3	P04	PO5	P06	PO7	P08	P09	P010	P011	P012	PS01	PSO2	PSO3
2.87	2.87	2.87	1.92						2.87	2.87		2.87	1.92		1.92
2.87	1.91	2.87	1.91	-					1.91	2.87		2.87	1.91		1.91
2.83	2.83	1.89	2.83						2.83	1.89		1.89	2.83		2.83
2.91	2.91	1.94	2.91						2.91	1.94		1.94	1.94		1.94
2.89	1.93	2.89	1.93						1.93	2.89		2.89	1.93		1.93
Overall PO/PSO ATTAINMENT OUT OF 3	2.49	2.49	2.30						2.49	2.49		2.49	2.11		2.11
Overall PO/PSO ATTAINMENT	95.8	95.9	95.8						95.8	95.9		95.9	95.7		95.7

COs Attainment of all Courses

	G	Course	C N	Dir Attair		Overall	Indirect	Target	Over all CO	Attained or Not
S.NO	Course	Code	Course Name	IAE	End Sem	Direct Attainment	Attainment	Fixed	Attainment	Attained
					Se	mester I				
1	C101	HS8151	Communicative English	0.25	2.4	2.65	1.96	1.92	2.51	Attained
2	C102	MA8151	Engineering Mathematics - I	0.36	0.8	1.16	2.62	1.92	1.45	Not Attained
3	C103	PH8151	Engineering Physics	0.26	1.6	1.86	2.53	1.95	1.99	Attained
4	C104	CY8151	Engineering Chemistry	0.24	2.4	2.64	2.60	1.92	2.63	Attained
5	C105	GE8151	Problem Solving and Python Programming	0.24	0.8	1.04	2.70	1.92	1.37	Not Attained
6	C106	GE8152	Engineering Graphics	0.23	2.4	2.63	2.88	1.92	2.68	Attained
7	C107	GE8161	Problem Solving and Python Programming Laboratory	0.60	2.4	3.00	2.63	2.1	2.93	Attained
8	C108	BS8161	Physics and Chemistry Laboratory	0.40	2.4	2.80	2.69	2.1	2.78	Attained

Table : COs Attainment of all Courses for the batch 2018-2022

	Semester II												
9	C109	HS8251	Technical English	0.20	2.4	2.60	1.85	1.92	2.77	Attained			
10	C110	MA8251	Engineering Mathematics - II	0.20	2.4	2.60	2.67	1.92	2.84	Attained			
11	C111	PH8252	Physics for Information Science	0.20	2.4	2.60	2.66	1.92	2.84	Attained			
12	C112	BE8255	Basic Electrical, Electronics and Measurement Engineering	0.20	1.6	1.80	2.67	1.92	1.99	Attained			
13	C113	GE8291	Environmental Science and Engineering	0.20	2.4	2.60	2.59	1.92	2.83	Attained			
14	C114	CS8251	Programming in C	0.60	2.4	3.00	2.38	1.92	2.95	Attained			
15	C115	GE8261	Engineering Practices Laboratory	0.60	2.4	3.00	2.88	2.1	2.98	Attained			
16	C116	CS8261	C Programming Laboratory	0.50	2.4	2.90	2.49	2.1	2.90	Attained			

	Semester III												
17	C201	MA8351	Discrete Mathematics	0.59	2.4	2.99	2.54	1.92	2.90	Attained			
18	C202	CS8351	Digital Principles and System Design	0.58	2.4	2.98	2.63	1.98	2.91	Attained			
19	C203	CS8391	Data Structures	0.60	2.4	3.00	2.59	1.92	2.92	Attained			
20	C204	CS8392	Object Oriented Programming	0.58	2.4	2.98	2.58	1.92	2.90	Attained			
21	C205	EC8395	Communication Engineering	0.59	2.4	2.99	2.59	1.98	2.91	Attained			
22	C206	CS8381	Data Structures Laboratory	0.60	2.4	3.00	2.59	2.1	2.92	Attained			
23	C207	CS8383	Object Oriented Programming Laboratory	0.60	2.4	3.00	2.57	2.1	2.91	Attained			
24	C208	CS8382	Digital Systems Laboratory	0.60	2.4	3.00	2.56	2.1	2.91	Attained			
25	C209	HS8381	Interpersonal Skills/Listening & Speaking	0.60	2.4	3.00	2.53	1.92	2.91	Attained			

	Semester IV												
26	C210	MA8402	Probability and Queuing Theory	0.56	2.4	2.96	2.51	1.92	2.87	Attained			
27	C211	CS8491	Computer Architecture	0.53	2.4	2.93	2.55	1.98	2.85	Attained			
28	C212	CS8492	Database Management Systems	0.56	2.4	2.96	2.52	1.92	2.87	Attained			
29	C213	CS8451	Design and Analysis of Algorithms	0.56	2.4	2.96	2.53	1.92	2.88	Attained			
30	C214	CS8493	Operating Systems	0.60	2.4	3.00	2.54	1.92	2.91	Attained			
31	C215	CS8494	Software Engineering	0.56	2.4	2.96	2.57	1.98	2.88	Attained			
32	C216	CS8481	Database Management Systems Laboratory	0.60	2.4	3.00	2.56	2.1	2.91	Attained			
33	C217	CS8461	Operating Systems Laboratory	0.60	2.4	3.00	2.59	2.1	2.92	Attained			
34	C218	HS8461	Advanced Reading and Writing	0.60	2.4	3.00	2.54	2.1	2.91	Attained			

	Semester V												
35	C301	MA8551	Algebra and Number Theory	0.57	2.4	2.97	2.62	1.92	2.90	Attained			
36	C302	CS8591	Computer Networks	0.58	2.4	2.98	2.60	1.98	2.90	Attained			
37	C303	EC8691	Microprocessors and Microcontrollers	0.51	2.4	2.91	2.51	1.92	2.83	Attained			
38	C304	CS8501	Theory of Computation	0.58	2.4	2.98	2.63	1.92	2.91	Attained			
39	C305	CS8592	Object Oriented Analysis and Design	0.54	2.4	2.94	2.38	1.95	2.82	Attained			
40	C306	OCE551	Air Pollution And Control Engineering	0.57	2.4	2.97	2.58	1.92	2.89	Attained			
41	C307	EC8681	Microprocessors and Microcontrollers Laboratory	0.60	2.4	3.00	2.46	2.1	2.89	Attained			
42	C308	CS8582	Object Oriented Analysis and Design Lab	0.60	2.4	3.00	2.59	2.1	2.92	Attained			
43	C309	CS8581	Networks Laboratory	0.60	2.4	3.00	2.47	2.1	2.89	Attained			

	Semester VI												
44	C310	CS8651	Internet Programming	0.56	2.4	2.96	2.13	1.86	2.79	Attained			
45	C311	CS8691	Artificial Intelligence	0.56	2.4	2.96	2.48	1.95	2.86	Attained			
46	C312	CS8601	Mobile Computing	0.51	1.6	2.11	2.63	1.92	2.21	Attained			
47	C313	CS8602	Compiler Design	0.53	2.4	2.93	2.71	1.92	2.89	Attained			
48	C314	CS8603	Distributed Systems	0.52	1.6	2.12	2.61	1.92	2.22	Attained			
49	C315	IT8076	Software Testing	0.58	2.4	2.98	2.56	1.92	2.90	Attained			
50	C316	CS8661	Internet Programming Lab	0.60	2.4	3.00	2.52	2.1	2.90	Attained			
51	C317	CS8662	Mobile Application Development Lab	0.60	2.4	3.00	2.55	2.1	2.91	Attained			
52	C318	CS8611	Mini Project	0.60	2.4	3.00	2.50	2.1	2.90	Attained			
53	C319	HS8581	Professional Communication	0.60	2.4	3.00	2.54	2.1	2.91	Attained			

Semester VII											
54	C401	MG8591	Principles of Management	0.56	2.4	2.96	2.63	1.98	2.89	Attained	
55	C402	CS8792	Cryptography and Network Security	0.58	2.4	2.98	2.63	1.92	2.91	Attained	
56	C403	CS8791	Cloud Computing	0.55	2.4	2.95	2.63	1.98	2.89	Attained	
57	C404	OCE 751	Environmental and Social Impact Assessment	0.58	1.6	2.18	2.65	1.92	2.28	Attained	
58	C405	HX8001	Professional Readiness For Innovation Employability and Entrepreneurship	0.60	2.4	3.00	2.62	2.1	2.92	Attained	
59	C406	CS8079	Human Computer Interaction	0.58	2.4	2.98	2.64	1.92	2.91	Attained	
60	C407	CS8711	Cloud Computing Laboratory	0.60	2.4	3.00	2.66	2.1	2.93	Attained	
61	C408	IT8761	Security Laboratory	0.60	2.4	3.00	2.69	2.1	2.94	Attained	

Semester VIII											
62	C409	GE8076	Professional Ethics in Engineering	0.58	2.4	2.98	2.62	1.92	2.91	Attained	
63	C410	CS8080	Information Retrieval Techniques	0.58	2.4	2.98	2.66	1.98	2.92	Attained	
64	C411	CS8811	Project Work	0.60	2.4	3.00	2.53	2.1	2.91	Attained	