

## SARANATHAN COLLEGE OF ENGINEERING, Tiruchirappalli - 620012

## Department of B.E. Instrumentation and Control Engineering

## Internal Assessment - Attainment of Courses Outcomes (Through Direct Assessment)

Academic Period 2020 - 2021 / EVEN Semester

COURSE CODE/TITLE	Linear Integrated Circuits and Applications	Batch	2019 - 2023						
CLASS / SECTION	Sem 4 / ICE	COURSE OUTCOME		1	2	3	4	5	6
COURSE COORDINATOR	Dr.P.Thirumurugan	TARGET		65	65	65	65	65	65

ATTAINMENT LEVEL	Level	Range
	1	0-60% of the Students scored more than target
	2	61-90% of the Students scored more than target
	3	90% of the Students scored more than target

S.NO	REG NO	NAME OF THE STUDENT	IAT-1 MARKS ALLOTTED						IAT-2 MARKS ALLOTTED						IAT-3 MARKS ALLOTTED						TOTAL COURSE OUTCOME					
			C1	C2	C3	C4	C5	C6	C1	C2	C3	C4	C5	C6	C1	C2	C3	C4	C5	C6	C1	C2	C3	C4	C5	C6
			60	40					40	60					40	50	10	60	80	60	40	50	10			
1	813819112001	ABARNA. R	28	19					20	32								30	20	8	28	39	32	30	20	8
2	813819112003	ARUNKUMAR. R	43	29					20	24								30	40	2	43	49	24	30	40	2
3	813819112004	BAIRAVI. S	53	35					20	30								30	50	8	53	55	30	30	50	8
4	813819112005	BHARATH SAMVEL. D	56	37					30	44								30	50	6	56	67	44	30	50	6
5	813819112006	DARWIN. I	51	34					20	34								30	40	2	51	54	34	30	40	2
6	813819112007	DEEPAK. B	26	17					20	30								30	30	10	26	37	30	30	30	10
7	813819112008	DHARSHINI. G	52	35					20	32								30	50	4	52	55	32	30	50	4
8	813819112009	DHINESH. R	54	36					40	44								40	50	2	54	76	44	40	50	2
9	813819112010	HARIHARAN. K	48	32					30	44								30	50	6	48	62	44	30	50	6
10	813819112011	HARI KRISHNA. M	21	14					20	36								20	30	6	21	34	36	20	30	6
11	813819112012	HARISH. R	47	31					30	34								30	40	0	47	61	34	30	40	0
12	813819112013	HEMANTH. K K	46	31					30	42								40	40	4	46	61	42	40	40	4
13	813819112014	JAYAKANTHAN. G P	51	34					30	44								40	50	0	51	64	44	40	50	0
14	813819112015	JAYALAKSHMI. R	50	33					20	38								40	40	6	50	53	38	40	40	6
15	813819112016	KANNAPPAN. S	57	38					30	36								40	40	4	57	68	36	40	40	4
16	813819112017	KRISHNA KUMARAN. K	13	09					20	30								30	50	0	13	29	30	30	50	0
17	813819112018	MOHAMED FAHIM. K	26	17					20	12								20	10	0	26	37	12	20	10	0

## SARANATHAN COLLEGE OF ENGINEERING, Tiruchirappalli - 620012

## Department of B.E. Instrumentation and Control Engineering

## Internal Assessment - Attainment of Courses Outcomes (Through Direct Assessment)

Academic Period 2020 - 2021 / ODD Semester																					
COURSE CODE/TITLE		INDUSTRIAL DATA NETWORKS										Batch			2017 - 2021						
CLASS / SECTION		Sem 7 / ICE										COURSE OUTCOME			1	2	3	4	5	6	
COURSE COORDINATOR		Dr.M.Shanmugavalli										TARGET			65	65	65	65	65	65	
ATTAINMENT LEVEL		Level		Range																	
		1		0-60% of the Students scored more than target																	
		2		61-90% of the Students scored more than target																	
		3		90% of the Students scored more than target																	
S.NO	REG NO	NAME OF THE STUDENT	IAT-1 MARKS ALLOTTED						IAT-2 MARKS ALLOTTED						IAT-3 MARKS ALLOTTED						TOTAL COURSE OUTCOME
			C1	C2	C3	C4	C5	C6	C1	C2	C3	C4	C5	C6	C1	C2	C3	C4	C5	C6	
			<b>66</b>	<b>34</b>					<b>36</b>	<b>64</b>					<b>66</b>	<b>70</b>	<b>64</b>	<b>0</b>	<b>0</b>	<b>0</b>	
1	813817112001	AARTHI. R	62	34					30	60				62	64	60					
2	813817112002	AHAMED ZUHOOR. A G	50	30					30	62				50	60	62					
3	813817112003	AKASH. T	50	30					30	50				50	60	50					
4	813817112004	AKASHSAMI. R	60	32					34	62				60	66	62					
5	813817112005	AKIL SANJEEV. M	50	30					30	50				50	60	50					
6	813817112006	ARAWINTHAN. R	60	33					30	60				60	63	60					
7	813817112007	ARJUN. M	50	30					30	50				50	60	50					
8	813817112008	ARTHIYA. M	60	33					30	60				60	63	60					
9	813817112010	BUVANESHWARI. S	60	20					30	50				60	50	50					
10	813817112011	CHARUKANTH. M S	60	20					30	60				60	50	60					
11	813817112012	DHANALAKSHMI. S	50	30					30	50				50	60	50					
12	813817112013	DHARSHINI. V. J	50	30					30	55				50	60	55					
13	813817112014	FAHAD. M	50	32					30	50				50	62	50					
14	813817112015	GOWRI. K	46	34					30	55				46	64	55					
15	813817112016	HARIHARAN. P	60	33					30	60				60	63	60					
16	813817112017	HARINI. R.M	50	30					30	50				50	60	50					
17	813817112020	KALKI. K	50	30					30	55				50	60	55					
18	813817112021	KARTHIK. K	50	30					30	55				50	60	55					
19	813817112022	KARTHIKEYAN. M	50	30					30	55				50	60	55					
20	813817112023	KARTHIKEYEN. S	50	30					0	0				50	30	0					
21	813817112024	KAVIN. K V	50	30					30	50				50	60	50					
22	813817112025	KIRTHIKA. V	50	30					30	55				50	60	55					
23	813817112026	KRISHNAKUMAR. R	50	30					30	50				50	60	50					
24	813817112027	LAKKSHMI PRIYA. S	50	30					30	55				50	60	55					
25	813817112028	LAVANYA. B	60	30					30	52				60	60	52					
26	813817112029	LINGTAN. N	60	30					30	62				60	60	62					
27	813817112030	MAHALAKSHMI. S P	63	33					30	60				63	63	60					
28	813817112032	MANIKANDAN. S	60	30					30	55				60	60	55					
29	813817112033	MEENUASHWINI. R	60	30					30	60				60	60	60					
30	813817112034	MOHAMED NOORDEEN. J	50	30					30	50				50	60	50					
31	813817112036	NAZEER AHAMED. B	50	30					32	50				50	62	50					
32	813817112037	NIRMAL KUMAR. D	50	30					30	51				50	60	51					
33	813817112038	NISHA FRANCY. S	60	30					32	60				60	62	60					
34	813817112039	PRATHEEP. M	50	30					28	52				50	58	52					
35	813817112040	RAGAVI. S	50	30					28	52				50	58	52					
36	813817112041	RAHUL. J	60	30					30	60				60	60	60					
37	813817112042	RAVIKIRAN. B	60	30					30	60				60	60	60					
38	813817112043	RENUGA. S	50	30					30	55				50	60	55					
39	813817112044	SABTHAMI. M	60	26					30	55				60	56	55					
40	813817112045	SAI HARI PRASHAD. N K	50	30					25	55				50	55	55					
41	813817112046	SALMAN MOHAMED. J	50	30					20	60				50	50	60					
42	813817112047	SAM ANDREW. B	60	30					30	60				60	60	60					
43	813817112049	SHARVIN SHAKESH. P	64	32					32	62				64	64	62					
44	813817112050	SHRI HARI. S	60	20					30	55				60	50	55					
45	813817112051	SINDHUJA. C	50	30					30	55				50	60	55					
46	813817112052	SIVASUBRAMANIAN. V	50	30					30	50				50	60	50					
47	813817112053	SNEKA. C	60	28					30	50				60	58	50					
48	813817112054	SOUNTHIRIYA. G M	50	30					30	52				50	60	52					
49	813817112055	SURRAJ. N S	50	30					30	50				50	60	50					
50	813817112056	SURYA. S	64	32					30	60				64	62	60					
51	813817112057	SURYALAKSHMI. R	54	26					30	55				54	56	55					
52	813817112058	THARIK AHAMADU MOHAMED DHEEN. M	50	30					30	50				50	60	50					
53	813817112059	YAZHINI. C	50	30					30	50				50	60	50					

54	813817112301	FELIXNIRMALDOSS. M	47	33					30	55			47	63	55						
55	813817112302	SIVA PERUMAL. R	47	33					28	56			47	61	56						
CO's Target Value																42.90	45.50	41.60	0.00	0.00	0.00
No. of Student Secured above CO's Target value																55	54	54	0	0	0
Percentage of Student Secured above Target																100.00	98.18	98.18	0.00	0.00	0.00

## SARANATHAN COLLEGE OF ENGINEERING, Tiruchirappalli - 620012

Department of B.E. Instrumentation and Control Engineering

## COURSE OUTCOME ATTAINMENT - UNIVERSITY EXAMINATION

COURSE CODE/TITLE	EI8751 INDUSTRIAL DATA NETWORKS	Batch	2017 - 2021
CO Attainment Level: 1 - (0% - 60% ) 2- (61%-90%) 3-(91% and Above)			

S.NO	REG. NO.	NAME OF THE STUDENT	GRADE
1	813817112001	AARTHI. R	A
2	813817112002	AHAMED ZUHOOR. A G	A
3	813817112003	AKASH. T	A
4	813817112004	AKASHSAMI. R	A
5	813817112005	AKIL SANJEEV. M	B+
6	813817112006	ARAWINTHAN. R	B
7	813817112007	ARJUN. M	A
8	813817112008	ARTHIYA. M	A
9	813817112010	BUVANESHWARI. S	A
10	813817112011	CHARUKANTH. M S	A
11	813817112012	DHANALAKSHMI. S	O
12	813817112013	DHARSHINI. V. J	A
13	813817112014	FAHAD. M	B+
14	813817112015	GOWRI. K	A
15	813817112016	HARIHARAN. P	B+
16	813817112017	HARINI. R.M	A
17	813817112020	KALKI. K	A+
18	813817112021	KARTHIK. K	A
19	813817112022	KARTHIKEYAN. M	A
20	813817112023	KARTHIKEYEN. S	A
21	813817112024	KAVIN. K V	B
22	813817112025	KIRTHIKA. V	A
23	813817112026	KRISHNAKUMAR. R	A+
24	813817112027	LAKKSHMI PRIYA. S	O
25	813817112028	LAVANYA. B	A
26	813817112029	LINGTAN. N	A
27	813817112030	MAHALAKSHMI. S P	A
28	813817112032	MANIKANDAN. S	A
29	813817112033	MEENUASHWINI. R	A
30	813817112034	MOHAMED NOORDEEN. J	A
31	813817112036	NAZEER AHAMED. B	A+
32	813817112037	NIRMAL KUMAR. D	B+
33	813817112038	NISHA FRANCY. S	A
34	813817112039	PRATHEEP. M	A+
35	813817112040	RAGAVI. S	A
36	813817112041	RAHUL. J	A
37	813817112042	RAVIKIRAN. B	A
38	813817112043	RENUGA. S	A
39	813817112044	SABTHAMI. M	B+
40	813817112045	SAI HARI PRASHAD. N K	B+
41	813817112046	SALMAN MOHAMED. J	A
42	813817112047	SAM ANDREW. B	A
43	813817112049	SHARVIN SHAKESH. P	B+
44	813817112050	SHRI HARI. S	A
45	813817112051	SINDHUJA. C	B+
46	813817112052	SIVASUBRAMANIAN. V	A+
47	813817112053	SNEKA. C	A+
48	813817112054	SOUNTHIRIYA. G M	B
49	813817112055	SURRAJ. N S	A
50	813817112056	SURYA. S	A+
51	813817112057	SURYALAKSHMI. R	A
52	813817112058	THARIK AHAMADU MOHAMED DHEEN. M	A
53	813817112059	YAZHINI. C	A+
54	813817112301	FELIXNIRMALDOSS. M	A
55	813817112302	SIVA PERUMAL. R	A+
No. of S/O Grade			2
No. of A/A+ Grade			9
No. of B/A Grade			33
No. of C/B+ Grade			8
No. of D/B Grade			3
No. of E/B Grade			0
Target for course outcome Attainment			65

No of students above the target	52
CO-Attainment University	94.00

CO	CO-Attainment Internal (CO-INT) (Avg. Attainment of All section) (%)	CO-Attainment University (CO-UNI) (Avg. Attainment of All section) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI) (%)	Indirect CO Attainment (Course End Survey)	Over all CO Attainment (0.8xDirect + 0.2xIndirect) (%)	Over all CO Attainment Level
C403.1	100.00	94.00	96.40	92.73	95.67	3
C403.2	98.18	94.00	95.67	78.79	92.30	3
C403.3	98.18	94.00	95.67	95.15	95.57	3
C403.4	0.00	94.00	56.40	99.39	65.00	2
C403.5	0.00	94.00	56.40	78.18	60.76	1
C403.6	0.00	94.00	56.40	89.09	62.94	2

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C403.1	3	2	2	2	2						3	3	2	1	1
C403.2	3	2	2	2	2						3	3	2	1	1
C403.3	3	2	2	2	2	1					3	3	2	1	1
C403.4	3	2	2	2	2	1	1	1			3	3	2	1	1
C403.5	3	2	2	2	2	1	1				3	3	2	1	1
C403.6	3	2	2	2	2				1	1	3	3	2	1	1
C403	3.00	2.00	2.00	2.00	2.00	0.50	0.33	0.17	0.17	0.17	3.00	3.00	2.00	1.00	1.00

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C403.1	3.00	2.00	2.00	2.00	2.00						3.00	3.00	2.00	1.00	1.00
C403.2	3.00	2.00	2.00	2.00	2.00						3.00	3.00	2.00	1.00	1.00
C403.3	3.00	2.00	2.00	2.00	2.00	1.00					3.00	3.00	2.00	1.00	1.00
C403.4	2.00	1.33	1.33	1.33	1.33	0.67	0.67	0.67			2.00	2.00	1.33	0.67	0.67
C403.5	1.00	0.67	0.67	0.67	0.67	0.33	0.33				1.00	1.00	0.67	0.33	0.33
C403.6	2.00	1.33	1.33	1.33	1.33				0.67	0.67	2.00	2.00	1.33	0.67	0.67
C403	2.33	1.56	1.56	1.56	1.56	0.33	0.17	0.11	0.11	0.11	2.33	2.33	1.56	0.78	0.78

## SARANATHAN COLLEGE OF ENGINEERING, Tiruchirappalli - 620012

Department of B.E. Instrumentation and Control Engineering

Internal Assessment - Attainment of Courses Outcomes (Through Direct Assessment)

Academic Period 2020 - 2021 / ODD Semester																										
COURSE CODE/TITLE		INSTRUMENTATION IN PETROCHEMICAL INDUSTRIES												Batch		2017 - 2021										
CLASS / SECTION		Sem 7 / ICE A & B												COURSE OUTCOME		1	2	3	4	5	6					
COURSE COORDINATOR		Ms.K.Ezhilarasi / Ms.K.Ezhilarasi												TARGET		65	65	65	65	65	65					
ATTAINMENT LEVEL		Level		Range																						
		1		0-60% of the Students scored more than target																						
		2		61-90% of the Students scored more than target																						
		3		90% of the Students scored more than target																						
S.NO	REG NO	NAME OF THE STUDENT	IAT-1 MARKS ALLOTTED						IAT-2 MARKS ALLOTTED						IAT-3 MARKS ALLOTTED						TOTAL COURSE OUTCOME					
			C1	C2	C3	C4	C5	C6	C1	C2	C3	C4	C5	C6	C1	C2	C3	C4	C5	C6						
			<b>100</b>						<b>40 60</b>						<b>100 0 0 40 60 0</b>											
1	813817112001	AARTHI. R	20											38	55	20							38	55		
2	813817112002	AHAMED ZUHOOR. A G	80											36	56	80							36	56		
3	813817112003	AKASH. T	87											38	54	87							38	54		
4	813817112004	AKASHSAMI. R	97											38	56	97							38	56		
5	813817112005	AKIL SANJEEV. M	80											36	56	80							36	56		
6	813817112006	ARAWINTHAN. R	100											36	58	100							36	58		
7	813817112007	ARJUN. M	90											34	54	90							34	54		
8	813817112008	ARTHIYA. M	85											38	58	85							38	58		
9	813817112010	BUVANESHWARI. S	100											38	58	100							38	58		
10	813817112011	CHARUKANTH. M S	80											34	54	80							34	54		
11	813817112012	DHANALAKSHMI. S	95											36	56	95							36	56		
12	813817112013	DHARSHINI. V. J	96											38	58	96							38	58		
13	813817112014	FAHAD. M	85											36	56	85							36	56		
14	813817112015	GOWRI. K	90											34	54	90							34	54		
15	813817112016	HARIHARAN. P	88											32	52	88							32	52		
16	813817112017	HARINI. R.M	85											30	50	85							30	50		
17	813817112020	KALKI. K	90											38	58	90							38	58		
18	813817112021	KARTHIK. K	95											36	56	95							36	56		
19	813817112022	KARTHIKEYAN. M	70											34	54	70							34	54		
20	813817112023	KARTHIKEYEN. S	80											0	0	80							0	0		
21	813817112024	KAVIN. K V	70											34	54	70							34	54		
22	813817112025	KIRTHIKA. V	92											38	58	92							38	58		
23	813817112026	KRISHNAKUMAR. R	72											32	52	72							32	52		
24	813817112027	LAKKSHMI PRIYA. S	100											38	56	100							38	56		
25	813817112028	LAVANYA. B	80											38	58	80							38	58		
26	813817112029	LINGTAN. N	90											38	56	90							38	56		
27	813817112030	MAHALAKSHMI. S P	100											38	58	100							38	58		
28	813817112032	MANIKANDAN. S	85											32	52	85							32	52		
29	813817112033	MEENUASHWINI. R	92											30	54	92							30	54		
30	813817112034	MOHAMED NOORDEEN. J	88											30	50	88							30	50		
31	813817112036	NAZEER AHAMED. B	90											34	54	90							34	54		
32	813817112037	NIRMAL KUMAR. D	92											30	52	92							30	52		
33	813817112038	NISHA FRANCY. S	95											38	58	95							38	58		
34	813817112039	PRATHEEP. M	98											36	56	98							36	56		
35	813817112040	RAGAVI. S	94											38	56	94							38	56		
36	813817112041	RAHUL. J	90											30	56	90							30	56		
37	813817112042	RAVIKIRAN. B	95											38	56	95							38	56		
38	813817112043	RENUGA. S	90											32	56	90							32	56		
39	813817112044	SABTHAMI. M	94											38	56	94							38	56		
40	813817112045	SAI HARI PRASHAD. N K	92											32	52	92							32	52		
41	813817112046	SALMAN MOHAMED. J	80											30	54	80							30	54		
42	813817112047	SAM ANDREW. B	95											32	52	95							32	52		
43	813817112049	SHARVIN SHAKESH. P	100											38	58	100							38	58		
44	813817112050	SHRI HARI. S	92											36	56	92							36	56		
45	813817112051	SINDHUJA. C	94											38	58	94							38	58		
46	813817112052	SIVASUBRAMANIAN. V	92											32	52	92							32	52		
47	813817112053	SNEKA. C	95											34	54	95							34	54		
48	813817112054	SOUNTHIRIYA. G M	98											38	58	98							38	58		
49	813817112055	SURRAJ. N S	82											30	48	82							30	48		
50	813817112056	SURYA. S	100											38	58	100							38	58		
51	813817112057	SURYALAKSHMI. R	96											38	58	96							38	58		
52	813817112058	THARIK AHAMADU MOHAMED DHEEN. M	85											36	56	85							36	56		
53	813817112059	YAZHINI. C	94											38	58	94							38	58		

54	813817112301	FELIXNIRMALDOSS. M	95							36	56		95			36	56					
55	813817112302	SIVA PERUMAL. R	94							34	54		94			34	54					
CO's Target Value																	65.00	0.00	0.00	26.00	39.00	0.00
No. of Student Secured above CO's Target value																	54	0	0	54	54	0
Percentage of Student Secured above Target																	98.18	0.00	0.00	98.18	98.18	0.00



## SARANATHAN COLLEGE OF ENGINEERING, Tiruchirappalli - 620012

Department of B.E. Instrumentation and Control Engineering

## COURSE OUTCOME ATTAINMENT - UNIVERSITY EXAMINATION

COURSE CODE/TITLE	E18091 INSTRUMENTATION IN PETROCHEMICAL INDUSTRIES	Batch	2017 - 2021
CO Attainment Level: 1 - (0% - 60% ) 2- (61%-90%) 3-(91% and Above)			

S.NO	REG. NO.	NAME OF THE STUDENT	GRADE
1	813817112001	AARTHI. R	A+
2	813817112002	AHAMED ZUHOOR. A G	A
3	813817112003	AKASH. T	A+
4	813817112004	AKASHSAMI. R	A+
5	813817112005	AKIL SANJEEV. M	B+
6	813817112006	ARAWINTHAN. R	O
7	813817112007	ARJUN. M	A
8	813817112008	ARTHIYA. M	A+
9	813817112010	BUVANESHWARI. S	A+
10	813817112011	CHARUKANTH. M S	A
11	813817112012	DHANALAKSHMI. S	O
12	813817112013	DHARSHINI. V. J	A+
13	813817112014	FAHAD. M	A+
14	813817112015	GOWRI. K	O
15	813817112016	HARIHARAN. P	B+
16	813817112017	HARINI. R.M	A+
17	813817112020	KALKI. K	O
18	813817112021	KARTHIK. K	A+
19	813817112022	KARTHIKEYAN. M	A+
20	813817112023	KARTHIKEYEN. S	A
21	813817112024	KAVIN. K V	B
22	813817112025	KIRTHIKA. V	A+
23	813817112026	KRISHNAKUMAR. R	A
24	813817112027	LAKKSHMI PRIYA. S	O
25	813817112028	LAVANYA. B	A
26	813817112029	LINGTAN. N	A
27	813817112030	MAHALAKSHMI. S P	B+
28	813817112032	MANIKANDAN. S	A
29	813817112033	MEENUASHWINI. R	A+
30	813817112034	MOHAMED NOORDEEN. J	A+
31	813817112036	NAZEER AHAMED. B	A
32	813817112037	NIRMAL KUMAR. D	A
33	813817112038	NISHA FRANCY. S	A
34	813817112039	PRATHEEP. M	O
35	813817112040	RAGAVI. S	A+
36	813817112041	RAHUL. J	A
37	813817112042	RAVIKIRAN. B	A+
38	813817112043	RENUGA. S	A
39	813817112044	SABTHAMI. M	B+
40	813817112045	SAI HARI PRASHAD. N K	B+
41	813817112046	SALMAN MOHAMED. J	A
42	813817112047	SAM ANDREW. B	A+
43	813817112049	SHARVIN SHAKESH. P	A+
44	813817112050	SHRI HARI. S	A+
45	813817112051	SINDHUJA. C	A
46	813817112052	SIVASUBRAMANIAN. V	A
47	813817112053	SNEKA. C	A+
48	813817112054	SOUNTHIRIYA. G M	B+
49	813817112055	SURRAJ. N S	A+
50	813817112056	SURYA. S	A+
51	813817112057	SURYALAKSHMI. R	A
52	813817112058	THARIK AHAMADU MOHAMED DHEEN. M	A+
53	813817112059	YAZHINI. C	A+
54	813817112301	FELIXNIRMALDOSS. M	A+
55	813817112302	SIVA PERUMAL. R	A+
No. of S/O Grade			6
No. of A/A+ Grade			25
No. of B/A Grade			17
No. of C/B+ Grade			6
No. of D/B Grade			1
No. of E/B Grade			0
Target for course outcome Attainment			65

No of students above the target	54
CO-Attainment University	98.00

CO	CO-Attainment Internal (CO-INT) (Avg. Attainment of All section) (%)	CO-Attainment University (CO-UNI) (Avg. Attainment of All section) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI) (%)	Indirect CO Attainment (Course End Survey)	Over all CO Attainment (0.8xDirect + 0.2xIndirect) (%)	Over all CO Attainment Level
C402.1	98.18	98.00	98.07	92.73	97.00	3
C402.2	0.00	98.00	58.80	78.79	62.80	2
C402.3	0.00	98.00	58.80	95.15	66.07	2
C402.4	98.18	98.00	98.07	99.39	98.34	3
C402.5	98.18	98.00	98.07	87.27	95.91	3
C402.6	0.00	98.00	58.80	89.09	64.86	2

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C402.1	2	3	3	2	3	2				2	2	1	2	2	2
C402.2	2	3	3	2	1	2				2	1	2	2	2	2
C402.3	2	3	3	1	2	2		2	1	2	1	2	2	1	1
C402.4	2	3	3	2	3	2				2	1	1	2	2	1
C402.5	2	3	3	1	3	2			1	2	2	2	2	2	1
C402.6	2	3	3	2	2	2		2		1	2	1	2	2	1
C402	2.00	3.00	3.00	1.67	2.33	2.00		0.67	0.33	1.83	1.50	1.50	2.00	1.83	1.33

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C402.1	2.00	3.00	3.00	2.00	3.00	2.00				2.00	2.00	1.00	2.00	2.00	2.00
C402.2	1.33	2.00	2.00	1.33	0.67	1.33				1.33	0.67	1.33	1.33	1.33	1.33
C402.3	1.33	2.00	2.00	0.67	1.33	1.33		1.33	0.67	1.33	0.67	1.33	1.33	0.67	0.67
C402.4	2.00	3.00	3.00	2.00	3.00	2.00				2.00	1.00	1.00	2.00	2.00	1.00
C402.5	2.00	3.00	3.00	1.00	3.00	2.00			1.00	2.00	2.00	2.00	2.00	2.00	1.00
C402.6	1.33	2.00	2.00	1.33	1.33	1.33		1.33		0.67	1.33	0.67	1.33	1.33	0.67
C402	1.67	2.50	2.50	1.39	2.06	1.67		0.44	0.28	1.56	1.28	1.22	1.67	1.56	1.11

## SARANATHAN COLLEGE OF ENGINEERING, Tiruchirappalli - 620012

## Department of B.E. Instrumentation and Control Engineering

## Internal Assessment - Attainment of Courses Outcomes (Through Direct Assessment)

Academic Period 2020 - 2021 / ODD Semester																														
COURSE CODE/TITLE		Analytical Instruments												Batch						2018 - 2022										
CLASS / SECTION		Sem 5 / ICE												COURSE OUTCOME						1	2	3	4	5	6					
COURSE COORDINATOR		Mr.R.Seetharaman												TARGET						65	65	65	65	65	65					
ATTAINMENT LEVEL		Level		Range																										
		1		0-60% of the Students scored more than target																										
		2		61-90% of the Students scored more than target																										
		3		90% of the Students scored more than target																										
S.NO	REG NO	NAME OF THE STUDENT	IAT-1 MARKS ALLOTTED						IAT-2 MARKS ALLOTTED						IAT-3 MARKS ALLOTTED						TOTAL COURSE OUTCOME									
			C1	C2	C3	C4	C5	C6	C1	C2	C3	C4	C5	C6	C1	C2	C3	C4	C5	C6	C1	C2	C3	C4	C5	C6				
			<b>64</b>	<b>36</b>						<b>44</b>	<b>56</b>								<b>60</b>	<b>40</b>					<b>64</b>	<b>80</b>	<b>56</b>	<b>60</b>	<b>40</b>	<b>0</b>
1	813818112001	AASHIK. G	48	28						31	32								56	36					48	59	32	56	36	
2	813818112002	ABDUL JAVITH. A	58	22						42	33								57	32					58	64	33	57	32	
3	813818112003	AJMALKHAN. S	26	24						36	29								55	33					26	60	29	55	33	
4	813818112004	AKILAN. R	42	26						28	37								47	36					42	54	37	47	36	
5	813818112005	AKSHAYAVARSHINI. V	50	32						43	42								60	38					50	75	42	60	38	
6	813818112006	ASWIN KUMAAR. R S	42	20						34	37								45	35					42	54	37	45	35	
7	813818112007	BENITO RICHARDSON. D	38	26						33	37								55	38					38	59	37	55	38	
8	813818112008	BHAVADHARANI. M B	32	28						39	34								57	33					32	67	34	57	33	
9	813818112009	DHARSAN PRABU. G K	28	32						31	34								50	28					28	63	34	50	28	
10	813818112010	GEETHA RANJANI. G	26	22						30	30								48	26					26	52	30	48	26	
11	813818112011	HARIHARAN. T	32	28						38	46								58	40					32	66	46	58	40	
12	813818112012	HARINI BANUMATHI. N	42	30						32	35								40	20					42	62	35	40	20	
13	813818112013	HARISH. P K	40	30						43	39								55	35					40	73	39	55	35	
14	813818112014	ISHWARYA. M	44	36						42	29								44	40					44	78	29	44	40	
15	813818112015	KUMARAGURU. K	30	32						44	22								47	33					30	76	22	47	33	
16	813818112016	LOKESH. R	36	32						28	36								50	30					36	60	36	50	30	
17	813818112017	LOKESH. S	46	26						38	42								56	33					46	64	42	56	33	
18	813818112018	MANIKANDAN. V	54	32						44	47								60	40					54	76	47	60	40	
19	813818112019	MOHAMED JAVEED ALI . S	32	24						42	20								56	33					32	66	20	56	33	
20	813818112020	MOHAMED THASNEEM. A	34	34						44	32								50	40					34	78	32	50	40	
21	813818112021	MOHAMED THOUFEEQ. P	32	22						40	23								57	37					32	62	23	57	37	
22	813818112022	NIRMAL VEL. S	56	26						28	45								60	40					56	54	45	60	40	
23	813818112023	NITHISH ANAND. S	40	34						42	40								57	40					40	76	40	57	40	
24	813818112024	NITHISH KUMAAR. R	34	30						31	38								51	32					34	61	38	51	32	
25	813818112025	NITHS ROSHAN . E.M.	36	24						30	32								39	28					36	54	32	39	28	
26	813818112026	POOJAVARDHINI. B	36	24						31	35								55	32					36	55	35	55	32	
27	813818112027	PRANAV KUMAR. S	34	32						34	27								50	37					34	66	27	50	37	
28	813818112028	PRANAV SAJESH. S	42	34						35	34								58	33					42	69	34	58	33	
29	813818112029	PRIYADHARSHINI. M	44	32						38	46								60	38					44	70	46	60	38	
30	813818112030	SANDHYA. V	48	34						39	44								50	40					48	73	44	50	40	
31	813818112031	SELVABALAJI. K P	30	30						28	38								37	23					30	58	38	37	23	
32	813818112032	SELVAKUMAR. B	32	28						31	31								40	23					32	59	31	40	23	
33	813818112033	SENTHIL ARASAN. B	28	32						31	29								46	27					28	63	29	46	27	
34	813818112034	SHARMILA RANI. A	56	36						42	45								58	40					56	78	45	58	40	
35	813818112035	SHIVAA SANKAR. A	34	28						36	29								55	35					34	64	29	55	35	
36	813818112036	SURIYA PRAKAASH. D	46	32						33	38								50	30					46	65	38	50	30	
37	813818112037	SWETHA. R	50	30						35	46								54	40					50	65	46	54	40	
38	813818112038	VASUNDRA. R	44	30						37	40								56	36					44	67	40	56	36	
39	813818112039	VICKRAM. K B	30	30						29	33								50	32					30	59	33	50	32	
40	813818112301	KABILESHWARAN. R	56	28						36	39								58	37					56	64	39	58	37	
41	813818112302	KAVIYARASAN. K	48	34						28	46								51	31					48	62	46	51	31	
42	813818112303	SATHISH KUMAR. M	46	34						39	39								52	33					46	73	39	52	33	
CO's Target Value																	41.60	52.00	36.40	39.00	26.00	0.00								
No. of Student Secured above CO's Target value																	20	41	21	40	38	0								
Percentage of Student Secured above Target																	47.62	97.62	50.00	95.24	90.48	0.00								

## SARANATHAN COLLEGE OF ENGINEERING, Tiruchirappalli - 620012

Department of B.E. Instrumentation and Control Engineering

## COURSE OUTCOME ATTAINMENT - UNIVERSITY EXAMINATION

COURSE CODE/TITLE	EI8551 Analytical Instruments	Batch	2018 - 2022
CO Attainment Level: 1 - (0% - 60% ) 2- (61%-90%) 3-(91% and Above)			

S.NO	REG. NO.	NAME OF THE STUDENT	GRADE
1	813818112001	AASHIK. G	A
2	813818112002	ABDUL JAVITH. A	A
3	813818112003	AJMALKHAN. S	A
4	813818112004	AKILAN. R	B+
5	813818112005	AKSHAYAVARSHINI. V	O
6	813818112006	ASWIN KUMAAR. R S	A
7	813818112007	BENITO RICHARDSON. D	B+
8	813818112008	BHAVADHARANI. M B	A+
9	813818112009	DHARSAN PRABU. G K	A
10	813818112010	GEETHA RANJANI. G	B
11	813818112011	HARIHARAN. T	B+
12	813818112012	HARINI BANUMATHI. N	A+
13	813818112013	HARISH. P K	A
14	813818112014	ISHWARYA. M	B
15	813818112015	KUMARAGURU. K	B+
16	813818112016	LOKESH. R	A
17	813818112017	LOKESH. S	A+
18	813818112018	MANIKANDAN. V	A
19	813818112019	MOHAMED JAVEED ALI . S	A
20	813818112020	MOHAMED THASNEEM. A	A
21	813818112021	MOHAMED THOUFEEQ. P	B+
22	813818112022	NIRMAL VEL. S	A+
23	813818112023	NITHISH ANAND. S	A
24	813818112024	NITHISH KUMAAR. R	A
25	813818112025	NITHS ROSHAN . E.M.	A
26	813818112026	POOJAVARDHINI. B	O
27	813818112027	PRANAV KUMAR. S	A
28	813818112028	PRANAV SAJESH. S	A+
29	813818112029	PRIYADHARSHINI. M	B
30	813818112030	SANDHYA. V	B+
31	813818112031	SELVABALAJI. K P	A
32	813818112032	SELVAKUMAR. B	A
33	813818112033	SENTHIL ARASAN. B	B+
34	813818112034	SHARMILA RANI. A	B+
35	813818112035	SHIVAA SANKAR. A	A
36	813818112036	SURIYA PRAKAASH. D	O
37	813818112037	SWETHA. R	O
38	813818112038	VASUNDRA. R	O
39	813818112039	VICKRAM. K B	B
40	813818112301	KABILESHWARAN. R	B+
41	813818112302	KAVIYARASAN. K	B
42	813818112303	SATHISH KUMAR. M	B
No. of S/O Grade			5
No. of A/A+ Grade			5
No. of B/A Grade			17
No. of C/B+ Grade			9
No. of D/B Grade			6
No. of E/B Grade			0
Target for course outcome Attainment			65
No of students above the target			36
CO-Attainment University			85.00

CO	CO-Attainment Internal (CO-INT) (Avg. Attainment of All section) (%)	CO-Attainment University (CO-UNI) (Avg. Attainment of All section) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI) (%)	Indirect CO Attainment (Course End Survey)	Over all CO Attainment (0.8xDirect + 0.2xIndirect) (%)	Over all CO Attainment Level
C301.1	47.62	85.00	70.05	91.27	74.29	2
C301.2	97.62	85.00	90.05	81.75	88.39	2
C301.3	50.00	85.00	71.00	92.06	75.21	2
C301.4	95.24	85.00	89.10	97.50	90.78	2
C301.5	90.48	85.00	87.19	83.33	86.42	2
C301.6	0.00	85.00	51.00	87.30	58.26	1

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C301.1	1	2	2	1	2	1					1	2	2	2	2
C301.2	1	1	2	2	1			1			1	1	2	1	2
C301.3	2	2	2	2	2						1	2	2	2	2
C301.4	2	2	2	2	2				1		1	2	2	1	1
C301.5	1	2	1	2	1			1	1	1	1	2	2	2	2
C301.6	2	2	2	2	2						1	2	2	2	2
C301	1.50	1.83	1.83	1.83	1.67	0.17		0.33	0.33	0.17	1.00	1.83	2.00	1.67	1.83

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C301.1	0.67	1.33	1.33	0.67	1.33	0.67					0.67	1.33	1.33	1.33	1.33
C301.2	0.67	0.67	1.33	1.33	0.67			0.67			0.67	0.67	1.33	0.67	1.33
C301.3	1.33	1.33	1.33	1.33	1.33						0.67	1.33	1.33	1.33	1.33
C301.4	1.33	1.33	1.33	1.33	1.33				0.67		0.67	1.33	1.33	0.67	0.67
C301.5	0.67	1.33	0.67	1.33	0.67			0.67	0.67	0.67	0.67	1.33	1.33	1.33	1.33
C301.6	0.67	0.67	0.67	0.67	0.67						0.33	0.67	0.67	0.67	0.67
C301	0.89	1.11	1.11	1.11	1.00	0.11		0.22	0.22	0.11	0.61	1.11	1.22	1.00	1.11

## SARANATHAN COLLEGE OF ENGINEERING, Tiruchirappalli - 620012

Department of B.E. Instrumentation and Control Engineering

Internal Assessment - Attainment of Courses Outcomes (Through Direct Assessment)

Academic Period 2020 - 2021 / ODD Semester																										
COURSE CODE/TITLE		Industrial Instrumentation - II										Batch			2018 - 2022											
CLASS / SECTION		Sem 5 / ICE										COURSE OUTCOME			1	2	3	4	5	6						
COURSE COORDINATOR		Dr.P.Thirumurugan										TARGET			65	65	65	65	65	65						
ATTAINMENT LEVEL		Level		Range																						
		1		0-60% of the Students scored more than target																						
		2		61-90% of the Students scored more than target																						
		3		90% of the Students scored more than target																						
S.NO	REG NO	NAME OF THE STUDENT	IAT-1 MARKS ALLOTTED						IAT-2 MARKS ALLOTTED						IAT-3 MARKS ALLOTTED						TOTAL COURSE OUTCOME					
			C1	C2	C3	C4	C5	C6	C1	C2	C3	C4	C5	C6	C1	C2	C3	C4	C5	C6	C1	C2	C3	C4	C5	C6
			<b>68</b>	<b>32</b>					<b>60</b>	<b>40</b>							<b>40</b>	<b>40</b>	<b>20</b>	<b>68</b>	<b>92</b>	<b>40</b>	<b>40</b>	<b>40</b>	<b>20</b>	
1	813818112001	AASHIK. G	66	24					60	34							38	38	18	66	84	34	38	38	18	
2	813818112002	ABDUL JAVITH. A	60	24					50	40							36	36	16	60	74	40	36	36	16	
3	813818112003	AJMALKHAN. S	64	20					60	22							34	34	16	64	80	22	34	34	16	
4	813818112004	AKILAN. R	60	20					60	22							30	30	16	60	80	22	30	30	16	
5	813818112005	AKSHAYAVARSHINI. V	68	28					60	38							38	40	20	68	88	38	38	40	20	
6	813818112006	ASWIN KUMAAR. R S	60	26					54	20							30	38	16	60	80	20	30	38	16	
7	813818112007	BENITO RICHARDSON. D	58	20					42	20							32	34	16	58	62	20	32	34	16	
8	813818112008	BHAVADHARANI. M B	60	22					60	24							36	38	16	60	82	24	36	38	16	
9	813818112009	DHARSAN PRABU. G K	54	22					50	20							30	35	15	54	72	20	30	35	15	
10	813818112010	GEETHA RANJANI. G	40	22					54	20							34	36	16	40	76	20	34	36	16	
11	813818112011	HARIHARAN. T	50	20					60	26							36	38	18	50	80	26	36	38	18	
12	813818112012	HARINI BANUMATHI. N	62	20					60	28							36	36	16	62	80	28	36	36	16	
13	813818112013	HARISH. P K	62	22					60	30							38	38	16	62	82	30	38	38	16	
14	813818112014	ISHWARYA. M	66	24					60	30							38	38	18	66	84	30	38	38	18	
15	813818112015	KUMARAGURU. K	60	16					50	24							32	34	14	60	66	24	32	34	14	
16	813818112016	LOKESH. R	58	16					50	26							30	32	16	58	66	26	30	32	16	
17	813818112017	LOKESH. S	60	26					60	30							30	34	18	60	86	30	30	34	18	
18	813818112018	MANIKANDAN. V	56	20					60	36							34	36	16	56	80	36	34	36	16	
19	813818112019	MOHAMED JAVEED ALI . S	54	10					50	26							34	32	16	54	60	26	34	32	16	
20	813818112020	MOHAMED THASNEEM. A	64	10					50	26							34	34	18	64	60	26	34	34	18	
21	813818112021	MOHAMED THOUFEEQ. P	54	14					40	24							32	36	18	54	54	24	32	36	18	
22	813818112022	NIRMAL VEL. S	66	28					60	26							38	38	18	66	88	26	38	38	18	
23	813818112023	NITHISH ANAND. S	60	22					60	26							36	38	18	60	82	26	36	38	18	
24	813818112024	NITHISH KUMAAR. R	50	18					30	20							30	32	12	50	48	20	30	32	12	
25	813818112025	NITHS ROSHAN . E.M.	52	10					52	20							32	34	12	52	62	20	32	34	12	
26	813818112026	POOJAVARDHINI. B	60	18					60	22							38	34	14	60	78	22	38	34	14	
27	813818112027	PRANAV KUMAR. S	62	10					60	24							36	36	16	62	70	24	36	36	16	
28	813818112028	PRANAV SAJESH. S	60	22					60	20							32	34	18	60	82	20	32	34	18	
29	813818112029	PRIYADHARSHINI. M	66	24					60	38							38	40	20	66	84	38	38	40	20	
30	813818112030	SANDHYA. V	60	16					60	22							34	36	18	60	76	22	34	36	18	
31	813818112031	SELVABALAJI. K P	45	15					50	22							30	30	15	45	65	22	30	30	15	
32	813818112032	SELVAKUMAR. B	58	10					50	22							30	32	16	58	60	22	30	32	16	
33	813818112033	SENTHIL ARASAN. B	60	20					50	20							30	25	15	60	70	20	30	25	15	
34	813818112034	SHARMILA RANI. A	62	24					60	36							38	40	18	62	84	36	38	40	18	
35	813818112035	SHIVAA SANKAR. A	52	10					48	20							32	34	16	52	58	20	32	34	16	
36	813818112036	SURIYA PRAKAASH. D	60	22					60	28							32	38	18	60	82	28	32	38	18	
37	813818112037	SWETHA. R	62	20					60	20							38	40	18	62	80	20	38	40	18	
38	813818112038	VASUNDRA. R	66	22					60	32							38	38	18	66	82	32	38	38	18	
39	813818112039	VICKRAM. K B	64	24					60	28							32	32	18	64	84	28	32	32	18	
40	813818112301	KABILESHWARAN. R	42	20					60	28							36	36	18	42	80	28	36	36	18	
41	813818112302	KAVIYARASAN. K	64	28					60	20							32	38	16	64	88	20	32	38	16	
42	813818112303	SATHISH KUMAR. M	64	26					60	30							38	36	16	64	86	30	38	36	16	
CO's Target Value																				44.20	59.80	26.00	26.00	26.00	13.00	
No. of Student Secured above CO's Target value																				40	39	15	42	41	40	
Percentage of Student Secured above Target																				95.24	92.86	35.71	100.00	97.62	95.24	

## SARANATHAN COLLEGE OF ENGINEERING, Tiruchirappalli - 620012

Department of B.E. Instrumentation and Control Engineering

## COURSE OUTCOME ATTAINMENT - UNIVERSITY EXAMINATION

COURSE CODE/TITLE	EI8552 Industrial Instrumentation - II	Batch	2018 - 2022
CO Attainment Level: 1 - (0% - 60% ) 2- (61%-90%) 3-(91% and Above)			

S.NO	REG. NO.	NAME OF THE STUDENT	GRADE
1	813818112001	AASHIK. G	B+
2	813818112002	ABDUL JAVITH. A	B
3	813818112003	AJMALKHAN. S	B+
4	813818112004	AKILAN. R	B+
5	813818112005	AKSHAYAVARSHINI. V	B+
6	813818112006	ASWIN KUMAAR. R S	A
7	813818112007	BENITO RICHARDSON. D	B+
8	813818112008	BHAVADHARANI. M B	O
9	813818112009	DHARSAN PRABU. G K	B
10	813818112010	GEETHA RANJANI. G	A
11	813818112011	HARIHARAN. T	B
12	813818112012	HARINI BANUMATHI. N	A
13	813818112013	HARISH. P K	A
14	813818112014	ISHWARYA. M	B+
15	813818112015	KUMARAGURU. K	A
16	813818112016	LOKESH. R	B+
17	813818112017	LOKESH. S	B
18	813818112018	MANIKANDAN. V	B
19	813818112019	MOHAMED JAVEED ALI . S	A+
20	813818112020	MOHAMED THASNEEM. A	A
21	813818112021	MOHAMED THOUFEEQ. P	B
22	813818112022	NIRMAL VEL. S	A
23	813818112023	NITHISH ANAND. S	A
24	813818112024	NITHISH KUMAAR. R	B
25	813818112025	NITHS ROSHAN . E.M.	A
26	813818112026	POOJAVARDHINI. B	O
27	813818112027	PRANAV KUMAR. S	B+
28	813818112028	PRANAV SAJESH. S	B
29	813818112029	PRIYADHARSHINI. M	A+
30	813818112030	SANDHYA. V	A
31	813818112031	SELVABALAJI. K P	B
32	813818112032	SELVAKUMAR. B	B+
33	813818112033	SENTHIL ARASAN. B	B+
34	813818112034	SHARMILA RANI. A	B+
35	813818112035	SHIVAA SANKAR. A	B+
36	813818112036	SURIYA PRAKAASH. D	B
37	813818112037	SWETHA. R	A+
38	813818112038	VASUNDRA. R	A+
39	813818112039	VICKRAM. K B	A+
40	813818112301	KABILESHWARAN. R	B
41	813818112302	KAVIYARASAN. K	B+
42	813818112303	SATHISH KUMAR. M	B+
No. of S/O Grade			2
No. of A/A+ Grade			5
No. of B/A Grade			10
No. of C/B+ Grade			14
No. of D/B Grade			11
No. of E/B Grade			0
Target for course outcome Attainment			65
No of students above the target			31
CO-Attainment University			73.00



CO	CO-Attainment Internal (CO-INT) (Avg. Attainment of All section) (%)	CO-Attainment University (CO-UNI) (Avg. Attainment of All section) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI) (%)	Indirect CO Attainment (Course End Survey)	Over all CO Attainment (0.8xDirect + 0.2xIndirect) (%)	Over all CO Attainment Level
C302.1	95.24	73.00	81.90	93.65	84.25	2
C302.2	92.86	73.00	80.94	79.37	80.63	2
C302.3	35.71	73.00	58.09	94.44	65.36	2
C302.4	100.00	73.00	83.80	100.00	87.04	2
C302.5	97.62	73.00	82.85	82.54	82.79	2
C302.6	95.24	73.00	81.90	88.89	83.29	2

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C302.1	3	2	2	2	2	1					1	1	2	2	2
C302.2	3	2	2	2	2			1	1		1	1	2	2	2
C302.3	3	2	2	2	2				1		1	1	2	2	2
C302.4	3	2	2	2	2						1	1	2	2	2
C302.5	3	2	2	2	2						1	1	2	2	2
C302.6	3	2	2	2	2		1			1	1	1	2	2	2
C302	3.00	2.00	2.00	2.00	2.00	0.17	0.17	0.17	0.33	0.17	1.00	1.00	2.00	2.00	2.00

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C302.1	2.00	1.33	1.33	1.33	1.33	0.67					0.67	0.67	1.33	1.33	1.33
C302.2	2.00	1.33	1.33	1.33	1.33			0.67	0.67		0.67	0.67	1.33	1.33	1.33
C302.3	2.00	1.33	1.33	1.33	1.33				0.67		0.67	0.67	1.33	1.33	1.33
C302.4	2.00	1.33	1.33	1.33	1.33						0.67	0.67	1.33	1.33	1.33
C302.5	2.00	1.33	1.33	1.33	1.33						0.67	0.67	1.33	1.33	1.33
C302.6	2.00	1.33	1.33	1.33	1.33		0.67			0.67	0.67	0.67	1.33	1.33	1.33
C302	2.00	1.33	1.33	1.33	1.33	0.11	0.11	0.11	0.22	0.11	0.67	0.67	1.33	1.33	1.33

## SARANATHAN COLLEGE OF ENGINEERING, Tiruchirappalli - 620012

Department of B.E. Instrumentation and Control Engineering

Internal Assessment - Attainment of Courses Outcomes (Through Direct Assessment)

Academic Period 2020 - 2021 / ODD Semester																										
COURSE CODE/TITLE		INDUSTRIAL DATA NETWORKS														Batch			2017 - 2021							
CLASS / SECTION		Sem 7 / ICE														COURSE OUTCOME			1	2	3	4	5	6		
COURSE COORDINATOR		Dr.M.Shanmugavalli														TARGET			65	65	65	65	65	65		
ATTAINMENT LEVEL		Level		Range																						
		1		0-60% of the Students scored more than target																						
		2		61-90% of the Students scored more than target																						
		3		90% of the Students scored more than target																						
S.NO	REG NO	NAME OF THE STUDENT	IAT-1 MARKS ALLOTTED						IAT-2 MARKS ALLOTTED						IAT-3 MARKS ALLOTTED						TOTAL COURSE OUTCOME					
			C1	C2	C3	C4	C5	C6	C1	C2	C3	C4	C5	C6	C1	C2	C3	C4	C5	C6						
			<b>66</b>	<b>34</b>						<b>36</b>	<b>64</b>					<b>66</b>	<b>70</b>	<b>64</b>	<b>0</b>	<b>0</b>	<b>0</b>					
1	813817112001	AARTHI. R	62	34						30	60					62	64	60								
2	813817112002	AHAMED ZUHOOR. A G	50	30						30	62					50	60	62								
3	813817112003	AKASH. T	50	30						30	50					50	60	50								
4	813817112004	AKASHSAMI. R	60	32						34	62					60	66	62								
5	813817112005	AKIL SANJEEV. M	50	30						30	50					50	60	50								
6	813817112006	ARAWINTHAN. R	60	33						30	60					60	63	60								
7	813817112007	ARJUN. M	50	30						30	50					50	60	50								
8	813817112008	ARTHIYA. M	60	33						30	60					60	63	60								
9	813817112010	BUVANESHWARI. S	60	20						30	50					60	50	50								
10	813817112011	CHARUKANTH. M S	60	20						30	60					60	50	60								
11	813817112012	DHANALAKSHMI. S	50	30						30	50					50	60	50								
12	813817112013	DHARSHINI. V. J	50	30						30	55					50	60	55								
13	813817112014	FAHAD. M	50	32						30	50					50	62	50								
14	813817112015	GOWRI. K	46	34						30	55					46	64	55								
15	813817112016	HARIHARAN. P	60	33						30	60					60	63	60								
16	813817112017	HARINI. R.M	50	30						30	50					50	60	50								
17	813817112020	KALKI. K	50	30						30	55					50	60	55								
18	813817112021	KARTHIK. K	50	30						30	55					50	60	55								

S.NO	REG NO	NAME OF THE STUDENT	IAT-1 MARKS ALLOTTED						IAT-2 MARKS ALLOTTED						IAT-3 MARKS ALLOTTED						TOTAL COURSE OUTCOME
			C1	C2	C3	C4	C5	C6	C1	C2	C3	C4	C5	C6	C1	C2	C3	C4	C5	C6	
			66	34					36	64					66	70	64	0	0	0	
19	813817112022	KARTHIKEYAN. M	50	30					30	55					50	60	55				
20	813817112023	KARTHIKHEYEN. S	50	30					0	0					50	30	0				
21	813817112024	KAVIN. K V	50	30					30	50					50	60	50				
22	813817112025	KIRTHIKA. V	50	30					30	55					50	60	55				
23	813817112026	KRISHNAKUMAR. R	50	30					30	50					50	60	50				
24	813817112027	LAKSHMI PRIYA. S	50	30					30	55					50	60	55				
25	813817112028	LAVANYA. B	60	30					30	52					60	60	52				
26	813817112029	LINGTAN. N	60	30					30	62					60	60	62				
27	813817112030	MAHALAKSHMI. S P	63	33					30	60					63	63	60				
28	813817112032	MANIKANDAN. S	60	30					30	55					60	60	55				
29	813817112033	MEENUASHWINI. R	60	30					30	60					60	60	60				
30	813817112034	MOHAMED NOORDEEN. J	50	30					30	50					50	60	50				
31	813817112036	NAZEER AHAMED. B	50	30					32	50					50	62	50				
32	813817112037	NIRMAL KUMAR. D	50	30					30	51					50	60	51				
33	813817112038	NISHA FRANCY. S	60	30					32	60					60	62	60				
34	813817112039	PRATHEEP. M	50	30					28	52					50	58	52				
35	813817112040	RAGAVI. S	50	30					28	52					50	58	52				
36	813817112041	RAHUL. J	60	30					30	60					60	60	60				
37	813817112042	RAVIKIRAN. B	60	30					30	60					60	60	60				
38	813817112043	RENUGA. S	50	30					30	55					50	60	55				
39	813817112044	SABTHAMI. M	60	26					30	55					60	56	55				
40	813817112045	SAI HARI PRASHAD. N K	50	30					25	55					50	55	55				
41	813817112046	SALMAN MOHAMED. J	50	30					20	60					50	50	60				
42	813817112047	SAM ANDREW. B	60	30					30	60					60	60	60				
43	813817112049	SHARVIN SHAKESH. P	64	32					32	62					64	64	62				
44	813817112050	SHRI HARI. S	60	20					30	55					60	50	55				
45	813817112051	SINDHUJA. C	50	30					30	55					50	60	55				

S.NO	REG NO	NAME OF THE STUDENT	IAT-1 MARKS ALLOTTED						IAT-2 MARKS ALLOTTED						IAT-3 MARKS ALLOTTED						TOTAL COURSE OUTCOME							
			C1	C2	C3	C4	C5	C6	C1	C2	C3	C4	C5	C6	C1	C2	C3	C4	C5	C6								
			66	34					36	64					66	70	64	0	0	0								
46	813817112052	SIVASUBRAMANIAN. V	50	30						30	50					50	60	50										
47	813817112053	SNEKA. C	60	28						30	50					60	58	50										
48	813817112054	SOUNTHIRIYA. G M	50	30						30	52					50	60	52										
49	813817112055	SURRAJ. N S	50	30						30	50					50	60	50										
50	813817112056	SURYA. S	64	32						30	60					64	62	60										
51	813817112057	SURYALAKSHMI. R	54	26						30	55					54	56	55										
52	813817112058	THARIK AHAMADU MOHAMED DHEEN. M	50	30						30	50					50	60	50										
53	813817112059	YAZHINI. C	50	30						30	50					50	60	50										
54	813817112301	FELIXNIRMALDOSS. M	47	33						30	55					47	63	55										
55	813817112302	SIVA PERUMAL. R	47	33						28	56					47	61	56										
CO's Target Value																							42.90	45.50	41.60	0.00	0.00	0.00
No. of Student Secured above CO's Target value																							55	54	54	0	0	0
Percentage of Student Secured above Target																							100.00	98.18	98.18	0.00	0.00	0.00

## SARANATHAN COLLEGE OF ENGINEERING, Tiruchirappalli - 620012

Department of B.E. Instrumentation and Control Engineering

## COURSE OUTCOME ATTAINMENT - UNIVERSITY EXAMINATION

Academic Period 2020 - 2021 / ODD Semester			
COURSE CODE/TITLE	INDUSTRIAL DATA NETWORKS	Batch	2017 - 2021
CO Attainment Level: 1 - (0% - 60% ) 2- (61%-89%) 3-(90% and Above)			

S.NO	REG. NO.	NAME OF THE STUDENT	GRADE
1	813817112001	AARTHI. R	A
2	813817112002	AHAMED ZUHOOR. A G	A
3	813817112003	AKASH. T	A
4	813817112004	AKASHSAMI. R	A
5	813817112005	AKIL SANJEEV. M	B+
6	813817112006	ARAWINTHAN. R	B
7	813817112007	ARJUN. M	A
8	813817112008	ARTHIYA. M	A
9	813817112010	BUVANESHWARI. S	A
10	813817112011	CHARUKANTH. M S	A
11	813817112012	DHANALAKSHMI. S	O
12	813817112013	DHARSHINI. V. J	A
13	813817112014	FAHAD. M	B+
14	813817112015	GOWRI. K	A
15	813817112016	HARIHARAN. P	B+
16	813817112017	HARINI. R.M	A
17	813817112020	KALKI. K	A+
18	813817112021	KARTHIK. K	A
19	813817112022	KARTHIKEYAN. M	A
20	813817112023	KARTHIKHEYEN. S	A
21	813817112024	KAVIN. K V	B
22	813817112025	KIRTHIKA. V	A
23	813817112026	KRISHNAKUMAR. R	A+
24	813817112027	LAKKSHMI PRIYA. S	O
25	813817112028	LAVANYA. B	A
26	813817112029	LINGTAN. N	A

S.NO	REG. NO.	NAME OF THE STUDENT	GRADE
27	813817112030	MAHALAKSHMI. S P	A
28	813817112032	MANIKANDAN. S	A
29	813817112033	MEENUASHWINI. R	A
30	813817112034	MOHAMED NOORDEEN. J	A
31	813817112036	NAZEER AHAMED. B	A+
32	813817112037	NIRMAL KUMAR. D	B+
33	813817112038	NISHA FRANCY. S	A
34	813817112039	PRATHEEP. M	A+
35	813817112040	RAGAVI. S	A
36	813817112041	RAHUL. J	A
37	813817112042	RAVIKIRAN. B	A
38	813817112043	RENUGA. S	A
39	813817112044	SABTHAMI. M	B+
40	813817112045	SAI HARI PRASHAD. N K	B+
41	813817112046	SALMAN MOHAMED. J	A
42	813817112047	SAM ANDREW. B	A
43	813817112049	SHARVIN SHAKESH. P	B+
44	813817112050	SHRI HARI. S	A
45	813817112051	SINDHUJA. C	B+
46	813817112052	SIVASUBRAMANIAN. V	A+
47	813817112053	SNEKA. C	A+
48	813817112054	SOUNTHIRIYA. G M	B
49	813817112055	SURRAJ. N S	A
50	813817112056	SURYA. S	A+
51	813817112057	SURYALAKSHMI. R	A
52	813817112058	THARIK AHAMADU MOHAMED DHEEN. M	A
53	813817112059	YAZHINI. C	A+

S.NO	REG. NO.	NAME OF THE STUDENT	GRADE
54	813817112301	FELIXNIRMALDOSS. M	A
55	813817112302	SIVA PERUMAL. R	A+
No. of S/O Grade			2
No. of A/A+ Grade			9
No. of B/A Grade			33
No. of C/B+ Grade			8
No. of D/B Grade			3
No. of E/B Grade			0
Target for course outcome Attainment			65
No of students above the target			52
CO-Attainment University			94.00

SARANATHAN COLLEGE OF ENGINEERING, Tiruchirappalli - 620012  
 Programme: **B.E. Instrumentation and Control Engineering**  
 Overall Attainment Sheet – POs & PSOs attainment calculation  
 AcademicYear : 2020-21ODD

COURSE CODE/TITLE: **EI8751 INDUSTRIAL DATA NETWORKS**: COURSE COORDINATOR: **Dr.M.Shanmugavalli** Batch: 2017 - 2021 Sem: **7** CO Attainment Level: **1 - (0% - 60%) 2- (61%-89%) 3-(90% and Above)**

CO	CO-Attainment Internal (CO-INT) (Avg. Attainment of All section) (%)	CO-Attainment University (CO-UNI) (Avg. Attainment of All section) (%)	Direct CO Attainment (0.40xCO-INT + 0.60xCO-UNI) (%)	Indirect CO Attainment (Course End Survey)	Over all CO Attainment (0.8xDirect + 0.2xIndirect) (%)	Over all CO Attainment Level
C403.1	100.00	94.00	96.40	92.73	95.67	3
C403.2	98.18	94.00	95.67	78.79	92.30	3
C403.3	98.18	94.00	95.67	95.15	95.57	3
C403.4	0.00	94.00	56.40	99.39	65.00	2
C403.5	0.00	94.00	56.40	78.18	60.76	1
C403.6	0.00	94.00	56.40	89.09	62.94	2

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C403.1	3	2	2	2	2						3	3	2	1	1
C403.2	3	2	2	2	2						3	3	2	1	1
C403.3	3	2	2	2	2	1					3	3	2	1	1
C403.4	3	2	2	2	2	1	1	1			3	3	2	1	1
C403.5	3	2	2	2	2	1	1				3	3	2	1	1
C403.6	3	2	2	2	2				1	1	3	3	2	1	1
C403	3.00	2.00	2.00	2.00	2.00	0.50	0.33	0.17	0.17	0.17	3.00	3.00	2.00	1.00	1.00

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C403.1	3.00	2.00	2.00	2.00	2.00						3.00	3.00	2.00	1.00	1.00
C403.2	3.00	2.00	2.00	2.00	2.00						3.00	3.00	2.00	1.00	1.00
C403.3	3.00	2.00	2.00	2.00	2.00	1.00					3.00	3.00	2.00	1.00	1.00
C403.4	2.00	1.33	1.33	1.33	1.33	0.67	0.67	0.67			2.00	2.00	1.33	0.67	0.67
C403.5	1.00	0.67	0.67	0.67	0.67	0.33	0.33				1.00	1.00	0.67	0.33	0.33
C403.6	2.00	1.33	1.33	1.33	1.33				0.67	0.67	2.00	2.00	1.33	0.67	0.67
C403	2.33	1.56	1.56	1.56	1.56	0.33	0.17	0.11	0.11	0.11	2.33	2.33	1.56	0.78	0.78