

(An Autonomous Institution - AFFILIATED TO ANNA UNIVERSITY, CHENNAI) S.P.G.Chidambera Neder - C.Nagammal Campus S.P.G.C. Nagar, K.Vellakulam - 625 701 (Near VIRUDHUNAGAR).

Department of Mechatronics Engineering

Value Added Course

on

Advanced Industrial Automation

07.08.2023 to 12.08.2023 (6 days)

~ HoD/MTRE

VAC Coordinator



(An Autonomous Institution - AFFILIATED TO ANNA UNIVERSITY, CHENNAI) S.P.G.Childambara Nadar - C.Nagammal Campus S.P.G.C. Nagar, K.Vellakulam – 625 701 (Near VIRUDHUNAGAR).

Department of Mechatronics Engineering

S.No.	Content checklist	Document				
1	Academic Year	2023-24 ODD Semester				
2	Regulation	KCET R2021				
3	Department Name	Mechatronics Engineering				
4	Name of the Value-added course	Advanced Industrial Automation				
5	No. of Credits	2				
6	Category: Theory/Lab/Hands-on/Skill based etc	Hands-on &Skill based				
7	Name and Details of the Joint-organization (industry/NGO etc) if any	Indwell Automation, Mangaluru.				
8	Resource person details	Er.Himanshukumar, Director, Indwell Automation,Mangaluru.				
9	Three Member Committee	Dr.K.Kannan HoD/MTRE				
	details	S.Wesley Moses Samdoss &				
		A.Arulkumar AP/MTRE				
10	VAC Coordinator Details	A.Arulkumar, AP/MTRE				
11	Duration (30 h mandatory)	42 hours				
12	Period (From-To)	07.08.2023 to 12.08.2023				
13	Venue	Industrial Automation Lab/Mechatronics				

Jac Loordinator

-E. X.R HoD/MTRE

R.J - Mar rolling

Dean (Academic Courses)



Accredited by NAAC with 'A' Grade

		Sub	mitted to the	SECRET	ARY for	approva	al thre	ough	the PRIN	CIPAL	
	ook No - No.				MIRE				1	26 8.83	
							123				
1)	Nam	e of the	object / item / ser	vice	:	Requer	ting	Perm	vission (to Conduc	4
2)	or (P	articipat	placement / upgra ion / Presentatior Renewal / New)	adation / N I)	ew) :	-				on "Alv. Jor our	ented
3)	Spec	ification	S		• :	<u>II</u> m	TRE	Stu	denty, 1-	The July to 2	22
4)	Appro (Min.	ox. Valu Quote /	e per object / item Reasons for Higł	n ner Quote)	:	(approximate)		and the second second second	Parti Lit	Pent	R ₄
5)	No. o	f Quotat	ions Received		:	Trave	line a	0.	10/0		
6)			objects / e needed		:	(tur R			50,00	
7)	Total	Value (ir	ncl. tax)		:	Food a	I a	CCom	dation of	or one trai	nor
		A, J Signati	02/100/2023 ure of Faculty A-ABWLKWAR		K K HOD	P	d2023	ł Au	chination, Sitte	Margalore 216/2 DENCIPAL	1
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COLLEGE OF ENGINEERING & TECHNOLOGY (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).

•

(- B-A)

Value Added Course on "Advanced Industrial Automation" Mark Statement

Year		onics Engineering	;	Regulation : K	CET R2021	
	: 111			Semester : V		
S.No.		Reg. No.	Student Name	Internal Marks (40)	External Marks (60)	Total (10
1	21UMT001		JEGADHISH PANDIARAJ T.S	36	60	96
2	21UMT002	920421115001	ARAVINDH AARYA.G	38	49	
3	21UMT003	920421115018	SRI RAMACHANDRAN K	35	39	87
4	21UMT004	920421115012	PARVATHARAJAN.B	38	56	74
5	21UMT006	920421115004	GIRI.P	37		94
6	21UMT007	920421115016	SELVAMANI.T	35	56	93
7	21UMT009	920421115003	BHARATHI.R	37	53	88
8	21UMT012	920421115020	SURYAVIGNESH.R	35	26	63
9	21UMT013	920421115015	SAROJ KANNA		42	77
10	21UMT014	920421115009	MOHAMMED AMMAR.S	37	58	95
11	21UMT015	920421115005	HARIHARAN.B	34	47	81
12	21UMT016	920421115019	SUBASH CHANDRU.P	34	60	94
13	21UMT017	920421115002	ARAVINTHA KUMAR.S	35	59	94
14	21UMT018	920421115017	SIVANESAKARTHIC.RA.K	36	42	78
15	21UMT019	920421115014	SANGEETHALAKSHMI.M	34	52	86
16	21UMT020	920421115008	LAKSHMAN HARI.C	35	60	95
17	21UMT021	920421115010	MUTHU PANDI.V	34	46	80
18	21UMT023		POISOLLAN G.A	37	59	96
19	21UMT024		KARUNA SAGAR.T	35	60	95
20	21UMT025		ARAVIND.V	34	32	66
21	21UMT026		ARIVISHNU.R	35	56	91
22	21UMT027		ESAKKI BALA KARTHIK.K	34	46	80
23	21UMT028		MITHUN KUMAR G.S	34	55	89
24	21UMT029		ARSHAD PARWESH	37	60	97
25	21UMT030		LISHOURE KUMAR.D	36	47	83
26	21UMT031		SATHISH KUMAR.K	38	60	98
27	21UMT032		GOKILAN.K.G	36	56	92
28	21UMT033		RUN PRATOP.K	32	51	83
			INESH.K	33	50	83
	1 1	20121113303 D	LUII.K	38	33	71

VAC Coordinator

HoD/MTRE N.S. Swallin Dean (Academic Courses) 26/8/10



(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).

DEPARTMENT OF MECHATRONICS ENGINEERING

12.08.2023

Value Added Course on "Advanced Industrial Automation"

S. No.	Roll	Name		Project Demo	Instration		Total
1	Number		Presentation (10)	Knowledge Acquired (10)	Creativity (10)	Viva & Result (10)	(40)
	21UMT001	JEGADHISH PANDIARAJ T.S	10	9	g	8	36
2	21UMT002	ARAVINDH AARYA.G	VO	10	9	9	38
3	21UMT003	SRI RAMACHANDRAN K	9	9	9	8	35
4	21UMT004	PARVATHARAJAN.B	10	10	9	9	38
5	21UMT006	GIRI.P	10	9	9	9	37
6	21UMT007	SELVAMANI.T	9	9	9	8	35
7	21UMT009	BHARATHI.R	10	9	9	9	37
8	21UMT012	SURYAVIGNESH.R	9	9	9	8	35
9	21UMT013	SAROJ KANNA	10	9	9	9	37
10	21UMT014	MOHAMMED AMMAR.S	9	9	9	7	34
11	21UMT015	HARIHARAN.B	9	8	9	8	34
12	21UMT016	SUBASH CHANDRU.P	9	9	9	8	35
13	21UMT017	ARAVINTHA KUMAR.S	9	9	9	9	36
14	21UMT018	SIVANESAKARTHIC.RA.K	9	8	9	8	34
15	21UMT019	SANGEETHALAKSHMI.M	10	9	8	8	35

Project Demonstration marks

	T						
16	21UMT020	LAKSHMAN HARI.C	9	9	8	8	34
	21UMT021	MUTHU PANDI.V	10	9	q.	9	37
18	21UMT022	NILESH.A	Ав	AB	AB	AB	AB.
19	21UMT023	POISOLLAN G.A	9	9	9	8	35
20	21UMT024	KARUNA SAGAR.T	9	9	9	7	34
21	21UMT025	ARAVIND.V	10	9	9	7	35
22	21UMT026	ARIVISHNU.R	10	9	8	7	34
23	21UMT027	ESAKKI BALA KARTHIK.K	9	9	8	8	34.
24	21UMT028	MITHUN KUMAR G.S	10	9	9	9	37
25	21UMT029	ARSHAD PARWESH	9	9	9	9	36
26	21UMT030	KISHOURE KUMAR.D	10	10	9	9	38
27	21UMT031	SATHISH KUMAR.K	9	9	9	9	36
28	21UMT032	GOKILAN.K.G	9	8	8	7	3&
29	21UMT033	ARUN PRATOP.K	9	8	8	8	33
30	21UMT034	DINESH.K	10	10	9	9	38

Trainer Er.Himanshukumar, Director, Indwell Automation

J.L

VAC Coordinator A.Arulkumar, AP/MTRE

A.A. HoD/MTRE

Dr.K.Kannan Prof&Head/MTRE

INDWELL AUTOMATION



Value Added Course on "Advanced Industrial Automation"

Project Demonstration marks

S.	Roll	Name		Project Demo	onstration		Total
No.	Number		Presentation (10)	Knowledge Acquired (10)	Creativity (10)	Viva & Result (10)	(40)
1	21UMT001	JEGADHISH PANDIARAJ T.S	10	9	9	8	36
2	21UMT002	ARAVINDH AARYA.G	10	10	9	9	38
3	21UMT003	SRI RAMACHANDRAN K	9	9	9	8	35
4	21UMT004	PARVATHARAJAN.B	10	10	9	9	38
5	21UMT006	GIRI.P	10	9	9	9	37
6	21UMT007	SELVAMANI.T	9	9	9	8	35
7	21UMT009	BHARATHI.R	10	9	9	9	37
8	21UMT012	SURYAVIGNESH.R	9	9	9	8	35
9	21UMT013	SAROJ KANNA	10	9	9	9	37
10	21UMT014	MOHAMMED AMMAR.S	9	9	9	7	34
11	21UMT015	HARIHARAN.B	9	8	9	8	34
12	21UMT016	SUBASH CHANDRU.P	9	9	9	8	35
13	21UMT017	ARAVINTHA KUMAR.S	9	9	9	9	36
14	21UMT018	SIVANESAKARTHIC.RA.K	9	8	9	8	34
15	21UMT019	SANGEETHALAKSHMI.M	10	9	8	8	35
16	21UMT020	LAKSHMAN HARI.C	9	9	8	8	34
17	21UMT021	MUTHU PANDI.V	10	9	9	9	37

18	21UMT023	POISOLLAN G.A	9	9	9	8	35
19	21UMT024	KARUNA SAGAR.T	9	9	9	7	34
20	21UMT025	ARAVIND.V	10	9	9	7	35
21	21UMT026	ARIVISHNU.R	10	9	8	7	34
22	21UMT027	ESAKKI BALA KARTHIK.K	9	9	8	8	34
23	21UMT028	MITHUN KUMAR G.S	10	9	9	9	37
24	21UMT029	ARSHAD PARWESH	9	9	9	9	36
25	21UMT030	KISHOURE KUMAR D	10	10	9	9	38
26	21UMT031	SATHISH KUMAR.K	9	9	9	9	36
27	21UMT032	GOKILAN.K.G	9	8	8	7	32
28	21UMT033	ARUN PRATOP.K	9	8	8	8	33
29	21UMT034	DINESH.K	10	10	9	9	38

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Director Indwell Automation

Total poin	tion time Email Name	Start time	D
42	3 11:56:21 21umt017@kamarajeng(ARAVINTHA KUMAR.S	8-14-23 11:44:	1
42	3 11:56:27 21umt012@kamarajeng; SURYAVIGNESH.R	8-14-23 11:30::	2
39	3 12:01:21 21umt003@kamarajeng; SRI RAMACHANDRAN K	8-14-23 11:28:4	3
56	3 12:05:04 21umt031@kamarajeng; SATHISH KUMAR.K	8-14-23 11:28:	4
58	3 12:05:21 21umt013@kamarajeng SAROJ KANNA	8-14-23 11:29:	5
59	3 12:05:26 21umt016@kamarajeng(SUBASH CHANDRU.P	8-14-23 11:28:	6
49	3 12:08:39 21umt002@kamarajeng(ARAVINDH AARYA.G	8-14-23 11:28:4	7
46	3 12:08:40 21umt026@kamarajeng(ARIVISHNU.R	8-14-23 11:28:	8
47	3 12:08:44 21umt014@kamarajeng(MOHAMMED AMMAR.S	8-14-23 11:28:	9
53	3 12:09:39 21umt007@kamarajeng(SELVAMANI.T	8-14-23 11:28:	10
50	3 12:10:53 21umt033@kamarajeng(ARUN PRATOP.K	8-14-23 11:28:	11
59	3 12:10:56 21umt021@kamarajeng MUTHU PANDI.V	8-14-23 11:28:4	12
56	3 12:14:10 21umt025@kamarajeng/ARAVINTH.V	8-14-23 11:28:	13
56	3 12:15:35 21umt006@kamarajeng/GIRI.P	8-14-23 11:29:	14
51	3 12:15:50 21umt032@kamarajeng(GOKILAN.K.G	8-14-23 11:39:	15
32	3 12:16:04 21umt024@kamarajeng KARUNA SAGAR.T	8-14-23 11:39:	16
47	3 12:16:15 21umt029@kamarajeng(ARSHAD PARWESH	8-14-23 11:42:	17
55	3 12:16:46 21umt027@kamarajeng; ESAKKI BALA KARTHIK.K	8-14-23 11:30:2	18
60	3 12:17:11 21umt028@kamarajeng{ MITHUN KUMAR.G.S	8-14-23 11:28:4	19
60	3 12:17:28 21umt019@kamarajengį SANGEETHALAKSHMI.M	8-14-23 11:29:0	20
52	3 12:18:13 21umt018@kamarajengį SIVANESAKARTHIC.RA.K	8-14-23 11:28:4	21
46	3 12:18:20 21umt020@kamarajengį LAKSHMAN HARI.C	8-14-23 11:29:1	22
60	3 12:21:57 21umt023@kamarajengį POISOLLAN G.A	8-14-23 11:28:	23
60	3 12:22:27 21umt015@kamarajengį HARIHARAN.B	8-14-23 11:28:4	24
60	3 12:22:51 21umt030@kamarajengį KISHOURE KUMAR.D	8-14-23 11:29:0	25
	3 12:22:52 21umt001@kamarajengį JEGADHISH PANDIARAJ T.S	8-14-23 11:29:0	26
56	3 12:23:02 21umt004@kamarajeng PARVATHARAJAN.B	8-14-23 11:28:5	27
33	3 12:25:53 21umt034@kamarajengį DINESH.K	8-14-23 11:39:4	28
26	3 13:49:03 21umt009@kamarajengį BHARATHI.R	8-14-23 13:21:5	29

hih VAC-Co Ordinator.

A.d.



INDWELL ISO 9001:2015 CERTIFIED

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Value Added Course on "Advanced Industrial Automation" Consolidated Mark Statement

Institute :	Kamaraj Coll	ege of Engineeri	ng and Technology	Dpartement : N	Aechatronics E	Engg
Year & S	em : III	& V		Duration: 07-0	8-2023 to 12-0	08-2023
S.No.	Roll No.	Reg. No.	Student Name	Internal Marks (40)	External Marks (60)	Total (100)
1	21UMT001	920421115006	JEGADHISH PANDIARAJ T.S	36	60	96
2	21UMT002	920421115001	ARAVINDH AARYA.G	38	49	87
3	21UMT003	920421115018	SRI RAMACHANDRAN K	35	39	74
4	21UMT004	920421115012	PARVATHARAJAN.B	38	56	94
5	21UMT006	920421115004	GIRI.P	37	56	93
6	21UMT007	920421115016	SELVAMANI.T	35	53	88
7	21UMT009	920421115003	BHARATHI.R	37	26	63
8	21UMT012	920421115020	SURYAVIGNESH.R	35	42	77
9	21UMT013	920421115015	SAROJ KANNA	37	58	95
10	21UMT014	920421115009	MOHAMMED AMMAR.S	34	47	81
11	21UMT015	920421115005	HARIHARAN.B	34	60	94
12	21UMT016	920421115019	SUBASH CHANDRU.P	35	59	94
13	21UMT017	920421115002	ARAVINTHA KUMAR.S	36	42	78
14	21UMT018	920421115017	SIVANESAKARTHIC.RA.K	34	52	86
15	21UMT019	920421115014	SANGEETHALAKSHMI.M	35	60	95
16	21UMT020	920421115008	LAKSHMAN HARI.C	34	46	80
17	21UMT021	920421115010	MUTHU PANDI.V	37	59	96
18	21UMT023	920421115013	POISOLLAN G.A	35	60	95
19	21UMT024	920421115007	KARUNA SAGAR.T	34	32	66
20	21UMT025	920421115301	ARAVIND.V	35	56	91
21	21UMT026	920421115302	ARIVISHNU.R	34	46	80
22	21UMT027	920421115306	ESAKKI BALA KARTHIK.K	34	55	89
23	21UMT028	920421115309	MITHUN KUMAR G.S	37	60	97
24	21UMT029	920421115303	ARSHAD PARWESH	36	47	83
25	21UMT030	920421115308	KISHOURE KUMAR.D	38	60	98
26	21UMT031	920421115310	SATHISH KUMAR.K	36	56	92
27	21UMT032	920421115307	GOKILAN.K.G	32	51	83
28	21UMT033	920421115304	ARUN PRATOP.K	33	50	83
29	21UMT034	920421115305	DINESH.K	38	33	71



Director Indwell Automation



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DEPARTMENT OF MECHATRONICS ENGINEERING

(Accredited by NBA, New Delhi)

1 44

Value Added Course on Advanced Industrial Automation

S.No	Roll.No	Reg.No	Name	07.08	3.2023	08.08	8.2023	09.08	3.2023
				FN	AN	FN	AN	FN	AN
1	21UMT001	920421115006	JEGADHISH PANDIARAJ T.S	T	F	75	rich	-	A
2	21UMT002	920421115001	ARAVINDH AARYA.G	Gente	achutta	Gendth.	Ganth	adot-	Gehth
3	21UMT003	920421115018	SRI RAMACHANDRAN K	K.b.	K. R.l (RSP (Kital		RPX
4	21UMT004	920421115012	PARVATHARAJAN.B	DDA	Billen	Bler.	Bellen	BOK 11	B. Beri
5	21UMT006	920421115004	GIRI.P	PADU	P.	RED	RF1	Pit	PHA-
6	21UMT007	920421115016	SELVAMANI.T	T.A.	TIVE.	- iel Lr.	Fisht		T-jel
7	21UMT009	920421115003	BHARATHI.R	RE	DRA	DAL	-R. Bhi	TRELit	- RBAL
8	21UMT012	920421115020	SURYAVIGNESH.R	Rich	PSI.	P.S.	Rist	Boy.	PS
9	21UMT013	920421115015	SAROJ KANNA	Saroj Ranna. J	SarajKana!	i wioj Kana	Sinoi Kana.	J.S. And Karra	JSancy Kanna
10	21UMT014	920421115009	MOHAMMED AMMAR.S	Annab	Autor	Annar			
11	21UMT015	920421115005	HARIHARAN.B	Adr	AAN .	ALLE	Horse	Annal	Ammor
12	21UMT016	920421115019	SUBASH CHANDRU.P	PSAUS	PSAUS	P.S. Jan	BERKE	n'AL-	Po 1
13	21UMT017	920421115002	ARAVINTHA KUMAR.S		E derovisthe B			Piang ching	P.S.s.hs
14	21UMT018	920421115017	SIVANESAKARTHIC.RA.K	BotStut	DA.F. Sutrale	2 Servin That	RA. A. STOR	5 thous there	
15	21UMT019	920421115014	SANGEETHALAKSHMI.M	M. Sangath.	N.Songett		N. Sangestra	H:Sangerte	MA. Rumby
16	21UMT020	920421115008	LAKSHMAN HARI.C	P.Caking	2 Citsher.	PGKAWS.		OL KIL	M. Jangetta
17	21UMT021	920421115010	MUTHUPANDI.V	V.ml March	y.m. hylde	Vormali	C. atshirt.		Elatsroj
				1 1		Val VVV	V TO WWW	N. Mm.	N.mlknoli

S.No	Roll.No	Reg.No	Name	07.08	.2023	08.08	3.2023	09.08	8.2023
				FN	AN	FN	AN	FN	AN
18	21UMT022	920421115011	NILESH.A	AB	AB,	AB	AB	AB	AB
19	21UMT023	920421115013	POISOLLAN G.A	ant	dutti	Ch Wh	Andli	Queli	Que
20	21UMT024	920421115007	KARUNA SAGAR.T	That	18-84	toget a	Jack .	A A A	(Cha
21	21UMT025	920421115301	ARAVINTH.V	V. Aninh	V. Arravinh		17.1	ist.	ATI
22	21UMT026	920421115302	ARIVISHNU.R	RA	R.A.	RACI	9 A	R.A.	V. (travial
23	21UMT027	920421115306	ESAKKI BALA KARTHIK.K	ing	D.	A.	the -	- 1- 1	Alex-
24	21UMT028	920421115309	MITHUN KUMAR.G.S	G.S. Mithum	1 C DEN	0	G.S.Mithun	TD	
25	21UMT029	920421115303	ARSHAD PARWESH.S	S. Arubad			S. Arthad	- 0	G.S. Mithun
26	21UMT030	920421115308	KISHOURE KUMAR.D						
27	21UMT031	920421115310	SATHISH KUMAR.K	B. Butte	12 Set	K.S.H.	1) Sushou job mas	D.O.houdoumay	Diestinus bunas.
28-	21UMT032	920421115307	GOKILAN.K.G	KG. Credit	KGGAR	KGGekh.	Kacht	Val	K.Sotz
29	21UMT033	920421115304	ARUN PRATOP.K	K. A.R.	h. L.	K. LQ.	K.GUBLT-	N Q	F. AR.
30	21UMT034	920421115305	DINESH.K	K. Dinesd	K. Dinest	Kipines	Kidines	k. Dineste	- K. STRUS

Trainer.

VAC JA-Charge.

HOD/MTRE



(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).

DEPARTMENT OF MECHATRONICS ENGINEERING

(Accredited by NBA, New Delhi)

Value Added Course on Advanced Industrial Automation

S.No	Roll.No	Reg.No	Name	10.08	.2023	11.08	.2023	12.08	.2023
0.110	Romitio	Reg.ru	ind 2 p	FN	AN	FN	AN	FN	AN
1	21UMT001	920421115006	JEGADHISH PANDIARAJ T.S	II	TA-	8	F	18 1	The second secon
2	21UMT002	920421115001	ARAVINDH AARYA.G	Gado	adiata	a. Outh	G. Cutt	alluth	aluth
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DEPARTMENT OF MECHATRONICS ENGINEERING

Organizes

Six Days Value Added Course

on

Advanced Industrial Automation

for Pre Final Year Students

<u>Resource Person:</u> Er. Himanshu Kumar, Director, Indwell Automation, Mangaluru.

Date: 07.08.2023 to 12.08.2023

Time: 9.00 am to 4.00 pm

Venue: Mechatronics Lab

Convener

Dr. K. Kannan Professor & Head Coordinator

Mr. A. Arulkumar Assistant Professor



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DEPARTMENT OF MECHATRONICS ENGINEERING

(Accredited by NBA, New Delhi)

KAMARAJ/MTRE/VAC1/2023-2024

07-08-2023

CIRCULAR

The Department of Mechatronics Engineering is organizing the 6 Days Value Added Course on "Advanced Industrial Automation". The details of the programme are as follows:

Date	: 07.08.2023 to 12-08-2023
Time	: 9.10 a.m. to 4.00 p.m.
Venue	: EDUSAT Hall
Name of the Resource Person	: Er.Himanshukumar, Director, Indwell Automation,
	Mangaluru.
Торіс	: 6 Days Value Added Course on "Advanced Industrial Automation"
Topic Relevance to PO	
	: 6 Days Value Added Course on "Advanced Industrial Automation"

Event Outcome : This program given the hands on exposure to the students in industrial

Control using PLC, HMI, SCADA.

07 08 2023 VAC Coordinator

Cc to file

- 1. IQAC/Dean Academic office/Administrative office
- 2. Department Main Notice Board.
- 3. To be Read in III Year MTRE Class Room.
- 4. To be circulated to III Year MTRE through their office mail.
- 5. Department Circular File.

02/05/13 HoD/MTRE



INDWELL Automation Workshop Of Automatic Systems PLC, HMI, SCADA, DRIVES TRAINING & PROJECTS (MSME Registered and ISO 9001-2015 certified)

Value Added Course on Advanced Industrial Automation - Program Outcome Mapping

	Forenoon	Mapped to Program Outcome
DAY 1 Forenoon	Introduction to Automation, introduction to controller, micro controller vs PLC, PLC block diagram, Ladder Diagram programming language, basic instructions NO, NC, Coil. Basic programming tricks, basic programs based on truth table, Latch, Flag, examples and programming trick.	PO1,PO2,PO3,PSO1,PSO2
DAY 1 Afternoon	Practice of programs in Codesys software. Ladder simulation, Visualization.	PO1,PO2,PO3,PO5,PSO1,PSO 2
DAY 2 Forenoon	Timer, timer-based examples and programming trick.	PO1,PO2,PO3,PSO1,PSO2
DAY 2 Afternoon	Practice of programs in Codesys software. Ladder simulation, Visualization	PO1,PO2,PO3,PO4,PO5,PSO1 PSO2
DAY 3 Forenoon	Pulse instruction, Pulse based examples, Counter, counter- based examples.	PO1,PO2,PO3,PSO1,PSO2
DAY 3 Afternoon	Practice of programs in Codesys software. Ladder simulation, Visualization.	PO1,PO2,PO3,PO4,PO5,PSO1 PSO2
DAY 4 Forenoon	Introduction to digital inputs/ outputs, wiring concept, SINK/ SOURCE, real time wiring of PLC. Introduction to PLC hardware and software, MITSUBISHI PLC, GX Developer software.	PO1,PO2,PO3,PO5,PO9,PSO1 PSO2
DAY 4 Afternoon	Practice of programs in Codesys software. Ladder simulation, Visualization.	PO1,PO2,PO3,PO4,PO5,PO9, PO10,PO11,PSO1,PSO2
	Programming in GX Developer, communication, program upload/ download, troubleshooting, program modification, Online edit. Project development.	
DAY 5 Forenoon	Introduction to HMI, interface with PLC, screen development, digital & analog data configuration, analog data scaling, password level, screen display & Industrial project development.	PO1,PO2,PO3,PO4,PO5,PO9, O10,PO11,PSO1,PSO2
DAY 5 Afternoon	Introduction to SCADA, interfacing with PLC, screen development, digital & analog data configuration, analog data scaling, driver selection and configuration, tag creation and configuration & Industrial project development.	PO1,PO2,PO3,PO4,PO5,PO9, O10,PO11,PSO1,PSO2
DAY 6 Forenoon	Introduction to AC Drive, hardware, parameter setting, speed, direction, acceleration and deceleration time control of induction motor, interfacing with PLC, multispeed & multidirectional control project.	PO1,PO2,PO3,PO4,PO5,PO9, O10,PO11,PSO1,PSO2
×.	Introduction to Analog system, hardware, block diagram of ADC and DAC application, standard signal, channel selection, AD- DA start, scaling, TO FROM instruction, real time application. Monitored and controlled on SCADA.	
DAY 6 Afternoon	Assessment test & Mini Project Demonstration, Feedback and conclusion.	PO1,PO2,PO3,PO4,PO5,PO8, O9,PO10,PO11,PO12,PSO1,PS O2
hi	Jehortust2027	x.x-

VAC-Coordinator

P. HOD/ MTRE

Trainer.

SJEC campus, Vamanjoor, Mangaluru, D. K. Karnataka, Bharat 575028 7588330985/ 9021330238, indwellmlr@gmail.com, https://sites.google.com/view/indwellautomationmlr/home



Himanshu Kumar (Director)

Education:

Electronics and Communication Engineer

MBA in project management (Distance)

Experience:

16 years of experience in Industrial Automation training and project in different industries and universities

Regular industrial project development and troubleshooting based on PLC, HMI, SCADA, DRIVES and ANALOG in different industries such as:

STPC Iran	TATA Motors Pune	ADVIC India Pune	
Kalyani groups Pune	IDEAL explosives Odessa	Nitta Gelatin Kochi	
Beker gauges Pune	Balco India Gujrat	ΤΑΤΑ ΤΟΥΟ	

Automation awareness program based on PLC, HMI, SCADA, DRIVES and ANALOG in different Engineering colleges for students and faculty members:

IIT Bhubaneshwar	IIIT Tiruchirappalli	IIIT Kanchipuram	
University of Technology Oman		•	
MIT Manipal	VIT Vellore	PSG Tech Coimbatore	
MIT Chennai	Army Institute of Technology Pune	Delhi Technological University Delhi	
NIRMA UNIVERSITY Ahmadabad	NPTI Nangal (Power Ministry, Govt. of India	Andhra University Vishakhapatnam	
PCCOE Pune	DYP Pune	AISSMS Pune	
ZEAL Pune	Trinity Pune	MMIT Pune	
BIGCE Solapur	Sanjivini Kopargaon	MIT Pune	
Tolani Maritime Pune	GECR Awasari	RIT Sangli	
NIT Surat	NIT Jalandhar	NIT Warangal	
NIT Suratkal	NIT Jaipur	NIT Patna	
LNMIIT Jaipur	SJEC Mangaluru	NITTE Mangaluru	
PACE Mangaluru	SDMIT Mangaluru	CEC Mangaluru	
SAHYADRI Mangaluru	ALVA'S Mangaluru	YENEPOYA Mangaluru	
MITE Mangaluru			
RVCE Bengaluru	NMIT Bengaluru	SDMCET Dharwar	
SRI SAIRAM ENGINEERING	SRI RAMKRISHNA ENGINEERING		
COLLEGE Chennai	COLLEGE Coimbatore	SRM Chennai	
SMVDU Jammu			
LBRCE Vijaywada	SSIT Khammam	GIT Gudlavaleru	

and many more.



Advanced Industrial Automation Training Friendly and informative sessions

<u>PLC</u>: introduction, types, leading hardware and software, logic development, important instruction, Industrial real applications, Industrial I/Ps & O/Ps, PLC wiring & Industrial project development.

<u>HMI / MMI</u>: Introduction, interfacing with PLC, screen development, digital & analog data configuration, analog data scaling, password level, screen display & Industrial project development.

<u>SCADA</u>: Introduction, interfacing with PLC, screen development, digital & analog data configuration, analog data scaling, driver selection and configuration, tag creation and configuration & Industrial project development.

<u>AC DRIVE</u>: Introduction, hardware, parameter setting, speed, direction, acceleration and deceleration time control of induction motor, interfacing with PLC, multispeed & multidirectional control project.

<u>ANALOG</u>: Introduction to analog signal, standard signal type, block diagram, ATD and DTA conversion program and wiring, Interface with SCADA.

<u>INTERFACING PROJECT</u>: Complete interface of PLC, HMI, SCADA, AC DRIVE, AC motor, Digital I/Os with a real Industrial application.

Duration: 6 Days.

Fee: Rs. 1500/- (Rupees fifteen hundred) per participant. [minimum 30 participants required]

Dates: 7th of Aug to 12th of Aug 2023.

[Travel food and stay for one trainer will be arranged by college]



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Department of Mechatronics Engineering

Sixth BoS Meeting Minutes

Date

: 18-03-2023

Time : 2.00 P.M - 4.00P.M

Venue : SMC Lab

Mode of Meeting : Physical- offline mode

The following members were present:

S.No	Name of the Expert	Designation	Capacity
l	Dr. S. Supriya	Professor & Head. Department of Mechanical Engineering. Government College of Engineering College, Tirunelveli - 627007.	Anna University Nominee
2	Dr. N. Sivakumaran	Professor. Department of Instrumentation and Control Engineering. National Institute of Technology. Tiruchirappalli - 620015.	Academic Council Nominee
3	Dr. M. Suresh	Associate Professor. Department of Robotics and Automation Engineering. PSG College of Technology, Coimbatore – 641004.	Academic Council Nominee
4	Dr.R.Kesavamoorthy	Director, Meta Heuristic Corporate India Pvt. Ltd., ISRO Layout, Bangalore – 560078.	Industrial Expert

. P. Rilwan Fayas	Senior Engineer & Team Lead	Alumni
	Automotive Domain.	
	TATA ELXSI, Tiruvanathapuram -	
	695581	
	. P. Rilwan Fayas	Automotive Domain. TATA ELXSI, Tiruvanathapuram –

Intern:	al faculty Members of BoS	75.	
S.No	Name of the Faculty	Designation	Signature
١.	Dr. K. Kannan, M.E., Ph.D.,	Professor & Head	
2.	Dr. S.Rajesh Babu M.E., Ph.D.,	Assistant Professor	3.Rt
3.	Mr. A. Arul Kumar, M.E. (Ph.D.,)	Assistant Professor	
4.	Mr. P. Bala Sundar, M.E. (Ph.D.,)	Assistant Professor	kh
5.	Mr. S. David Blessley. M.E, (Ph.D)		1. Record
6.	Mr. A. Ganesan, M.E.,	Assistant Professor	88 A

006.01.00 :Welcome address by HoD

- ➢ Welcome address
- Dr.K.Kannan, Professor & HoD/MTRE gave welcome address to all the members of the Board of Studies.

006.02.00 :Introduction of BoS members and new Academic Council Nomince

- BoS Members introduction
- Dr.K.Kannan, Professor & HoD/MTRE gave introduce the members of Board of Studies.

006.03.00 : Approval of 5thBoSMeeting Minutes & Action taken

Item No.	Suggestions of BoS Members in 5 th BoS Meeting	Action Taken
BOS	BoS Members gave valuable suggestions in	The Suggestions given by BoS
005.02	R2020 - IV Year curriculum and syllabus.	Members were incorporated in the
		R2020 - IV Year curriculum and
	•	syllabus as per their
		recommendations.
BOS	The members advised the three members	As per the advice of BoS members

005.05	mentors for NPTEL Courses.	has assigned us faculty mentor for the NPTEL Course on Engineering
		Metrology.
BOS	Modified Curriculum Framework R2021 -	The entire mechatronics curriculum
005.06	BoS Members asked our faculty members	is splitted in to different domains
	to take more concentration in framing the	and domain incharges and subject
	verticals and syllabus to Professional	wise subject experts were framed
	Elective Course Verticals.	and framed the curriculum at most
•		care.
	List of Open Elective papers offered by our	
	department	All the members jointly approved the open elective courses to be
		offered.

- All the members appreciated our efforts taken towards implementing the suggestions given by the members.
- All the members jointly approved the Minutes of the Fifth Board of Studies meeting.

06.04.00 :ITEMS FOR DISCUSSION AND APPROVAL

- The HoD Dr.K.Kannan presented the curriculum and highlighted the important features of R2021.
- > Members clarified about the honours degree and minor degree concepts.
- The HoD Dr.K.Kannan presented the syllabi of R2021 and listed the subjects of V and VI semester courses including the verticals and minor degree courses offered by department of department of Mechatronics Engineering.

006.04.01: Proposed Curriculum and Syllabi for V and VI semester Verticals and Minor

Name of the Course	Suggestions Grow D. C.
Embedded Systems And	Suggestions from BoS members
Programming	 Dr. N. Sivakumaran , Academic Council
	Nominee asked about the prerequisites for this
	subject in curriculum. Dr.K.Kannan clarified in
	IV Semester the Digital Electronics and
	Microprocessor course were included. Mmebers
	accepted it and appreciated for including
	industrial standard PIC Controller and RTOS
	Concepts.
	Members jointly approved the syllabus and asked
	the subject experts to update the recent editions of
	text book.
Kinematics And Dynamics Of	Dr. M. Suresh, Academic Council Nominee
Machinery	suggested that 9 hours is not sufficient to cover
	the Unit-II Kinematics Of Linkage And Cam
	Mechanisms. He also suggested to include
	tutorial hour if possible.
	 Dr. S. Supriya, Anna University Nominee
	suggested that the first unit Basics of Mechanisms
	will completed in 6 hours, hence for the Unit-II
	Kinematics Of Linkage And Cam Mechanisms 12
	hours may be allotted.
	The suggestions were accepted by all the
mbedded Systems L. I	members of the board and subject expert.
mbedded Systems Laboratory	Dr. N. Sivakumaran , Academic Council
	Nominee. suggested list of experiments is high
	for one credit lab course. Also he suggested to
	update the text and reference books. Since the
	John B. Peatman, "Design with PIC
	Microcontrollers" Prentice Hall, 2003 is out of
	print.

V Semester

	 Dr. S. Supriya, Anna University Nominee
	suggested to remove one inappropriate theory
	course in curriculum and asked to provide two
	credits for lab courses.
	 Mr. P. Rilwan Fayas, ALUMNI Nominee asked
	the board chairman to remove 8085 experiments.
	He also suggested to focus on PIC or ARM
	controllers to meet the skills requirement of core
	industries.
Theory Of Machines Laboratory	 Dr.K.Kannan explained this lab course is
	common to mechanical and mechatronics
	engineering students. Dr. M. Suresh, Academic
	Council Nominee suggested that experiment with
a da ser a tradición de la composición	Cam & Spring mass system is in Generic form.
	> He suggested to rename in specific like Calculate
	the jump speed etcDr.K.Kannan assured to
	member will convey this valuable point to
	mechanical board.

Name of the Course	Suggestions from BoS members
Fluid Power Systems	Dr. M. Suresh, Academic Council Nominee
(Theory Cum Lab)	 explained Hydraulics and Pneumatics Course is an hot core paper for our mechatronics engineering. He enquired the reason for merging these two courses. The subject expert P.Balasundar explained the reasons for merging that all the members
	accepted it.
	 Dr. M. Suresh, Academic Council Nominee suggested to include modern trends like KV map method for pure mechatronics system in syllabus
	Subject expert accepted it.

	 Dr. N. Sivakumaran , Academic Council
	Nominee asked the subject expert to rearrange th
	text book in such a manner Anthony Esposito an
Industrial Automation	then Srinivasan.R as per our syllabus contents.
(Theory Cum Lab)	Dr. N. Sivakumaran , Academic Council
	Nominee suggested to include SCADA in syllabus
	Dr. M. Suresh, Academic Council Nominee
	suggested to reduce the Syllabus in Unit -IV
	Applications of PLC. Since the 6 hours is not
	sufficient.
	Dr. N. Sivakumaran , Academic Council
	• Nominee suggested to remove the Unit -V
	Overview of Intelligent Controls and asked to
	include SCADA and Communication Topologies
	since it is an hot area in industrial automation.
	The Subject expert accepted it.
Robotics And Machine Vision	 Dr. N. Sivakumaran , Academic Council
ystem	Nominee suggested to revise the syllabus as three
	units for robotics and two units for Machine
	vision system.
	Sector to remove Selection Of Kobols
	and Applications from Unit-IV and asked to
	include machine vision system. The subject
omputer Aided Design And	expert accepted it.
anufacturing Laboratory	Dr. M. Suresh, Academic Council Nominee
and acturing Laboratory	enquired whether the syllabus has the provision
	for CNC Lathe interface.
	Mr.S.David Blessley subject expert explained that
1 P	the experiments will be performed and also that
	this has successfully done in the past with CNC
4 N N N	Lathe interface infrastructure available in
	mechanical department. All the members
	accepted the same.

	He also suggested to rename the experiments as follows. NC code generation for milling using any CAM package & Machining NC code generation for turning using any CAM
	 package & Machining Subject expert accepted it.
Robotics And Machine Vision System Laboratory	Member&enquired about the software packages available in our lab premises.
	Dr.K.Kannan explained about the available softwares. Members suggested to use ADAMS
	Software for Robot Dynamics experiments. Mr. P. Rilwan Fayas, ALUMNI Nominee
	enquired about the controllers availability for Machine Vision experiments. Also he suggested
	to focus on ATMEL controllers to meet the skills requirement of core industries.
	> Dr.K.Kannan, explained that we are having an
	training kits offered by RobotoAl Technologies, a start up company in PSG College of Engineering
	for Machine Vision system .All the members accepted it.

PROFESSIONAL ELECTIVE VERTICAL 1 : ROBOTICS

Name of the Course	Suggestions from BoS members
Design of Robot Elements	All the members of the board accepted the syllabus and suggested to include Selection of Robots topic in syllabus.
Robot Operating Systems	All the members of the board accepted the syllabus without any modification and also appreciated that the text books and reference books suggested were good.

Autonomous Mobile Robots	 All the members of the board accepted the Solution to the solution of the board accepted the
Collaborative Robotics	 All the members of the board accepted the Syllabus without amount of the
Medical Robotics	 syllabus without any modification. All the members of the board accepted the syllabus without any modification.
Humanoid Robotics	 All the members of the board accepted the syllabus without any modification.
Micro Robotics	 All the members of the board accepted the syllabus without any modification.

PROFESSIONAL ELECTIVE VERTICAL 2 : AUTOMATION

Name of the Course	Suggestions from BoS members
Total Integrated Automation	 Dr. N. Sivakumaran , Academic Council
	Nominee suggested to revise the syllabus as
	below.
	He Suggested to include Piping and
	Instrumentation concepts in this subject by
	removing Supervisory Control And Data
	Acquisition (SCADA) and Communication
	Protocols Of SCADA.
	Since SCADA and Communication Protocols are
	need to be included in professional core course
	industrial automation.
Digital Twin and Industry 5.0	All the members of the board accepted the
	syllabus without any modification.
/irtual Instrumentation	All the members of the board accepted the
	syllabus without any modification.
ndustrial Networks Protocol	Mr. P. Rilwan Fayas, ALUMNI Nominee
	suggested to include Over to Air (OTA) topic in
	syllabus. Subject expert accepted it and assured

	will include in wireless protocols unit.
Advanced Manufacturing	 Dr. M. Suresh, Academic Council Nominee suggested to include the topic maintenance and trouble shooting of CNC Machine. Subject expert accepted it.
Farm Automation	 All the members of the board accepted the syllabus without any modification.
Computer Aided Inspection and Testing	All the members of the board accepted the syllabus without any modification.

PROFESSIONAL ELECTIVE VERTICAL 3: SMART MOBILITY SYSTEMS

Name of the Course	Suggestions from BoS members
Automobile Engineering	 All the members of the board accepted the syllabus without any modification.
Electric and Hybrid Vehicles	 All the members of the board accepted the syllabus without any modification.
Automotive Mechatronics	 Mr. P. Rilwan Fayas, ALUMNI Nominee and suggested to include Multicore ECU topic in syllabus before the AUTOSAR Concepts. Subject expert accepted it.
Avionics	 Mr. P. Rilwan Fayas, ALUMNI Nominee suggested to include DO Standards topic in syllabus. Subject expert accepted it.
Drone Technologies	 HoD Dr.K.Kannan, informed this is the common course offered to Mechatronics and Mechanical Engineering Students. All the members of the board accepted the syllabus without any modification.
Design of UAV Systems	 All the members of the board accepted the syllabus without any modification.
IntelligentTransportation Systems	HoD Dr.K.Kannan, informed this is the common

course offered to Mechatronics and Civil
Engineering Students. All the members of the
board accepted the syllabus without any
modification.

MINOR DEGREE (Department Level) VERTICALS: EMBEDDED SYTEMS AND ROBOTICS

- The HoD informed that the department of Mechatronics engineering is offering minor degree in embedded systems and robotics and he also presented its verticals courses, syllabus.
- The members suggested for robotics part mechanics and dynamics and kinematics pre requisite is needed. So members asked to provide this prerequisite if circuit branch students chose this as an minor degree. Board chairman accepted it.

Name of the Course	Suggestions from BoS members
Embedded System Design for Robotics	 All the members of the board accepted the syllabus without any modification.
Arduino Programming	 All the members of the board accepted the syllabus without any modification.
Raspberrypi Programming	All the members of the board accepted the syllabus without any modification.
Industrial Robotics	All the members of the board accepted the syllabus without any modification.
Service and Field Robotics	All the members of the board accepted the syllabus without any modification.
Robot Programming Using ROS	 All the members of the board accepted the syllabus without any modification.

The HoD presented the Institutional Level minor degree offered to our mechatronics students and he also presented its verticals courses. He explained these minor degree and its verticals and syllabus were presented in the offering department BoS Meeting.

MINOR DEGREE (Institutional Level)

VERTICAL 1 : Fintech and Block Chain

Name of the Course	Suggestions from BoS members
Financial Management	▶ Nil
Fundamentals of Investment	≻ Nil
Banking, Financial Services and	> Nil
Insurance	3
Introduction to Block chain and its Applications	≻ Nil
Fintech Personal Finance and Payments	> Nil
Introduction to Fintech	> Nil

MINOR DEGREE (Institutional Level)

VERTICAL II : Entrepreneurship

Name of the Course	Suggestions from BoS members
Foundations of Entrepreneurship	> Nil
Team Building & Leadership	> Nil
Management for Business	
Creativity & Innovation in	> Nil
Entrepreneurship	
Principles of Marketing Management	> Nil
for Business	
Human Resource Management for	> Nil
Entrepreneurs	
Financing New Business Ventures	> Nil

MINOR DEGREE (Institutional Level)

VERTICAL III : Business Data Analytics

Name of the Course	Suggestions from BoS members
Statistics for Management	> Nil
Data Mining for Business Intelligence	⊁ Nil

Human Resource Analytics	•	Nil	
Marketing and Social Media Web	,	Nil	
Analytics			
Operation and Supply Chain Analytics	•	Nil	
Financial Analytics	,	Nil	
	na an a		

006.04.02 : Common courses in the verticals across other departments

The HoD informed that the Department of Mechatronics Engineering is offering common courses in the verticals across other departments. The common courses are listed below

Name of the Course	Common to	Suggestions from BoS members
Drone Technologies	MTRE & MECH	> All the members of the board accepted
	•	the syllabus without any modification.

006.04.03 : List of Open Elective courses offered

Name of the Course	Offered to	Suggestions from BoS members
Foundation of Robotics	CSE, ECE, EEE, IT,AI&DS	All the members of the board accepted the syllabus without any modification.
Introduction to PLC Programming	CSE, ECE, EEE, IT,AI&DS	 Dr.S.Supriya, Anna University Nominee asked to revise the Course outcomes statements as per blooms level. Since able to able repeated. Subject expert accepted it.
Low Cost Automation	CSE, ECE, EEE, IT.AI&DS	 In unit V the term various vibratory is genric. Need to include specifically like linear and bowl feeder. Subject expert accepted it.
Sensors and Actuators	CSE. ECE. EEE, IT,AI&DS	All the members of the board accepted the syllabus without any modification.

006.04.04 :List of NPTEL Courses (equivalence) offered for the students those who are opting for Honours / Minor degree / alternative to professional elective courses

Dr.K.Kannan, Listed out the NPTEL Course Name corresponding to its equivalent Professional elective course.

onal elective course	NPTEL COURSE	
oile Robots	d Mobile Robots	
pile I	d Mobile Robots	

006.04.05 : Tentative final year curriculum of R2021

S.NO.	• • COURSE TITLE	CATE GORY	CONTAC T PERIODS	L	T	P	С
THEOR	RY						
1	Design of Mechatronics System	PCC	3	3	0	0	3
2	Human values and Professional Ethics	HSMC	2	2	0	0	2
3	Management courses	HSMC	3	3	0	0	3
4	Open Elective – II*	OEC	3	3	0	0	3
5	Open Elective – III*	OEC	3	3	0	0	3
6	Open Elective – IV*	OEC	3	3	0	0	3
PRACT	ICAL						
7	Mini Project	EEC	3	0	0	3	1
	TOTAL	1.00	20	17	0	3	18

Semester VII 3

*Course from the curriculum of other UG Programmes.

Semester VIII

S.NO.	COURSE TITLE	CATE GORY	CONTACT PERIODS	· L	Т	P	C
PRACT	FICAL						
7	Project Work	EEC	20	0	0	20	10
	TOTAL		20	0	0	20	10

Dr.K.Kannan explained about that Management elective Course is being offered at the institutional level during semester VII.

006.05.00 :ITEMS FOR RATIFICATION

006.05.01 :Changes or corrections in the existing curriculum of R2020 and R2021

Existing	Corrections required and specify the reason		
Course Code & Name & Regulation	> Njl		

Course Code & Name & Regulation	≁ Nil
Credit Adjustment	
	 Due to the introduction of this Tamil
	Courses in Curriculum in R2021 first
	semester credits is 23 and second
	Esemester credits is 24. Members
	appreciated for including the tamil
	courses in curriculum as this courses
	provide an insight into the rich culture,
	heritage of the state and engineering
	techniques that were practices in
•	Tamilnadu. Due to that total credits is
	changed as 166 to 168.
ourse Code & Name & Regulation	> Nil

006.05.02 :NPTEL Examination results (students performance) and action taken for the students who did not receive the certificates

- The Head of the Department Dr.K.Kannan presented the Performance of our students in NPTEL Exams all the BoS members appreciated our students performance in NPTEL.
- Members suggested that the students who have failed should be given another chance to repeat the same NPTEL course again.
- Dr.K.Kannan explained the procedure followed by KCET controller of Examanition and the students having their current Semester exam & NPTEL exam on the same date, since the failed students are instructed to complete the course in the next semester and all the BoS members accepted it.

06.05.03 Value Added Courses offered if any

In BoS 005.04 the BoS members advised the three members committee to choose the Value added courses as per current trends and skills requirement for core industries. As per that the three member committee chosen and offered VAC on Internet of Things (IoT) for third year and Value Added Course on Robot Operating System (ROS) for II year. The BoS members accepted it without any concern.

The members discussed about Value Added Course to be offered in future. The members suggested to offer Value added course in the field of Machine Learning/Deep Learning, as this could fetch them job opportunities.

06.05.04 :Curriculum feedback and action taken if any

Dr.K.Kannan presented the curriculum feedback summary collected from various stakeholders which was accepted by all the BoS members.

006.06.00:Information about the (Points Discussed in the following)

Item No.	Description	Suggestions / Comments from the BoS Members
006.06.01	Anna University New Amendment	The HOD Presented the new
	(Honours / Honours in same	amendment given by Anna University to
2	discipline / Minor)	the BOS Members.
006.06.02	Pass Percentage of students	The HOD Presented the Pass percentage
		year wise and course wise. The
		members appreciated the IV Year and
		III Year Results. The members
		suggested to concentrate in II Year
		Results especially III Semester Results.
006.06.03	Value Added Courses offered/	> The HOD Presented the Value added
	Planned for the academic year:	course offered/ planned for the
	2023 - 2024	academic year and the members
		suggestions were noted in 006.05.03.
006.06.04	NBA eSAR / status and	The HOD happily shared the NBA
	information	Accreditation status of the department
		for three years from AY 2021-2022 to
		AY 2023-2024. The members
		appreciated the efforts taken towards the
	5	successful implementation of outcome
		based education.
006.06.05	Student Internship details (between	The HOD shared the statistical data of

5" and 6 th meeting)	the student internship Inplant training
	details for R2020 & R2021 and all the
	BoS Members appreciated it.
	Industrialist Member
	Dr.R.Kesavamoorthy enquired about the
	evaluation process. Dr.K.Kannan
	- briefed the evaluation process of
	Internship and credit transfer.

006.07.00 : Any other Item

- The HoD presented the Department achievements in placement, extra curricular and cocurricular activities of students. The BoS members appreciated the achievements and encouraged for higher salary package and more participations in future.
- Memebrs discussed about the provision of offering the latest amendments regarding tamil courses. Heritage of Tamils was included in 1 Sem of R2021and Tamils and Technology was included in 11 Sem of R2021 as per the request from Anna University via L.No.618/CAC/TC/2023.
- Members suggested to offer tamil courses in the upcoming semesters for the 2022-2023 admitted students.

006.08.00 : Vote of Thanks

The meeting ended with the Vote of Thanks by A.Arulkumar, Assistant Professor, Department of Mechatronics Engineering, Kamaraj College of Engineering and Technology, Virudhunagar.

BoS Coordin A.ARULKUMAR

&. X ______ 25/0=12023

BoS Chairman Dr.K.Kannan HoD/MTRE.



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Department of Mechatronics Engineering (Accredited by NBA, New Delhi) Members Present: VIth Board of Studies Meeting: Mechatronics Engineering

Date: 18/03/2023

S.No.	Expert Name	Designation & Address	Capacity	Signature
l.	Dr.K.Kannan	Professor& Head, Department of Mechatronics Engineering, Kamaraj College of Engineering and Technology-625701.	Chairperson of the Board	k. K - Tiled
2.	Dr.S.Supriya	Professor & Head, Department of Mechanical Engineering, Government College of Engineering, Tirunelveli.	Anna University Nominee	C.S. Marisin
3.	Dr. N. Sivakumaran	Professor, Department of Instrumentation and Control Engineering, National Institute of Technology, Tiruchirappalli – 620015.	Academic Council Nominee	
4.	Dr.M.Suresh	Associate Professor, Department of Robotics and Automation Engineering, PSG College of Technology, Coimbatore – 641004	Academic Council Nominee	And 18/3/23
5.	Dr.R.Kesavamoorthy,	Director, Meta Heuristic Corporate India Pvt. Ltd.FF-4, #54, 3rd Cross Vittal Nagar, ISRO Layout, Bangalore – 560078.	Industrial Expert	Alun 18/03/23
6.	Mr.P.Rilwan Fayas	Senior Engineer and Technical Lead, TATA ELXSI, Thiruvananthapuram.	Alumni	PP=++



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

02.06.2023

Minutes of Meeting

As per the current needs in industry, we need to provide the Value-added course for 2021 – 2025 Batch , III year UG candidates in 2023 – 2024 ODD semester. In connection with this, the three member committee has been constituted to scrutinize the Value-added course evaluation, meeting has been convened on 02.06.2023 (1.30 PM to 02.30 PM) at SMC Centre for Excellence Lab, Mechatronics Engineering, Kamaraj College of Engineering and Technology, Virudhunagar.

The Three-member committee has recommended the Value-added course "Advanced Industrial Automation" for 2021-2025 Batch

Members List

S.No.	Members	Category	Signature
1	Dr.K.Kannan, Prof. & Head/MTRE	Head	k. k
2	Mr.S.Wesley Moses Samdoss, AP/MTRE	UG Coordinator	
3	Mr.A.Arulkumar, AP/MTRE	VAC Incharge	Ach 12/06/2023



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DEPARTMENT OF MECHATRONICS ENGINEERING (Accredited by NBA, New Delhi) Report on "Value Added Course on Advanced Industrial Automation"

18.08.2023

Department of Mechatronics Engineering, Kamaraj College of Engineering & Technology organized 6-day Value added course on "Advanced Industrial Automation" for III year Mechatronics Engineering students from 07.08.2023 to 12.08.2023. Er.Himanshukumar from Indwell Automation, Mangalore, handled the sessions and trained our students during the entire program. The main purpose of this event is to equip our budding Mechatronics engineers with the knowledge of Industrial Automation through hands on sessions and make them industry ready. The program began with a formal welcome address by Dr.K.Kannan HoD/MTRE. The Trainer provided hands on training on PLC, HMI,SCADA, programming using Codesys software and integrate them to create custom industrial applications.

Topics Covered

- 1. Programmable Logic Controller
- 2. Human Machine Interface/Machine to Machine Interface
- 3. Supervisory Control and Data Acquisition system
- 4. Build AC Drives by PLC
- 5. Projects with Analog Signals
- 6. Interfacing Projects with PLC

At the end of the course, students presented their project and an assessment test was conducted to evaluate the performance of the individuals. A total of 30 students attended the program and get benefitted. Finally, the program ends with a feedback session followed by a formal vote of thanks.

18 08 2023

X. Kene HoD/MTRE



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DEPARTMENT OF MECHATRONICS ENGINEERING (Accredited by NBA, New Delhi)

Value Added Course on Advanced Industrial Automation (for III year Mechatronics Engineering Students)

Introduction to Automation : Role of PLC in Automation



PLC Programming & SCADA



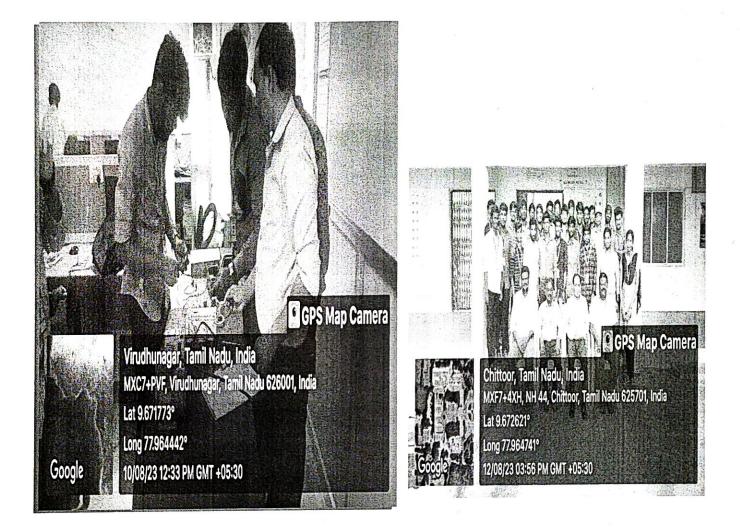
Human Machine Interface (HMI)



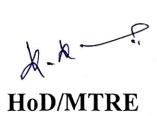
Analog Signals & AC Drive



Mini Project Demonstration & Viva Voce



A. M. 14 Justices. VAC Coordinator







Advanced Industrial Automation Training

We are pleased to place on record that

Mr. / Ms. JEGADHISH PANDIARAJ T.S has successfully completed the Advanced Industrial Automation Training in association with the Department of Mechatronics Engineering, Kamaraj College of Engineering and Technology. This Course includes Extension Training on Programmable logic Controller (PLCs), HMI, SCADA, Drive and Analog Signals.

Course Type & Duration: Value added course / 1 week (07/08/23-12/08/23)

ASSESSMENT MARKS: 96 %

Sr. No. IND0712082301

Date: 14 AUG 2023







Advanced Industrial Automation Training

We are pleased to place on record that

Mr. / Ms. ARAVINDH AARYA.G has successfully completed the Advanced Industrial Automation Training in association with the Department of Mechatronics Engineering , Kamaraj College of Engineering and Technology. This Course includes Extension Training on Programmable logic Controller (PLCs), HMI, SCADA, Drive and Analog Signals.

Course Type & Duration: Value added course / 1 week (07/08/23-12/08/23)

ASSESSMENT MARKS: 87 %

Sr. No. IND0712082302

Date: 14 AUG 2023







Advanced Industrial Automation Training

We are pleased to place on record that

Mr. / Ms. SRI RAMACHANDRAN .K has successfully completed the Advanced Industrial Automation Training in association with the Department of Mechatronics Engineering , Kamaraj College of Engineering and Technology. This Course includes Extension Training on Programmable logic Controller (PLCs), HMI, SCADA, Drive and Analog Signals.

Course Type & Duration: Value added course / 1 week (07/08/23-12/08/23)

ASSESSMENT MARKS: 74 %

Sr. No. IND0712082303

Date: 14 AUG 2023







Advanced Industrial Automation Training

We are pleased to place on record that

Mr. / Ms. PARVATHARAJAN.B has successfully completed the Advanced Industrial Automation Training in association with the Department of Mechatronics Engineering , Kamaraj College of Engineering and Technology. This Course includes Extension Training on Programmable logic Controller (PLCs), HMI, SCADA, Drive and Analog Signals.

Course Type & Duration: Value added course / 1 week (07/08/23-12/08/23)

ASSESSMENT MARKS: 94 %

Sr. No. IND0712082304

Date: 14 AUG 2023







Advanced Industrial Automation Training

We are pleased to place on record that

Mr. / Ms. GIRI.P has successfully completed the Advanced Industrial Automation Training in association with the Department of Mechatronics Engineering , Kamaraj College of Engineering and Technology. This Course includes Extension Training on Programmable logic Controller (PLCs), HMI, SCADA, Drive and Analog Signals.

Course Type & Duration: Value added course / 1 week (07/08/23-12/08/23)

ASSESSMENT MARKS: 93 %

Sr. No. IND0712082305

Date: 14 AUG 2023







Advanced Industrial Automation Training

We are pleased to place on record that

Mr. / Ms. SELVAMANI.T has successfully completed the Advanced Industrial Automation Training in association with the Department of Mechatronics Engineering , Kamaraj College of Engineering and Technology. This Course includes Extension Training on Programmable logic Controller (PLCs), HMI, SCADA, Drive and Analog Signals.

Course Type & Duration: Value added course / 1 week (07/08/23-12/08/23)

ASSESSMENT MARKS: 88 %

Sr. No. IND0712082306

Date: 14 AUG 2023







Advanced Industrial Automation Training

We are pleased to place on record that

Mr. / Ms. BHARATHI.R has successfully completed the Advanced Industrial Automation Training in association with the Department of Mechatronics Engineering , Kamaraj College of Engineering and Technology. This Course includes Extension Training on Programmable logic Controller (PLCs), HMI, SCADA, Drive and Analog Signals.

Course Type & Duration: Value added course / 1 week (07/08/23-12/08/23)

ASSESSMENT MARKS: 63 %

Sr. No. IND0712082307

Date: 14 AUG 2023







Advanced Industrial Automation Training

We are pleased to place on record that

Mr. / Ms. SURYAVIGNESH.R has successfully completed the Advanced Industrial Automation Training in association with the Department of Mechatronics Engineering , Kamaraj College of Engineering and Technology. This Course includes Extension Training on Programmable logic Controller (PLCs), HMI, SCADA, Drive and Analog Signals.

Course Type & Duration: Value added course / 1 week (07/08/23-12/08/23)

ASSESSMENT MARKS: 77 %

Sr. No. IND0712082308

Date: 14 AUG 2023







Advanced Industrial Automation Training

We are pleased to place on record that

Mr. / Ms. SAROJ KANNA has successfully completed the Advanced Industrial Automation Training in association with the Department of Mechatronics Engineering , Kamaraj College of Engineering and Technology. This Course includes Extension Training on Programmable logic Controller (PLCs), HMI, SCADA, Drive and Analog Signals.

Course Type & Duration: Value added course / 1 week (07/08/23-12/08/23)

ASSESSMENT MARKS: 95 %

Sr. No. IND0712082309

Date: 14 AUG 2023







Advanced Industrial Automation Training

We are pleased to place on record that

Mr. / Ms. MOHAMMED AMMAR.S has successfully completed the Advanced Industrial Automation Training in association with the Department of Mechatronics Engineering , Kamaraj College of Engineering and Technology. This Course includes Extension Training on Programmable logic Controller (PLCs), HMI, SCADA, Drive and Analog Signals.

Course Type & Duration: Value added course / 1 week (07/08/23-12/08/23)

ASSESSMENT MARKS: 81 %

Sr. No. IND0712082310

Date: 14 AUG 2023







Advanced Industrial Automation Training

We are pleased to place on record that

Mr. / Ms. HARIHARAN.B has successfully completed the Advanced Industrial Automation Training in association with the Department of Mechatronics Engineering, Kamaraj College of Engineering and Technology. This Course includes Extension Training on Programmable logic Controller (PLCs), HMI, SCADA, Drive and Analog Signals.

Course Type & Duration: Value added course / 1 week (07/08/23-12/08/23)

ASSESSMENT MARKS: 94 %

Sr. No. IND0712082311

Date: 14 AUG 2023







Advanced Industrial Automation Training

We are pleased to place on record that

Mr. / Ms. SUBASH CHANDRU.P has successfully completed the Advanced Industrial Automation Training in association with the Department of Mechatronics Engineering , Kamaraj College of Engineering and Technology. This Course includes Extension Training on Programmable logic Controller (PLCs), HMI, SCADA, Drive and Analog Signals.

Course Type & Duration: Value added course / 1 week (07/08/23-12/08/23)

ASSESSMENT MARKS: 94 %

Sr. No. IND0712082312

Date: 14 AUG 2023







Advanced Industrial Automation Training

We are pleased to place on record that

Mr. / Ms. ARAVINTHA KUMAR.S has successfully completed the Advanced Industrial Automation Training in association with the Department of Mechatronics Engineering , Kamaraj College of Engineering and Technology. This Course includes Extension Training on Programmable logic Controller (PLCs), HMI, SCADA, Drive and Analog Signals.

Course Type & Duration: Value added course / 1 week (07/08/23-12/08/23)

ASSESSMENT MARKS: 78 %

Sr. No. IND0712082313

Date: 14 AUG 2023







Advanced Industrial Automation Training

We are pleased to place on record that

Mr. / Ms. SIVANESAKARTHIC.RA.K has successfully completed the Advanced Industrial Automation Training in association with the Department of Mechatronics Engineering , Kamaraj College of Engineering and Technology. This Course includes Extension Training on Programmable logic Controller (PLCs), HMI, SCADA, Drive and Analog Signals.

Course Type & Duration: Value added course / 1 week (07/08/23-12/08/23)

ASSESSMENT MARKS: 86 %

Sr. No. IND0712082314

Date: 14 AUG 2023







Advanced Industrial Automation Training

We are pleased to place on record that

Mr. / Ms. SANGEETHALAKSHMI.M has successfully completed the Advanced Industrial Automation Training in association with the Department of Mechatronics Engineering, Kamaraj College of Engineering and Technology. This Course includes Extension Training on Programmable logic Controller (PLCs), HMI, SCADA, Drive and Analog Signals.

Course Type & Duration: Value added course / 1 week (07/08/23-12/08/23)

ASSESSMENT MARKS: 95 %

Sr. No. IND0712082315

Date: 14 AUG 2023







Advanced Industrial Automation Training

We are pleased to place on record that

Mr. / Ms. LAKSHMAN HARI.C has successfully completed the Advanced Industrial Automation Training in association with the Department of Mechatronics Engineering, Kamaraj College of Engineering and Technology. This Course includes Extension Training on Programmable logic Controller (PLCs), HMI, SCADA, Drive and Analog Signals.

Course Type & Duration: Value added course / 1 week (07/08/23-12/08/23)

ASSESSMENT MARKS: 80 %

Sr. No. IND0712082316

Date: 14 AUG 2023







Advanced Industrial Automation Training

We are pleased to place on record that

Mr. / Ms. MUTHU PANDLV has successfully completed the Advanced Industrial Automation Training in association with the Department of Mechatronics Engineering, Kamaraj College of Engineering and Technology. This Course includes Extension Training on Programmable logic Controller (PLCs), HMI, SCADA, Drive and Analog Signals.

Course Type & Duration: Value added course / 1 week (07/08/23-12/08/23)

ASSESSMENT MARKS: 96 %

Sr. No. IND0712082317

Date: 14 AUG 2023







Advanced Industrial Automation Training

We are pleased to place on record that

Mr. / Ms. POISOLLAN G.A has successfully completed the Advanced Industrial Automation Training in association with the Department of Mechatronics Engineering, Kamaraj College of Engineering and Technology. This Course includes Extension Training on Programmable logic Controller (PLCs), HMI, SCADA, Drive and Analog Signals.

Course Type & Duration: Value added course / 1 week (07/08/23-12/08/23)

ASSESSMENT MARKS: 95 %

Sr. No. IND0712082318

Date: 14 AUG 2023







Advanced Industrial Automation Training

We are pleased to place on record that

Mr. / Ms. KARUNA SAGAR.T has successfully completed the Advanced Industrial Automation Training in association with the Department of Mechatronics Engineering, Kamaraj College of Engineering and Technology. This Course includes Extension Training on Programmable logic Controller (PLCs), HMI, SCADA, Drive and Analog Signals.

Course Type & Duration: Value added course / 1 week (07/08/23-12/08/23)

ASSESSMENT MARKS: 66 %

Sr. No. IND0712082319

Date: 14 AUG 2023







Advanced Industrial Automation Training

We are pleased to place on record that

Mr. / Ms. ARAVIND.V has successfully completed the Advanced Industrial Automation Training in association with the Department of Mechatronics Engineering, Kamaraj College of Engineering and Technology. This Course includes Extension Training on Programmable logic Controller (PLCs), HMI, SCADA, Drive and Analog Signals.

Course Type & Duration: Value added course / 1 week (07/08/23-12/08/23)

ASSESSMENT MARKS: 91 %

Sr. No. IND0712082320

Date: 14 AUG 2023







Advanced Industrial Automation Training

We are pleased to place on record that

Mr. / Ms. ARIVISHNU.R has successfully completed the Advanced Industrial Automation Training in association with the Department of Mechatronics Engineering, Kamaraj College of Engineering and Technology. This Course includes Extension Training on Programmable logic Controller (PLCs), HMI, SCADA, Drive and Analog Signals.

Course Type & Duration: Value added course / 1 week (07/08/23-12/08/23)

ASSESSMENT MARKS: 80 %

Sr. No. IND0712082321

Date: 14 AUG 2023







Advanced Industrial Automation Training

We are pleased to place on record that

Mr. / Ms. ESAKKI BALA KARTHIK.K has successfully completed the Advanced Industrial Automation Training in association with the Department of Mechatronics Engineering, Kamaraj College of Engineering and Technology. This Course includes Extension Training on Programmable logic Controller (PLCs), HMI, SCADA, Drive and Analog Signals.

Course Type & Duration: Value added course / 1 week (07/08/23-12/08/23)

ASSESSMENT MARKS: 89 %

Sr. No. IND0712082322

Date: 14 AUG 2023







Advanced Industrial Automation Training

We are pleased to place on record that

Mr. / Ms. MITHUN KUMAR G.S has successfully completed the Advanced Industrial Automation Training in association with the Department of Mechatronics Engineering, Kamaraj College of Engineering and Technology. This Course includes Extension Training on Programmable logic Controller (PLCs), HMI, SCADA, Drive and Analog Signals.

Course Type & Duration: Value added course / 1 week (07/08/23-12/08/23)

ASSESSMENT MARKS: 97 %

Sr. No. IND0712082323

Date: 14 AUG 2023







Advanced Industrial Automation Training

We are pleased to place on record that

Mr. / Ms. ARSHAD PARWESH has successfully completed the Advanced Industrial Automation Training in association with the Department of Mechatronics Engineering, Kamaraj College of Engineering and Technology. This Course includes Extension Training on Programmable logic Controller (PLCs), HMI, SCADA, Drive and Analog Signals.

Course Type & Duration: Value added course / 1 week (07/08/23-12/08/23)

ASSESSMENT MARKS: 83 %

Sr. No. IND0712082324

Date: 14 AUG 2023







Advanced Industrial Automation Training

We are pleased to place on record that

Mr. / Ms. KISHOURE KUMAR.D has successfully completed the Advanced Industrial Automation Training in association with the Department of Mechatronics Engineering, Kamaraj College of Engineering and Technology. This Course includes Extension Training on Programmable logic Controller (PLCs), HMI, SCADA, Drive and Analog Signals.

Course Type & Duration: Value added course / 1 week (07/08/23-12/08/23)

ASSESSMENT MARKS: 98 %

Sr. No. IND0712082325

Date: 14 AUG 2023







Advanced Industrial Automation Training

We are pleased to place on record that

Mr. / Ms. SATHISH KUMAR.K has successfully completed the Advanced Industrial Automation Training in association with the Department of Mechatronics Engineering, Kamaraj College of Engineering and Technology. This Course includes Extension Training on Programmable logic Controller (PLCs), HMI, SCADA, Drive and Analog Signals.

Course Type & Duration: Value added course / 1 week (07/08/23-12/08/23)

ASSESSMENT MARKS: 92 %

Sr. No. IND0712082326

Date: 14 AUG 2023







Advanced Industrial Automation Training

We are pleased to place on record that

Mr. / Ms. GOKILAN.K.G has successfully completed the Advanced Industrial Automation Training in association with the Department of Mechatronics Engineering, Kamaraj College of Engineering and Technology. This Course includes Extension Training on Programmable logic Controller (PLCs), HMI, SCADA, Drive and Analog Signals.

Course Type & Duration: Value added course / 1 week (07/08/23-12/08/23)

ASSESSMENT MARKS: 83 %

Sr. No. IND0712082327

Date: 14 AUG 2023







Advanced Industrial Automation Training

We are pleased to place on record that

Mr. / Ms. ARUN PRATOP.K has successfully completed the Advanced Industrial Automation Training in association with the Department of Mechatronics Engineering, Kamaraj College of Engineering and Technology. This Course includes Extension Training on Programmable logic Controller (PLCs), HMI, SCADA, Drive and Analog Signals.

Course Type & Duration: Value added course / 1 week (07/08/23-12/08/23)

ASSESSMENT MARKS: 83 %

Sr. No. IND0712082328

Date: 14 AUG 2023







Advanced Industrial Automation Training

We are pleased to place on record that

Mr. / Ms. DINESH.K has successfully completed the Advanced Industrial Automation Training in association with the Department of Mechatronics Engineering, Kamaraj College of Engineering and Technology. This Course includes Extension Training on Programmable logic Controller (PLCs), HMI, SCADA, Drive and Analog Signals.

Course Type & Duration: Value added course / 1 week (07/08/23-12/08/23)

ASSESSMENT MARKS: 71 %

Sr. No. IND0712082329

Date: 14 AUG 2023





(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).

Value Added Course on Advanced Industrial Automation – External Assessment Test

Year & Dept. : III / Mechatronics Engineering

Date: 12-48-2023 Academic Year: 2023-24(ODD)

Venue: Industrial Automation Laboratory, Department of Mechatronics Engineering

Hall Invigilator: A.ARULKUMAR, AP/MTRE

Schedule

	Date of Exam	Session	Duration		- Reg. No	No. of Students
			From	То	Reg. 110	
	14-08-2023	FN	11:20 AM	12:50 PM	920421115001-920421115020 & 920421115301-920421115310	30

VAC Co-ordinator

HoD/MTRE

Assessment Test on Value Added Course on "Advanced Industrial Automation"

Date: 14-08-2023, Total Marks: 60

* Required

1

2

* This form will record your name, please fill your name.

Name of The student *

Enter Your Roll Number *

Assessment Test on Value Added Course on "Advanced Industrial Automation"

Enter Your Register Number *

Part-A (30 Questions * 1 Mark Each)

Answer all the Questions

What is the name of controller in which logic is designed by wires, electrical and electronics devices? * (1 Point)

Micro controller

) PLC

4

) Relay logic controller

) CNC

5

What is the name of controller used to control machines in today's industries? * (1 Point)

) Micro controller

) PLC

Relay logic controller

Arduino

7

Basically, the function of a PLC is to: * (1 Point)

) amplify various weak signal sources

Control a high voltage output with a low voltage input

) control the speed of motors

) make logical decisions and provide outputs

The basic difference between a PLC and relay control system is that______ * (1 Point)

) different type of input devices are used

) different types of output devices are used

) different types of output voltage levels are used

) one uses relay control logic and the other uses programmed instruction

Which is not the type of PLC input output terminals? * (1 Point)

) Triac

Contactor

) Transistor

) Relay

9

What is the product name of Mitsubishi PLC? * (1 Point)

RockwellSimatic

) Melsec

) DELTA

17.5

What is the name of software used for Mitsubishi PLC? * (1 Point)

) GX Works

) GX Developer

) Mitsubishi manager

) Simatic manager

What is the device name used to provide 24 DC in PLC wiring? * (1 Point)

RPS
 Battery
 Transformer

11

) SMPS

Which device is used to control parameters of an induction motor? * (1 Point)

) PLC

) нмі

VFD

() DAC

13

Which device is used to connect analog sensor with PLC? * (1 Point)

ADC
DAC
PLC

Arduino

The input interface module: * (1 Point)

- condition the signal received from a field device
-) allow the programmer to input the program
-) allows the CPU to input messages to a CRT screen
-) Provides inputs to motor controllers and similar field devices.

15

The output interface module connects to: * (1 Point)

) Sensing devices such as switches or push buttons.

) load device such as lamps or solenoids

- the programming device that control the machine process.
-) the tape or disc drive circuits

Which Module of the PLC connects to field devices such as Push buttons, Sensors, Limit Switches? * (1 Point)

) Input

) Power supply

) output

) Memory

17

One function of a PLC output interface module is to: * (1 Point)

accept signals from the process field devices and convert them into signals that can be used by the processor.

convert signals from the processing unit into values that can be used to control the machine or process

input signals from the programming device and convert them into signals that can be used by the CPU

) Interpret and execute the user program that controls the machine or process.

The location of the specific input or output field device is identified by the processor by means of its: * (1 Point)

) voltage rating

) current rating

) Wattage rating

) Address

19

The discrete output interface module is designed to provide: * (1 Point)

) output voltages in the 5V DC range

varying AC or DC voltages depending on the type of module selected

simple on or off switching control

) binary coded output

Which of the following memory types often referred to as read/write memory * (1 Point)

) RAM

) PROM

) EPROM

EEPROM

21

The most common form of memory used to store, back up, or transfer PLC program is: * (1 Point)

) RAM

) PROM

) EPROM

) EEPROM

The maximum number of rungs allowed in Ladder Logic Program is: * (1 Point)

) one

) Two

) Three

) limited only by the memory size

23

PLC can be _____ in plant to change the sequence of operation. * (1 Point)

) only programmed

) only reprogrammed

) programmed and reprogrammed

) able to give a set point

A limit switch is usually actuated by_----- * (1 Point)

) hand

) pressure

) contact with an object

) electromagnet

25

The PLC counter instruction is similar to the: * (1 Point)

internal relay instruction

transitional contact instruction

) relay coil and contact instruction

) timer instruction

The RES instruction: * (1 Point)

) is used to reset the counter

) is given the same reference address as the counter instruction.

) decrements the count when actuated

) both a and b

27

Normally counters are retentive. This means that if your accumulated count is up to 0300 and power to your system is lost, when power is restored the accumulated count will be: * (1 Point)

https://forms.office.com/pages/designpagev2.aspx?lang=en-US&origin=OfficeDotCom&route=Start&subpage=design&id=GdImJvzxJ0C5xSEtT... 14/27

Which of the following is not associated with a PLC Counter Instruction? * (1 Point)

) Preset Value

) Time Base

) Address

) Accumulated Value

29

What is the full form of SCADA? * (1 Point)

Supervisory Control and Document Acquisition

Supervisory Control and Data Acquisition

Supervisory Column and Data Assessment

Supervisory Column and Data Assessment

The advantage of RS-232C is * (1 Point)

- ilimited speed of communication
- high-voltage level signaling
- big-size communication adapters
- Small Distance (upto 50 feet)

31

What is stand alone data acquisition systems often called? * (1 Point)

Data Blogger
 Data Logger
 Data Reader
 Digital Blogger

What does HMI stand for? * (1 Point)

Human Machine Interface

Human Machine Interaction

) Human Machine Implementation

Human Machine Industry

33

Changing the control program while the processor is running is called * (1 Point)

) On-line programming

) Texting

) Forcing

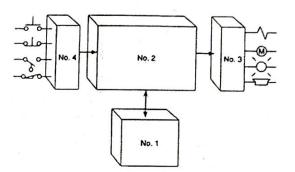
) Off-line annotation

Part-B (15 Questions * 2 Marks Each)

Answer all the Questions

34

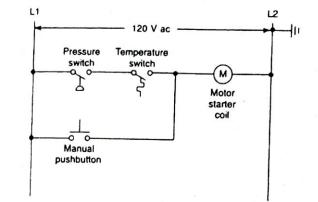
In the PLC block diagram of figure below, block no.1& 2 represents the & respectively: * (2 Points)



(a) CPU unit & Input module
 (b) Input module & CPU unit
 (c) Programming device & CPU unit

(d) Output module & Input Module

In the circuit shown in following figure to energize the starter coil: * (2 Points)



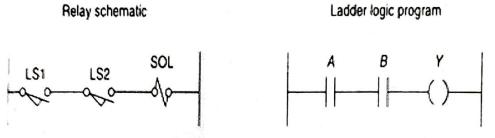
) the pressure switch, temperature switch, and manual push button must all be closed

) the pressure switch or temperature switch, or manual push button must be closed

the pressure switch and temperature switch must be closed, or manual push button must be closed

The pressure or temperature switches or the manual pushbutton and temperature switch must be closed

The relay schematic and Ladder Diagram of figure below using a Boolean Logic of : * (2 Points)



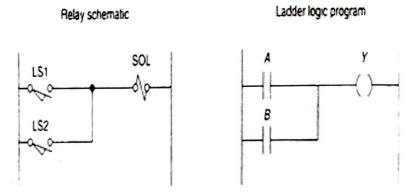
Boolean equation: AB = Y

- AND GateOR Gate
 -) XOR Gate
- NAND Gate

•

37

Program the relay schematic of figure using a PLC and check for operation: * (2 Points)



Boolean equation: A + B = Y



The scan is normally a sequential process of: * (2 Points)

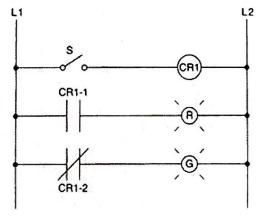
) reading the control logic ,evaluating the output, and updating the input

) writing the control logic ,evaluating the output, and updating the input

-) reading /writing the status of input and updating the outputs
- Reading the status of input, evaluating the control logic, and updating the output

39

In the relay control circuit of figure when the switch is closed: CR1 is * (2 Points)



) (a) Energized, and the red and green lights are both on

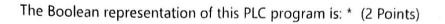
) (b) De-energized, the red light is off, and the green light is on

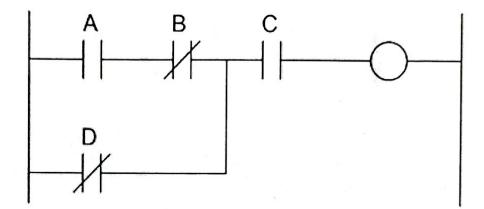
) (c) energized, the red light is on, and the green light is off

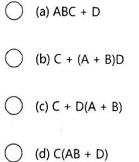
) (d) energized,the red light is off,and the green light is on

Assessment Test on Value Added Course on "Advanced Industrial Automation"

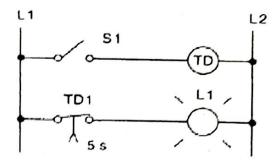
40







In the circuit shown in below figure, the light will stay on: * (2 Points)



) as long as S1 is closed

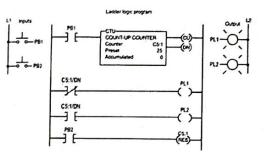
) for 5s after coil TD is energized

) for 5s after coil TD is de-energized

) both a and c

42

In this program of figure shown below, output PL2 will be energized: * (2 Points)

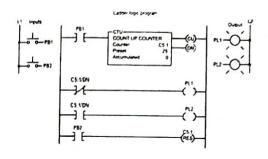


) until the accumulated the value equals the preset value

-) when the accumulated value equals the preset value
-) only when the accumulated value is less than 010

) only when the accumulated value is 999

In this program of figure shown below ,output PL1 will be energized : * (2 Points)



) until the accumulated the value equals the preset value

) when the accumulated value equals the preset value

) only when the accumulated value is less than 010

) only when the accumulated value is 999

44

For which applications SCADA is not recommenced * (2 Points)

Automatic Meter Reading (AMR) for electricity

) Automatic Meter Reading (AMR) for Water

Automatic Meter Reading (AMR) for Speed of the Vehicle

) Automatic Meter Reading (AMR) for Gas

For Substation Automation which one of the Control system you refer for achieving complete automation * (2 Points)

) Microcontroller

) Programmable Logic Controller

) Distributed Control System

SCADA System

46

The control logic in a programmable logic controller can be programmed by _____ * (2 Points)

FBD , ladder logic

Sequential logic

Structured text

All of the above

In the water level storage tank, the manual mode program controls the water level by monitoring the ______ switch input * (2 Points)

) Low sensor switch

-) High sensor switch
-) Middle Level Sensor

) Proximity Sensor

48

The DC and AC relays works on _____ principle * (2 Points)

) Motors

) Electromagnetic induction

) Electromechanical components

) Switch

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Assessment Test on Value Added Course on "Advanced Industrial Automation"

30 Responses

50.3 Average Score Active Status

1. Name of The student (0 point)

30 Responses Latest Responses "Bharathi.R" "Nilesh A " "Dinesh.k"

5 respondents (17%) answered K for this question.

SANGEETHALAKSHMI M **RSURYA VIGNESH** PARVATHARAJAN B G **CHANDRU P** BALA KARTHIK Sathishkumar k SArshad parwesh ARI VISHNUR

MOHAMMED AMMARS D Kishoure kumar JSA K GIRI P kumar Poisollan (SAravintha kumar

P

². Enter Your Roll Number (0 point)

30
Responses

Latest Responses "21umt009" "21umt022" "21umt034"

1 respondents (3%) answered 21umt017 for this question.

21UMT018 21umt027 21UMT014 21UMT007 21UMT025 21umt016 21UMT013 21UMT012 21umt012 21umt012 21umt031 21UMT026 21UMT002 21umt024 21UMT024 21UMT015

3. Enter Your Register Number (0 point)

30 Responses Latest Responses "920421115003" "920421115011" "920421115305"

1 respondents (3%) answered 920451115002 for this question.

920421115 920421115010 920411125309 920421115304 920421115015 9; 920421115310 920421115307 920451115002 920421115019 920421115001 920421115020 9204 920421115018 920421115303 920421115302 920421115009 920421115016 920421115014

4. What is the name of controller in which logic is designed by wires, electrical (1 and electronics devices?

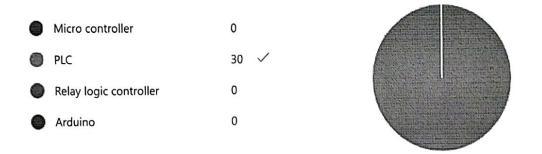
43% of respondents (13 of 30) answered this question correctly.

point)

Micro controller	0	
PLC	17	
Relay logic controller	13 🗸	
CNC	0	
CNC	0	

(1 5. What is the name of controller used to control machines in today's point) industries?

100% of respondents (30 of 30) answered this question correctly.



6. Basically, the function of a PLC is to: (1 point) 87% of respondents (26 of 30) answered this question correctly.

1

- amplify various weak signal sour... 0
- Control a high voltage output w... 3
- control the speed of motors
- make logical decisions and prov... 26 \checkmark



7. The basic difference between a PLC and relay control system is that_____

(1 point)

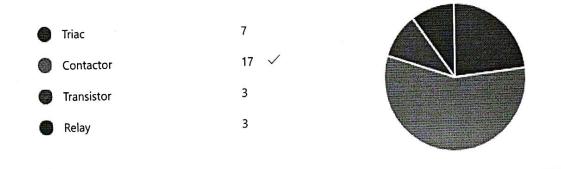
83% of respondents (25 of 30) answered this question correctly.

- different type of input devices a...
 5

 different types of output device...
 0

 different types of output voltag...
 0

 one uses relay control logic and...
 25
- Which is not the type of PLC input output terminals? (1 point)
 57% of respondents (17 of 30) answered this question correctly.

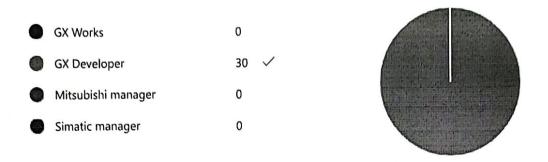


9. What is the product name of Mitsubishi PLC? (1 point) 97% of respondents (29 of 30) answered this question correctly.

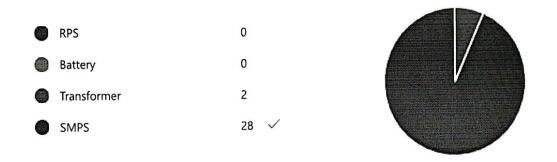




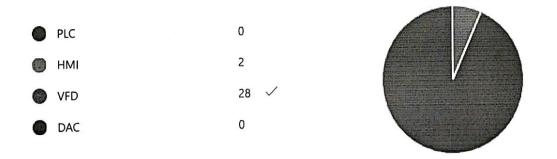
10. What is the name of software used for Mitsubishi PLC? (1 point) 100% of respondents (30 of 30) answered this question correctly.



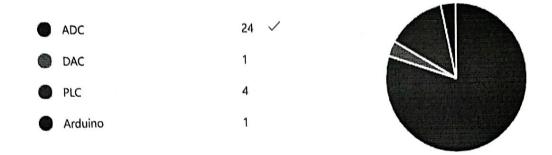
11. What is the device name used to provide 24 DC in PLC wiring? (1 point) 93% of respondents (28 of 30) answered this question correctly.



12. Which device is used to control parameters of an induction motor? (1 point) 93% of respondents (28 of 30) answered this question correctly.

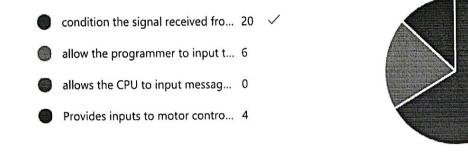


13. Which device is used to connect analog sensor with PLC? (1 point) 80% of respondents (24 of 30) answered this question correctly.

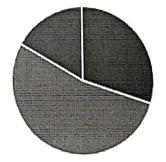


14. The input interface module: (1 point)

67% of respondents (20 of 30) answered this question correctly.



- 15. The output interface module connects to: (1 point)53% of respondents (16 of 30) answered this question correctly.
 - Sensing devices such as switche... 9
 Ioad device such as lamps or sol... 16
 the programming device that co... 5
 the tape or disc drive circuits 0



16. Which Module of the PLC connects to field devices such as Push buttons, Sensors, Limit Switches?

point)

93% of respondents (28 of 30) answered this question correctly.

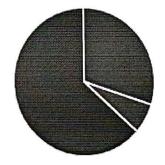
(1

28 Input \checkmark Power supply 1 output 1 0 Memory

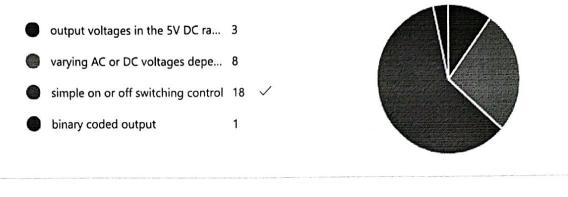
- 17. One function of a PLC output interface module is to: (1 point) 77% of respondents (23 of 30) answered this question correctly.
 - accept signals from the process ... 4 convert signals from the proces... 23 \checkmark input signals from the program... 0 Interpret and execute the user p... 3
- 18. The location of the specific input or output field device is identified by the (1 processor by means of its: point)

63% of respondents (19 of 30) answered this question correctly.



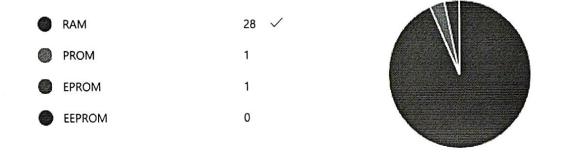


19. The discrete output interface module is designed to provide: (1 point) 60% of respondents (18 of 30) answered this question correctly.



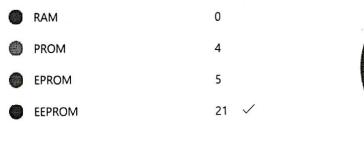
20. Which of the following memory types often referred to as read/write (1 point)

93% of respondents (28 of 30) answered this question correctly.



21. The most common form of memory used to store, back up, or transfer PLC (1 program is: point)

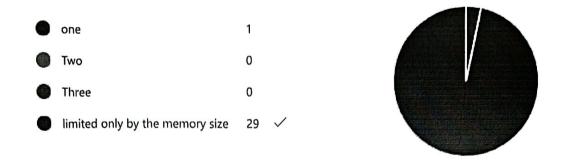
70% of respondents (21 of 30) answered this question correctly.



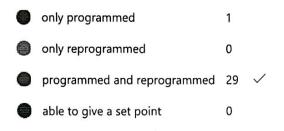


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22. The maximum number of rungs allowed in Ladder Logic Program is: (1 point) 97% of respondents (29 of 30) answered this question correctly.

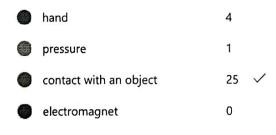


23. PLC can be _____ in plant to change the sequence of operation. (1 point) 97% of respondents (29 of 30) answered this question correctly.





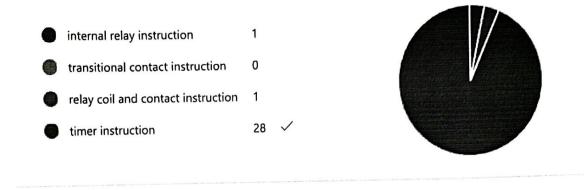
24. A limit switch is usually actuated by______ (1 point) 83% of respondents (25 of 30) answered this question correctly.





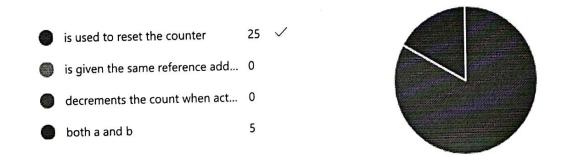
.

25. The PLC counter instruction is similar to the: (1 point) 93% of respondents (28 of 30) answered this question correctly.



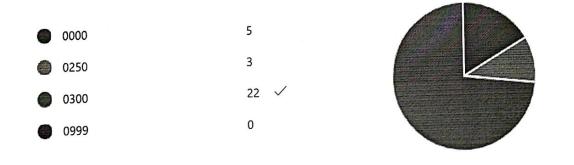
26. The RES instruction: (1 point)

83% of respondents (25 of 30) answered this question correctly.

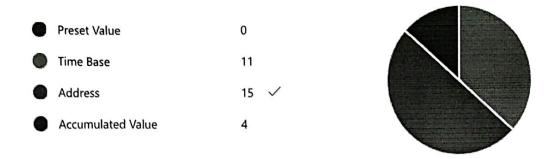


27. Normally counters are retentive. This means that if your accumulated count is (1 up to 0300 and power to your system is lost, when power is restored the point) accumulated count will be:

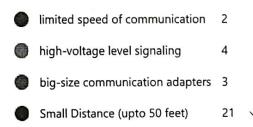
73% of respondents (22 of 30) answered this question correctly.



28. Which of the following is not associated with a PLC Counter Instruction? (1 point) 50% of respondents (15 of 30) answered this question correctly.

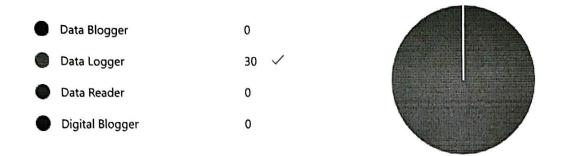


- 29. What is the full form of SCADA? (1 point) 100% of respondents (30 of 30) answered this question correctly.
 - Supervisory Control and Docum... 0
 Supervisory Control and Data A... 30
 Supervisory Column and Data A... 0
 Supervisory Column and Data A... 0
- The advantage of RS-232C is (1 point)
 70% of respondents (21 of 30) answered this question correctly.



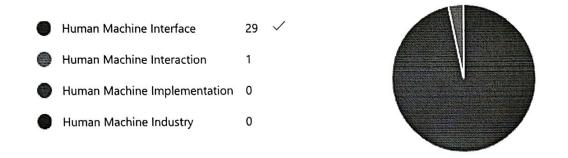


31. What is stand alone data acquisition systems often called? (1 point) 100% of respondents (30 of 30) answered this question correctly.

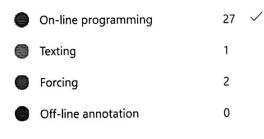


32. What does HMI stand for? (1 point)

97% of respondents (29 of 30) answered this question correctly.



33. Changing the control program while the processor is running is called (1 point) 90% of respondents (27 of 30) answered this question correctly.



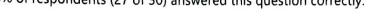


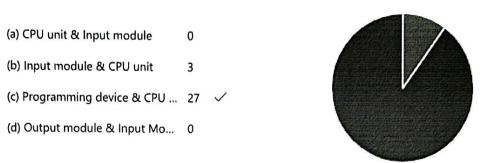
.

 \sim 34. In the PLC block diagram of figure below, block no.1& 2 represents the & (2 respectively:

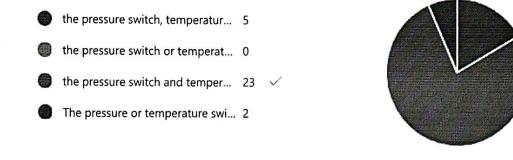
90% of respondents (27 of 30) answered this question correctly.

points)





35. In the circuit shown in following figure to energize the starter coil: (2 points) 77% of respondents (23 of 30) answered this question correctly.



36. The relay schematic and Ladder Diagram of figure below using a Boolean (2 Logic of : points)

93% of respondents (28 of 30) answered this question correctly.

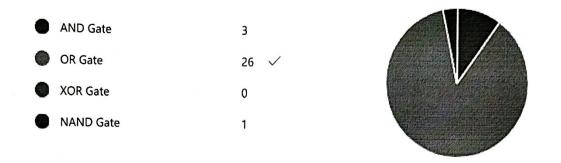




37. Program the relay schematic of figure using a PLC and check for operation:

87% of respondents (26 of 30) answered this question correctly.

(2 points)



- 38. The scan is normally a sequential process of: (2 points) 100% of respondents (30 of 30) answered this question correctly.
 - reading the control logic ,evalua... 0 writing the control logic ,evaluat ... 0 reading /writing the status of in... 0
 - Reading the status of input, eval... 30 🗸

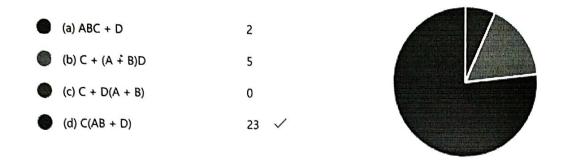


39. In the relay control circuit of figure when the switch is closed: CR1 is (2 points) 83% of respondents (25 of 30) answered this question correctly.

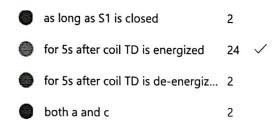
- - (a) Energized, and the red and gr... 4
 - (b) De-energized, the red light is... 1
 - (c) energized, the red light is on,... 25 \checkmark
 - (d) energized, the red light is off,... 0

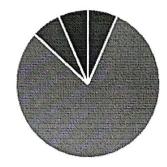


40. The Boolean representation of this PLC program is: (2 points) 77% of respondents (23 of 30) answered this question correctly.



41. In the circuit shown in below figure, the light will stay on: (2 points) 80% of respondents (24 of 30) answered this question correctly.





42. In this program of figure shown below, output PL2 will be energized: (2 points) 90% of respondents (27 of 30) answered this question correctly.



until the accumulated the value ... 2 when the accumulated value eq... 27 \checkmark

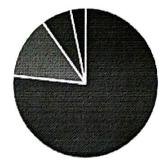
- only when the accumulated valu... 1
- only when the accumulated valu... 0



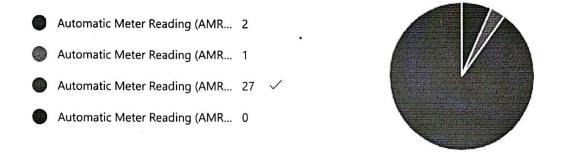
,

43. In this program of figure shown below ,output PL1 will be energized : (2 points)
 77% of respondents (23 of 30) answered this question correctly.

- In until the accumulated the value ... 23 \checkmark
- when the accumulated value eq... 4
 - only when the accumulated valu... 2
 - only when the accumulated valu... 1

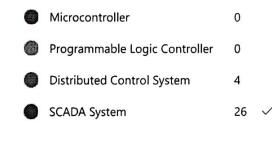


44. For which applications SCADA is not recommenced (2 points) 90% of respondents (27 of 30) answered this question correctly.

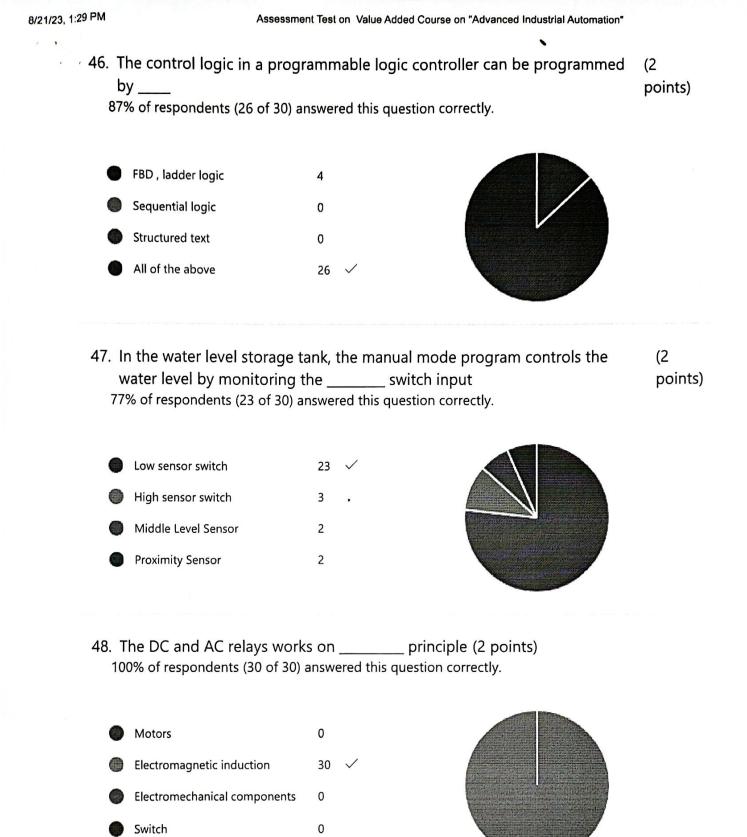


45. For Substation Automation which one of the Control system you refer for
achieving complete automation(2
points)

87% of respondents (26 of 30) answered this question correctly.







NAC - Curdinetor.

□ Send reminder to people who have not responded. Remind them 28 02:14 Active Responses Average time to complete Status 1. Name of the Student Latest Responses "Giri P " 28 "Selvamani" Responses "Nilesh A " O Update 3 respondents (12%) answered K for this question. kumar Mithun SMOHAMMED AMMAR TSJegadhish Pandiaraj Ari vishnuR CLakshman hari PSubash chandru Poisollan G К GS JSaroj Kanna G Parvatha rajan Kishourekumar D Arun pratop SArshad parwesh Sri Ramachandran BALA KARTHIK KESAKKI BALA **MUTHUPANDI V** 2. Enter Your Roll Number Latest Responses 28 "21UMT006" "21umt007" Responses "21umt022" O Update 1 respondents (4%) answered 21umt025 for this question. 21umt034 21UMT015 21UMT021 21umt033 21umt030 21umt012 21UMT003 ^{21umt023} 21UMT001 ^{21umt025} ^{21umt026} 21umt018 21umt020 21umt004 21umt009

21umt031 21UMT002 21umt020 21umt004 21umt009 21umt013 21UMT014 21umt016 3. Enter Your Register Number

Latest Responses 28 "920421115004" '920421115016' Responses 920421115011 OUpdate 1 respondents (4%) answered 920421115303 for this question. 920421115010 920421115018 920421115017 920421115003 920421115013 920421115012 920421115006 920421115304 920421115008 920421115303 920421115308 920421115019 920421115302 920421115301 9204211115014 920421115001 920421115309 920421115020 920421115305 920421115009 4. Year & Department Latest Responses "III & Mechatronics * 28 "Mtr" Responses "3year Mechatronics Engineering Department " ⊖ Update 4 respondents (15%) answered year - Mechatronics for this question. year & mechatronics III Engineering Department **3yrs year - Mechatronics** MTR MTRE 3rd year ,d year Mechatronics engineering 5. Did this session increase your team spirit? Strongly Agree 21 Agree 7 Disagree 0

6. Did this session helped in increasing your technical knowledge on Industrial Automation?

0

Strongly Agree 22
Agree 6
Disagree 0
Strongly disagree 0

Strongly disagree



8/22/23, 10:14 AM

7. Did you enjoy learning this hands on way?

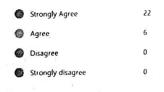
0	Strongly Agree	24	
0	Agree	4	
0	Disagree	0	and the start
0	Strongly disagree	0	

8. Did the Technical Presentations is organized in a sequential manner ?

0	Strongly Agree	20	
0	Agree	8	
۲	Disagree	0	
0	Strongly disagree	0	



9. Did the Value Added Course is Effective?





10. Were the Course Materials are useful?

0	Strongly Agree	20
0	Agree	8
0	Disagree	0
0	Strongly disagree	0



11. Whether the lab facilities are adequate ?

0	Strongly agree	17
0	Agree	10
0	Disagree	1
0	Strongly disagree	0



12. Any other points to improve the conduct of program like Value added Course in future.

	Latest Response
27	"Conduct 2 days "
Responses	"No"
	"No"
O Update	
4 respondents (15%) answered Good for this question.	

usefull for my skills Nice Good useful stack development issues in program course system software	practical exa	mppes				
Usefull for my skills Nice Good useful stack development issues in program course system software	Relevan	t software	type of course	Sir we are w	villing	traning day
issues in program course system software Increase the dura		Nico	Good	ucoful		
haluful to the second			900U	userui	stack c	levelopment
halpful to the second s	issues in program	urco	custom	coffin	Inci	rease the duration
students interests	students interests	helpf	ful a	rea		have all software

Ach VAC-Co Ordinatur.

k-k-F HoD/MIRE

View results

Respondent 1

ARSHAD PARWESH

01:54 Time to complete

1. Name of the Student *

S Arshad parwesh

2. Enter Your Roll Number *

21umt029

3. Enter Your Register Number *

920421115303

4. Year & Department *

Third year - Mechatronics engineering

- 5. Did this session increase your team spirit? *
 - Strongly Agree
 - Agree
 - Disagree
 - Strongly disagree

6. Did this session helped in increasing your technical knowledge on Industrial Automation? *

- Strongly Agree
- Agree
- Disagree
- Strongly disagree

Strongly Agree

Agree

Disagree

Strongly disagree

8. Did the Technical Presentations is organized in a sequential manner ? *

- Strongly Agree
- Agree
- Disagree

Strongly disagree

9. Did the Value Added Course is Effective? *

- Strongly Agree
- Agree
- Disagree
- Strongly disagree

10. Were the Course Materials are useful? *

- Strongly Agree
- Agree
- Disagree
- Strongly disagree

11. Whether the lab facilities are adequate ? *

- Strongly agree
- () Agree
- Disagree
- Strongly disagree

12. Any other points to improve the conduct of program like Value added Course in future. *

This type of course is useful to us

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NS VAC-COORDINETY.

View	resul	ts
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Respondent

10 ARAVINDH AARYA.G

05:38 Time to complete

1. Name of the Student *

G.AravindhAarya

2. Enter Your Roll Number *

21UMT002

3. Enter Your Register Number *

920421115001

4. Year & Department *

III MTRE

5. Did this session increase your team spirit? *

Strongly Agree

() Agree

Disagree

Strongly disagree

6. Did this session helped in increasing your technical knowledge on Industrial Automation? *

Strongly Agree

Agree

🔵 Disagree

Strongly disagree

Strongly Agree

Agree

Disagree

Strongly disagree

8. Did the Technical Presentations is organized in a sequential manner ? *

Strongly Agree

Agree

Disagree

Strongly disagree

- 9. Did the Value Added Course is Effective? *
 - Strongly Agree
 - Agree
 - Disagree
 - Strongly disagree

10. Were the Course Materials are useful? *

- Strongly Agree
- Agree
- Disagree
- Strongly disagree

11. Whether the lab facilities are adequate ? *

- Strongly agree
- Agree
- Disagree
- Strongly disagree

12. Any other points to improve the conduct of program like Value added Course in future. *

Yes it was very useful to us

VAC-UNAINENC.

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HUD/MTRE

View results

Respondent

15 POISOLLAN G.A

()2:09
Time	to complete

The state of the

1. Name of the Student *

Poisollan G A

2. Enter Your Roll Number *

21untt023

3. Enter Your Register Number *

920421115013

4. Year & Department *

III-MTR

5. Did this session increase your team spirit? *

Strongly Agree

Agree

Disagree

Strongly disagree

6. Did this session helped in increasing your technical knowledge on Industrial Automation? *

Strongly Agree

() Agree

Disagree

○ Strongly disagree

Strongly Agree

Agree

Disagree

Strongly disagree

8. Did the Technical Presentations is organized in a sequential manner ? *

Strongly Agree

Agree

Disagree

Strongly disagree

```
9. Did the Value Added Course is Effective? *
```

Strongly Agree

Agree

Disagree

Strongly disagree

10. Were the Course Materials are useful? *

Strongly Agree

- Agree
 - Disagree
 - Strongly disagree

11. Whether the lab facilities are adequate ? *

Strongly agree

Agree

Disagree

Strongly disagree

12. Any other points to improve the conduct of program like Value added Course in future. *

Increase the duration

VAC - Coordinator.

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HOD/MTRE

View results

Respondent

16 ARUN PRATOP.K

02:39 Time to complete

1. Name of the Student *

Arun pratop K

2. Enter Your Roll Number *

21umt033

3. Enter Your Register Number *

920421115304

4. Year & Department *

3 rd year mechatronics engineering

5. Did this session increase your team spirit? *

Strongly Agree

Agree

- Disagree
- Strongly disagree

6. Did this session helped in increasing your technical knowledge on Industrial Automation? *

Strongly Agree

Agree

Disagree

Strongly disagree

- Strongly Agree
 - Agree
 - Disagree
 - Strongly disagree
- 8. Did the Technical Presentations is organized in a sequential manner ? *
 - Strongly Agree
 - Agree
 - Disagree
 - Strongly disagree
- 9. Did the Value Added Course is Effective? *
 - Strongly Agree
 - Agree
- 👂 🔵 Disagree
 - Strongly disagree

10. Were the Course Materials are useful? *

- Strongly Agree
- O Agree
- Disagree
- Strongly disagree

11. Whether the lab facilities are adequate ? *

- Strongly agree
- Agree
- Disagree
- Strongly disagree

12. Any other points to improve the conduct of program like Value added Course in future. *

Usefull for my skills

VAL-COURSINATUR

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A. & -

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	Invoice No: INDKCET07120823
	Date: 21- 08- 2023
	Amount
	45000/-
	(Rupees forty-five thousand)
-	5000/- (Rupees five thousand)
	•
8 1	50000/-
	(Rupees fifty thousand only)

Bank detail: HIMANSHU KUMAR A/C No: 3073 5086 901 SBI, Basudeopur IFSC: SBIN0003601 PAN: AZUPK7424M

Managing Director Indwell Automation