

COURSE OUTCOMES AND PROGRAM OUTCOMES

During every Academic year, before starting of the semester after completing the subject allocation to the faculties, well defined Course Outcomes were collected from individual subject handlers. The collective COs of all subjects was reviewed and redefined by the Programme Assessment Committee (PAC) during the brainstorming session to evaluate the relevance of COs are specific, measurable and achievable.

In advance lesson plan, lecture modules, Question Bank were prepared, and the strength of correlations were considered based on Cognitive, Affective domain levels for the proper mapping of course contents and Questions with COs and Revised Bloom's Taxonomy (RBT) Levels.

Annexure: 3.1A Mapping of CO sample copy, Question paper Mapping with COs and Taxonomy Level- Sample Mid Question Paper.

Also, to create awareness among faculty members on preparing CO-PO articulation matrix, hands on sessions were conducted. PAC has conducted brainstorming session for the faculty members to detail CO-PO mapping, Rubrics chart. Then, the articulation matrix of CO -PO mapping were carried out based on the AICTE examination reformation policy, using suggested key performance indicators and competencies.

Annexure : 3.1B Brainstorming Session

Annexure : 3.1C Performance Indicator Chart

The formulated assessment plans for the course in the program that brings the clarity to alignment of assessment with learning outcome of the course, cognitive level of learning student is expected to achieve and adapted assessment methods and tools. To evaluate the continues improvement in attainment, students' performance for attainment of course outcomes and hence POs, it is of utmost importance maintains reliable attainment evaluation procedure and proper assessment tools.

The academic batch wise, subject wise, script wise and question wise attainments were calculated with strongly set rubrics. The target is set based on the achievements in PO attainments of previous three years. Further, the target attainments were measured for corrective actions to impact continuous improvements in POs. During these three assessment periods the department has got progressive attainments as presented.

The benchmark rubric is set for the subjects to measure the consistency in attainments.

Annexure : 3.2.1A Batchwise Attainment Sheet

Annexure: 3.2.1B Batchwise Rubric Chart

The record of attainment of course outcomes of all courses with respect to set attainment levels are evaluated for batch wise

and evidences are properly documented. The micro level of assessment is made on question wise, script wise, subject wise mapping attainment has been calculated for the batch of 2017-21, 2016-20 and 2015-19. Benchmarked rubrics were set for attainment calculation in specific to the nature of subjects based on previous achievements. There are three levels of induction programs were conducted to create awareness on CO-PO mapping, Attainments, and assessment processes the department PAC, IQAC and also NPTEL Video Lectures were shared for knowing more about attainment schemes. Hence, all the faculty members were taking the opportunity for learning the process and good understanding.

The complete knowledge transfer is made by the expert members, internal faculty members those who attended the OBE related courses/ completed NPTEL courses/ Workshops & Webinars and also the following key points were discussed during interaction.

Bench mark and rubrics level according to the attainment level of COs table.

CO PO articulation matrix.

Rubrics chart.

Annexure : 3.2.2

Programme Assessment Committee session

Interaction Photos

Attainment of Program Outcomes and Program Specific Outcomes

The Assessment tools and processes were fully adapted batch wise for measuring the attainment of each program outcome and program specific outcomes. The micro level of assessment is made on question wise, script wise, subject wise mapping attainment has been calculated for the batch of 2017-21, 2016-20 and 2015-19. Bench marked rubrics were set for attainment calculation in specific to the nature of subjects based on previous achievements.

List & Description of assessment processes

Assessment Tools	Direct/ Indirect	Remarks
Internal, External Exam	Direct	Conducted by the University / College during each semester for every course.
Assignment	Direct	Two assignments are Assessed during course of study and the corresponding COs are mapped
Oral Exams/Viva Voce	Direct	Viva Voce conducted during lab sessions. End semester course viva is also used to measure the same.
Project Evaluation	Direct	Project Evaluation conducted among the students towards the end of

		their final year.
Alumni Survey	Indirect	Alumni Survey conducted among alumni at the end of each academic year.
Employer survey	Indirect	Employer Survey conducted among employers both as formal and informal mode of communication.
Parent Survey	Indirect	Parent Survey conducted among parents at the end of each academic year.
Graduating Student Exit Survey	Indirect	Student Exit Survey conducted among the graduates.

The assessment process and micro level attainment are carried out in detailed procedure both direct and indirect assessments as mentioned. Bottom up process Script wise Question wise COs POs of each subject and PSOs are mapped with all possible assessment tools for attainment calculation.

Annexure :3.3.1 Overall PO Direct and Indirect Attainment

The Assessment tools and attainment processes were fully adapted batch wise for measuring the attainment and evaluation of each program outcome and program specific outcomes for the batch 2017-21, 2016-20 & 2015-19. PO mapping is intensively analyzed and proper correlation is done with reference to performance indicators chart and rubrics as per the AICTE Examination reformation policy. In the revised evaluation procedure, benchmark target is set based upon the average of the number of students scoring above the class average marks during the previous three years' performances. The evaluation sheet for each course is maintained formula driven Excel sheet to assess the attainments of CO, PO and PSOs for the set target.

Annexure: 3.3.2 Batch wise attainment of PO and PSOs


Annexure:
Annexure: 3.1A Mapping of CO sample copy

Course Code & Name: R16CSE1104 – Data Structures through C++
Upon the completion of the course, Students will be able to:

Course Name	Course outcomes
C213.1	Describe concept of Object Oriented Program. (Apply)
C213.2	Examine the basic operations on linear and non-linear data structures using classes and Templates. (Apply)
C213.3	Classify the various searching and sorting techniques for the given problem domain. (Analyze).
C213.4	Generate the search trees for the given problem data set. (Create)
C213.5	Illustrate the concept of Text pattern matching algorithms. (Apply)
C213.6	Assess the performance of graph traversal techniques. (Evaluate)


CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C213.1	3	1	-	-	3	-	-	-	-	-	1	-	1	1	1
C213.2	3	3	3	-	3	-	-	-	-	-	-	-	1	-	-
C213.3	1	2	3	-	2	-	-	-	-	-	-	-	-	-	-
C213.4	1	1	2	-	3	-	-	-	-	-	2	-	-	-	-
C213.5	3	2	1	-	3	-	-	-	-	-	1	-	2	2	-
C213.6	2	-	-	3	-	-	-	-	-	-	1	-	-	-	-
C213	2.17	1.8	2.25	3	2.8	-	-	-	-	-	1.25	-	1.33	1.5	1

Annexure : 3.1 A Lesson Plan

	SRI INDU COLLEGE OF ENGG & TECH LESSON PLAN (Regulation :R20) Department of Computer Science and Engineering			Prepared on:7.10.21 Rev:1
	Sub. Code & Title		R20CSE2101 Data Structures	
	Academic Year: 2021-22		Year/Sem./Section	II-I/A,B,C,D
	Faculty Name & Designation		Dr. S R. Mugunthan , Professor A. Ramya , Assistant Professor P. Madhavi , Assistant Professor	

Unit/ Item No.	Topic (s)	Book Reference	Page (s)		Teaching Methodology	Proposed No. of Periods	Actual Date of Handled	CO/RBT
			From	To				
UNIT-I								
I	Introduction					18		
1.1	Introduction to Data Structures	R1	3	8	Black board	03		CO1, L1
1.2	Abstract data types	R1	9	15	Black board	01		CO1, L1
1.3	Linear list – singly linked list implementation	R1	193	194	PowerPoint Presentation	02		CO1, L2
1.4	Insertion, deletion and searching operations on linear list	R1	195	212	Black board	01		CO1, L2
1.5	Stacks-Operations, stack applications	R1	80	81	MODEL	02		CO1,L2
1.6	Array and linked representations of stacks	R1	83	89	Black board	01		CO1, L1
1.7	Queues-operations	R1	148	150	Black board	01		CO1, L2
1.8	Queues using array	R1	150	150	Black board	01		CO1,L2
1.9	Queues using Linked list	R1	151	158	Black board	02		CO1,L1
	Review	Signature of the HOD/Coordinator						
UNIT –II								
II	Dictionaries					14		
2.1	Dictionaries: linear list representation	T1	395	395	Black board	01		CO2, L1
2.2	skip list representation	T1			Black board	01		CO 2, L1
2.3	operations - insertion, deletion and searching	T1			Power point Presentation	01		CO 2, L2
2.3	Hash Table Representation: hash functions	R1	397	398	Power point Presentation	01		CO 2, L2
2.4	collision resolution-separate chaining	R1	620	621	Black board	02		CO2, L2
2.5	open addressing-linear probing	R1	623	624	Black board	02		CO 2, L3
2.6	quadratic probing, . double hashing	R1	625	625	Black board	01		CO2, L3
2.7	Rehashing, extendible hashing	R1			Black board	01		CO 2, L2
	Review	Signature of the HOD/Coordinator						

Annexure : 3.1 A Question Bank with mapped COs and Taxonomy Levels

	SRI INDU COLLEGE OF ENGG & TECH QUESTION BANK (Regulation :R20) Department of Computer Science and Engineering			(Regulation: R20) Prepared on: 7.10.21 Rev: 1:
	Sub. Code & Title	R20CSE2101 & Data Structures		
	Academic Year: 2021-22	Year/Sem./Section	II-I/A,B,C,D	
	Faculty Name & Designation	Dr. S R. Mugunthan , Professor A. Ramya , Assistant Professor P. Madhavi , Assistant Professor		

QUESTION BANK WITH BLOOMS TAXONOMY LEVEL (BTL)

(1. Remembering 2. Understanding 3. Applying 4. Analyzing 5. Evaluating 6. Creating)

UNIT I			
PART A			
1 MARK QUESTIONS			
		BT LEVEL	COURSE OUTCOME
1	Define a data structure? Mar 2018	1	CO1
2.	Define Linear data structure? Dec 2016	1	CO1
3.	Describe Non Linear data structure?	2	CO1
4.	Write about abstract data type? Nov 2018	3	CO1
5.	Define Stack? DEC 2012	1	CO1
6.	Describe Queue? Oct 2018	2	CO1
7.	Describe Linked list? Nov 2019	2	CO1
8	Explain the advantages and disadvantages of linked list ?	2	CO1,CO2
9	What are the advantages and disadvantages of arrays? Oct 2016	1	CO1
10	Explain the applications of Linked list? DEC 2017	2	CO1
PART B			
10 MARKS QUESTIONS			
1	Discuss about implementation of single linked list.? Oct 2019	2	CO1
2	Write a program to implement single linked list? Dec 2016	6	CO1,CO2
3	Explain the following data structures a)stack operations b)Queue operations	2	CO1
4	Write about Stack representation using array and linked list? July 2021 Nov 2019	3	CO1,CO2
5	Write about Queue representation using array and linked list? Mar 2021	3	CO1,CO2
6	Write a program to implement stack using Linked list?	6	CO1,CO2
7	Write a program to implement Queue using array? Oct 2020	6	CO1,CO2
8	Explain about Stack applications and Queue applications.	2	CO1,CO2
9	Describe Linked list? Distinguish between array and linked list? Mar 2018	4	CO1
10	Explain about following a) Data structure b) Abstract Data Type c) Linear data structure d) Non Linear Data structure	2	CO1

Annexure : 3.1 A Sample Mid Question Paper

BR-20

SRI INDU COLLEGE OF ENGINEERING & TECHNOLOGY
 (An Autonomous Institution Under 2(f) and 12(B) of UGC Act 1956, New Delhi)
II B.Tech - I Semester - I Mid Term Examinations, December - 2021
(R20CSE2102) COMPUTER ORGANIZATION and ARCHITECTURE
 (For CSE, IT, CS, AIML, DS and CSIT)

D4

Duration: 90Mins

Date: 17-12-2021, Day-2 (AN)

Max Marks: 25M

Section – A

Answer All the questions

(*L1-Remembering, L2-Understanding, L3-Applying, L4-Analyzing, L5-Evaluating, L6-Creating)

1. Define a Micro Program & Micro Instruction.
2. List Computer Registers.
3. What is control address register?
4. What is mapping instruction?
5. List out computer arithmetic operations.

Marks: 5Qx1M = 5M

Blooms Taxonomy Level	Course Outcomes
(L1)	(CO1)
(L1)	(CO1)
(L2)	(CO2)
(L2)	(CO5)
(L1)	(CO3)

Section – B

Answer any FOUR questions

6. Explain in detail about the computer Instructions.
7. Draw the flowchart for interrupt cycle and experiment with it with explanation.
8. Compare the register direct and indirect addressing modes with direct and indirect addressing modes.
9. Evaluate the following program using two address instruction format $X = (A+B) * (C+D)$.
10. Demonstrate the different types of addressing modes with example.
11. Explain the booth's multiplication algorithm with neat sketch of hardware design.

Marks: 4Qx5M = 20M

(L1)	(CO1)
(L1)	(CO1)
(L4)	(CO2)
(L5)	(CO2)
(L3)	(CO2)
(L2)	(CO3)

Annexure: 3.1B Brainstorming Session

S.No	Workshop Name	Date	Participant
1.	CO-PO mapping awareness session	07-03-2021 & 08-03-2021	All the CSE faculty members.



Annexure: C3.1C Performance Indicator Chart

Course Outcome Program Outcomes Mapping using - Competencies-Performance														
Subject Code / Name :														
PO/ CO		Competency		Performance Indicators			CO1	CO2	CO3	CO4	CO5	CO6		
PO1: Engineering Knowledge: apply knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.	1.1	Demonstrate competence in mathematical modeling	1.1.1	Apply mathematical techniques such as linear algebra, differential calculus, differential equations and integral calculus to solve problems.	Y		Y		Y	Y				
			1.1.2	Apply concepts of Complex Variable, probability, linear algebra, vector integration and transformation techniques to model and solve electronics engineering problems.	Y			Y	Y	Y				
	1.2	Demonstrate competence in basic sciences	1.2.1	Apply laws of natural science to an engineering problem	Y		Y	Y						
	1.3	Demonstrate competence in engineering fundamentals	1.3.1	Apply engineering fundamentals	Y		Y		Y	Y				
	1.4	Demonstrate competence in specialized engineering knowledge to the program	1.4.1	Apply electronics engineering concepts to solve engineering problems	Y		Y		Y	Y				
	Average				3	0	2	1	2	2				
	Average Final				3	-	2	1	2	2				
PO2: Problem Analysis: identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.	2.1	Demonstrate an ability to identify and formulate complex engineering problem	2.1.1	Articulate problem statements and identify objectives.	Y				Y					
			2.1.2	Identify engineering systems, variables, and parameters to solve a problem.	Y			Y						
			2.1.3	Identify the mathematical, engineering and other relevant knowledge that applies to a given problem.	Y		Y	Y						
	2.2	Demonstrate an ability to formulate a solution plan and methodology for an engineering problem	2.2.1	Reframe complex problems into interconnected sub-problems.	Y		Y	Y						
			2.2.2	Identify, assemble and evaluate information and	Y		Y	Y						
			2.2.3	Identify existing solution/methods for solving the problem, including forming justified approximations and assumptions.	Y		Y	Y						
			2.2.4	Compare and contrast alternative solution/methods to	Y		Y	Y						
	2.3	Demonstrate an ability to formulate and interpret a model	2.3.1	Combine scientific principles and engineering concepts to formulate models (mathematical or otherwise) of a system or process that is appropriate in terms of applicability and required accuracy.	Y		Y	Y						
			2.3.2	Identify assumptions (mathematical and physical) necessary to allow modeling of a system at the level of accuracy required.	Y		Y	Y						
	2.4	Demonstrate an ability to execute a solution process and analyze results	2.4.1	Apply engineering mathematics to implement solution	Y									
			2.4.2	Analyze and interpret the results using contemporary	Y									
			2.4.3	Identify the limitations of the solution and sources/causes	Y									
			2.4.4	Arrive at conclusions with respect to the objectives.	Y									
	Average				3	0	1	2	0	0				
Average Final				3	-	1	2	-	-					

Annexure: 3.2.1 Batchwise Attainment Sheet

SRI INDU COLLEGE OF ENGINEERING AND TECHNOLOGY DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

COURSE: DISTRIBUTED SYSTEMS
COURSE CODE : R16CSE1143
Course Instructor : G.Natarajasekar, Assistant Professor

A.Y: 2018 - 2019
YEAR/SEM: III / II

Course Outcomes			CO1			CO2			CO3			CO4			CO5			CO6								
			PA	Q6	Q7	MID I			MID II			PA	Q6	Q7	PA	Q6	Q7	PA	Q6	Q7						
Sl. No	Register No.	Name	Question Numbers			AQ1	Q8	Q9	AQ2	Q10	Q11	AQ3	Question Numbers			Question Numbers			Question Numbers							
			Max. Marks	Max. Marks	Max. Marks								Max. Marks	Max. Marks	Max. Marks	Max. Marks	Max. Marks	Max. Marks								
			5	5	5	2	5	5	2	5	5	1	5	5	5	5	5	2	5	5	2	5	5	1	5	5
1	15D41A0532	P VARSHA	3	3	3	2	1	NA	2	5	NA	1	3	5	5	2	5	NA	2	2	1	1	1	1		
2	16D41A0501	A HARSHA TEJA	5	5	5	2	1	NA	2	0	NA	1	5	5	3	2	4	NA	2	2	0	1	1	1		
3	16D41A0502	ABHINAV EMMANUEL PAUL	4	4	NA	1	4	NA	2	4	5	1	4	4	NA	1	4	2	2	1	2	1	1	1		
4	16D41A0503	ADDULA HARITHA	5	5	5	2	4	NA	2	3	NA	1	3	2	5	2	5	NA	2	2	5	1	1	1		
5	16D41A0504	AJMERA PRASHANTH	4	4	4	2	5	NA	2	3	NA	1	3	2	5	2	5	NA	2	2	5	1	1	1		
6	16D41A0505	AKITI AMATI REDDY	3	4	3	2	4	NA	2	3	NA	1	5	4	5	2	5	NA	2	2	4	1	1	1		
7	16D41A0506	ALLAM TEJASWI	5	4	5	2	5	NA	2	5	NA	1	5	4	5	2	5	2	2	2	4	1	1	1		
8	16D41A0507	AMBOTHU LALITHA	5	5	5	2	4	NA	2	3	NA	1	5	4	5	2	5	2	2	2	4	1	1	1		
9	16D41A0508	AMUDALAPALLY ARAVIND	5	5	4	2	3	NA	2	3	NA	1	5	5	4	2	3	1	2	2	4	1	1	1		
10	16D41A0509	ANANTHULA VINAY KUMAR	4	3	3	2	5	NA	2	3	NA	1	3	2	5	2	5	2	2	2	5	1	1	1		
11	16D41A0510	ANUMALA BHOOPATHI	3	3	NA	1	5	NA	2	4	4	1	3	5	5	1	5	2	2	1	1	1	1	1		
12	16D41A0511	ARAVINDH KUMAR NAMPALLI	5	5	5	2	4	NA	2	3	NA	1	3	4	5	2	4	2	2	2	4	1	1	1		
13	16D41A0512	ARPULA SRI RANGA ARAVIND	4	3	NA	2	5	NA	2	3	3	1	4	4	0	2	3	2	2	2	3	1	1	1		
14	16D41A0513	ARUDALA VENKAT KRISHNA	4	5	2	2	4	NA	2	4	NA	1	4	5	5	2	5	2	2	NA	0	1	1	1		
15	16D41A0514	JAGINI SUSHEEL KUMAR	4	3	5	2	3	NA	2	1	NA	1	4	5	5	2	5	2	2	NA	0	1	1	1		
16	16D41A0515	AVINASH REDDY DJBBAKA	5	5	5	2	4	NA	2	3	NA	1	3	3	5	2	4	2	2	NA	5	1	1	1		
17	16D41A0517	BACHU LOHITH	4	4	NA	1	4	NA	2	5	5	1	3	NA	5	1	4	1	2	NA	5	1	1	1		
18	16D41A0518	BADUGU HEMANTH	3	3	5	1	2	NA	2	0	4	1	3	5	5	1	5	2	2	NA	NA	1	1	1		
19	16D41A0519	BALAPURAM NAVEEN KUMAR	4	3	NA	2	5	NA	2	3	3	1	3	NA	4	2	4	2	2	2	5	1	1	1		
20	16D41A0521	BARADHWAJ ANIL SHARMA	3	4	3	2	4	NA	2	3	NA	1	A	5	5	2	5	NA	2	2	4	1	1	1		
21	16D41A0522	BEERAM UDAY KIRAN REDDY	4	5	NA	2	4	NA	2	1	5	1	3	2	5	2	NA	5	2	1	5	1	1	1		
22	16D41A0523	BHUKYA MAHESHWARI	1	NA	5	1	2	NA	2	4	5	1	3	3	5	1	NA	5	2	2	5	1	1	1		
23	16D41A0524	BOINI ANIL KUMAR	2	5	4	2	3	NA	2	3	NA	1	1	5	5	2	5	NA	2	2	3	1	1	1		
24	16D41A0525	BOLLEPALLY HARSHITHA	5	5	4	2	3	NA	2	3	NA	1	5	5	5	2	4	NA	2	2	3	1	1	1		
25	16D41A0526	BOORA MEGHANA	4	0	5	2	1	NA	2	5	NA	1	5	5	5	2	0	2	2	2	2	1	1	1		
26	16D41A0527	BOTHSA INDRANI	5	5	5	2	4	NA	2	3	NA	1	4	5	5	2	5	2	2	2	5	1	1	1		
27	16D41A0528	BUCHANNAGARI MARUTHI REDDY	4	4	4	2	2	NA	1	0	NA	1	4	4	2	2	4	1	1	2	5	1	1	1		
28	16D41A0529	C RAJAVARDHAN REDDY	2	3	NA	2	5	NA	2	4	4	1	5	5	3	2	3	2	2	2	5	1	1	1		
29	16D41A0530	CH MAHA LAKSHMI	4	3	4	2	5	NA	2	5	NA	1	5	5	3	2	3	2	2	1	5	1	1	1		
30	16D41A0531	CHANNA RASHMITHA	5	4	5	2	5	NA	2	5	NA	1	3	3	4	2	1	2	2	2	5	1	1	1		
31	16D41A0532	CHEGURI ANUSHA	5	4	5	2	5	NA	2	5	NA	1	4	5	5	2	5	2	2	2	5	1	1	1		
32	16D41A0533	CHERUKU PAVAN TEJA	5	3	NA	2	5	NA	2	3	2	1	4	4	NA	2	0	2	2	NA	5	1	1	1		
33	16D41A0534	CHERUKUMALLI SAI SESHIDHAR	3	4	3	2	4	NA	2	3	NA	1	5	5	5	1	5	2	2	NA	NA	1	1	1		
34	16D41A0535	CHERUPALLY VAMSHI KUMAR	4	3	2	2	5	NA	2	4	NA	1	3	3	5	2	4	2	2	NA	5	1	1	1		
35	16D41A0538	CHILUMULA RAGHU VAMSHI REDDY	5	4	NA	2	5	NA	2	5	2	1	3	5	5	1	5	1	2	NA	NA	1	1	1		
36	16D41A0539	DHARMAREDDY SUSHMITHA	5	3	NA	1	5	NA	1	3	4	1	5	5	NA	1	2	2	1	NA	2	1	1	1		
37	16D41A0540	CHITTIMALLA SAI PRIYA	5	4	5	2	5	NA	2	5	NA	1	4	5	5	2	5	2	2	2	5	1	1	1		
38	16D41A0541	D KESHAVA	4	5	5	2	4	NA	2	1	NA	1	5	5	3	2	3	NA	2	2	5	1	1	1		
39	16D41A0542	DAGGU SRIKANTH	2	5	4	2	4	NA	2	5	NA	1	5	5	NA	2	1	NA	2	1	5	1	1	1		
40	16D41A0543	DARBAGUTI NAVEENA	5	5	5	2	5	NA	2	5	NA	1	5	5	5	2	5	NA	2	2	5	1	1	1		

SRI INDU COLLEGE OF ENGINEERING AND TECHNOLOGY

Autonomous (DE) Sherqula (V), A.R.Dist
Department of Computer Science and Engineering
Information Security

REMARKS
IF ATTAINMENT % >=90 AND <=99 THEN SIGNIFICANCE LEVEL S.1
IF ATTAINMENT % >=80 AND <=89 THEN SIGNIFICANCE LEVEL S.2
IF ATTAINMENT % >=70 THEN SIGNIFICANCE LEVEL S.3

BATCH: 2016 - 2020
AY: 2018 - 2019
Course Instructor : M.Chinnagiri, Assistant Professor
Year/Sem: IV/I

CO-PO CORRELATION LEVEL MATRIX

CO	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13
1	2	1	-	2	2	-	-	1	-	1	1	-	1
2	1	1	1	-	-	-	-	-	-	-	-	-	-
3	1	1	1	-	-	-	-	-	-	-	-	-	1
4	1	1	1	-	-	-	-	-	-	-	-	2	1
5	2	1	1	-	-	-	-	-	-	-	-	-	-
6	1	1	-	1	1	-	-	-	-	-	2	1	1
W.A	1.07	2.33	2.71	2.88	2.20	1.08	0.92019	1.08	0.92019	1.08	1.93	2.88	1.08

Ex:SEI=0.9%

	ATT	OE	SEE	ACE
CO1	88	3	1.9	2.33
CO2	86	3	1.9	2.33
CO3	87	3	1.9	2.33
CO4	79	3	1.9	2.33
CO5	88	3	1.9	2.33
CO6	61	2.1	1.9	1.96

PROGRAM OUTCOME AND PROGRAM SPECIFIC OUTCOME ATTAINMENT

COs	PO1			PO2			PO3			PO4			PO5			PO6			PO7			PO8			PO9			PO10			PO11			PO12			PO13		
	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3						
CO1	-	2.23	-	2.23	-	-	-	-	-	-	2.23	-	-	-	2.23	-	-	-	-	-	-	-	-	2.23	-	-	-	-	-	2.23	-	-	-	2.23	-	-	2.23	-	-
CO2	2.23	-	-	-	2.23	-	-	-	2.23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
CO3	2.23	-	-	-	2.23	-	-	-	2.23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.23	-	
CO4	2.23	-	-	-	2.23	-	-	-	2.23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.23	-		
CO5	-	2.23	-	-	-	2.23	-	-	-	2.23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
CO6	-	-	1.96	1.96	-	-	-	-	-	-	-	-	-	-	1.96	1.96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.96	-	1.96		
0.37167	0.74333	0.58	0.349167	-	1.115	-	0.74	1.115	-	0.74	-	0.74	0.58	0.32683	-	-	-	-	-	-	-	-	-	0.37167	-	-	-	0.37167	-	-	-	0.37	0.45	-	0.70	-	0.36042		
Attainment	2.09		1.46		1.85		0.74	1.72		0.32		0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37			


COs	COURSE OUTCOME ATTAINMENT					Overall Attainment	
	Target %	End Exam		Internal Assessment			CO Attainment
		Attained %	Attained No.	Attained %	Attained No.		
CO1	99%	19	88	3	2.45	2.37 (Attained)	
CO2	99%	19	86	3	2.45		
CO3	99%	19	87	3	2.45		
CO4	99%	19	79	3	2.45		
CO5	99%	19	88	3	2.45		
CO6	99%	19	61	2.1	2		
Signature							

HEAD OF THE DEPARTMENT

SUBJECT HANDLER

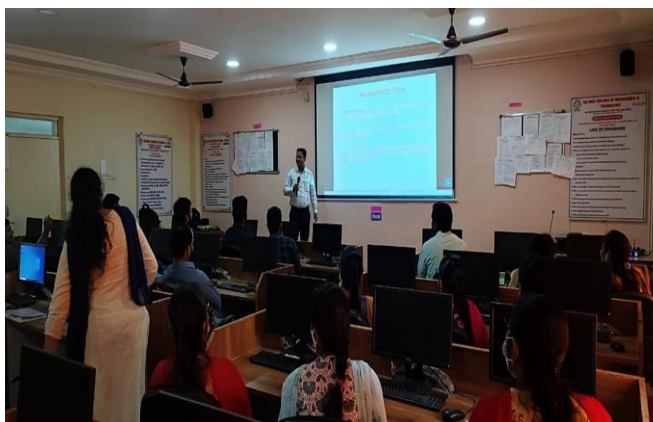
PROGRAM COORDINATOR

Annexure: 3.2.1B Batch wise Rubric Chart

 SAI INDU COLLEGE OF ENGINEERING & TECHNOLOGY (An Autonomous Institution under UGC, New Delhi) Recognized under 2(f) and 12(B) of UGC Act 1956 NBA Accredited, Approved by AICTE and Permanently affiliated to JNTUH Sheriguda (V), Ibrahimpatnam, R.R.Dist, Hyderabad - 501 510																							
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING																							
S. No.	A.Y	Reg.	Batch	Year/ Sem	Sub. Code.	Sub. Name	Total no of Students	Pass	Pass Percen tagr	Fail (< 40%)	C	B	B+	A	A+	O+	Rubrics target for next sem	Students Secured > 60%	No of Students scored > class Average	Class Average	Class Average based on Total no. of Students	SEE	Previous Target
1	2019- 2020	R16	2017- 2021	III/I	R16CSE1110	PPL	228	220	96%	4%	10%	15%	19%	31%	19%	2%	L1=>60-69%, L2=>70-79%, L3->80%	71%	162.9516	68.09	0.7147	2.6	2.2
					R16MTH1106	HVPE		226	99%	1%	2%	9%	17%	36%	29%	7%	L1=>60-79%, L2=>80-89%, L3->90%	88%	200.9364	75.28	0.8813	2.8	2.5
					R16CSE1113	SE		222	97%	3%	17%	28%	31%	14%	6%	2%	L1=>55-74%, L2=>75-84%, L3->85%	80%	182.97	61.22	0.8025	2.5	2.3
					R16CSE1118	CD		223	98%	2%	21%	21%	20%	24%	10%	3%	L1=>60-69%, L2=>70-79%, L3->80%	77%	175.9476	63.47	0.7717	2.7	2.7
					R16CSE1114	OS		220	96%	4%	7%	19%	22%	26%	17%	5%	L1=>50-69%, L2=>70-79%, L3->80%	70%	159.8964	68.54	0.7013	2	2
					R16CSE1139	CN		212	93%	7%	18%	21%	32%	16%	6%	NIL	L1=>55-64%, L2=>65-84%, L3->85%	75%	170.9544	60.2	0.7498	2.5	2.3
					R16CSE1143	DS		220	96%	4%	7%	9%	28%	26%	23%	4%	L1=>55-64%, L2=>65-84%, L3->85%	80%	183.7496	70	0.8024	2.7	2.4
				III/II	R16CSE1117	IS	205	90%	10%	7%	24%	36%	17%	5%	NIL	L1=>65-74%, L2=>75-84%, L3->85%	82%	188.7876	60.25	0.8244	2.6	2.1	
					R16CSE1116	OOAD	213	93%	7%	4%	14%	27%	24%	17%	7%	L1=>60-69%, L2=>70-79%, L3->80%	75%	171.7042	68.35	0.7498	2.5	2.2	
					R16CSE1121	STM	214	93%	7%	5%	17%	27%	29%	14%	1%	L1=>55-64%, L2=>65-74%, L3->75%	71%	162.6129	65.82	0.7101	2.6	2.2	
					R16HAS1103	MEFA	213	93%	7%	14%	25%	19%	20%	11%	5%	L1=>60-69%, L2=>70-79%, L3->80%	78%	179.7192	62.64	0.7848	2.8	2.4	
					R16CSE1119	WT	209	91%	9%	9%	28%	27%	20%	7%	NIL	L1=>65-74%, L2=>75-84%, L3->85%	82%	187.78	61.35	0.82	2.7	2.3	
					R16CSE1110	PPL	213	93%	7%	14%	25%	22%	16%	14%	2%	L1=>65-74%, L2=>75-84%, L3->85%	79%	181.9405	62.47	0.7945	2.4	2.1	
					R16MTH1106	OR	195	85%	15%	12%	21%	24%	14%	12%	3%	L1=>60-69%, L2=>70-79%, L3->80%	73%	167.9715	60.03	0.7335	2.3	2.1	
2	2018- 2019	R16	2016 - 2020	III/I	R16CSE1113	SE	229	221	97%	3%	11%	17%	24%	22%	16%	5%	L1=>50-59%, L2=>60-69%, L3->70%	67%	154.3918	66.66	0.6742	2.7	2.3
					R16CSE1118	CD		194	85%	15%	17%	21%	17%	16%	14%	0%	L1=>55-64%, L2=>65-74%, L3->75%	68%	154.9414	58.87	0.6766	2.3	2.5
					R16CSE1114	OS		212	93%	7%	10%	22%	24%	20%	12%	5%	L1=>50-59%, L2=>60-69%, L3->70%	61%	138.9801	64.05	0.6069	2.1	2
					R16CSE1139	CN		218	95%	5%	9%	19%	24%	27%	14%	2%	L1=>55-64%, L2=>65-74%, L3->75%	67%	152.9491	66.1	0.6679	2.3	2.4
					R16CSE1143	DS		221	96%	4%	8%	13%	28%	30%	13%	4%	L1=>60-69%, L2=>70-79%, L3->80%	75%	172.5	68.13	0.75	2.5	2.3
					R16CSE1117	IS		224	97%	3%	14%	23%	22%	23%	12%	2%	L1=>50-59%, L2=>60-69%, L3->70%	59%	135.7	64.54	0.59	1.9	2
					R16CSE1116	OOAD		229	100%	0%	7%	15%	22%	25%	12%	10%	L1=>60-69%, L2=>70-79%, L3->80%	78%	178.802	72.43	0.7774	2.8	2.3
				III/II	R16CSE1121	STM	229	100%	0%	2%	16%	26%	31%	22%	3%	L1=>60-79%, L2=>80-89%, L3->90%	82%	187.933	71.42	0.8171	2.2	1.9	
					R16HAS1103	MEFA	223	97%	3%	11%	22%	29%	23%	10%	1%	L1=>55-64%, L2=>65-74%, L3->75%	63%	145.958	64.57	0.6346	1.8	1.6	
					R16CSE1119	WT	207	90%	10%	8%	23%	33%	21%	3%	NIL%	L1=>50-59%, L2=>60-69%, L3->70%	58%	133.952	60.4	0.5824	1.8	1.5	
					(R14CSE1110)	PPL	208	92%	8%	15%	18%	24%	19%	10%	6%	L1=>65-74%, L2=>75-84%, L3->85%	76%	173.4507	63.84	0.7641	2.1	2.2	
					R14MTH1106	OR	203	89%	11%	12%	14%	19%	18%	20%	6%	L1=>55-74%, L2=>75-84%, L3->85%	77%	174.9489	64.69	0.7707	2.2	2	
					R14CSE1113	SE	209	92%	8%	16%	19%	22%	17%	15%	4%	L1=>60-69%, L2=>70-79%, L3->80%	76%	172.6562	63.6	0.7606	2.6	2.3	
					R14CSE1118	CD	211	93%	7%	15%	23%	25%	19%	12%	NIL	L1=>55-74%, L2=>75-84%, L3->85%	79%	178.195	61.77	0.785	2.3	2	
3	2017- 2018	R14	2015 - 2019	III/I	R14CSE1114	OS	227	187	82%	18%	9%	17%	20%	18%	15%	3%	L1=>60-69%, L2=>70-79%, L3->80%	73%	165.6192	60.8	0.7296	2.3	2.1
					R14CSE1139	CN		211	93%	7%	12%	23%	26%	23%	9%	NIL	L1=>60-79%, L2=>80-89%, L3->90%	81%	184.1878	62.06	0.8114	2.1	2.1
					R14CSE1143	DS		213	95%	5%	2%	10%	19%	28%	30%	6%	L1=>60-79%, L2=>80-89%, L3->90%	83%	186.75	72.7	0.83	2.3	2.1
					R14CSE1117	IS		200	89%	11%	14%	19%	21%	20%	11%	4%	L1=>60-69%, L2=>70-79%, L3->80%	75%	168.75	61.79	0.75	2.5	2
					R14CSE1116	OOAD		207	92%	8%	15%	17%	28%	25%	7%	nil	L1=>55-74%, L2=>75-84%, L3->85%	77%	173.25	61.48	0.77	2.2	1.9
					R14CSE1121	STM		210	93%	7%	10%	25%	26%	21%	8%	3%	L1=>60-79%, L2=>80-89%, L3->90%	83%	186.75	63.84	0.83	2.3	1.9
					R14HAS1103	MEFA		217	96%	4%	16%	26%	27%	16%	8%	3%	L1=>60-79%, L2=>80-89%, L3->90%	80%	180	62.86	0.8	2	2.2
				III/II	R14CSE1119	WT	201	89%	11%	11%	16%	25%	17%	15%	5%	L1=>55-74%, L2=>75-84%, L3->85%	78%	175.5	63.48	0.78	2.3	2	

Annexure: 3.2.2 PAC Interaction Session Photos

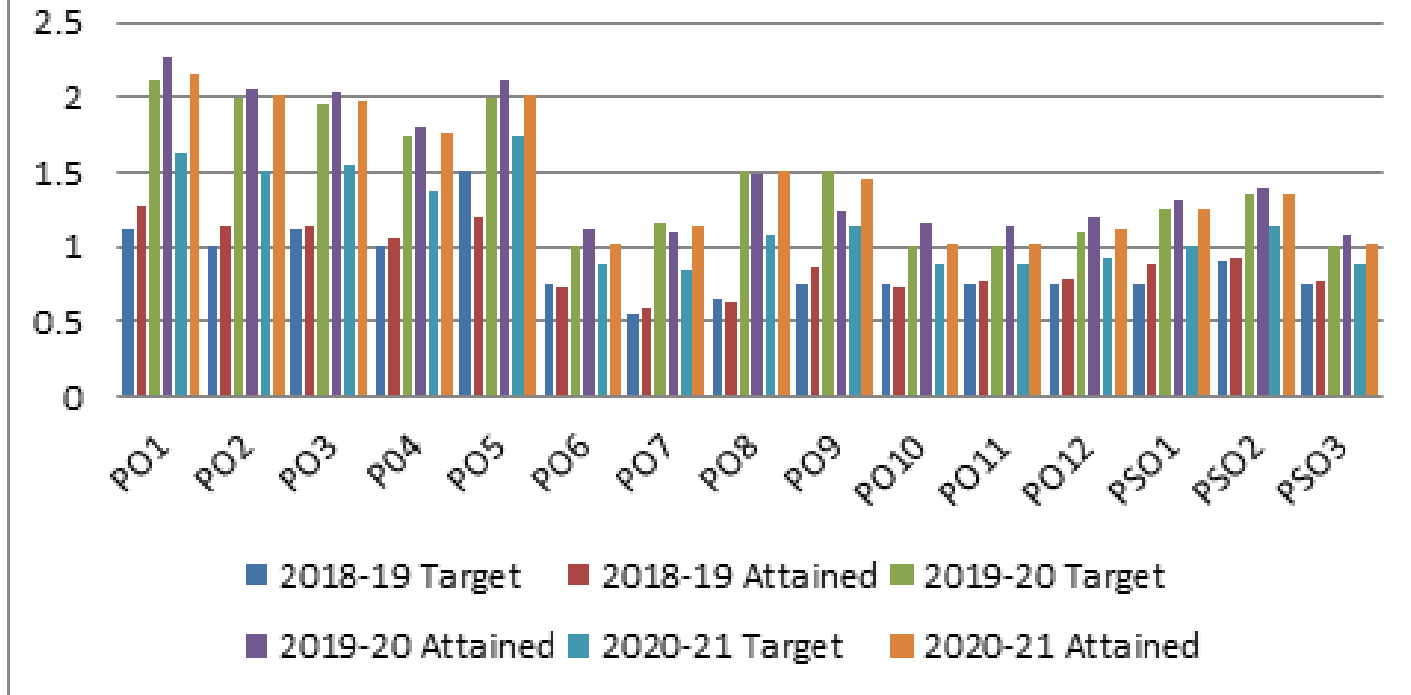
S.No	Interaction Session	Date	Participant
1.	Programme Assessment Committee interaction session	20-02-2020 & 21-02-2020	PAC Committee members and all the CSE faculty members.



Annexure 3.3 Batch wise attainment of PO and PSOs

A.Y	PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
2020-21	Target	2.30	2.10	2.20	1.90	2.20	1.20	1.20	1.50	1.30	1.20	1.30	1.20	1.40	1.50	1.20
	Attained	2.21	2.10	2.05	1.87	2.10	1.07	1.23	2.66	1.22	1.15	1.21	1.16	1.31	1.37	1.05
2019-20	Target	2.12	2.00	1.95	1.75	2.00	1.00	1.15	1.50	1.50	1.00	1.00	1.10	1.25	1.35	1.00
	Attained	2.26	2.05	2.03	1.80	2.11	1.11	1.10	1.48	1.24	1.15	1.13	1.20	1.31	1.40	1.08
2018-19	Target	1.12	1	1.12	1	1.5	0.75	1	0.65	1	1.2	1	1.5	1.1	1	1.5
	Attained	1.27	1.14	1.14	1.06	1.19	0.73	0.60	0.63	0.86	0.73	0.76	0.79	0.88	0.93	0.77

Batchwise Attainments



Annexure :3.3.1 Overall PO Direct and Indirect Attainment
PO DIRECT ATTAINMENT

		II – I Semester																
C211	R16MTH1105 – Probability and Statistics	C211	1.38	1.71	1.7	1.46	0.83	-	-	-	-	-	-	0.83	-	0.27	0.27	
C212	R16CSE1103 – Mathematical Foundations of Computer Science	C212	1.62	1.12	1.3	0.97	1.58	-	-	-	-	-	-	-	0.27	-	0.27	
C213	R16CSE1104 – Data Structures through C++	C213	2.16	2.16	2.16	1.08	1.8	-	-	-	-	-	1.08	-	1.08	0.36	0.36	
C214	R16ECE1136 – Digital Logic Design	C214	1.63	1.52	1.53	1.65	1.31	-	-	-	0.81	0.25	-	-	0.26	0.26	0.85	
C215	R16ECE1102 – Electronic Devices and Circuits	C215	1.49	1.82	0.9	0.92	1.84	-	-	-	0.29	0.29	0.3	-	0.89	0.59	0.9	
C216	R16EEE1130 – Basic Electrical Engineering	C216	1.31	1.43	0.83	0.87	1.65	-	-	-	-	0.27	-	-	0.53	0.53	0.87	
C21L7	R16EEE1212– Basic Electrical Engineering Lab	C21L7	3	2.5	2.5	1	2.5	-	-	-	-	-	-	-	1	1.5	0.33	
C21L8	R16CSE1203 – Data Structures through C++ Lab	C21L8	2.5	1.5	1.5	3	2.5	-	-	-	-	-	1.5	-	3	3	1	
		II – II Semester																
C221	R16CSE1105 – Computer Organization	C221	1.75	1.69	1.38	1.25	1.18	-	-	-	-	-	0.94	0.31	0.31	0.31	0.31	
C222	R16CSE1106 – Database Management Systems	C222	2.65	2.26	2.22	2.24	1.3	-	-	-	0.89	1.3	0.89	0.86	0.9	2.07	0.78	
C223	R16CSE1107 – Java Programming	C223	1.49	0.6	0.6	1.81	0.89	-	-	-	0.6	0.89	0.89	0.6	0.89	0.9	1.2	
C224	R16HAS1102 – Environmental Studies	C224	1.48	1.46	0.9	1.32	1.7	0.54	0.59	-	-	0.83	0.87	0.6	0.89	0.86	0	
C225	R16CSE1108 – Formal Languages and Automata Theory	C225	1.87	1.55	0.94	1.85	1.86	-	-	-	0.94	0.62	0.62	0.62	0.93	0.93	0.31	
C226	R16CSE1109 – Design and Analysis of Algorithms	C216	0.98	1.02	1.02	0.74	-	-	-	-	-	-	-	0.74	0.96	0.62	0.55	
C22L7	R16CSE1204 – Java Programming Lab	C22L7	1	1	-	2	1	-	-	-	-	1	-	-	1	0.5	1	
C22L8	R16CSE1205 – Database Management Systems Lab	C22L8	2	1.5	1.5	-	2.5	-	-	-	-	1	0.5	0.5	2.5	2	2	
		III – I Semester																
C311	R16CSE1110 - Principles of Programming Languages	C311	1.84	2.21	2.21	1.82	1.84	-	-	-	-	-	-	-	-	0.37	-	
C312	R16MTH1106 - Human Values & Professional Ethics	C312	2.15	2.66	1.26	0.93	0.44	0.93	0.93	2.61	0.46	0.93	-	-	-	-	-	
C313	R16CSE1113 - Software Engineering	C313	2.03	1.77	2.12	1.09	1.79	-	-	-	1.07	1.07	0.35	0.36	-	0.36	0.99	
C314	R16CSE1118 - Compiler Design	C314	1.34	1.26	1.26	0.78	0.81	-	-	-	-	0.29	0.29	-	0.29	-	-	
C315	R16CSE1114 - Operating Systems	C315	2.17	1.8	1.74	-	1.77	-	-	-	0.37	0.37	-	-	0.37	-	0.37	
C316	R16CSE1139 - Computer Networks	C316	2.06	2.51	2.51	1.29	2.09	-	-	-	-	-	-	-	-	0.43	0.4	
C31L7	R16CSE1206 - Operating systems Lab	C31L7	2.5	1.5	1.5	1.5	3	-	-	-	-	-	-	-	1.5	-	1	
C31L8	R16CSE1207 - Compiler Design Lab	C31L8	2.5	1.5	1.5	3	2.5	-	-	-	1	-	-	0.5	0.5	-	-	
		III – II Semester																
C321	(R16CSE1143) - Distributed Systems	C321	1.68	1.74	2.13	1.29	2.12	-	-	-	-	0.53	-	-	0.36	-	-	
C322	(R16CSE1117) - Information Security	C322	1.72	1.29	2.15	-	1.29	0.43	-	-	-	-	-	0.86	0.86	-	-	
C323	(R16CSE1116) -Object Oriented Analysis and Design	C323	1.82	0.73	0.73	1.11	1.83	-	-	-	-	-	-	-	-	0.37	-	
C324	(R16CSE1121) - Software Testing Methodologies	C324	1.54	0.61	0.6	1.01	1.61	-	-	-	0.67	0.67	0.67	-	-	0.27	-	
C325	(R16CSE1103) - Managerial Economics Financial Analysis	C325	1.97	2.03	2.09	1.12	-	-	-	-	-	0.78	-	-	-	-	-	
C326	R16CSE1119) - Web Technologies	C326	1.91	1.99	2.03	1.1	1.16	-	-	-	0.77	0.77	0.81	-	0.38	-	0.37	
C32L7	(R16CSE1215) - Case Tools & Web Technologies LAB	C32L7	2.5	2.5	2.5	1.5	2.5	-	-	-	-	1	1	1	1	1	-	0.66
C32L8	(R16HAS1202) Advanced English language communication skills la	C32L8	2.5	2.5	2.5	-	-	-	-	-	1	1	1.5	1.5	-	-	-	
		IV – I Semester																
C411	(R16CSE1120) - Linux Programming	C411	1.56	1.56	1.56	1.25	1.88	-	-	-	-	-	0.31	-	0.94	0.94	-	
C412	(R16CSE1128) - Design Patterns	C412	1.9	2.86	2.85	0.95	1.9	-	-	-	-	-	0.47	-	0.47	1.43	0.47	
C413	(R16CSE1122) - Data Warehousing and Data Mining	C413	1.36	2.26	2.72	2.26	2.72	-	-	-	-	-	0.45	0.45	1.36	1.36	0.45	
C414	(R16CSE1125) - Cloud Computing	C414	2.26	0.9	2.26	2.26	1.36	-	-	-	-	0.45	-	0.45	1.36	1.36	0.75	
C415	(R16CSE1127) - Mobile Computing	C415	2.03	2.03	2.03	2.03	2.44	0.4	-	-	-	0.4	-	0.4	1.22	0.81	0.4	
C416	(R16CSE1112) - COMPUTER FORENSICS	C416	0.93	1.39	2.3	1.84	0.93	0.46	-	-	-	-	-	-	0.91	1.37	0.46	
C41L7	(R16CSE1208) - Linux Programming lab	C41L7	1.29	1.29	1.29	2.58	1.72	-	-	-	-	-	1.29	1.29	1.29	1.29	0.86	
C41L8	(R16CSE1216) - Data Warehousing and Mining LAB	C41L8	3	2.5	2.5	2.5	3	-	-	-	-	-	-	1.5	1.5	1	0.33	
		IV – II Semester																
C421	(R16HAS1104) - Management Science	C421	-	2.86	1.43	2.86	-	1.43	-	-	-	-	-	-	-	-	-	0.47
C422	(R16CSE1135) - Multimedia & Rich Internet Applications	C422	2.79	2.32	2.79	0.93	2.32	-	-	-	-	1.39	-	-	0.46	1.39	0.46	
C423	(R16CSE1136) - AD hoc and Sensor Networks	C423	2.86	2.86	2.38	1.43	2.86	-	-	-	-	-	-	0.47	-	1.43	0.47	

PO INDIRECT ATTAINMENT

SRI INDU COLLEGE OF ENGINEERING AND TECHNOLOGY															
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING															
Summary of PO Attainment based on Indirect method															
ACADEMIC YEAR 2020-2021															
ALUMNI FEEDBACK :: TOTAL -145															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
1	28	22	19	29	39	51	26	18	23	35	23	47	32	12	24
2	32	30	57	33	43	29	22	44	48	24	45	24	17	23	18
3	85	93	69	83	63	65	97	83	74	86	77	74	96	110	103
Total Score	347	361	340	344	314	304	361	355	341	341	344	317	354	388	369
Weighted Average	2.39	2.49	2.34	2.37	2.17	2.10	2.49	2.45	2.35	2.35	2.37	2.19	2.44	2.68	2.54
EXIT SURVEY :: TOTAL NO.OF STUDENTS-195															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
1	53	38	49	67	39	48	89	52	43	32	44	93	55	20	28
2	48	82	51	60	51	86	49	72	56	93	64	45	68	82	90
3	94	75	95	68	105	61	57	71	96	70	87	57	72	93	77
Total Score	431	427	436	391	456	403	358	409	443	428	433	354	407	463	439
Weighted Average	2.21	2.19	2.24	2.01	2.34	2.07	1.84	2.10	2.27	2.19	2.22	1.82	2.09	2.37	2.25
EMPLOYER FEEDBACK :: TOTAL -25															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
1	15	10	14	9	13	8	11	10	5	8	14	3	12	4	7
2	7	15	3	11	10	7	10	8	9	13	2	10	8	12	9
3	3	0	8	5	2	10	4	7	11	4	9	12	5	9	9
Total Score	38	40	44	46	39	52	43	47	56	46	45	59	43	55	52
Weighted Average	1.27	1.33	1.47	1.53	1.30	1.73	1.43	1.57	1.87	1.53	1.50	1.97	1.43	1.83	1.73
PARENTS FEEDBACK :: TOTAL -40															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
1	15	15	12	13	15	12	15	10	11	17	15	14	16	14	12
2	16	12	14	16	17	13	12	12	14	11	12	13	12	13	14
3	9	13	14	11	8	15	13	18	15	12	13	13	12	13	14
Total Score	74	78	82	78	73	83	78	88	84	75	78	79	76	79	82
Weighted Average	1.85	1.95	2.05	1.95	1.83	2.08	1.95	2.20	2.10	1.88	1.95	1.98	1.90	1.98	2.05
PROFESSIONAL SOCIETY MEMBERS FEEDBACK :: TOTAL -10															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
1	2	2	2	3	4	1	3	1	2	2	3	1	2	2	2
2	3	4	3	2	4	1	2	7	6	4	4	3	3	4	1
3	5	4	5	5	2	8	5	2	2	4	3	6	5	4	7
Total Score	23	22	23	22	18	27	22	21	20	22	20	25	23	22	25
Weighted Average	2.30	2.20	2.30	2.20	1.80	2.70	2.20	2.10	2.00	2.20	2.00	2.50	2.30	2.20	2.50
Summary of attainment based on indirect method															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
ASSESSMENT MODES	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
ALUMNI FEEDBACK	2.39	2.49	2.34	2.37	2.17	2.10	2.49	2.45	2.35	2.35	2.37	2.19	2.44	2.68	2.54
EXIT SURVEY	2.21	2.19	2.24	2.01	2.34	2.07	1.84	2.10	2.27	2.19	2.22	1.82	2.09	2.37	2.25
EMPLOYER FEEDBACK	1.27	1.33	1.47	1.53	1.30	1.73	1.43	1.57	1.87	1.53	1.50	1.97	1.43	1.83	1.73
PARENTS FEEDBACK	1.85	1.95	2.05	1.95	1.83	2.08	1.95	2.20	2.10	1.88	1.95	1.98	1.90	1.98	2.05
PROFESSIONAL SOCIETY	2.30	2.20	2.30	2.20	1.80	2.70	2.20	2.10	2.00	2.20	2.00	2.50	2.30	2.20	2.50
AVERAGE	2.00	2.03	2.08	2.01	1.89	2.13	1.98	2.08	2.12	2.03	2.01	2.09	2.03	2.21	2.22

PO Overall Attainment (Batch 2017-2021)

A.Y	PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
	Target	2.30	2.10	2.20	1.90	2.20	1.20	1.20	1.50	1.30	1.20	1.30	1.20	1.40	1.50	1.20
2020-21	Attained	2.21	2.10	2.05	1.87	2.10	1.07	1.23	2.66	1.22	1.15	1.21	1.16	1.31	1.37	1.05