

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

- Attainment levels of the programme outcomes and course outcomes of the course are calculated for R2017, R2020 and R2021 autonomous curriculum which is shown in below table

S.No	Direct Attainment (80%)		
	Assessment tools	Evaluation methods	Weightage
1	Internal Assessment for theory courses	<ol style="list-style-type: none"> <li>1. Periodical cycle tests are conducted as per academic calendar.</li> <li>2. Assignments are given in solving tutorial problems and seminar presentation.</li> <li>3. Performance of the students is evaluated through copyrighted in-house PO-CO attainment sheet.</li> </ol>	Weightage is given as 20% of Direct Attainment for R-2017 whereas 40% of Direct Attainment for R-2020 and R-2021
2	Internal Assessment for laboratory courses	<ol style="list-style-type: none"> <li>1. Through framed rubrics.</li> <li>2. Viva questions</li> <li>3. Model examinations</li> </ol>	For laboratory courses weightage is 75% of continuous assessment and 25% of Model lab for R2017, KCET R2020 and KCET R2021.
3	Internal Assessment for Project	<ol style="list-style-type: none"> <li>1. Through framed rubrics</li> <li>2. Periodical project reviews</li> <li>3. Viva questions</li> </ol>	Weightage is given as 20% for 1 <sup>st</sup> review, 34% for 2 <sup>nd</sup> review, 46% for 3 <sup>rd</sup> review.
5	End semester examinations	Evaluating the semester examination results issued by KCET autonomous exam cell.	<p><b>R 2017</b> Weightage is given as 80% of Direct Attainment for R-2017 for theory and laboratory courses.</p> <p><b>KCET R2020</b> Weightage is given as 60%, 50%, 50%, 60% of</p>

			<p>Direct Attainment for theory, laboratory, project work, theory cum laboratory courses respectively</p> <p><b>KCET R2021</b></p> <p>Weightage is given as 60%, 40%, 60%, 50% of Direct Attainment for theory, laboratory, project work, theory cum laboratory courses respectively</p>
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S.No	Indirect Attainment (20%)		
	Assessment tools	Evaluation methods	Weightage
1	Co-curricular activities	<p>Through:</p> <ol style="list-style-type: none"> <li>1. Workshop participation</li> <li>2. Symposium participation</li> <li>3. Conference presentation</li> <li>4. Symposium presentation / achievement</li> <li>5. Inplant training / internships</li> <li>6. Journal publications</li> </ol>	Weightage is given as 50% of Indirect Attainment for R 2017, KCET R 2020 and KCET R 2021
2	Graduate exit survey	<ol style="list-style-type: none"> <li>1. Exit feedback forms are used for collecting the feedback from the students at the time of completion of the programme.</li> <li>2. The feedbacks and the suggestions are analysed and taken into consideration for continuous improvement.</li> </ol>	Weightage is given as 25% of Indirect Attainment for R 2017, KCET R 2020 and KCET R 2021
3	Student feedback	The feedback is collected from all the students of concerned department for the respective subjects at the start and end of every semester	Weightage is given as 25% of Indirect Attainment for R 2017, KCET R 2020 and KCET R 2021





**(An Autonomous Institution - AFFILIATED TO ANNA UNIVERSITY, CHENNAI)**

**S.P.G.Chidambara Nadar - C.Nagammal Campus**

**S.P.G.C. Nagar, K.Vellakulam – 625 701 (Near VIRUDHUNAGAR).**



## **NAAC – CRITERION 2**

### **Teaching – Learning & Evaluation**

**2.6.2 Attainment of Programme outcomes and course outcomes are evaluated by the institution during the year 2022-2023**

**[Proofs]**

## INDEX

S. No.	Year	Page Number
1	Proof of Copyright for CO – PO attainment sheet	1
2022-2023		
2	Sample proof for 1 <sup>st</sup> year	2-7
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4	Sample proof for 3 <sup>rd</sup> year	26-41
5	Sample proof for 4 <sup>th</sup> year	42-46



## Extracts from the Register of Copyrights

Dated : 02/12/2019

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2. Name, address and nationality of the applicant : SAKTHIVEL MURUGAN.R , 20-B, SIVASAMY NADAR STREET,  
ARUPPUKOTTAI.-626101  
INDIAN  
THANGA KASI RAJAN.S , NO 13, RENGAN ASARI LANE, THERKU  
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INDIAN
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4. Class and description of the work : COMPUTER SOFTWARE WORK
5. Title of the work : PO-CO ATTAINMENT CALCULATION SHEET FOR VARIOUS  
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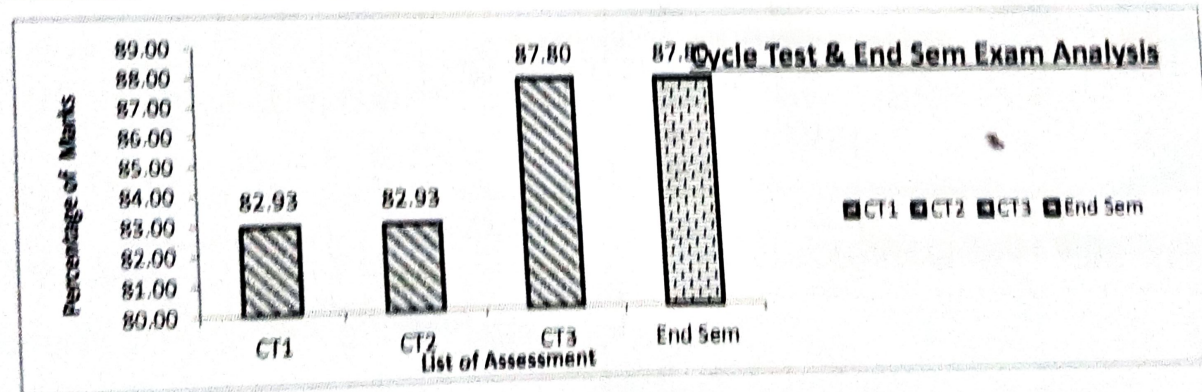
Subject Name	Matrices and Differential Calculus
Subject Code	MA2101
Year and Branch	I-Year & BT
Subject Handled by	Mrs.M.Geetha

Cycle Test No	1	2	3
Date of Exam	12/01/2023	19/01/2023	26/01/2023

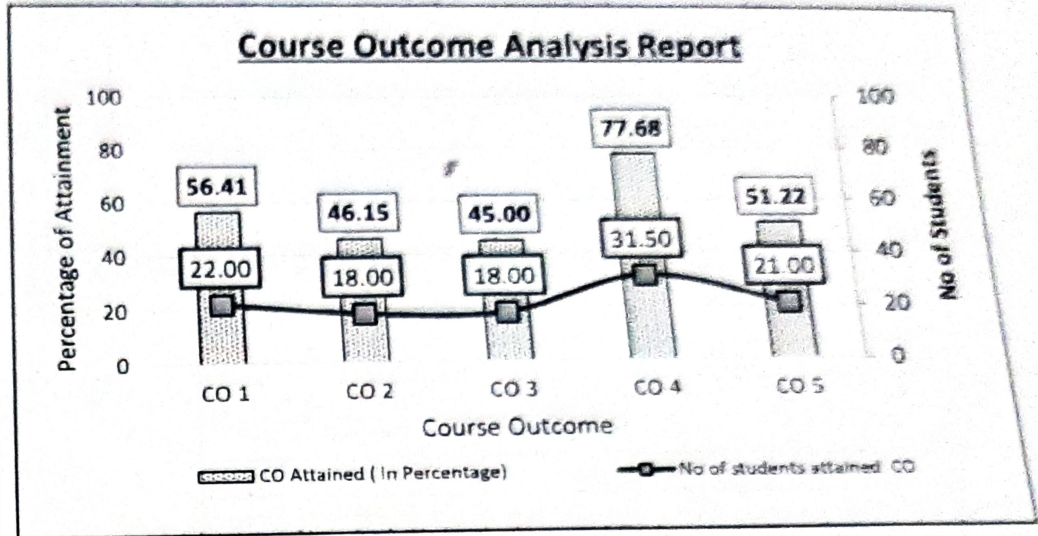
Exam Analysis	CT1	CT2	CT3	End Sem
Total No of Students	41	41	41	41
No of Students Pass	34	34	36	36
No of Students Fail	5	6	5	5
No of Students Absent	2	1	0	0
Total Attended	39	40	41	41
Maximum Mark/ Grade	98	100	98	A+
Average Mark/ GPA	59.38	63.65	64.29	6.49

Assessment Analysis	CT1	CT2	CT3	End Sem Result
No. of students above 90	3	7	3	O → 0
No. of students 80-89	7	4	7	A+ → 3
No. of students 70-79	2	7	5	A → 13
No. of students 60-69	6	3	13	B+ → 15
No. of students 50-59	16	13	8	B → 5
No. of students 40-49	0	0	0	U → 5
No. of students 30-39	0	1	2	→ 0
No. of students 20-29	3	5	2	→ 0
No. of students 10-19	1	0	0	→ 0
No. of students 0-9	1	0	1	→ 0

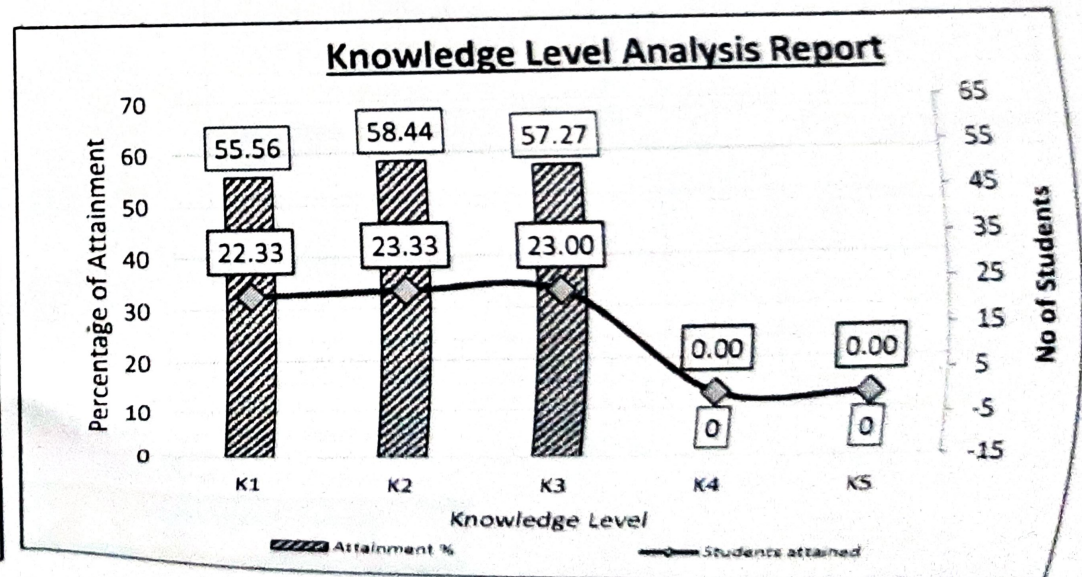
Pass Percentage (Based on Strength)	82.93	82.93	87.80	87.80
Pass Percentage (Students Attended)	87.18	85.00	87.80	87.80



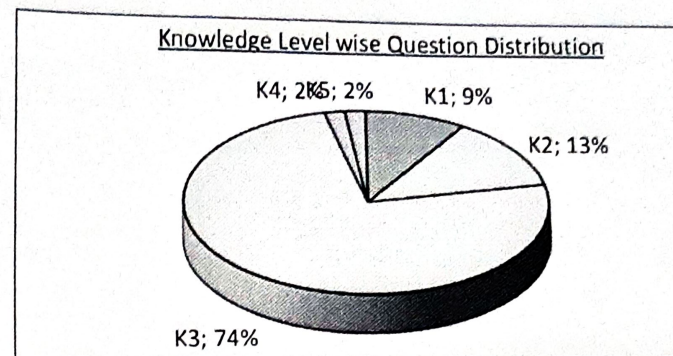
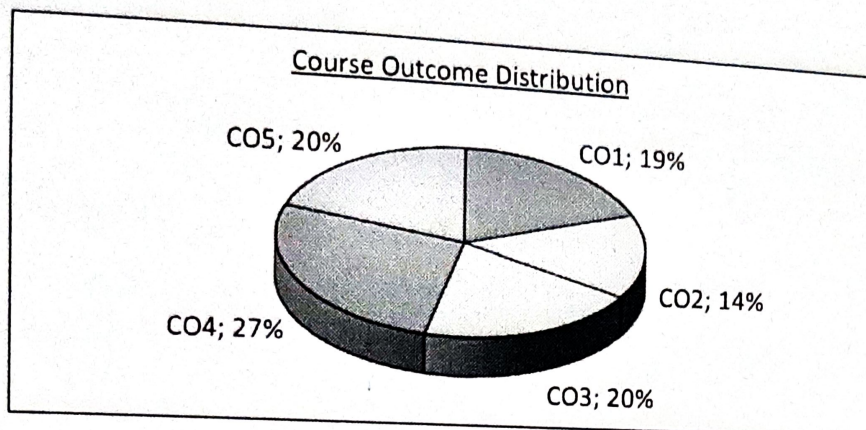
Overall Course Outcome wise Analysis- Cycle Test					
Particulars	CO 1	CO 2	CO 3	CO 4	CO 5
Secured Full Mark	1	2	2	10	1
Secured Above Average	26	20	24	59	27
Secured Below Average	12	14	14	10	13
Secured Zero	0	3	0	2	0
CO Alloted	1148	902	1230	1640	1230
CO Alloted (By %)	100	100	100	100	100
CO Attained	699.5	458.5	698.5	1184	708.5
CO Attained ( In Percentage)	60.93	50.83	56.79	72.2	57.6
Maximum per CO	28	22	30	40	30
60% Max of CO	16.8	13.2	18	24	18
No of students attained	22	18	18	31.5	21
CO Attainment	56.41	46.1538	45	77.6829	51.22
Attainment Level	1	0	0	2	0



Knowledge Level wise Analysis					
Particulars	K1	K2	K3	K4	K5
Secured Full Mark	55	18	5	NIL	NIL
Secured Above	35	71	84	NIL	NIL
Secured Below	16	22	31	NIL	NIL
Secured Zero	14	9	0	NIL	NIL
K Level Alloted	410	820	1640	0	0
K Level Attained	241.5	484	930	0	0
Attainment %	58.9	59.024	56.707	NA	NA
Maximum per KL	10	19	120	0	0
60% Max	6	11.4	72	0	0
Students attained	22.33	23.333	23	NIL	NIL
Attainment %	55.56	58.44	57.27	NA	NA
Attainment Level	0	0	0	NA	NA



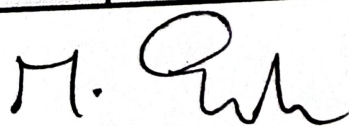




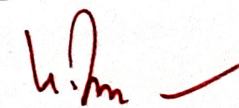
CO-PO - Attainment - All Cycle Test														
CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2
C102.1	1.00	0.67	0.33	-	-	-	-	-	-	-	-	-	0.33	-
C102.2	0.00	0.00	0.00	-	-	-	-	-	-	-	-	-	0.00	-
C102.3	0.00	0.00	0.00	-	-	-	-	-	-	-	-	-	0.00	-
C102.4	2.00	1.33	0.67	-	-	-	-	-	-	-	-	-	0.67	-
C102.5	0.00	0.00	0.00	-	-	-	-	-	-	-	-	-	0.00	-
<b>C102</b>	<b>0.60</b>	<b>0.40</b>	<b>0.20</b>	-	-	-	-	-	-	-	-	-	<b>0.20</b>	-

Direct Attainment Level for the course MA2101-Matrices and Differential Calculus														
CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2
End Sem	3.00	2.00	1.00	-	-	-	-	-	-	-	-	-	1.00	-
Internal	1.08	0.72	0.36	-	-	-	-	-	-	-	-	-	0.36	-
<b>Direct Attainment</b>	<b>2.23</b>	<b>1.49</b>	<b>0.74</b>	-	-	-	-	-	-	-	-	-	<b>0.74</b>	-

Direct Attainment
<b>1.30</b>

  
 Staff Incharge

  
 Chairperson

  
 HoD

# KAMARAJ

**COLLEGE OF ENGINEERING & TECHNOLOGY**

(An Autonomous Institution - AFFILIATED TO ANNA UNIVERSITY, CHENNAI)  
 S.P.O. Chidambara Nallur - C. Negammai Campus  
 S.P.O.D. Nagar, K. Velakulam - 625 701 (Near VIRUDHUNAGAR)

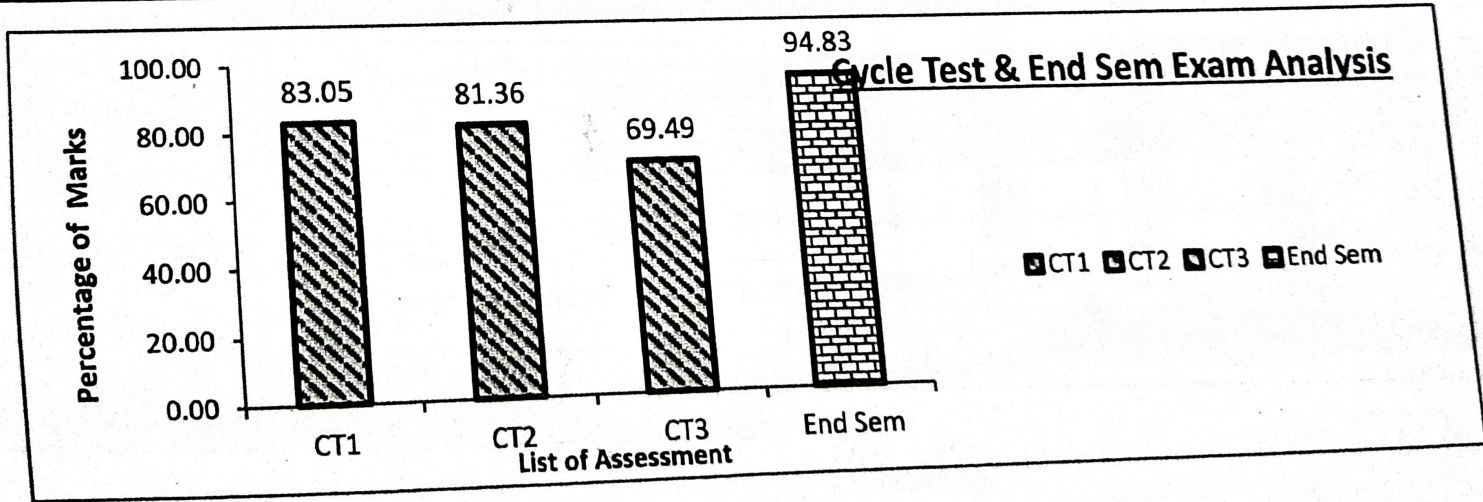
Subject Name	Matrices and Differential Calculus
Subject Code	MA2101
Year and Branch	I-Year & IT -A
Subject Handled by	Dr.A.Maheswari

Cycle Test No	1	2	3
Date of Exam	29.12.22	3.2.23	28.2.23

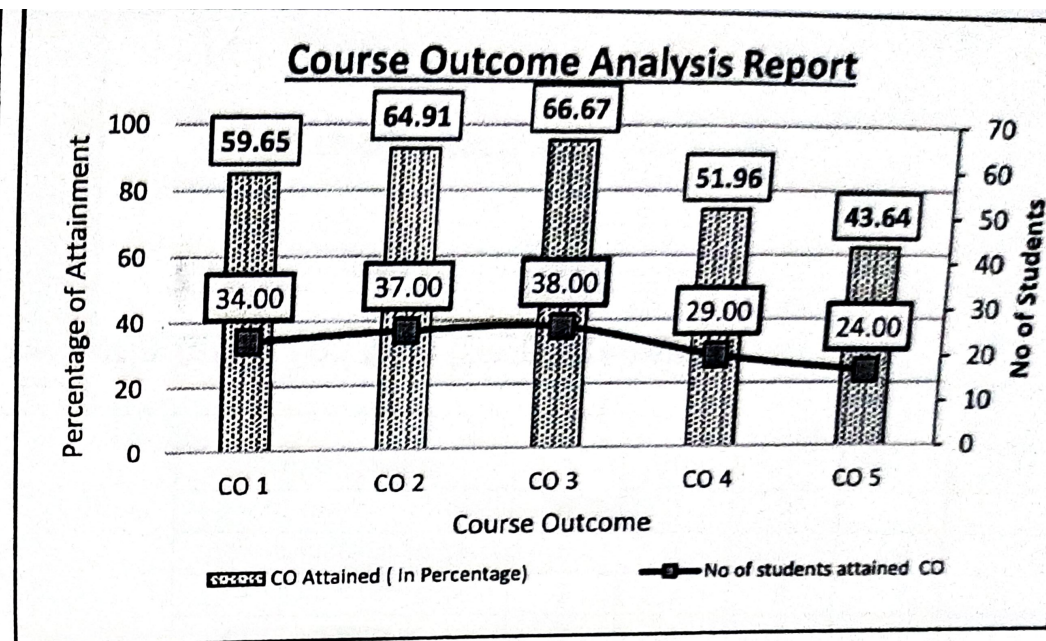
Exam Analysis	CT1	CT2	CT3	End Sem
Total No of Students	59	59	59	58
No of Students Pass	49	48	41	55
No of Students Fail	8	9	14	3
No of Students Absent	2	2	4	0
Total Attended	57	57	55	58
Maximum Mark/ Grade	100	100	100	A+
Average Mark/ GPA	65.79	63.51	57.02	7.09

Assessment Analysis	CT1	CT2	CT3	End Sem Result
No. of students above 90	14	4	7	O --> 0
No. of students 80-89	8	10	4	A+ --> 7
No. of students 70-79	9	8	7	A --> 25
No. of students 60-69	3	11	7	B+ --> 11
No. of students 50-59	15	15	16	B --> 8
No. of students 40-49	0	4	1	U --> 3
No. of students 30-39	2	3	5	--> 0
No. of students 20-29	0	1	2	--> -
No. of students 10-19	4	1	5	--> -
No. of students 0-9	2	0	1	--> -

Pass Percentage (Based on Strength)	83.05	81.36	69.49	94.83
Pass Percentage (Students Attended)	85.96	84.21	74.55	94.83

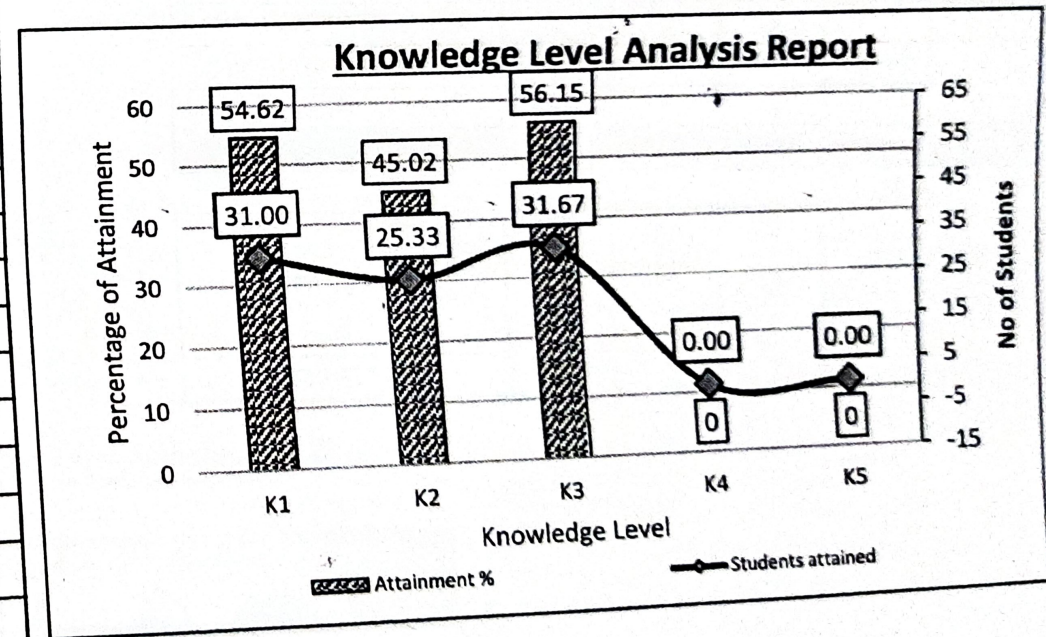


Particulars	CO 1	CO 2	CO 3	CO 4	CO 5
Secured Full Mark	13	3	6	9	4
Secured Above Average	28	40	41	66	25
Secured Below Average	16	10	10	33	26
Secured Zero	0	4	0	4	0
CO Alloted	1652	1298	1770	2360	1770
CO Alloted (By %)	100	100	100	100	100
CO Attained	1071	804	1159	1367	852
CO Attained ( In Percentage)	64.83	61.94	65.48	57.92	48.14
Maximum per CO	28	22	30	40	30
60% Max of CO	16.8	13.2	18	24	18
No of students attained	34	37	38	29	24
CO Attainment	59.649	64.9123	66.6667	51.9617	43.636
Attainment Level	1	1	1	0	0

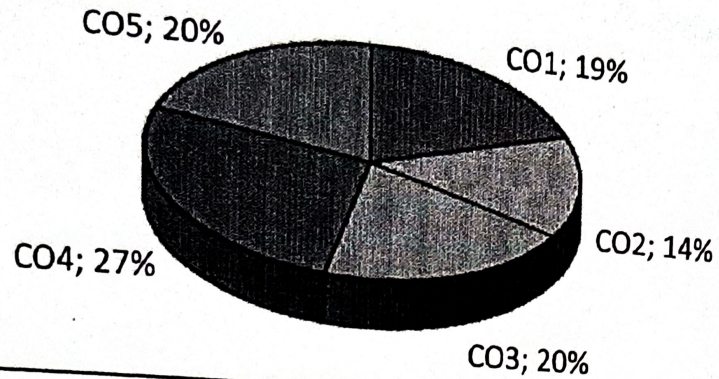


### Knowledge Level wise Analysis

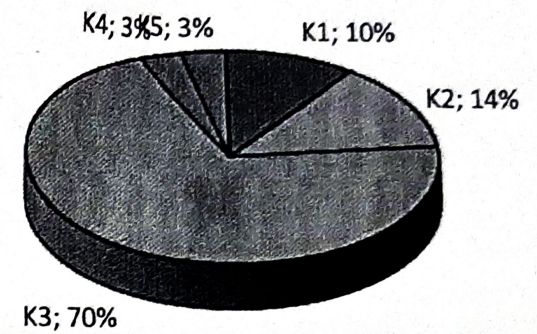
Particulars	K1	K2	K3	K4	K5
Secured Full Mark	67	37	16	NIL	NIL
Secured Above	46	90	114	NIL	NIL
Secured Below	22	28	38	NIL	NIL
Secured Zero	34	14	1	NIL	NIL
K Level Alloted	708	1062	2360	0	0
K Level Attained	368	590	1553	0	0
Attainment %	51.98	55.556	65.805	NA	NA
Maximum per KL	12	18	120	0	0
60% Max	7.2	10.8	72	0	0
Students attained	31	25.333	31.667	NIL	NIL
Attainment %	54.62	45.02	56.15	NA	NA
Attainment Level	0	0	1	NA	NA



Course Outcome Distribution



Knowledge Level wise Question Distribution



CO - PO - Attainment - All Cycle Test														
CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2
C102.1	1.00	0.67	0.33	-	-	-	-	-	-	-	-	-	0.33	-
C102.2	1.00	0.67	0.33	-	-	-	-	-	-	-	-	-	0.33	-
C102.3	1.00	0.67	0.33	-	-	-	-	-	-	-	-	-	0.33	-
C102.4	0.00	0.00	0.00	-	-	-	-	-	-	-	-	-	0.00	-
C102.5	0.00	0.00	0.00	-	-	-	-	-	-	-	-	-	0.00	-
C102	0.60	0.40	0.20	-	-	-	-	-	-	-	-	-	0.20	-

Direct Attainment Level for the course MA2101-Matrices and Differential Calculus														
CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2
End Sem	3.00	2.00	1.00	-	-	-	-	-	-	-	-	-	1.00	-
Internal	1.08	0.72	0.36	-	-	-	-	-	-	-	-	-	0.36	-
Direct Attainment	2.23	1.49	0.74	-	-	-	-	-	-	-	-	-	0.74	-

Direct Attainment
1.30

A. Maheswari  
 Chairperson

*[Signature]*  
 Chairperson

*[Signature]*  
 HoD.

S.No	Cycle Test No	I	Name	Part A - 10 Marks										Part C - 12 Marks										Part B - 8 Marks				Total	Total
				Course Outcome NO					7 a) I					7 b) I					8 a) I					8 b) I					
				CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	NA	NA	NA	NA		
				Marks Allotted	Marks Allotted	Marks Allotted	Marks Allotted	Marks Allotted	Marks Allotted	Marks Allotted	Marks Allotted	Marks Allotted	Marks Allotted	Marks Allotted	Marks Allotted	Marks Allotted	Marks Allotted	Marks Allotted	Marks Allotted	Marks Allotted	Marks Allotted	Marks Allotted	Marks Allotted	Marks Allotted	Marks Allotted	Marks Allotted	Marks Allotted		
Knowledge Level	Knowledge Level	Knowledge Level	Knowledge Level	Knowledge Level	Knowledge Level	Knowledge Level	Knowledge Level	Knowledge Level	Knowledge Level	Knowledge Level	Knowledge Level	Knowledge Level	Knowledge Level	Knowledge Level	Knowledge Level	Knowledge Level	Knowledge Level	Knowledge Level	Knowledge Level	Knowledge Level	Knowledge Level	Knowledge Level	Knowledge Level						
1	21UIT001	920421205045	Sri Athesh S	2	0					0	11																	13	26
2	21UIT002	920421205058	Vishnu Deepan P	2	1	2	0	2	11																			18	36
3	21UIT003	920421205054	Vignesh V K	1	0	1	0	1	11																			25	50
4	21UIT004	920421205050	Suriya Ram S	2	1	1	0	2	10	1																		25	50
5	21UIT005	920421205055	Vinodhan M	2	0	1	2	0	11	3																		26	52
6	21UIT006	920421205029	Nareshan R	2	2	2																						29	58
7	21UIT007	920421205044	Sivasakthi S	2	0	0	0	0	10	0																		25	50
8	21UIT008	920421205046	Subashini K	2	2	1	1	1	10	0																		29	58
9	21UIT009	920421205026	Mathumitha V	0	0	2	1	0																				16	32
10	21UIT010	920421205018	Kalaiselvi K	2	0	0	0	0	6	0																		15	30
11	21UIT011	920421205060	Yazhini D S	2	1	0	1	0	11	3																		30	60
12	21UIT012	920421205014	Gomathy B																									28	56
13	21UIT013	920421205036	Ramyaa Shri K			0	0	0																				7	14
14	21UIT014	920421205049	Sudharsana I	2																								3	6
15	21UIT015	920421205033	Prem Kumar M	2	2	1																						40	80
16	21UIT016	920421205035	Rajesh R M	2	2																							30	60
17	21UIT017	920421205053	Veera Balagan K	2	0																							15	30
18	21UIT018	920421205009	Charanya D	0	2	1	2	0	5																			9	18
19	21UIT019	920421205023	Kaviya S	2	2	1	2	0	11	1																		39	78
20	21UIT020	920421205020	Karthika Devi S R	2	1																							33	66
21	21UIT021	920421205052	Tejash Dhakshin S	2	1	0																						29	58
22	21UIT022	920421205047	Subathira Kumari M	2	0	0	1	0	11																			25	50
23	21UIT023	920421205038	Sandeep Joe A	2	0																							28	56
24	21UIT024	920421205043	Sivanuthu Narayana Sabariganesh A	2	1	0	1																					30	60
25	21UIT025	920421205041	Shoba Sri M																									29	58
26	21UIT026	920421205025	Magasakthi S																									27	54
27	21UIT027	920421205028	Megha A M	2	1	1	1	0	11																			28	56
28	21UIT028	920421205040	Sharmila Devi G	2	2	2	1	0																				42	84
29	21UIT029	920421205003	Akila K	2																								25	50
30	21UIT030	920421205013	Ganesh Kumar M	2	2	2	2	0																				37	74
31	21UIT031	920421205011	Dharun S																									18	36
32	21UIT032	920421205048	Subega Banu S	2	2	1	2	0	11	1																		25	50
33	21UIT033	920421205017	Kabilesh K	2	0																							32	64
34	21UIT034	920421205039	Senthil Kumar T B	2	1	0	0	2	11																			30	60
35	21UIT035	920421205034	Priyadharshini A	2	0	1	1	0	11	2																		25	50
36	21UIT036	920421205056	Visali Manipirya V	2	0																							26	52
37	21UIT037	920421205030	Nikitha B	2	0																							19	38
				2	2	2	2																					42	84

Cycle Test No		1		Name		Part A -10 Marks					Part C - 32 Marks								Part B - 8 Marks				Total	Total
F.No	Roll No	Course Outcome NO	Marks Allotted	Q1	Q2	Q3	Q4	Q5	7 a) i	7 a) ii	7 b) i	7 b) ii	8 a) i	8 a) ii	8 b) i	8 b) ii	6 a) i	6 a) ii	6 b) i	6 b) ii	Total	Total		
				CO1	CO1	CO1	CO2	CO2	CO1	CO1	CO1	CO1	CO2	CO2	CO2	CO2	CO1	NA	CO1	NA			CO1	NA
38	21UIT038	920421205027	Meenakshi S	2	2	2	2	2	12	4	12	4	16	NA	16	NA	8	NA	8	NA	50	100		
39	21UIT039	920421205001	Aarthilekha A	2	0	2	2	0	11				15						0		32	64		
40	21UIT040	920421205059	Vishnu Priya G	2	2	2	1	0	11				12								26	52		
41	21UIT041	920421205042	Sibi Siddharthan S	2	2	0	2	1	11	4			13				7				42	84		
42	21UIT042	920421205015	Hema Malini R	2	2	2		1	11	3									4		25	50		
43	21UIT043	920421205019	Kalpna Charula S	0	0	0	0	0	11	2			13				7				40	80		
44	21UIT044	920421205021	Kaviya G	0				2					6								14	28		
45	21UIT045	920421205002	Abishek Raj S								9	0					0				11	22		
46	21UIT046	920421205016	Joe Selva Rakshan P	2	0		0	0	11												AB	AB		
47	21UIT047	920421205012	Easkkithai @ Sumathi M	2				0	11	3					0				2		15	30		
48	21UIT048	920421205008	Balaji G S	2	1				11				13				1				30	60		
49	21UIT049	920421205057	Vishal M	2	1	1		1	9	1			14								28	56		
50	21UIT050	920421205010	Christika S	2	0	1	2	2	11				13						0		28	56		
51	21UIT051	920421205006	Baby S	2	0		0	0	11				15						0		33	66		
52	21UIT052	920421205022	Kaviya M	2	0	2	0	0	11	2					3				0		16	32		
53	21UIT053	920421205005	Aswathi G	2	1	2		2	11	4			5				3				25	50		
54	21UIT054	920421205024	Kishore M	2	0	1	2	0	11	1			8				2				32	64		
55	21UIT055	920421205004	Arthi M	2	1	1	0	0	11	0			4				0				21	42		
56	21UIT056	920421205031	Praveen Kumar M	2	0				9	1			14						1		30	60		
57	21UIT057	920421205007	Bala Chibi Hariesh B						11										0		12	24		
58	21UIT058	920421205032	Praveen L		0	0	0		11				4						1		12	24		
59	21UIT059	920421205037	Saamir Gaffur Mohammed Yakub Shah	2	0	2	0	2	11	1			10								15	30		
60	21UIT060	920421205051	Swattheswari G	2	2	2	2	0	11	3			13				5				33	66		
																5					40	80		

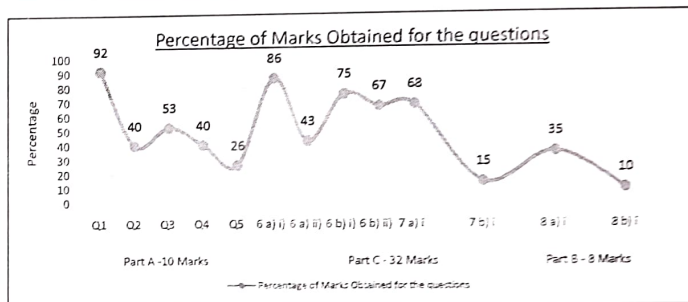
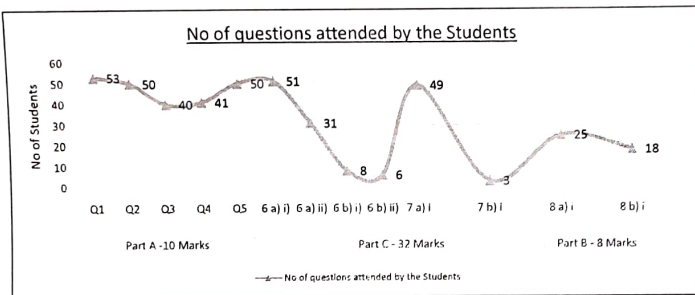
Subject Name | Computer Organization and Architecture  
 Subject Code | IT2201  
 Year and Branch | II-Year & Information Technology  
 Subject Handled by | Dr.E.Vakalmalar ASP/IT

Unit Test Analysis	No
Total No of Students	60
No of Students Pass	42
No of Students Fail	17
No of Students Absent	1
Total Attended	59
Maximum Mark	84
Average Mark	51.83

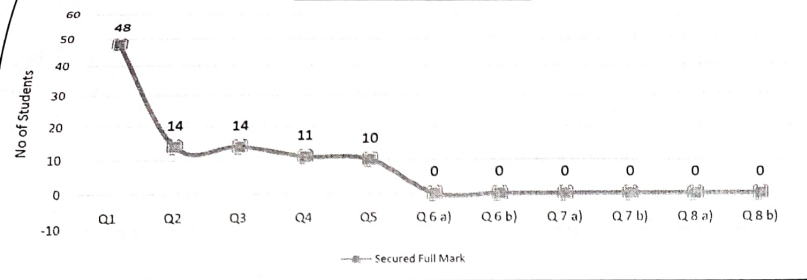
Pass Percentage (Based on Strength)	70.00 %
Pass Percentage (Based on Students Attended)	71.19 %

Mark based Analysis			
No. of students above 90	0	No. of students 40-49	1
No. of students 80-89	6	No. of students 30-39	9
No. of students 70-79	2	No. of students 20-29	5
No. of students 60-69	12	No. of students 10-19	2
No. of students 50-59	22	No. of students 0-9	0

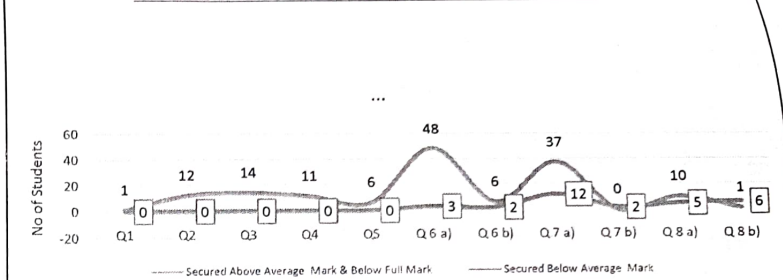
Questionwise Analysis	Part A - 10 Marks					Part C - 32 Marks							Part B - 8 Marks				
	Q1	Q2	Q3	Q4	Q5	6 a) i)	6 a) ii)	6 b) i)	6 b) ii)	7 a) i)	7 a) ii)	7 b) i)	7 b) ii)	8 a) i)	8 a) ii)	8 b) i)	8 b) ii)
No of questions attended by the Students	53	50	40	41	50	51	31	8	6	49	NA	3	NA	25	NA	18	NA
No of questions not attended by the Students	6	9	19	18	9	8	28	51	53	10	NA	56	NA	34	NA	41	NA
Total Marks Secured for the questions	97	40	42	33	26	527	53	72	16	532	0	7	0	70	0	14	0
Percentage of Marks Obtained for the questions	91.51	40.00	52.50	40.24	26.00	86.11	42.74	75.00	66.67	67.86	NA	14.58	NA	35.00	NA	9.72	NA
	Part A - 2 Marks					Part B - 13 Marks							Part B - 13 Marks				
Secured Full Mark	48	14	14	11	10	0	0	0	0	0	0	0	0	0	0	0	0
Secured Above Average Mark & Below Full Mark	1	12	14	11	6	48	6	37	6	37	0	0	0	10	1	1	1
Secured Below Average Mark	0	0	0	0	0	3	2	12	2	12	2	2	5	5	6	6	6
Secured Zero	4	24	12	19	34	0	0	0	0	0	1	1	10	11	11	11	11



Student Secured Full Mark



Students Secured Above Average & Below Full Mark



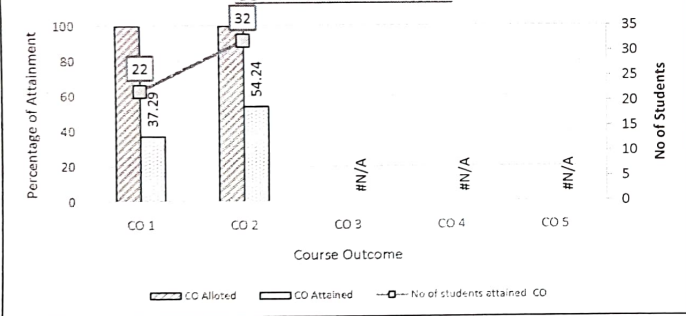
Course Outcome wise Analysis

Particulars	CO 1	CO 2	CO 3	CO 4	CO 5
Secured Full Mark	0	0	NA	NA	NA
Secured Above Average Mark	34	36	NA	NA	NA
Secured Below Average Mark	25	18	NA	NA	NA
Secured Zero	0	5	NA	NA	NA
CO Alloted	1800	1200	0	0	0
CO Attained	931	598	0	0	0
CO Attained ( In Percentage)	51.72	49.83	NA	NA	NA
Maximum per CO	28	19	0	0	0
60 % Max of CO	16.8	11.4	0	0	0
No of students attained CO	22	32	NA	NA	NA
CO Attainment Percentage	37.29	54.24	NA	NA	NA
Attainment Level	0	0	NA	NA	NA

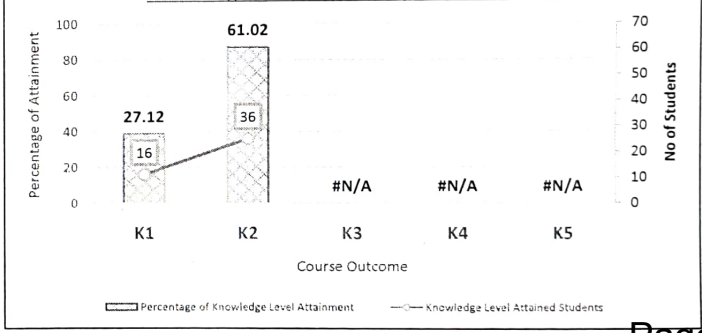
Knowledge Level wise Analysis

Particulars	K1	K2	K3	K4	K5
Secured Full Mark	0	0	NIL	NIL	NIL
Secured Above Average Mark	29	38	NIL	NIL	NIL
Secured Below Average Mark	25	21	NIL	NIL	NIL
Secured Zero	5	0	NIL	NIL	NIL
Knowledge Level Alloted	480	2520	0	0	0
Knowledge Level Attained	196	1333	0	0	0
Attainment ( In Percentage)	40.83	52.90	NA	NA	NA
Maximum per Knowledge Level	7	38	0	0	0
60 % Max of K Level	4.2	22.8	0	0	0
No of students attained	16	36	NA	NA	NA
Attainment Percentage	27.12	61.02	NA	NA	NA
Attainment Level	0	1	NA	NA	NA

CO - Alloted vs Attained

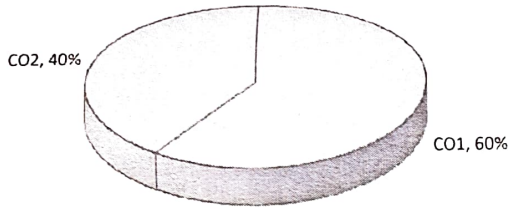


Knowledge Level - Percentage of Attainment

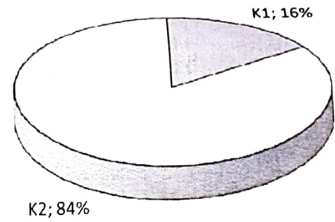




Course Outcome Distribution for the Cycle Test



Knowledge Level wise Question Distribution



CO - PO - Attainment - Cycle Test 1

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2
.1	0.00	0.00	0.00	0.00	0.00	-	-	-	-	-	-	0.00	0.00	0.00
.2	0.00	0.00	-	-	-	-	-	-	-	-	-	0.00	0.00	0.00
.3	NA	NA	-	-	-	-	-	-	-	-	-	NA	NA	NA
.4	NA	NA	-	-	-	-	-	-	-	-	-	NA	NA	NA
.5	NA	NA	-	-	-	-	-	-	-	-	-	NA	NA	NA

**Note**

NA - Not Applicable

**Attainment Level 1**

60 % Students secured more than Target Value

**Attainment Level 2**

70 % Students secured more than Target Value

**Attainment Level 3**

80 % Students secured more than Target Value

Action Plan Report for the Attainment of CO

CO	Target Value	Actual Attainment	CO Attained ?	Attainment GAP in Percentage	Action Plan to Bridge the Gap
.1	60 %of Maximum Mark	37.29 %	Not Attained	-22.71 %	
.2	60 %of Maximum Mark	54.24 %	Not Attained	-5.76 %	
.3	60 %of Maximum Mark	NA	NA	NA	
.4	60 %of Maximum Mark	NA	NA	NA	
.5	60 %of Maximum Mark	NA	NA	NA	

**HoD Remarks**

Try to improve pass percentage

*[Signature]*  
26/9/20  
Staff Incharge

*[Signature]*  
26/9/20  
Chairperson

*[Signature]*  
26/9/20  
HoD



S.No	Cycle Test No	2	Name	Part A - 10 Marks										Part C - 32 Marks								Part B - 8 Marks				Total	Total		
				Q1		Q2		Q3		Q4		Q5		7 a) i	7 a) ii	7 b) i	7 b) ii	8 a) i	8 a) ii	8 b) i	8 b) ii	6 a) i	6 a) ii	6 b) i	6 b) ii			50	100
				CO2	CO2	CO3	CO3	CO4	CO4	CO2	NA	CO2	NA	CO3	NA	CO3	NA	CO4	NA	CO4	NA	CO4	NA	CO4	NA				
38	21UIT038	920421205027	Meenakshi S	2	2	2	2	0						14		13				6				41	82				
39	21UIT039	920421205001	Aarthilekha A	0	0	0	0	0						16				2		7				25	50				
40	21UIT040	920421205059	Vishnu Priya G	2	2	2	2	2					16						15			5		46	92				
41	21UIT041	920421205042	Sibi Siddharthan S	2	2	2	2	2					6							6				27	54				
42	21UIT042	920421205015	Hema Malini R	2	2	2	1	2					16			13						5		43	86				
43	21UIT043	920421205019	Kalpana Charula S	0	0	0	0	0					1					1				1		3	6				
44	21UIT044	920421205021	Kaviya G										15					0					3		18	36			
45	21UIT045	920421205002	Abishek Raj S	0	2	2	1	0								1						1		7	14				
46	21UIT046	920421205016	Joe Selva Rakshan P	2	2	2	2	0						16		14						3		41	82				
47	21UIT047	920421205012	Easkkithai @ Sumathi M	1	2	2	2	2					16			12				6				43	86				
48	21UIT048	920421205008	Balaji G S	1	2	2	2	2						13						6				28	56				
49	21UIT049	920421205057	Vishal M	1	2	2	1	0						16		4						3		29	58				
50	21UIT050	920421205010	Christika S	1	2	2	1	2					6			13				6				33	66				
51	21UIT051	920421205006	Baby S	2	2	2	1	1									1			7				32	64				
52	21UIT052	920421205022	Kaviya M	2	2	2	1	0					16		4					6				33	66				
53	21UIT053	920421205005	Aswathi G	2	2	2	2	2					16		2					7				35	70				
54	21UIT054	920421205024	Kishore M	2	2	1	2	2						12						6				27	54				
55	21UIT055	920421205004	Arthi M	2	2	1	0	0						10		8				7				30	60				
56	21UIT056	920421205031	Praveen Kumar M										8			14						3		25	50				
57	21UIT057	920421205007	Bala Chibi Hariesh B																					AB	AB				
58	21UIT058	920421205032	Praveen L		2	2	2	0				11			2					6				25	50				
59	21UIT059	920421205037	Saamir Gaffur Mohammed Yakut	1	2	2	1	0				5			8					6				25	50				
60	21UIT060	920421205051	Swatheeswari G	2	2	1	1	0				12				11						4		33	66				
61	21UIT061	920421205303	M.MUTHURAM	2	2	2	1	0						16		2				6				31	62				
62	21UIT062	920421205304	S.ROOBAN REYEASH			0	1	0				16			8							1		26	52				
63	21UIT063	920421205301	J.ASHISH	2	2	2	2	2				2						1		6				19	38				
64	21UIT064	920421205302	V.BHUVAN MUTHU	1		0	1					2			2					5				11	22				
65	21UIT065	920421205305	P.SARAVANAKUMAR	2	2	2	2	2						14						6				30	60				

Subject Name	Computer Organization and Architecture
Subject Code	IT2201
Year and Branch	II-Year & Information Technology
Subject Handled by	Dr.E.Vakaimalar ASP/IT

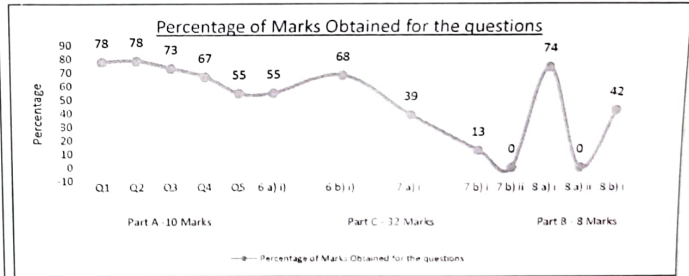
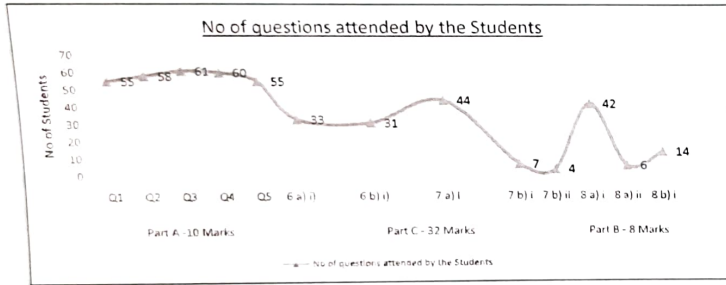


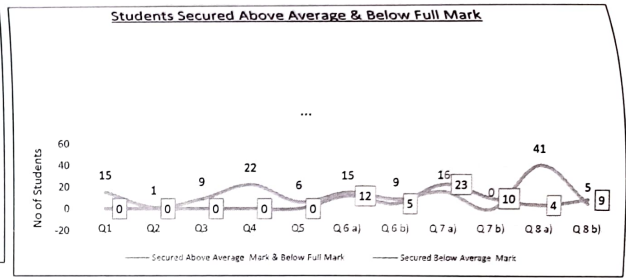
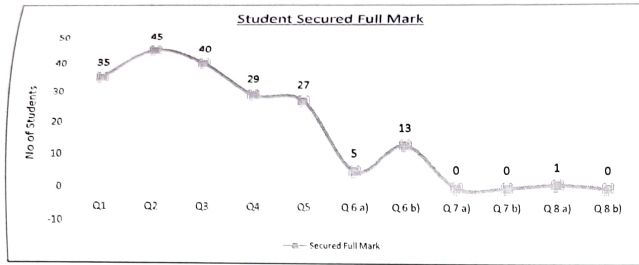
Unit Test Analysis	No
Total No of Students	65
No of Students Pass	48
No of Students Fail	15
No of Students Absent	2
Total Attended	63
Maximum Mark	92
Average Mark	52.51

Pass Percentage (Based on Strength)	73.85 %
Pass Percentage (Based on Students Attended)	76.19 %

Mark based Analysis			
No. of students above 90	3	No. of students 40-49	0
No. of students 80-89	4	No. of students 30-39	3
No. of students 70-79	4	No. of students 20-29	7
No. of students 60-69	12	No. of students 10-19	3
No. of students 50-59	25	No. of students 0-9	2

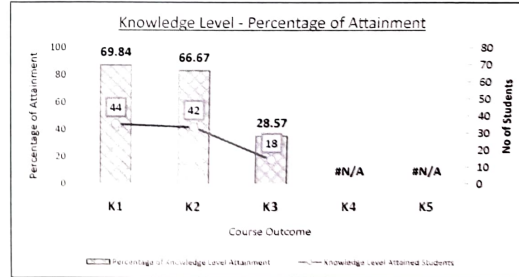
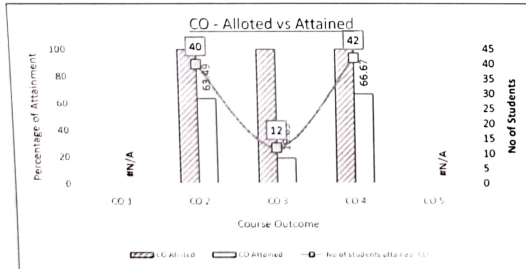
Questionwise Analysis	Part A -10 Marks					Part C - 32 Marks								Part B - 8 Marks			
	Q1	Q2	Q3	Q4	Q5	6 a) i)	6 a) ii)	6 b) i)	6 b) ii)	7 a) i)	7 a) ii)	7 b) i)	7 b) ii)	8 a) i)	8 a) ii)	8 b) i)	8 b) ii)
No of questions attended by the Students	55	58	61	60	55	33	NA	31	NA	44	NA	7	4	42	6	14	NA
No of questions not attended by the Students	8	5	2	3	8	30	NA	32	NA	19	NA	56	59	21	57	49	NA
Total Marks Secured for the questions	85.5	91	89	80	60	290	0	336.5	0	273	0	14	18	248	22	47	0
Percentage of Marks Obtained for the questions	77.73	78.45	72.95	66.67	54.55	54.92	NA	67.84	NA	38.78	NA	12.50	#DIV/0!	73.81	#DIV/0!	41.96	NA
	Part A - 2 Marks					Part B - 13 Marks								Part B - 13 Marks			
Secured Full Mark	35	45	40	29	27	5		13		0		0		1			0
Secured Above Average Mark & Below Full Mark	15	1	9	22	6	15		9		16		0		41			5
Secured Below Average Mark	0	0	0	0	0	12		5		23		10		4			9
Secured Zero	5	12	12	9	22	1		4		5		1		2			1



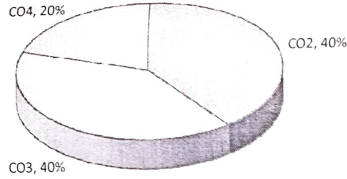


Course Outcome wise Analysis					
Particulars	CO 1	CO 2	CO 3	CO 4	CO 5
Secured Full Mark	NA	13	0	0	NA
Secured Above Average Mark	NA	30	18	47	NA
Secured Below Average Mark	NA	18	42	14	NA
Secured Zero	NA	2	3	2	NA
CO Alloted	0	1300	1300	650	0
CO Attained	0	803	474	377	0
CO Attained ( In Percentage)	NA	61.77	36.46	58.00	NA
Maximum per CO	0	20	19	9	0
60 % Max of CO	0	12	11.4	5.4	0
No of students attained CO	NA	40	12	42	NA
CO Attainment Percentage	NA	63.49	19.05	66.67	NA
Attainment Level	NA	1	0	1	NA

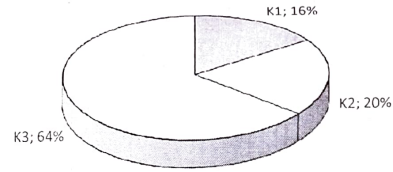
Knowledge Level wise Analysis					
Particulars	K1	K2	K3	K4	K5
Secured Full Mark	21	0	0	NIL	NIL
Secured Above Average Mark	26	47	27	NIL	NIL
Secured Below Average Mark	9	14	35	NIL	NIL
Secured Zero	7	2	1	NIL	NIL
Knowledge Level Alloted	520	650	0	0	0
Knowledge Level Attained	345.5	377	0	0	0
Attainment ( In Percentage)	66.44	58.00	NA	NA	NA
Maximum per Knowledge Level	8	9	31	0	0
60 % Max of K Level	4.8	5.4	18.6	0	0
No of students attained	44	42	18	NA	NA
Attainment Percentage	69.84	66.67	28.57	NA	NA
Attainment Level	1	1	0	NA	NA



Course Outcome Distribution for the Cycle Test



Knowledge Level wise Question Distribution



CO - PO - Attainment - Cycle Test 2

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2
.1	NA	NA	NA	NA	NA	-	-	-	-	-	-	NA	NA	NA
.2	0.33	0.17	-	-	-	-	-	-	-	-	-	0.17	0.17	0.17
.3	0.00	0.00	-	-	-	-	-	-	-	-	-	0.00	0.00	0.00
.4	0.33	0.17	-	-	-	-	-	-	-	-	-	0.17	0.17	0.17
.5	NA	NA	-	-	-	-	-	-	-	-	-	NA	NA	NA

**Note**

NA - Not Applicable

**Attainment Level 1**

60 % Students secured more than Target Value

**Attainment Level 2**

70 % Students secured more than Target Value

**Attainment Level 3**

80 % Students secured more than Target Value

Action Plan Report for the Attainment of CO

CO	Target Value	Actual Attainment	CO Attained ?	Attainment GAP in Percentage	Action Plan to Bridge the Gap
.1	60 % of Maximum Mark	NA	NA	NA	
.2	60 % of Maximum Mark	63.49 %	Attained	3.49 %	
.3	60 % of Maximum Mark	19.05 %	Not Attained	-40.95 %	
.4	60 % of Maximum Mark	66.67 %	Attained	6.67 %	
.5	60 % of Maximum Mark	NA	NA	NA	

**HoD Remarks**

Give importance to unit iii during revision

*A. Anitha*  
Staff Incharge

*P. S. Sathya*  
Chairperson

HoD

Cycle Test No		3		Name		Part A - 10 Marks					Part C - 32 Marks								Part B - 8 Marks				Total	Total	
S.No	Registration No	Roll No	Course Outcome NO		Q1	Q2	Q3	Q4	Q5	7 a) i	7 a) ii	7 b) i	7 b) ii	8 a) i	8 a) ii	8 b) i	8 b) ii	6 a) i	6 a) ii	6 b) i	6 b) ii	50	100		
			CO4	CO4	CO5	CO5	CO5	CO4	NA	CO4	NA	CO5	NA	CO5	NA	CO5	NA	CO5	NA	CO5	NA				
			Marks Allotted		2	2	2	2	2	16		16		16		16		16		8				8	
			Knowledge Level		K1	K2	K1	K2	K2	K2	NIL	K2	NIL	K2	NIL	K2	NIL	K2	NIL	K2	NIL			K2	NIL
1	21UIT001	920421205045	Sri Athesh S	0	0			2	0	8						8				7		25	50		
2	21UIT002	920421205058	Vishnu Deepan P	2				1		8						4				1		16	32		
3	21UIT003	920421205054	Vignesh V K	2	1		1	1	2	4						9				5		25	50		
4	21UIT004	920421205050	Suriya Ram S	2	0	0	1	0	9							10				3		25	50		
5	21UIT005	920421205055	Vinodhan M	2	1	2	1	0			3					13				7		29	58		
6	21UIT006	920421205029	Nareshan R	0	1	0	0	0	4							15				5		25	50		
7	21UIT007	920421205044	Sivasakthi S	0	2	0	1	0	6							6				3		18	36		
8	21UIT008	920421205046	Subashini K	2	2	1	1	2	11							6				6		31	62		
9	21UIT009	920421205026	Mathumitha V	0	2	0	1	0	5							6				2		16	32		
10	21UIT010	920421205018	Kalaiselvi K	0	0	0	0	0	6							6				5		17	34		
11	21UIT011	920421205060	Yazhini D S	2			0		0	9						3				2		16	32		
12	21UIT012	920421205014	Gomathy B	2				2		10						6				5		25	50		
13	21UIT013	920421205036	Ramyaa Shri K	0	0	0	0	0	4							0				2		6	12		
14	21UIT014	920421205049	Sudharsana I	2	2	2	2	2	15							6				6		37	74		
15	21UIT015	920421205033	Prem Kumar M	2	2		2	0								14				5		25	50		
16	21UIT016	920421205035	Rajesh R M	2	1	2	1				1					15				6		28	56		
17	21UIT017	920421205053	Veera Balagan K						1											5		6	12		
18	21UIT018	920421205009	Charanya D	2	2	2	2		14							13				6		41	82		
19	21UIT019	920421205023	Kaviya S	2	2	2	2	1	12							6				4		31	62		
20	21UIT020	920421205020	Karthika Devi S R	2	1	1	2	0	13											7		26	52		
21	21UIT021	920421205052	Tejash Dhakshin S	2			2	2	14							9				6		37	74		
22	21UIT022	920421205047	Subathira Kumari M	2	1	2			7							3				2		17	34		
23	21UIT023	920421205038	Sandeep Joe A	2	1	2	1	0			3					12				7		28	56		
24	21UIT024	920421205043	Sivamuthu Narayana Sabariganes	2	2	0	2		9							9				6		30	60		
25	21UIT025	920421205041	Shoba Sri M	2			2		12							9				5		32	64		
26	21UIT026	920421205025	Magasakthi S	2	2	0	1	0	8							7				7		27	54		
27	21UIT027	920421205028	Megha A M	2	2	2	1	2	13							11				6		39	78		
28	21UIT028	920421205040	Sharmila Devi G	0	2	1	1	0	9							12				3		28	56		
29	21UIT029	920421205003	Akila K	2	2	0	2	0	14							14				7		41	82		
30	21UIT030	920421205013	Ganesh Kumar M	1	2	0			4							14				4		25	50		
31	21UIT031	920421205011	Dharun S																	3		AB	AB		
32	21UIT032	920421205048	Subega Banu S	2	1	2	1		13							3				5		25	50		
33	21UIT033	920421205017	Kabilesh K	2	1	2	0	1			12					12				5		35	70		
34	21UIT034	920421205039	Senthil Kumar T B	2	1	0	1	0	9							10				2		25	50		
35	21UIT035	920421205034	Priyadharshini A	2	1				6							3				5		17	34		
36	21UIT036	920421205056	Visali Manipirya V	0	1	0	1		3							4				5		14	28		
37	21UIT037	920421205030	Nikitha B	2	2	2	2	0	15							12				6		41	82		

Sl. No	Cycle Test No	3	Name	Part A - 10 Marks					Part C - 32 Marks								Part B - 8 Marks				Total	Total		
				Q1	Q2	Q3	Q4	Q5	7 a) i	7 a) ii	7 b) i	7 b) ii	8 a) i	8 a) ii	8 b) i	8 b) ii	6 a) i	6 a) ii	6 b) i	6 b) ii				
				CO4	CO4	CO5	CO5	CO5	CO4	NA	CO4	NA	CO5	NA	CO5	NA	CO5	NA	CO5	NA				
Registration No	Roll No	Course Outcome NO	CO4	CO4	CO5	CO5	CO5	CO4	NA	CO4	NA	CO5	NA	CO5	NA	CO5	NA	CO5	NA	50	100			
38	21UIT038	920421205027	Meenakshi S	2	2	2	2	1	12												7	28	56	
39	21UIT039	920421205001	Aarthilekha A		1	0	1	0	9												6	17	34	
40	21UIT040	920421205059	Vishnu Priya G	2	2	0	1	2	12					2							7	28	56	
41	21UIT041	920421205042	Sibi Siddharthan S	2	2	2	2	0	7						11						6	32	64	
42	21UIT042	920421205015	Hema Malini R																			AB	AB	
43	21UIT043	920421205019	Kalpana Charula S	0	0	0	0	0	2					1							1	4	8	
44	21UIT044	920421205021	Kaviya G						3						4						6	13	26	
45	21UIT045	920421205002	Abishek Raj S	2	1	0	0	0			0										1	4	8	
46	21UIT046	920421205016	Joe Selva Rakshan P	2	1	2	1	0			3										6	15	30	
47	21UIT047	920421205012	Easkkithal @ Sumathi M	1	1	2	1	0	14													37	74	
48	21UIT048	920421205008	Balaji G S	2	1				9				2									6	14	28
49	21UIT049	920421205057	Vishal M	1	1	0	2		4													6	25	50
50	21UIT050	920421205010	Christika S	0	0	1	1	0	10													5	25	50
51	21UIT051	920421205006	Baby S	2	2	2	2	0	9													8	25	50
52	21UIT052	920421205022	Kaviya M	2	2	0	1	0	12													5	32	64
53	21UIT053	920421205005	Aswathi G	2	2	2	1	0	10													6	31	62
54	21UIT054	920421205024	Kishore M	2	2	2	1	0	10													6	28	56
55	21UIT055	920421205004	Arthi M	1	0	2	0	0	10													9	25	50
56	21UIT056	920421205031	Praveen Kumar M	2	0	0	1	0	9													9	27	54
57	21UIT057	920421205007	Bala Chibi Hariresh B	2	1.5	2	1.5	2	6													5	18	36
58	21UIT058	920421205032	Praveen L	1	0	0	0	0	6													4	6	12
59	21UIT059	920421205037	Saamir Gaffur Mohammed Yakub	1	2	1	1	1	5													12	25	50
60	21UIT060	920421205051	Swathieswari G																			9	25	50
61	21UIT061	920421205303	M.MUTHURAM	2	1		1	0														5	25	50
62	21UIT062	920421205304	S.ROOBAN REYEASH	1	0	0	0				6												AB	AB
63	21UIT063	920421205301	J.ASHISH	2	2		2		8		5											11	26	52
64	21UIT064	920421205302	V.BHUVAN MUTHU	1	1	0	2	1	7													0	6	12
65	21UIT065	920421205305	P.SARAVANAKUMAR					0	8													7	25	50
																						8	5	16
																						5	2	32



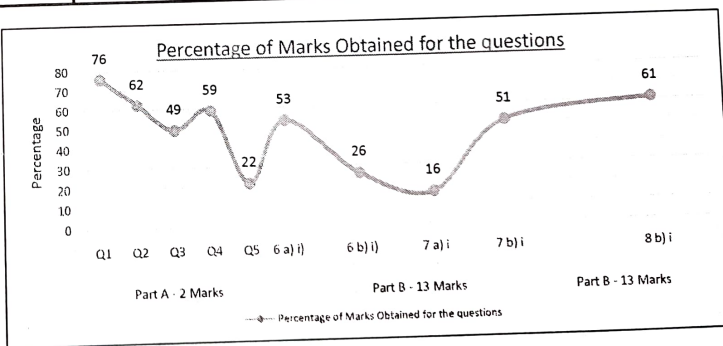
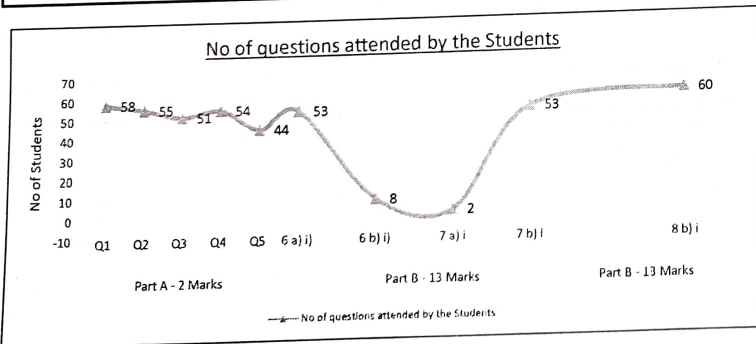
Subject Name	Computer Organization and Architecture
Subject Code	IT2201
Year and Branch	II-Year & Information Technology
Subject Handled by	Dr.E.Vakaimalar ASP/IT

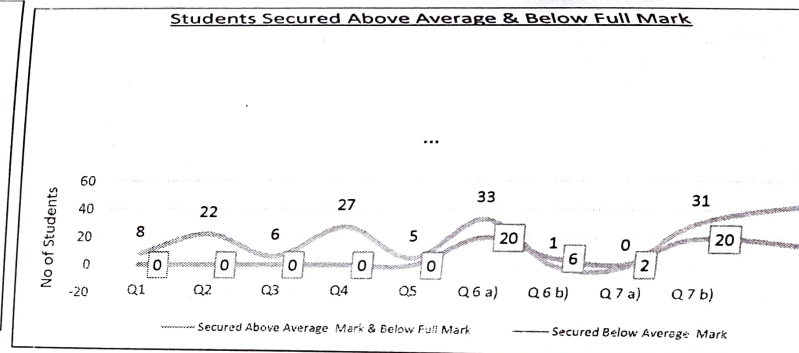
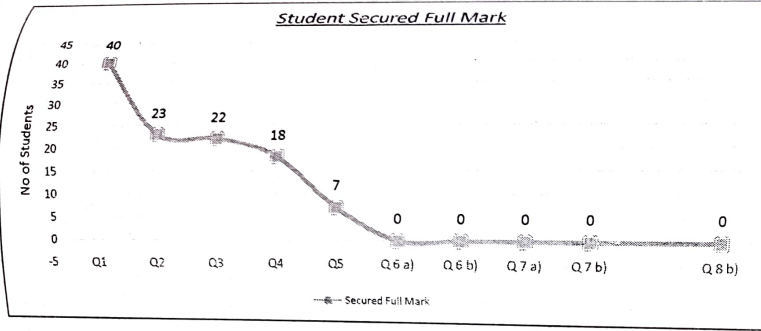
Unit Test Analysis	No
Total No of Students	65
No of Students Pass	43
No of Students Fail	19
No of Students Absent	3
Total Attended	62
Maximum Mark	82
Average Mark	48.55

Pass Percentage (Based on Strength)	66.15 %
Pass Percentage (Based on Students Attended)	69.35 %

Mark based Analysis			
No. of students above 90	0	No. of students 40-49	0
No. of students 80-89	3	No. of students 30-39	11
No. of students 70-79	5	No. of students 20-29	3
No. of students 60-69	7	No. of students 10-19	3
No. of students 50-59	28	No. of students 0-9	2

Questionwise Analysis	Part A - 2 Marks					Part B - 13 Marks								Part B - 13 Marks			
	Q1	Q2	Q3	Q4	Q5	6 a) i)	6 a) ii)	6 b) i)	6 b) ii)	7 a) i)	7 a) ii)	7 b) i)	7 b) ii)	8 a) i)	8 a) ii)	8 b) i)	8 b) ii)
No of questions attended by the Students	58	55	51	54	44	53	NA	8	NA	2	NA	53	NA	NA	NA	60	NA
No of questions not attended by the Students	4	7	11	8	18	9	NA	54	NA	60	NA	9	NA	NA	NA	2	NA
Total Marks Secured for the questions	88	68.5	50	63.5	19	452	0	33	0	5	0	434	0	0	0	292	0
Percentage of Marks Obtained for the questions	75.86	62.27	49.02	58.80	21.59	53.30	NA	25.78	NA	15.63	NA	51.18	NA	NA	NA	60.83	NA
	Part A - 2 Marks					Part B - 13 Marks								Part B - 13 Marks			
Secured Full Mark	40	23	22	18	7	0	0	0	0	0	0	31	0	0	0	47	0
Secured Above Average Mark & Below Full Mark	8	22	6	27	5	33	1	6	2	20	0	0	0	0	0	13	0
Secured Below Average Mark	0	0	0	0	0	20	6	2	2	0	20	0	0	0	0	0	0
Secured Zero	10	10	23	9	32	0	1	0	0	2	0	0	0	0	0	0	0



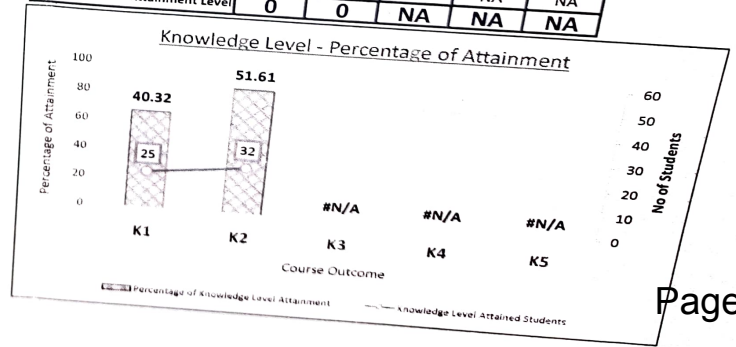
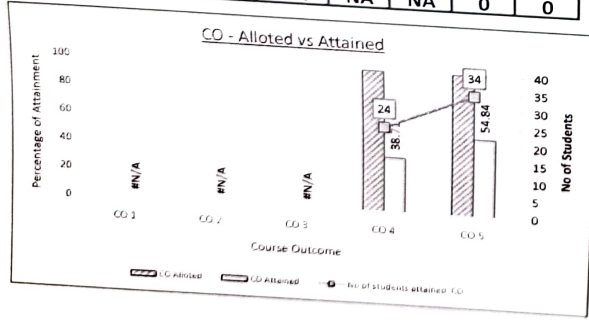


### Course Outcome wise Analysis

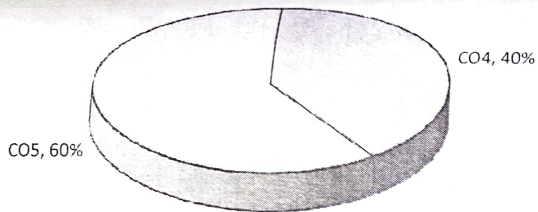
Particulars	CO 1	CO 2	CO 3	CO 4	CO 5
Secured Full Mark	NA	NA	NA	0	0
Secured Above Average Mark	NA	NA	NA	34	34
Secured Below Average Mark	NA	NA	NA	28	27
Secured Zero	NA	NA	NA	0	1
CO Alloted	0	0	0	1300	1950
CO Attained	0	0	0	641.5	863.5
CO Attained ( In Percentage)	NA	NA	NA	49.35	44.28
Maximum per CO	0	0	0	19	24
60 % Max of CO	0	0	0	11.4	14.4
No of students attained CO	NA	NA	NA	24	34
CO Attainment Percentage	NA	NA	NA	38.71	54.84
Attainment Level	NA	NA	NA	0	0

### Knowledge Level wise Analysis

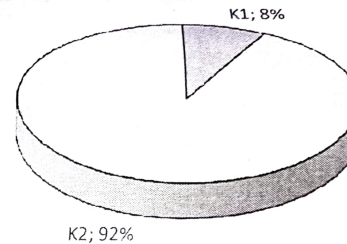
Particulars	K1	K2	K3	K4	K5
Secured Full Mark	20	0	NIL	NIL	NIL
Secured Above Average Mark	23	39	NIL	NIL	NIL
Secured Below Average Mark	7	23	NIL	NIL	NIL
Secured Zero	12	0	NIL	NIL	NIL
Knowledge Level Alloted	260	2990	0	0	0
Knowledge Level Attained	138	1367	0	0	0
Attainment ( In Percentage)	53.08	45.72	NA	NA	NA
Maximum per Knowledge Level	4	39	0	0	0
60 % Max of K Level	2.4	23.4	0	0	0
No of students attained	25	32	NA	NA	NA
Attainment Percentage	40.32	51.61	NA	NA	NA
Attainment Level	0	0	NA	NA	NA



Course Outcome Distribution for the Cycle Test



Knowledge Level wise Question Distribution



CO -PO - Attainment - Cycle Test 3

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2
.1	NA	NA	NA	NA	NA	-	-	-	-	-	-	NA	NA	NA
.2	NA	NA	-	-	-	-	-	-	-	-	-	NA	NA	NA
.3	NA	NA	-	-	-	-	-	-	-	-	-	NA	NA	NA
.4	0.00	0.00	-	-	-	-	-	-	-	-	-	0.00	0.00	0.00
.5	0.00	0.00	-	-	-	-	-	-	-	-	-	0.00	0.00	0.00

**Note**

NA - Not Applicable

**Attainment Level 1**

60 % Students secured more than Target Value

**Attainment Level 2**

70 % Students secured more than Target Value

**Attainment Level 3**

80 % Students secured more than Target Value

Action Plan Report for the Attainment of CO

CO	Target Value	Actual Attainment	CO Attained ?	Attainment GAP in Percentage	Action Plan to Bridge the Gap
.1	60 %of Maximum Mark	NA	NA	NA	
.2	60 %of Maximum Mark	NA	NA	NA	
.3	60 %of Maximum Mark	NA	NA	NA	
.4	60 %of Maximum Mark	38.71 %	Not Attained	-21.29 %	
.5	60 %of Maximum Mark	54.84 %	Not Attained	-5.16 %	

**HoD Remarks**

Concentrate on late bloomers during revision

*[Signature]*  
22/11/22  
Staff Incharge

*[Signature]*  
22/11/22  
Chairperson

*[Signature]*  
22/11/22  
HoD

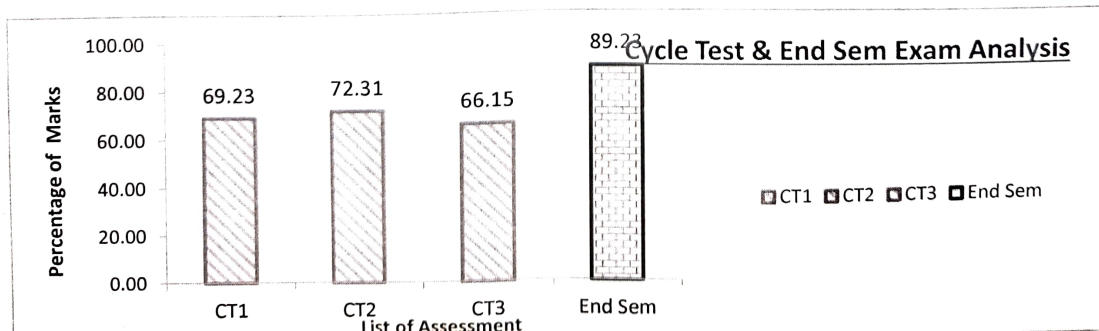
Subject Name	Computer Organization and Architecture
Subject Code	IT2201
Year and Branch	II-Year & Information Technology
Subject Handled by	Dr.E.Vakaimalar

Cycle Test No	1	2	3
Date of Exam	17.09.2022	31.10.2022	19.11.2022

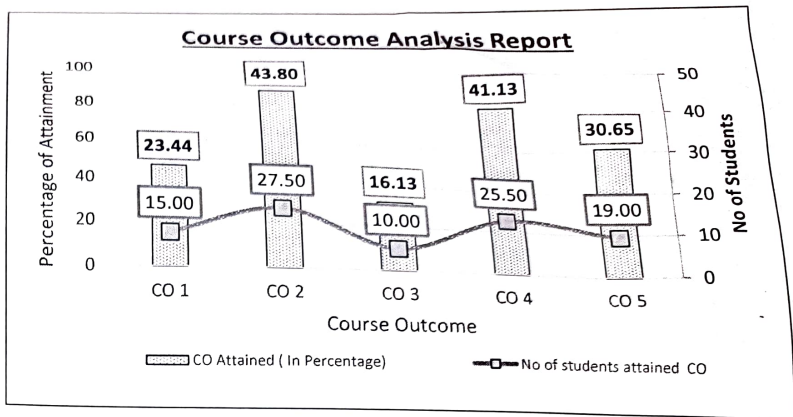
Exam Analysis	CT1	CT2	CT3	End Sem
Total No of Students	65	65	65	65
No of Students Pass	45	47	43	58
No of Students Fail	19	15	19	7
No of Students Absent	1	3	3	0
Total Attended	64	62	62	65
Maximum Mark/ Grade	84	92	82	0
Average Mark/ GPA	51.69	52.23	48.55	6.32

Assessment Analysis	CT1	CT2	CT3	End Sem Result	
No. of students above 90	0	3	0	O -->	1
No. of students 80-89	6	4	3	A+ -->	3
No. of students 70-79	2	4	5	A -->	11
No. of students 60-69	13	11	7	B+ -->	31
No. of students 50-59	24	25	28	B -->	9
No. of students 40-49	3	0	0	U -->	7
No. of students 30-39	9	3	11	-->	0
No. of students 20-29	5	7	3	-->	-
No. of students 10-19	2	3	3	-->	-
No. of students 0-9	0	2	2	-->	-

Pass Percentage (Based on Strength)	69.23	72.31	66.15	89.23
Pass Percentage (Students Attended)	70.31	75.81	69.35	89.23

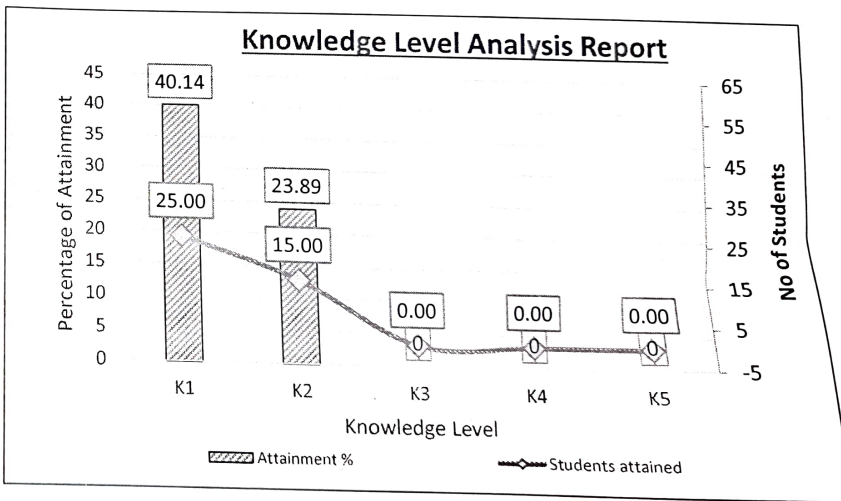


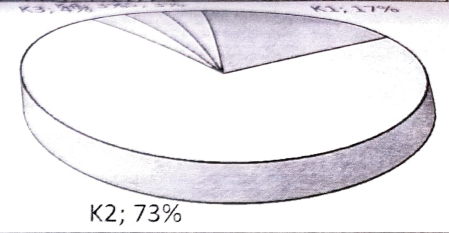
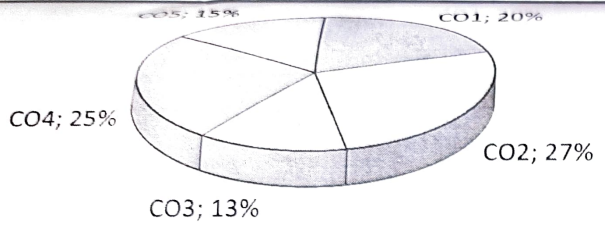
Particulars	CO 1	CO 2	CO 3	CO 4	CO 5
Secured Full Mark	0	12	0	0	0
Secured Above Average	37	67	18	81	30
Secured Below Average	27	40	41	41	28
Secured Zero	0	7	3	2	4
CO Alloted	1950	2600	1300	2470	1430
CO Alloted (By %)	100	100	100	100	100
CO Attained	1019	1418	470	1299.5	571.5
CO Attained ( In Percentage)	52.26	54.54	36.15	52.61	39.97
Maximum per CO	28	39	19	34	18
60% Max of CO	19.6	27.3	13.3	23.8	12.6
No of students attained	15	27.5	10	25.5	19
CO Attainment	23.438	43.8004	16.129	41.129	30.645
Attainment Level	0	0	0	0	0



### Knowledge Level wise Analysis

Particulars	K1	K2	K3	K4	K5
Secured Full Mark	42	0	NIL	NIL	NIL
Secured Above	79	115	NIL	NIL	NIL
Secured Below	42	73	NIL	NIL	NIL
Secured Zero	25	0	NIL	NIL	NIL
K Level Alloted	1300	8450	0	0	0
K Level Attained	695.5	4082.5	0	0	0
Attainment %	53.5	48.314	NA	NA	NA
Maximum per KL	20	115	0	0	0
60% Max	14	80.5	0	0	0
Students attained	25	15	NIL	NIL	NIL
Attainment %	40.14	23.89	NA	NA	NA
Attainment Level	0	0	NA	NA	NA





CO -PO - Attainment - All Cycle Test

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2
21ITC202.	0.00	0.00	-	-	-	-	-	-	-	-	-	0.00	0.00	0.00
21ITC202.	0.00	0.00	-	-	-	-	-	-	-	-	-	0.00	0.00	0.00
21ITC202.	0.00	0.00	-	-	-	-	-	-	-	-	-	0.00	0.00	0.00
21ITC202.	0.00	0.00	-	-	-	-	-	-	-	-	-	0.00	0.00	0.00
21ITC202.	0.00	0.00	-	-	-	-	-	-	-	-	-	0.00	0.00	0.00
21ITC202	0.00	0.00	-	-	-	-	-	-	-	-	-	0.00	0.00	0.00

Direct Attainment Level for the course IT2201-Computer Organization and Architecture

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2
End Sem	1.33	0.67	-	-	-	-	-	-	-	-	-	0.67	0.67	0.67
Internal	0.80	0.40	-	-	-	-	-	-	-	-	-	0.40	0.40	0.40
Direct Attainment	1.12	0.56	-	-	-	-	-	-	-	-	-	0.56	0.56	0.56

Direct Attainment  
**0.67**

8/4/25  
Staff Incharge

Chairperson

4/1/23  
HoD

Course	B.E
Year & Branch	III Year & Mechanical
Semester	6
Staff Name	A.Sankara Narayana Murthy
Academic Year	2022-2023
Regulation	R2020

Please Enter the PO - CO Mapping for the subject

Cycle Test No	1	2	3
Date of Exam	23.02.2023		
Subject Name	Heat and Mass Transfer		
Subject Code	ME1603	Course Code	20C309

Enter the Internal Target Value	60 %
Enter the University Grade Target Value	B+

CO	Course Outcome	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PS01	PS02
20C309.1	Apply the principle mechanism of conductive heat transfer under steady state and transient conditions	H	H	H	M	-	-	-	L	L	L	-	-	M	L
20C309.2	Apply the fundamental concepts and principles in convective heat transfer.	H	H	H	M	-	-	-	L	L	L	-	-	M	L
20C309.3	Solve problems in phase change heat transfer and heat exchangers.	H	H	H	M	-	-	-	L	L	L	-	-	M	L
20C309.4	Apply the fundamental concepts and principles in radiation heat Transfer	H	H	H	M	-	-	-	L	L	L	-	-	M	L
20C309.5	Apply the basic principles in mass transfer.	M	M	M	M	-	-	-	L	L	L	-	-	L	-

CO No	Course Outcome	Assessment Tools			
		1	2	3	4
20C309.1	Apply the principle mechanism of conductive heat transfer under steady state and transient conditions	Cycle Test 1	Assignment 1		
20C309.2	Apply the fundamental concepts and principles in convective heat transfer.	Cycle Test 1	Assignment 1		
20C309.3	Solve problems in phase change heat transfer and heat exchangers.	Cycle Test 2	Assignment 2		
20C309.4	Apply the fundamental concepts and principles in radiation heat Transfer	Cycle Test 2, Cycle Test 3	Assignment 2		
20C309.5	Apply the basic principles in mass transfer.	Cycle Test 3	Assignment 3		

Cycle Test - CO wise Coverage			
1	2	3	
100			
100			
	100		
	50	50	
		100	

Assessment Tools ( Weightage in %)					Verified
1	2	3	4		
75	25				100
75	25				100
75	25				100
75	25				100
75	25				100

CO NO	Course Outcomes	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PS01	PS02
1	Apply the principle mechanism of conductive heat transfer under steady state and transient conditions	3	3	3	2	-	-	-	1	1	1	-	-	2	1
2	Apply the fundamental concepts and principles in convective heat transfer.	3	3	3	2	-	-	-	1	1	1	-	-	2	1
3	Solve problems in phase change heat transfer and heat exchangers.	3	3	3	2	-	-	-	1	1	1	-	-	2	1
4	Apply the fundamental concepts and principles in radiation heat Transfer	3	3	3	2	-	-	-	1	1	1	-	-	1	-
5	Apply the basic principles in mass transfer.	2	2	2	2	-	-	-	1	1	1	-	-	-	-
	<b>Average</b>	<b>2.8</b>	<b>2.8</b>	<b>2.8</b>	<b>2</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

Cycle Test No		1	Name	Part A - 10 Marks					Part C - 32 Marks								Part B - 8 Marks				Total	Total						
S.No	Roll No			Course Outcome NO	Q1	Q2	Q3	Q4	Q5	7 a) i	7 a) ii	7 b) i	7 b) ii	8 a) i	8 a) ii	8 b) i	8 b) ii	5 a) i	5 a) ii	5 b) i			5 b) ii	50	100			
				Marks Allotted	CO1	CO1	CO2	CO2	CO2	CO2	NA	CO2	NA	CO1	NA	CO1	NA	CO1	NA	CO1			NA			CO1	NA	
				Knowledge Level	2	2	2	2	2	16		16		16		16	8	8	8				8				8	
					K1	K1	K1	K1	K1	K3		K2	K3	K2	K2	K2	K2	K2	K2	NIL			K2			NIL		
1	920420UME001	920420UME001	K. SAKTHIVEL	1	0	1	0	2		10					10			4			28	56						
2	920420UME002	920420UME002	RAHUL.K	0	0	0	0	0	8						0						25	50						
3	920420UME003	920420UME003	LOGESH.A	1	1	2	1	2	12						0			5			25	50						
4	920420UME004	920420UME004	M.RAJA SRINIVAS	1	2	2	0	2	0						1			0			25	50						
5	920420UME005	920420UME005	V.SANTHOSH	0	0	1	0	1	0						12			0			25	50						
6	920420UME006	920420UME006	D.VIJAY	1	0	1	0	2	0						11		10	0			32	64						
7	920420UME007	920420UME007	HARISH.S	0	0	1	0	2	0						11			0			25	50						
8	920420UME008	920420UME008	DHANUSH KUMAR.M	0	0	1	0	2	0						8			6			25	50						
9	920420UME009	920420UME009	G. ALPHONSE SAM ANTO	0	0	1	0	2	0						5			0			13	26						
10	920420UME010	920420UME010	M.SHANMUGASUNDARAM	0	0	0	0	0	0						16			0			25	50						
11	920420UME011	920420UME011	L. VIGNESH	2	0	2	0	2	14						0			1			2	4						
12	920420UME012	920420UME012	M.MANOJ KUMAR	0	0	1	0	2	10						0			1			25	50						
13	920420UME013	920420UME013	ARUL MURUGAN. K	0	0	0	0	0	0						0			0			13	26						
14	920420UME014	920420UME014	NAVANEETHA KRISHAN. P	0	0	1	0	1	9						0			0			2	4						
15	920420UME015	920420UME015	ANANTHA KANNAN.K	1	1	2	0	2	11						0			4			25	50						
16	920420UME016	920420UME016	JAIDEEP KUMAR.K	1	0	1	2	2	0						16			0			25	50						
17	920420UME017	920420UME017	M.DA.SHYAM	2	0	1	2	2	0						13			0			44	88						
18	920420UME018	920420UME018	R.MAREESWARAN	1	0	2	0	2	0						12			5			39	78						
19	920420UME019	920420UME019	KJEEVA	0	0	0	0	1	0						12			6			26	52						
20	920420UME020	920420UME020	V.BALAMANIKANDAN	2	2	2	2	2	0						12			6			25	50						
21	920420UME021	920420UME021	M.BHARATH	2	1	2	0	2	0						14			0			32	64						
22	920420UME022	920420UME022	SAIKISHORE.K	0	0	0	0	0	0						12			0			25	50						
23	920420UME023	920420UME023	U.SIVAGURU	0	0	1	0	2	0						8			0			13	26						
24	920420UME024	920420UME024	K.SIVA RAJ	0	0	2	0	2	9						10			2			15	30						
25	920420UME025	920420UME025	SHYAM GANESH.V												0			8			25	50						
26	920420UME026	920420UME026	SHANMUGAPRIYAN.A.G	0	1	2	0	2	0						0			0			AB	AB						
27	920420UME027	920420UME027	KALAI SELVAN.R	0	0	2	0	2	0						0			4			9	18						
28	920420UME028	920420UME028	N.HARIHARAN	1	1	1	1	1	10						0			5			9	18						
29	920420UME029	920420UME029	T.THANGARAJ	1	2	0	1	0	13						0			10			25	50						
30	920420UME030	920420UME030	M.HARISURIYA	0	0	2	0	2	2						0			0			6	12						
31	920420UME031	920420UME031	PREMKUMAR V V	0	0	0	0	0	2						0			2			8	16						
32	920420UME032	920420UME032	C.PRAVEEN	2	2	1	2	2	0						16			0			25	50						
33	920420UME033	920420UME033	SILAMPARASAN P	2	0	2	0	2	0						10			10			34	68						
34	920420UME034	920420UME034	SATHISHKUMAR.D	0	0	1	1	0	0						3			0			10	20						
35	920420UME036	920420UME036	R.KARTHIGAISELVAN	0	0	1	1	1	0						8			8			25	50						
36	920420UME037	920420UME037	K.THITUMALAI RAJ	0	0	0	0	1	11						0			9			25	50						
37	920420UME038	920420UME038	NAGENDRAN. J	0	0	0	0	0	0						0			0			5	10						



Cycle Test No		1	Name	Part A - 10 Marks					Part C - 32 Marks								Part B - 8 Marks				Total	Total	
S.No	Roll No			Course Outcome NO	Q1	Q2	Q3	Q4	Q5	7 a) i	7 a) ii	7 b) i	7 b) ii	8 a) i	8 a) ii	8 b) i	8 b) ii	6 a) i	6 a) ii	6 b) i			6 b) ii
				CO1	CO1	CO2	CO2	CO2	CO2	CO2	NA	CO2	NA	CO1	NA	CO1	NA	CO1	NA	CO1			NA
		Marks Allotted	2	2	2	2	2	16		16		16		16	8	8		8		50	100		
38	920420UME039	920420UME039	GOKULA KRISHNAN . E	1	0	2	1	2	0			12		0		0		0		18	36		
39	920420UME040	920420UME040	A. SREE PRABHU	0	0	2	0	2	0		10		0		8		0		5	27	54		
40	920420UME041	920420UME041	C SARAVANA KUMAR	0	0	1	0	1	3		0		0		1		0		1	7	14		
41	920420UME043	920420UME043	HG.SABARIS	1		2		2			13		2				5			25	50		
42	920420UME044	920420UME044	KESAVAN J	0	0	2	0	2	0		8		0		0		0		0	12	24		
43	920420UME045	920420UME045	C.RAJAGURU	0	1	0	1	1	0		0		0		0		0		4	7	14		
44	920420UME046	920420UME046	CHANDRAKUMAR G	0	0	2	0	2	0		10		0		10		5		0	29	58		
45	920420UME047	920420UME047	AKASH A	2	2	2	2	0	0		16		9		0		6		0	39	78		
46	920420UME048	920420UME048	SUBRAMANIAN P																	AB	AB		
47	920420UME049	920420UME049	ROHIT VISHNU. K																	AB	AB		
48	920420UME050	920420UME050	P. AKILAN KARUPPAIAH	0	0	2	0	2	0		16		0		1		6		0	27	54		
49																				AB	AB		
50																				AB	AB		
51																				AB	AB		

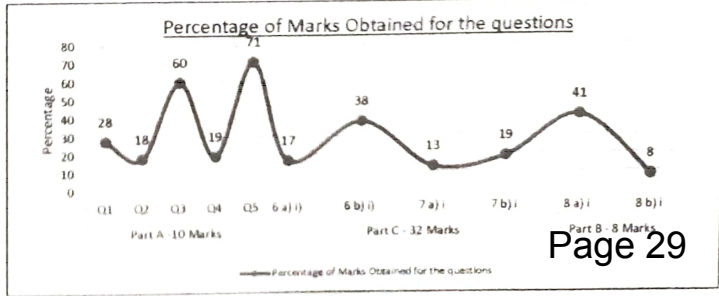
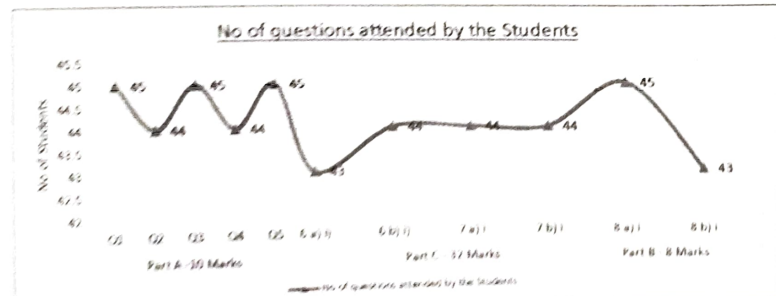
Subject Name	Heat and Mass Transfer
Subject Code	ME1603
Year and Branch	III Year & Mechanical
Subject Handled by	A.Sankara Narayana Murthy

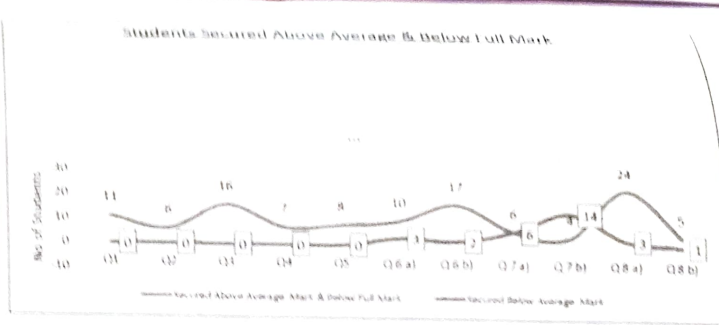
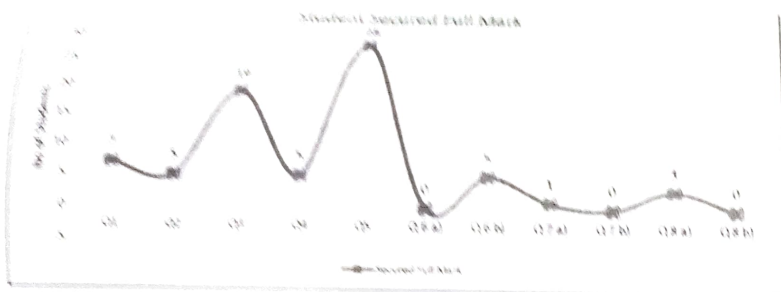
Unit Test Analysis	No
Total No of Students	48
No of Students Pass	29
No of Students Fail	16
No of Students Absent	3
Total Attended	45
Maximum Mark	88
Average Mark	42.49

Pass Percentage (Based on Strength)	60.42 %
Pass Percentage (Based on Students Attended)	64.44 %

Mark based Analysis			
No. of students above 90	0	No. of students 40-49	0
No. of students 80-89	1	No. of students 30-39	2
No. of students 70-79	2	No. of students 20-29	5
No. of students 60-69	3	No. of students 10-19	7
No. of students 50-59	23	No. of students 0-9	2

Questionwise Analysis	Part A - 10 Marks					Part C - 32 Marks								Part B - 8 Marks			
	Q1	Q2	Q3	Q4	Q5	6 a) i)	6 a) ii)	6 b) i)	6 b) ii)	7 a) i)	7 a) ii)	7 b) i)	7 b) ii)	8 a) i)	8 a) ii)	8 b) i)	8 b) ii)
No of questions attended by the Students	45	44	45	44	45	43	NA	44	NA	44	NA	44	NA	45	NA	43	NA
No of questions not attended by the Students	0	1	0	1	0	2	NA	1	NA	1	NA	1	NA	0	NA	2	NA
Total Marks Secured for the questions	25	16	54	17	64	114	0	269	0	91	0	131	0	148	0	27	0
Percentage of Marks Obtained for the questions	27.78	18.18	60.00	19.32	71.11	16.57	NA	38.21	NA	12.93	NA	18.61	NA	41.11	NA	7.85	NA
	Part A - 2 Marks					Part B - 13 Marks				Part B - 13 Marks							
Secured Full Mark	7	5	19	5	28	0	5	1	0	3	0	5	0	3	0	5	0
Secured Above Average Mark & Below Full Mark	11	6	16	7	8	10	17	6	4	24	5	11	4	24	5	11	4
Secured Below Average Mark	0	0	0	0	0	3	2	6	14	3	1	6	14	3	1	6	14
Secured Zero	27	33	10	32	9	30	20	31	26	15	37	15	37	15	37	15	37



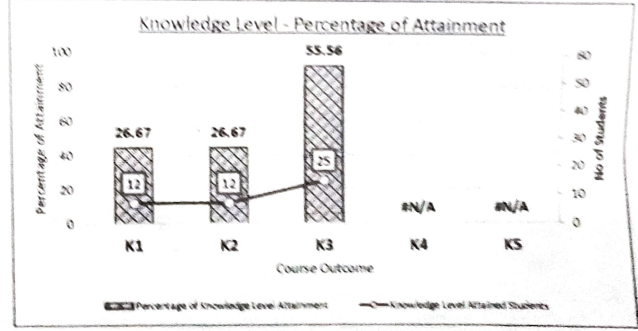
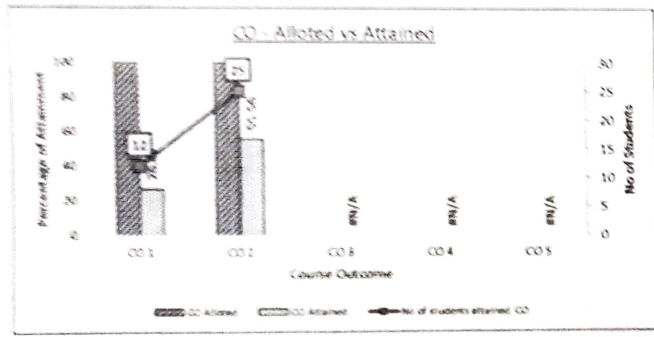


**Course Outcome wise Analysis**

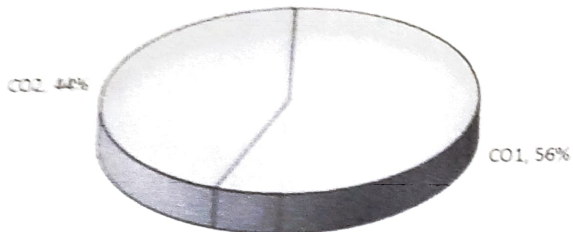
Particulars	CO 1	CO 2	CO 3	CO 4	CO 5
Secured Full Mark	0	0	NA	NA	NA
Secured Above Average Mark	12	30	NA	NA	NA
Secured Below Average Mark	50	12	NA	NA	NA
Secured Zero	3	3	NA	NA	NA
CO Allotted	1948	1056	0	0	0
CO Attained	458	518	0	0	0
CO Attained ( In Percentage)	23.50	49.05	NA	NA	NA
Maximum per CO	25	25	0	0	0
80 % Max of CO	19.58	19.8	0	0	0
No of students attained CO	12	25	NA	NA	NA
CO Attainment Percentage	26.67	55.56	NA	NA	NA
Attainment Level	0	0	NA	NA	NA

**Knowledge Level wise Analysis**

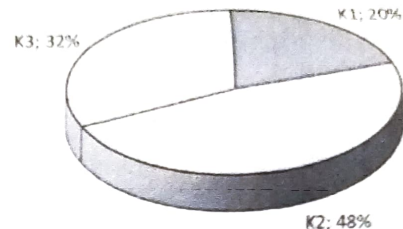
Particulars	K1	K2	K3	K4	K5
Secured Full Mark	1	0	5	NIL	NIL
Secured Above Average Mark	15	17	27	NIL	NIL
Secured Below Average Mark	23	25	5	NIL	NIL
Secured Zero	6	3	8	NIL	NIL
Knowledge Level Allotted	480	1152	768	0	0
Knowledge Level Attained	176	397	383	0	0
Attainment ( In Percentage)	36.67	34.46	49.87	NA	NA
Maximum per Knowledge Level	10	22	16	0	0
80 % Max of K Level	6	13.2	9.6	0	0
No of students attained	12	12	25	NA	NA
Attainment Percentage	26.67	26.67	55.56	NA	NA
Attainment Level	0	0	0	NA	NA



Course Outcome Distribution for the Cycle Test



Knowledge Level wise Question Distribution



CO-PO - Attainment - Cycle Test 1

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2
20C309.1	0.00	0.00	0.00	0.00	-	-	-	0.00	0.00	0.00	-	-	0.00	0.00
20C309.2	0.00	0.00	0.00	0.00	-	-	-	0.00	0.00	0.00	-	-	0.00	0.00
20C309.3	NA	NA	NA	NA	-	-	-	NA	NA	NA	-	-	NA	NA
20C309.4	NA	NA	NA	NA	-	-	-	NA	NA	NA	-	-	NA	NA
20C309.5	NA	NA	NA	NA	-	-	-	NA	NA	NA	-	-	NA	-

**Note**

NA - Not Applicable

**Attainment Level 1**

60 % Students secured more than Target Value

**Attainment Level 2**

70 % Students secured more than Target Value

**Attainment Level 3**

80 % Students secured more than Target Value

Action Plan Report for the Attainment of CO

CO	Target Value	Actual Attainment	CO Attained ?	Attainment GAP in Percentage	Action Plan to Bridge the Gap
20C309.1	50% (20/40)	26.67 %	Not Attained	-33.33 %	
20C309.2	50% (20/40)	55.56 %	Not Attained	-4.44 %	
20C309.3	50% (20/40)	NA	NA	NA	
20C309.4	50% (20/40)	NA	NA	NA	
20C309.5	50% (20/40)	NA	NA	NA	

Head, Institute

[Signature Box]

[Signature]  
Staff Incharge

[Signature]  
Chairperson

[Signature]  
HoD

Cycle Test No		2	Name	Part A - 10 Marks					Part C - 12 Marks						Part B - 8 Marks				Total	Total			
S.No	Registration No			Roll No	Course Outcome NO					7 a) i	7 a) ii	7 b) i	7 b) ii	8 a) i	8 a) ii	8 b) i	8 b) ii	6 a) i			6 a) ii	6 b) i	6 b) ii
					CO3	CO3	CO4	CO4	CO4	CO3	NA	CO3	NA	CO4	NA	CO4	NA	CO3			NA	CO3	NA
					Marks Allotted	2	2	2	2	2	16		16		16		16						8
Knowledge Level	K1	K1	K1	K1	K1	K3	NIL	K3	NIL	K3	NIL	K3	NIL	K2	NIL	K2	NIL						
1	920420UME001	920420UME001	K. SAKTHIVEL	1	1	2	2	2			12		14				3		37	74			
2	920420UME002	920420UME002	RAHUL K					1			13				8		3		25	50			
3	920420UME003	920420UME003	LOGESH A		1			1			16						2		20	40			
4	920420UME004	920420UME004	M RAJA SRINIVAS					1			6				5		2		14	28			
5	920420UME005	920420UME005	V. SANTHOSH			1	2	2			16		14				5		40	80			
6	920420UME006	920420UME006	D. VIJAY			1		2			10		6				6		25	50			
7	920420UME007	920420UME007	HARISH S		2	2	2	2			4		16				6		34	68			
8	920420UME008	920420UME008	DHANUSH KUMAR.M	1	1	1	1	1	14						2		4		25	50			
9	920420UME009	920420UME009	G. ALPHONSE SAM ANTO			1	1	2			3				3			5	15	30			
10	920420UME010	920420UME010	M. SHANMUGASUNDARAM	1	1	1	1	1											5	10			
11	920420UME011	920420UME011	L. VIGNESH			2	2	2	10			10						3	29	58			
12	920420UME012	920420UME012	M.MANOJ KUMAR			1	1	1			10		10					2	25	50			
13	920420UME013	920420UME013	ARIJUL MURUGAN. K			1	1	1	2				14			6			25	50			
14	920420UME014	920420UME014	NAVANEETHA KRISHAN. P	1	1	1	1	1			12		5				4		26	52			
15	920420UME015	920420UME015	ANANTHA KANNAN.K										0						0	0			
16	920420UME016	920420UME016	JAIDEEP KUMAR.K	2		1	1	1			16		10					7	38	76			
17	920420UME017	920420UME017	M. DA.SHYAM	2	2	1	2	2			16		14					7	46	92			
18	920420UME018	920420UME018	R.MAREESWARAN	1	1	1	2	2			7				6		5		25	50			
19	920420UME019	920420UME019	K.JEEVA	2		1	2				6				10		4		25	50			
20	920420UME020	920420UME020	V.BALAMANIKANDAN			1	1	1			12				14		2		31	62			
21	920420UME021	920420UME021	M.BHARATH	1	1	1		2			8								13	26			
22	920420UME022	920420UME022	SAIKISHORE.K			1	1	1	8				8				6		25	50			
23	920420UME023	920420UME023	U.SIVAGURU			1	1	1			16		14				2		34	68			
24	920420UME024	920420UME024	K.SIVA RAJ								1				1		5		7	14			
25	920420UME025	920420UME025	SHYAM GANESH.V			1		1			10		10				3		25	50			
26	920420UME026	920420UME026	SHANMUGAPRIYAN.A.G																AB	AB			
27	920420UME027	920420UME027	KALAI SELVAN.R	2	2	1	1	1			10				5		3		25	50			
28	920420UME028	920420UME028	N.HARIHARAN								9		12				4		25	50			
29	920420UME029	920420UME029	T.THANGARAJ								12				11				25	50			
30	920420UME030	920420UME030	M.HARISURIYA	2	2	2	1	2			12							4	25	50			
31	920420UME031	920420UME031	PREMKUMAR V V	2		1	1	2								3			9	18			
32	920420UME032	920420UME032	C.PRAVEEN	2	2						16				10				30	60			
33	920420UME033	920420UME033	SILAMPARASAN P			1		1			9		13				2		26	52			
34	920420UME034	920420UME034	SATHISHKUMAR.D		2	1					16		6						25	50			
35	920420UME036	920420UME036	R.KARTHIGAISELVAN	1		1		1			16		8				2		25	50			
36	920420UME037	920420UME037	K.THITUMALAI RAJ		1						10				11		3		25	50			
37	920420UME038	920420UME038	NAGENDRAN. J			1	1	1			3							3	9	18			

Sl. No	Registration No	Roll No	Name	Part A - 10 Marks					Part C - 32 Marks								Part B - 8 Marks				Total	Total
				Q1	Q2	Q3	Q4	Q5	7 a) i	7 a) ii	7 b) i	7 b) ii	8 a) i	8 a) ii	8 b) i	8 b) ii	6 a) i	6 a) ii	6 b) i	6 b) ii		
				CO3	CO3	CO4	CO4	CO4	CO3	NA	CO3	NA	CO4	NA	CO4	NA	CO3	NA	CO3	NA		
				2	2	2	2	2	16		16		16		16			8		42	100	
38	520420UNWE139	520420UNWE139	GOKULA KRISHNAN . E	2	1	1		1			16						4			25	50	
39	520420UNWE140	520420UNWE140	A. SREE PRABHU	1	1	1		1			10				9		2			25	50	
40	520420UNWE141	520420UNWE141	C SARAVANA KUMAR								2			2				2		6	12	
41	520420UNWE142	520420UNWE142	HE.SABARIS	2	1	1	1	1			9				3			7		25	50	
42	520420UNWE143	520420UNWE143	KESAVAN J		1	1	1	1			12				4		5			25	50	
43	520420UNWE144	520420UNWE144	C.RAJAGURU	1	1	1	1	1	8				8				4			25	50	
44	520420UNWE145	520420UNWE145	CHANDRAKUMAR G		1	1	1	1			16				8					28	56	
45	520420UNWE146	520420UNWE146	AKASH A	2		1	1	2	12				16					6		40	80	
46	520420UNWE147	520420UNWE147	SUBRAMANIAN P			1	1	1			16				6		2			27	54	
47	520420UNWE148	520420UNWE148	ROHIT VISHNU. K											0						0	0	
48	520420UNWE149	520420UNWE149	P. AKILAN KARUPPALAH			1	1	1			16		12				5			36	72	
49																				AB	AB	
50																				AB	AB	

Subject Name	Heat and Mass Transfer
Subject Code	ME 1601
Year and Branch	III Year & Mechanical
Subject Handled by	A.Sankara Narayana Murthy

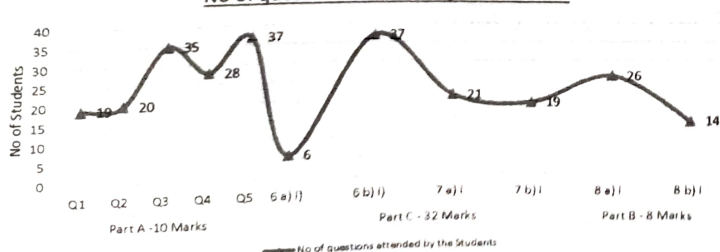
Unit Test Analysis	No
Total No of Students	48
No of Students Pass	36
No of Students Fail	11
No of Students Absent	1
Total Attended	47
Maximum Mark	92
Average Mark	48.04

Pass Percentage (Based on Strength)	75.00 %
Pass Percentage (Based on Students Attended)	76.60 %

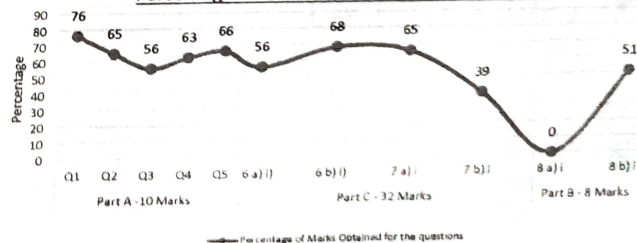
Mark based Analysis			
No. of students above 90	1	No. of students 40-49	1
No. of students 80-89	2	No. of students 30-39	1
No. of students 70-79	3	No. of students 20-29	2
No. of students 60-69	4	No. of students 10-19	5
No. of students 50-59	26	No. of students 0-9	2

Questionwise Analysis	Part A - 10 Marks					Part C - 32 Marks								Part B - 8 Marks			
	Q1	Q2	Q3	Q4	Q5	6 a) i)	6 a) ii)	6 b) i)	6 b) ii)	7 a) i)	7 a) ii)	7 b) i)	7 b) ii)	8 a) i)	8 a) ii)	8 b) i)	8 b) ii)
No of questions attended by the Students	19	20	35	28	37	6	NA	37	NA	21	NA	19	NA	26	NA	14	NA
No of questions not attended by the Students	28	27	12	19	10	41	NA	10	NA	26	NA	28	NA	21	NA	33	NA
Total Marks Secured for the questions	29	26	39	35	49	54	0	404	0	220	0	118	0	98	0	57	0
Percentage of Marks Obtained for the questions	76.32	65.00	55.71	62.50	66.22	56.25	NA	68.24	NA	65.48	NA	38.82	NA	#DIV/0!	NA	50.89	NA
	Part A - 2 Marks					Part B - 13 Marks								Part B - 13 Marks			
Secured Full Mark	10	6	4	7	12	0	12	2	0	46	0	26	7				
Secured Above Average Mark & Below Full Mark	9	14	31	21	25	5	17	15	8	26	7	46	7				
Secured Below Average Mark	0	0	0	0	0	1	8	3	10	-46	7	46	7				
Secured Zero	0	0	0	0	0	0	0	1	1	0	0	46	7				

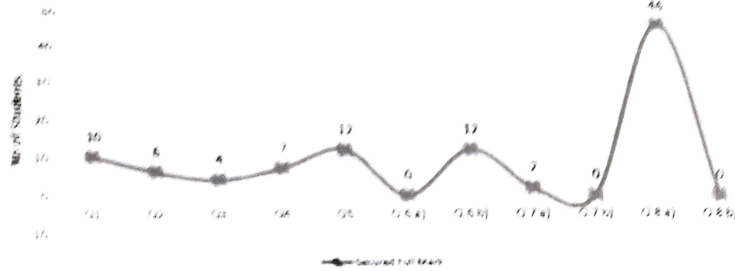
No of questions attended by the Students



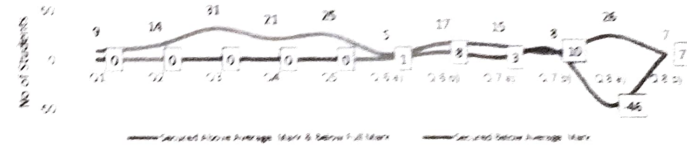
Percentage of Marks Obtained for the questions



Student Secured Full Mark



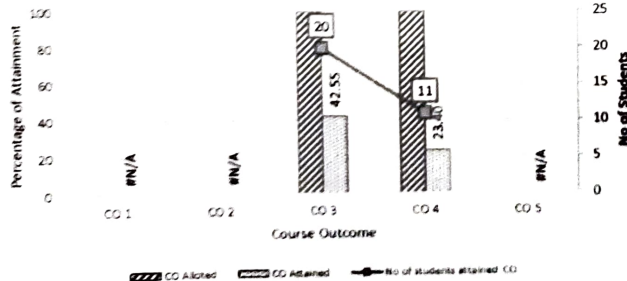
Students Secured Above Average & Below Full Mark



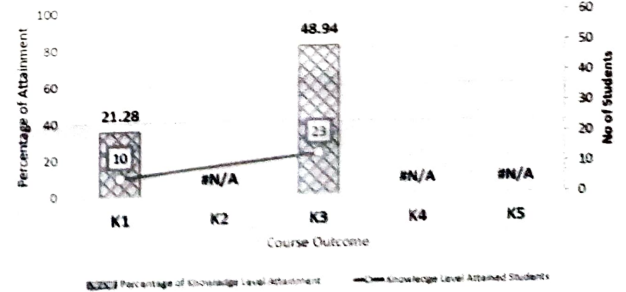
Course Outcome wise Analysis					
Particulars	CO 1	CO 2	CO 3	CO 4	CO 5
Secured Full Mark	NA	NA	4	1	NA
Secured Above Average Mark	NA	NA	33	22	NA
Secured Below Average Mark	NA	NA	8	22	NA
Secured Zero	NA	NA	2	2	NA
CO Allotted	0	0	960	1056	0
CO Attained	0	0	662	461	0
CO Attained ( In Percentage)	NA	NA	69.58	43.66	NA
Maximum per CO	0	0	27	22	0
60 % Max of CO	0	0	16.2	13.2	0
No of students attained CO	NA	NA	20	11	NA
CO Attainment Percentage	NA	NA	42.55	23.40	NA
Attainment Level	NA	NA	0	0	NA

Knowledge Level wise Analysis					
Particulars	K1	K2	K3	K4	K5
Secured Full Mark	0	NIL	0	NIL	NIL
Secured Above Average Mark	19	NIL	33	NIL	NIL
Secured Below Average Mark	22	NIL	10	NIL	NIL
Secured Zero	6	NIL	4	NIL	NIL
Knowledge Level Allotted	480	0	0	0	0
Knowledge Level Attained	178	155	0	0	0
Attainment ( In Percentage)	37.08	NA	NA	NA	NA
Maximum per Knowledge Level	9	7	30	0	0
60 % Max of K Level	5.4	4.2	18	0	0
No of students attained	10	NA	23	NA	NA
Attainment Percentage	21.28	NA	48.94	NA	NA
Attainment Level	0	NA	0	NA	NA

CO - Allotted vs Attained

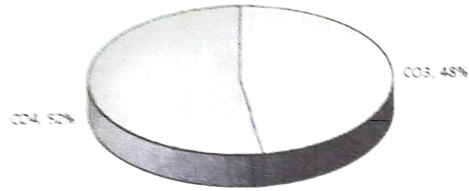


Knowledge Level - Percentage of Attainment

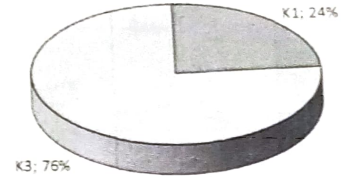




Course Outcome Distribution for the Cycle Test



Knowledge Level wise Question Distribution



CO -PO - Attainment - Cycle Test 2															
CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	
ZINCENE.1	NA	NA	NA	NA	-	-	-	NA	NA	NA	-	-	NA	NA	
ZINCENE.2	NA	NA	NA	NA	-	-	-	NA	NA	NA	-	-	NA	NA	
ZINCENE.3	0.00	0.00	0.00	0.00	-	-	-	0.00	0.00	0.00	-	-	0.00	0.00	
ZINCENE.4	0.00	0.00	0.00	0.00	-	-	-	0.00	0.00	0.00	-	-	0.00	0.00	
ZINCENE.5	NA	NA	NA	NA	-	-	-	NA	NA	NA	-	-	NA	-	

**Note**

NA - Not Applicable

**Attainment Level 1**

50 % Students secured more than Target Value

**Attainment Level 2**

70 % Students secured more than Target Value

**Attainment Level 3**

80 % Students secured more than Target Value

Action Plan Report for the Attainment of CO					
CO	Target Value	Actual Attainment	CO Attained ?	Attainment GAP in Percentage	Action Plan to Bridge the Gap
ZINCENE.1	50 %of Maximum Mark	NA	NA	NA	
ZINCENE.2	50 %of Maximum Mark	NA	NA	NA	
ZINCENE.3	50 %of Maximum Mark	42.55 %	Not Attained	-17.45 %	
ZINCENE.4	50 %of Maximum Mark	23.4 %	Not Attained	-36.6 %	
ZINCENE.5	50 %of Maximum Mark	NA	NA	NA	

HoD Remarks

*[Signature]*  
Staff Incharge

*[Signature]*  
Chairperson

*[Signature]*  
HoD

Circle Test No.	3	Name	Part A - 10 Marks					Part C - 32 Marks										Total	Total			
			Course Outcome No.	Q1	Q2	Q3	Q4	Q5	7 a) i	7 a) ii	7 b) i	7 b) ii	8 a) i	8 a) ii	8 b) i	8 b) ii	9 a) i			9 a) ii	9 b) i	9 b) ii
				Marks Allowed	2	2	2	2	2	15	15	15	15	15	15	8	8			8	8	
				Knowledge Level	K1	K2	K1	K1	K1	K3	NIL	K3	NIL	K3	NIL	K3	NIL			K3	NIL	K3
920420JME001	920420JME001	M. SATHISHVEL	2	2			1	1	7					12					25	50		
920420JME002	920420JME002	RAJESH K					1	1	15					12				7	33	66		
920420JME003	920420JME003	LOGESH J							7					15					26	52		
920420JME004	920420JME004	M. RAJESH KRISHNAN					1	1	1					15				7	27	54		
920420JME005	920420JME005	S. SATHISH	2	2			2	2	2			15	15					8	46	92		
920420JME006	920420JME006	T. VIJAY	2				2	2	15				2						25	50		
920420JME007	920420JME007	HARISH C	2				1	1	12					15				7	39	78		
920420JME008	920420JME008	SHANMUKH KUMAR M	2	2			2	2	15					15			6		44	88		
920420JME009	920420JME009	T. RAJENDRAN SANKARAN					1	1	1			10	13			1			29	58		
920420JME010	920420JME010	M. SHANMUKH SANKARAN																	2	4		
920420JME011	920420JME011	L. VIJAYAN	2	2			2	2	12				7					7	34	68		
920420JME012	920420JME012	M. MANOJ KUMAR					2	2	2			7						5	25	50		
920420JME013	920420JME013	RAJESH KRISHNAN K					1	1	2					14				6	25	50		
920420JME014	920420JME014	THEJASREE KRISHNAN P					1	1	1					11			4		30	60		
920420JME015	920420JME015	ANASTHA KANNAN K					1	1						3				3	10	20		
920420JME016	920420JME016	JAYASH KUMAR K					1	1	1					16				7	43	86		
920420JME017	920420JME017	M. RAJESH					1	1	1			14				6	7		33	66		
920420JME018	920420JME018	P. MANOJSHANKAR					1	1	2			16						8	35	70		
920420JME019	920420JME019	V. RAJESH					1	1				10						8	38	76		
920420JME020	920420JME020	V. SURESHKANNAN					1	1	1			3						7	29	58		
920420JME021	920420JME021	M. SURESH	2	2			2	2	2			14						8	46	92		
920420JME022	920420JME022	SARASWATHI K					1	1	1			8				8		3	25	50		
920420JME023	920420JME023	J. SURESH					1	1	1					15				8	28	56		
920420JME024	920420JME024	V. VIJAY K	2	1			1	2	1			7					3		25	50		
920420JME025	920420JME025	SHYAM SATHISH V	2				2	2	2			5				4		8	25	50		
920420JME026	920420JME026	SHANMUKHAPPIYAN A.C					1	1	1			10						7	37	74		
920420JME027	920420JME027	KALAI SELVAN R					1	1	1			15				15		8	43	86		
920420JME028	920420JME028	G. HARISHARAN	2	1			1	1	2			6				12			25	50		
920420JME029	920420JME029	L. THANGARAJ										15							15	30		
920420JME030	920420JME030	M. HARISHRITHA					1	1	1			12				12		2	31	62		
920420JME031	920420JME031	PREMAKUMAR V V							1			12							25	50		
920420JME032	920420JME032	C. PRAVEEN					1		1			13				14			30	60		
920420JME033	920420JME033	SHAMPARASAN P					1	1	1			12				12		5	32	64		
920420JME034	920420JME034	SATHISHKUMAR D					1	1	1			15				15			33	66		
920420JME035	920420JME035	R. KARTHIGAISELVAN					1	1	1			15				6			26	52		
920420JME037	920420JME037	K. THITUMALAI RAJ					1	1	1			10				9		2	25	50		
920420JME038	920420JME038	NAGENDRAN. J										15				2			25	50		

S.No	Cycle Test No	3	Name	Part A - 10 Marks					Part C - 32 Marks								Part B - 8 Marks				Total	Total
				Q1	Q2	Q3	Q4	Q5	7 a) i	7 a) ii	7 b) i	7 b) ii	8 a) i	8 a) ii	8 b) i	8 b) ii	6 a) i	6 a) ii	6 b) i	6 b) ii		
				Course Outcome NO	CO4	CO4	CO5	CO5	CO5	CO4	NA	CO4	NA	CO5	NA	CO5	NA	CO5	NA	CO5		
Registration No	Roll No	Marks Allotted	2	2	2	2	2	16		16		16		16		8		8		50	100	
38	920420UME039	920420UME039	GOKULA KRISHNAN . F	2		2	2	2			12		16						8		44	88
39	920420UME040	920420UME040	A. SREE PRABHU	1	1	1	1	1	14				14						8		41	82
40	920420UME041	920420UME041	C SARAVANA KUMAR		1	1	1	1			3				3				3		13	26
41	920420UME043	920420UME043	HG SABARIS	1		1	1	2			15		12						8		40	80
42	920420UME044	920420UME044	KESAVAN J	1	1	1	1	2	10						5		4				25	50
43	920420UME045	920420UME045	C RAJAGURU	1	1	1	1	1	8						4		4				17	34
44	920420UME046	920420UME046	C HANDRAKUMAR G						16				9								25	50
45	920420UME047	920420UME047	AKASH A	1	1	1	1	1			11				4				8		11	62
46	920420UME048	920420UME048	SUBRAMANIAN P								16										16	32
47	920420UME049	920420UME049	ROHIT VISHNU K		1	1	1	1	4						4		3				15	30
48	920420UME050	920420UME050	P. AKILAN KARUPPAIAH	1	1	1	1	1			11				14		8				41	82
49																					AB	AB
50																					AB	AB
51																					AB	AB
52																					AB	AB
53																					AB	AB
54																					AB	AB
55																					AB	AB

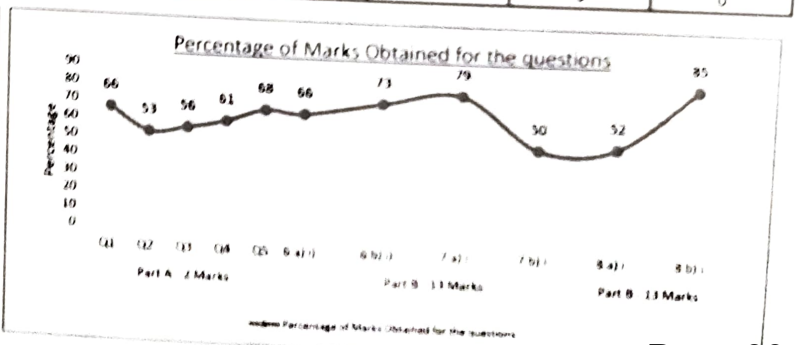
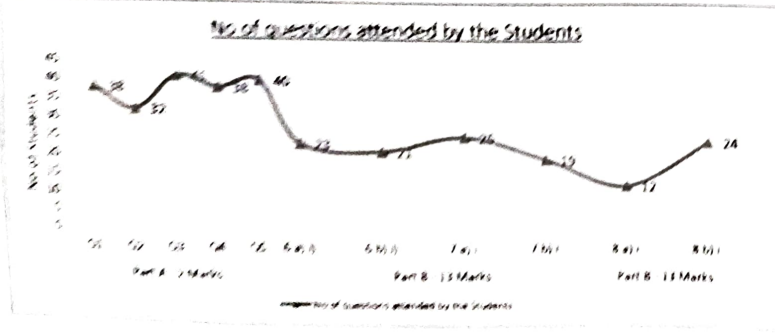
Subject Name	Heat and Mass Transfer
Subject Code	ME1603
Year and Branch	III Year & Mechanical
Subject Handled by	A.Sankara Narayana Murthy

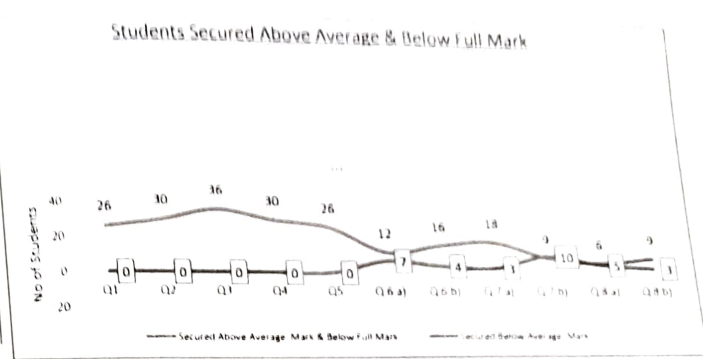
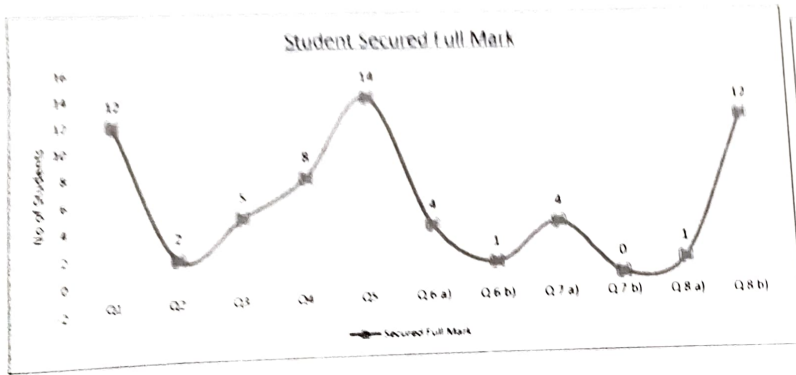
Unit Test Analysis	No
Total No of Students	48
No of Students Pass	41
No of Students Fail	7
No of Students Absent	0
Total Attended	48
Maximum Mark	92
Average Mark	58.42

Pass Percentage (Based on Strength)	85.42 %
Pass Percentage (Based on Students Attended)	85.42 %

Mark based Analysis			
No. of students above 90	2	No. of students 40-49	0
No. of students 80-89	7	No. of students 30-39	4
No. of students 70-79	4	No. of students 20-29	2
No. of students 60-69	9	No. of students 10-19	0
No. of students 50-59	19	No. of students 0-9	1

Questionwise Analysis	Part A - 2 Marks					Part B - 13 Marks								Part B - 13 Marks			
	Q1	Q2	Q3	Q4	Q5	6 a) i)	6 a) ii)	6 b) i)	6 b) ii)	7 a) i)	7 a) ii)	7 b) i)	7 b) ii)	8 a) i)	8 a) ii)	8 b) i)	8 b) ii)
No. of questions attended by the Students	38	32	41	38	40	23	NA	21	NA	25	NA	19	NA	12	NA	24	NA
No. of questions not attended by the Students	10	16	7	10	8	25	NA	27	NA	23	NA	29	NA	36	NA	24	NA
Total Marks Secured for the questions	50	34	46	46	54	243	0	246	0	316	0	153	0	50	0	164	0
Percentage of Marks Obtained for the questions	65.79	53.13	56.10	60.53	67.50	66.03	NA	73.21	NA	79.00	NA	50.33	NA	52.08	NA	67.47	NA
	Part A - 2 Marks					Part B - 13 Marks								Part B - 13 Marks			
Secured Full Mark	12	7	5	8	14	4		1		4		0		1		12	
Secured Above Average Mark & Below Full Mark	26	30	36	30	26	12		16		18		9		6		9	
Secured Below Average Mark	0	0	0	0	0	7		4		3		10		5		3	
Secured Zero	0	0	0	0	0	0		0		0		0		0		0	



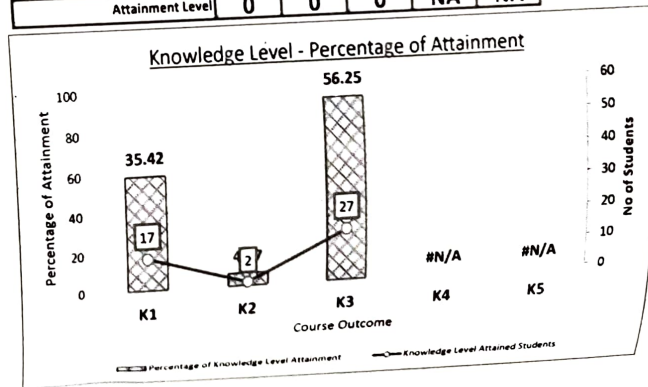
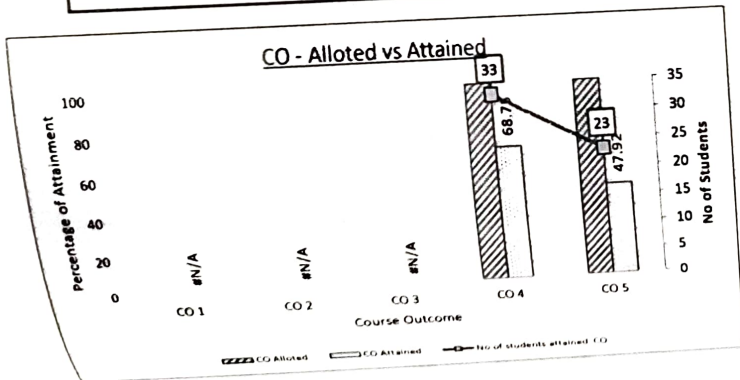


### Course Outcome wise Analysis

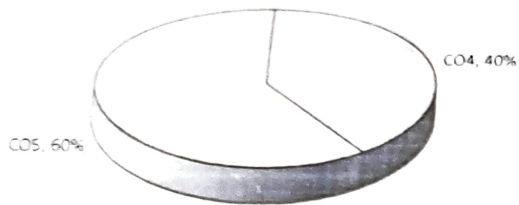
Particulars	CO 1	CO 2	CO 3	CO 4	CO 5
Secured Full Mark	NA	NA	NA	0	1
Secured Above Average Mark	NA	NA	NA	35	32
Secured Below Average Mark	NA	NA	NA	13	12
Secured Zero	NA	NA	NA	0	3
CO Alloted	0	0	0	960	1440
CO Attained	0	0	0	573	829
CO Attained ( In Percentage)	NA	NA	NA	59.69	57.57
Maximum per CO	0	0	0	18	30
60 % Max of CO	0	0	0	10.8	18
No of students attained CO	NA	NA	NA	33	23
CO Attainment Percentage	NA	NA	NA	68.75	47.92
Attainment Level	NA	NA	NA	1	0

### Knowledge Level wise Analysis

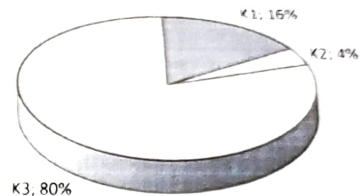
Particulars	K1	K2	K3	K4	K5
Secured Full Mark	3	2	0	NIL	NIL
Secured Above Average Mark	29	30	33	NIL	NIL
Secured Below Average Mark	12	0	14	NIL	NIL
Secured Zero	4	16	1	NIL	NIL
Knowledge Level Alloted	384	96	0	0	0
Knowledge Level Attained	196	34	0	0	0
Attainment ( In Percentage)	51.04	35.42	NA	NA	NA
Maximum per Knowledge Level	8	2	39	0	0
60 % Max of K Level	4.8	1.2	23.4	0	0
No of students attained	17	2	27	NA	NA
Attainment Percentage	35.42	4.17	56.25	NA	NA
Attainment Level	0	0	0	NA	NA



Course Outcome Distribution for the Cycle Test



Knowledge Level wise Question Distribution



CO -PO - Attainment - Cycle Test 3														
CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2
20C309.1	NA	NA	NA	NA	-	-	-	NA	NA	NA	-	-	NA	NA
20C309.2	NA	NA	NA	NA	-	-	-	NA	NA	NA	-	-	NA	NA
20C309.3	NA	NA	NA	NA	-	-	-	NA	NA	NA	-	-	NA	NA
20C309.4	0.50	0.50	0.50	0.33	-	-	-	0.17	0.17	0.17	-	-	0.33	0.17
20C309.5	0.00	0.00	0.00	0.00	-	-	-	0.00	0.00	0.00	-	-	0.00	-

**Note**

NA - Not Applicable

Attainment Level 1

60 % Students secured more than Target Value

Attainment Level 2

70 % Students secured more than Target Value

Attainment Level 3

80 % Students secured more than Target Value

Action Plan Report for the Attainment of CO					
CO	Target Value	Actual Attainment	CO Attained ?	Attainment GAP in Percentage	Action Plan to Bridge the Gap
20C309.1	60 %of Maximum Mark	NA	NA	NA	
20C309.2	60 %of Maximum Mark	NA	NA	NA	
20C309.3	60 %of Maximum Mark	NA	NA	NA	
20C309.4	60 %of Maximum Mark	68.75 %	Attained	8.75 %	
20C309.5	60 %of Maximum Mark	47.92 %	Not Attained	12.08 %	

HoD Remarks

*ASC*  
Staff Incharge

*R. Reddy*  
Chairperson

Subject Code	MT8781	Academic Year	2022-2023
Subject Name	Robotics Laboratory	Semester	ODD
Staff Name	Mr.S.Wesley Moses Samdoss	Year & Branch	IV MTRE

CO No	Course Outcomes	Assesment Tools			
		1	2	3	4
1	Ability to determine maximum and minimum position of links	Lab Record	Model		
2	Ability to verify transformation with respect to gripper and world Coordinate system	Lab Record	Model		
3	Ability to estimate accuracy, repeatability and resolution of robot	Lab Record	Model		
4	Ability to use robotic simulation software to perform different types of operation using robots	Lab Record	Model		
5	Ability to use robotic simulation software to perform position and gripping force analysis	Lab Record	Model		

Assesment Tools ( Weightages in %)			
1	2	3	4
75	25		
75	25		
75	25		
75	25		
75	25		

Target Level
80 %

100

100

100

100

100

University Target Level
B

CO NO	Course Outcomes	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PS01	PS02
1	Ability to determine maximum and minimum position of links	H	M	L	L	L	L	L	L	M	M	L	L	M	M
2	Ability to verify transformation with respect to gripper and world Coordinate system	H	M	L	L	L	L	L	L	M	M	L	L	M	M
3	Ability to estimate accuracy, repeatability and resolution of robot	H	M	L	L	L	L	L	L	M	M	L	L	M	M
4	Ability to use robotic simulation software to perform different types of operation using robots	H	M	L	L	L	L	L	L	M	M	L	L	M	M
5	Ability to use robotic simulation software to perform position and gripping force analysis	H	M	L	L	L	L	L	L	M	M	L	L	M	M

CO NO	Course Outcomes	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PS01	PS02
1	Ability to determine maximum and minimum position of links	3	2	1	1	1	1	1	1	2	2	1	1	2	2
2	Ability to verify transformation with respect to gripper and world Coordinate system	3	2	1	1	1	1	1	1	2	2	1	1	2	2
3	Ability to estimate accuracy, repeatability and resolution of robot	3	2	1	1	1	1	1	1	2	2	1	1	2	2
4	Ability to use robotic simulation software to perform different types of operation using robots	3	2	1	1	1	1	1	1	2	2	1	1	2	2
5	Ability to use robotic simulation software to perform position and gripping force analysis	3	2	1	1	1	1	1	1	2	2	1	1	2	2
	Average	3	2	1	1	1	1	1	1	2	2	1	1	2	2

S.No	Section	Roll No	Reg No	Name	AU Results	AU Results	Lab Record	Model Exam
1		19UMTR001	920419115001	ANU AKSHAYAA.R.M	O	10	97	92
2		19UMTR002	920419115002	ARAVIND.N	O	10	99	77
3		19UMTR003	920419115003	ARJUN.P	O	10	92	88
4		19UMTR004	920419115005	BASKARA PANDI.P	O	10	92	92
5		19UMTR005	920419115006	BAWANKALYAN.A.P	A+	9	94	81
6		19UMTR006	920419115007	DEVADHARSHINI.R	O	10	98	86
7		19UMTR007	920419115008	GOWTHAM.G	A+	9	96	79
8		19UMTR008	920419115009	HARIHARAN.G	A+	9	87	77
9		19UMTR009	920419115010	HARI RAJ.P.R	A+	9	93	87
10		19UMTR010	920419115011	JOTHI VENKATESH.K	O	10	94	99
11		19UMTR011	920419115012	KARTHICK NISSANTH.N	A+	9	97	82
12		19UMTR012	920419115013	KRISHNAPRAKASH.M	O	10	97	81
13		19UMTR013	920419115014	MANOJ PRABHU.M	O	10	92	89
14		19UMTR014	920419115015	MOHAMED ANAS.S	A+	9	86	76
15		19UMTR015	920419115016	MOHAMED NAZEER ANSARI.H	O	10	96	98
16		19UMTR016	920419115017	MOHAMMED IBRAHIM.S	A+	9	96	70
17		19UMTR017	920419115018	NARANDRA KUMAR.R	A	8	90	60
18		19UMTR018	920419115019	NAVEENKUMAR.V	A+	9	97	70
19		19UMTR019	920419115020	PONRAM.R	O	10	92	85
20		19UMTR020	920419115021	PRASANNA.M	A	8	92	60
21		19UMTR021	920419115022	RAGULRAJ.K	A+	9	91	81
22		19UMTR022	920419115023	RAMA CHANDRU.T	O	10	94	94
23		19UMTR023	920419115024	SABESH NOVIN.S	O	10	99	98
24		19UMTR024	920419115025	SANJEEV.K	A	8	86	65
25		19UMTR025	920419115026	SANKARANARAYANAN.S	O	10	99	96
26		19UMTR026	920419115027	SANTHOSH.S	A	8	90	62
27		19UMTR027	920419115028	SANTHOSH ELAVARASAN.D	A+	9	95	77
28		19UMTR028	920419115030	SATHYA.K.K	O	10	82	94
29		19UMTR029	920419115031	SELVAKUMARAVEL.E	O	10	93	81
30		19UMTR030	920419115032	SIVA.A	O	10	96	84
31		19UMTR031	920419115033	THIRUMALAISELVA.J	O	10	100	96
32		19UMTR032	920419115034	VIJAYA KUMAR.E	A+	9	96	79
33		19UMTR033	920419115035	VIKAASH.P	O	10	99	96
34		19UMTR034	920419115301	ANANTH.R	A	8	93	71
35		19UMTR035	920419115302	MOHAMED ALTHAF.A	A	8	89	71
36		19UMTR036	920419115303	NALANRAJ SHANMUGAM.S	A	8	93	63
37		19UMTR037	920419115304	RAMVENKADESH.S	O	10	88	81
38		19UMTR038	920419115305	SAMUVELKINGSLY.I	A+	9	86	66
39		19UMTR039	920419115306	SOLAI RAGUL.R	A+	9	89	72
40		19UMTR041	920419115501	PRITHIVIRAJAN.M	A+	9	92	71
41		18UMTR036	920419115502	RAJAPRABHU.T	A+	9	85	80
42								
43								
44								
45								
46								
47								
48								
49								



28	19UMTR028	920419115030	SATHYA.K.K	O	10	82	94
29	19UMTR029	920419115031	SELVAKUMARAVEL.E	O	10	93	81
30	19UMTR030	920419115032	SIVA.A	O	10	96	84
31	19UMTR031	920419115033	THIRUMALAISELVA.J	O	10	100	96
32	19UMTR032	920419115034	VIJAYA KUMAR.E	A+	9	96	79
33	19UMTR033	920419115035	VIKAASH.P	O	10	99	96
34	19UMTR034	920419115301	ANANTH.R	A	8	93	71
35	19UMTR035	920419115302	MOHAMED ALTHAF.A	A	8	89	71
36	19UMTR036	920419115303	NALANRAJ SHANMUGAM.S	A	8	93	63
37	19UMTR037	920419115304	RAMVENKADESH.S	O	10	88	81
38	19UMTR038	920419115305	SAMUVELKINGSLY.I	A+	9	86	66
39	19UMTR039	920419115306	SOLAI RAGUL.R	A+	9	89	72
40	19UMTR041	920419115501	PRITHIVIRAJAN.M	A+	9	92	71
41	18UMTR036	920419115502	RAJAPRABHU.T	A+	9	85	80
42							
43							
44							
45							
46							
47							
48							
49							

No of Students Attended	41	41	41	41
No of Students Pass	41	41	41	41
No of Student Fail	0	0	0	0
Pass Percentage	100.00	100.00	100.00	100.00
No of Students Absent	0	0	0	0
Total Attended	41	41	41	41

Target Value	B	8		
Internal Maximum Mark			100	99

CO No	Course Outcomes	Assessment Tools	Weightage (In %)	Contribution to Programme Outcomes & Program Specific Outcome														
				PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	
1	Ability to determine maximum and minimum position of links	Lab Record	75	2.25	1.50	0.75	0.75	0.75	0.75	0.75	0.75	1.50	1.50	0.75	0.75	1.50	1.50	
		Model	25	0.75	0.50	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.50	0.50	0.25	0.25	0.50	0.50
		<b>CO 1 - Attainment</b>		<b>3.00</b>	<b>2.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>2.00</b>	<b>2.00</b>	<b>1.00</b>	<b>1.00</b>	<b>2.00</b>	<b>2.00</b>
2	Ability to verify transformation with respect to gripper and world Coordinate system	Lab Record	75	2.25	1.50	0.75	0.75	0.75	0.75	0.75	0.75	1.50	1.50	0.75	0.75	1.50	1.50	
		Model	25	0.75	0.50	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.50	0.50	0.25	0.25	0.50	0.50
		<b>CO 2 - Attainment</b>		<b>3.00</b>	<b>2.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>2.00</b>	<b>2.00</b>	<b>1.00</b>	<b>1.00</b>	<b>2.00</b>	<b>2.00</b>
3	Ability to estimate accuracy, repeatability and resolution of robot	Lab Record	75	2.25	1.50	0.75	0.75	0.75	0.75	0.75	0.75	1.50	1.50	0.75	0.75	1.50	1.50	
		Model	25	0.75	0.50	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.50	0.50	0.25	0.25	0.50	0.50
		<b>CO 3 - Attainment</b>		<b>3.00</b>	<b>2.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>2.00</b>	<b>2.00</b>	<b>1.00</b>	<b>1.00</b>	<b>2.00</b>	<b>2.00</b>
4	Ability to use robotic simulation software to perform different types of operation using robots	Lab Record	75	2.25	1.50	0.75	0.75	0.75	0.75	0.75	0.75	1.50	1.50	0.75	0.75	1.50	1.50	
		Model	25	0.75	0.50	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.50	0.50	0.25	0.25	0.50	0.50
		<b>CO 4 - Attainment</b>		<b>3.00</b>	<b>2.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>2.00</b>	<b>2.00</b>	<b>1.00</b>	<b>1.00</b>	<b>2.00</b>	<b>2.00</b>
5	Ability to use robotic simulation software to perform position and gripping force analysis	Lab Record	75	2.25	1.50	0.75	0.75	0.75	0.75	0.75	0.75	1.50	1.50	0.75	0.75	1.50	1.50	
		Model	25	0.75	0.50	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.50	0.50	0.25	0.25	0.50	0.50
		<b>CO 5 - Attainment</b>		<b>3.00</b>	<b>2.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>2.00</b>	<b>2.00</b>	<b>1.00</b>	<b>1.00</b>	<b>2.00</b>	<b>2.00</b>

CO No	Course Outcomes	Contribution to Programme Outcomes & Program Specific Outcome														
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	
1	Ability to determine maximum and minimum position of links	3.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	1.00	1.00	2.00	2.00
2	Ability to verify transformation with respect to gripper and world Coordinate system	3.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	1.00	1.00	2.00	2.00
3	Ability to estimate accuracy, repeatability and resolution of robot	3.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	1.00	1.00	2.00	2.00
4	Ability to use robotic simulation software to perform different types of operation using robots	3.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	1.00	1.00	2.00	2.00
5	Ability to use robotic simulation software to perform position and gripping force analysis	3.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	1.00	1.00	2.00	2.00
	<b>CO Attainment (Internal Assesment)</b>	<b>3.00</b>	<b>2.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>2.00</b>	<b>2.00</b>	<b>1.00</b>	<b>1.00</b>	<b>2.00</b>	<b>2.00</b>

CO No	Course Outcomes	Contribution to Programme Outcomes & Program Specific Outcome														
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	
1	Ability to determine maximum and minimum position of links	3.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	1.00	1.00	2.00	2.00
2	Ability to verify transformation with respect to gripper and world Coordinate system	3.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	1.00	1.00	2.00	2.00
3	Ability to estimate accuracy, repeatability and resolution of robot	3.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	1.00	1.00	2.00	2.00
4	Ability to use robotic simulation software to perform different types of operation using robots	3.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	1.00	1.00	2.00	2.00
5	Ability to use robotic simulation software to perform position and gripping force analysis	3.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	1.00	1.00	2.00	2.00
	<b>CO Attainment (University Results)</b>	<b>3.00</b>	<b>2.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>2.00</b>	<b>2.00</b>	<b>1.00</b>	<b>1.00</b>	<b>2.00</b>	<b>2.00</b>

CO No	Course Outcomes	Assessment Tools	Weightage (in %)	Contribution to Programme Outcomes & Program Specific Outcome														
				PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	
1	Ability to determine maximum and minimum position of links	Anna University Result	80	2.40	1.60	0.80	0.80	0.80	0.80	0.80	0.80	0.80	1.60	1.60	0.80	0.80	1.60	1.60
		Internal Assessment	20	0.60	0.40	0.20	0.20	0.20	0.20	0.20	0.20	0.40	0.40	0.20	0.20	0.40	0.40	
		CO 1 - Direct Attainment	3.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	1.00	1.00	2.00	2.00	
2	Ability to verify transformation with respect to gripper and world Coordinate system	Anna University Result	80	2.40	1.60	0.80	0.80	0.80	0.80	0.80	0.80	1.60	1.60	0.80	0.80	1.60	1.60	
		Internal Assessment	20	0.60	0.40	0.20	0.20	0.20	0.20	0.20	0.40	0.40	0.20	0.20	0.40	0.40		
		CO 2 - Direct Attainment	3.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	1.00	1.00	2.00	2.00		
3	Ability to estimate accuracy, repeatability and resolution of robot	Anna University Result	80	2.40	1.60	0.80	0.80	0.80	0.80	0.80	0.80	1.60	1.60	0.80	0.80	1.60	1.60	
		Internal Assessment	20	0.60	0.40	0.20	0.20	0.20	0.20	0.20	0.40	0.40	0.20	0.20	0.40	0.40		
		CO 3 - Direct Attainment	3.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	1.00	1.00	2.00	2.00		
4	Ability to use robotic simulation software to perform different types of operation using robots	Anna University Result	80	2.40	1.60	0.80	0.80	0.80	0.80	0.80	1.60	1.60	0.80	0.80	1.60	1.60		
		Internal Assessment	20	0.60	0.40	0.20	0.20	0.20	0.20	0.20	0.40	0.40	0.20	0.20	0.40	0.40		
		CO 4 - Direct Attainment	3.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	1.00	1.00	2.00	2.00		
5	Ability to use robotic simulation software to perform position and gripping force analysis	Anna University Result	80	2.40	1.60	0.80	0.80	0.80	0.80	0.80	1.60	1.60	0.80	0.80	1.60	1.60		
		Internal Assessment	20	0.60	0.40	0.20	0.20	0.20	0.20	0.20	0.40	0.40	0.20	0.20	0.40	0.40		
		CO 5 - Direct Attainment	3.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	1.00	1.00	2.00	2.00		

CO No	Course Outcomes	Direct Attainment of PO vs CO														
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	
1	Ability to determine maximum and minimum position of links	3.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	1.00	1.00	2.00	2.00
2	Ability to verify transformation with respect to gripper and world Coordinate system	3.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	1.00	1.00	2.00	2.00	
3	Ability to estimate accuracy, repeatability and resolution of robot	3.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	1.00	1.00	2.00	2.00	
4	Ability to use robotic simulation software to perform different types of operation using robots	3.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	1.00	1.00	2.00	2.00	
5	Ability to use robotic simulation software to perform position and gripping force analysis	3.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	1.00	1.00	2.00	2.00	
0	Robotics Laboratory	3.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	1.00	1.00	2.00	2.00	

DIRECT ATTAINMENT OF CO

S.NO	Course Outcomes (Out of 3)	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
0	Robotics Laboratory	Program Outcome Expected	3	2	1	1	1	1	1	2	2	1	1	2	2
		Program Outcome Attained	3.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	1.00	1.00	2.00

S.NO	Course Outcomes (In Percentage)	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
0	Robotics Laboratory	Program Outcome Expected	100.00	66.67	33.33	33.33	33.33	33.33	33.33	66.67	66.67	33.33	33.33	66.67	66.67
		Program Outcome Attained	100.00	66.67	33.33	33.33	33.33	33.33	33.33	33.33	66.67	66.67	33.33	33.33	66.67

