KRISHNASAMY
College of
ENGINEERING & TECHNOLOGY
Approved by AICTE & Affiliated to Anna University
Anand Nagar, Nellikuppam Main Road, S. Kumarapuram, Cuddalore - 607 109, Tamil Nadu.
(04142) 285 601 - 604 www.kcet.in info@kcet.in

NAAC DVV CLARIFICATION – METRIC LEVEL

Criterion 3 - Research, Innovations and Extension

3.5.1 Number of functional MoUs / linkages with institutions / industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during the last five years

Response: 88

HEI Input:

2022-23	2021-22	2020-21	2019-20	2018-19
26	15	30	08	09

DVV Clarifications	HEI Response
Provide copies of MoUs, collaboration agreements, or related documents that show the nature of collaboration and activities, sorted by year. Also, include a list of activities carried out under each MoU, along with their start and completion dates, signed by both parties for each year.	The Number of MoUs have been already uploaded in the SSR. Further the document for the metric is given hereunder:

3.5.1. Number of functional MoUs/linkages with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during the last five years

Sl. No.	Name of the MoU / linkage	Name of the institution / industry with whom the MoU / linkage is made, with contact details	Year of signing MoU / linkage	Purpose of the MoU/Linkage (Internship, on-the-job training, project work, student / faculty exchange and collaborative research)	Duration of MoU / linkage	List the actual activities under each MOU/ Linkage and web -links year-wise	Link to the relevant document
LIST OF ACTIVITIES UNDER MoUs AY 2018-2023							
1	Tamilnadu Skills Development Corporation	IBM Developer Skills Network	2023	Linkage Project work	6 months	kcet.in/wp-content/uploads/2024/07/01-IBM.pdf	kcet.in/wp-content/uploads/2024/07/01-IBM.pdf
2	GD Builders, Pondicherry	GD Builders, Pondicherry	2023	MOU- Industrial visit	5 years	kcet.in/wp-content/uploads/2024/07/02-16.06.2023-GD-Builders.pdf	kcet.in/wp-content/uploads/2024/07/02-16.06.2023-GD-Builders.pdf
3	Data flair Web Services Pvt Ltd	Data flair Web Services Pvt Ltd., Indore, Madhya Pradesh	2023	MOU- Industrial visit	5 years	kcet.in/wp-content/uploads/2024/07/03-03.05.2023-Data-Flair.pdf	kcet.in/wp-content/uploads/2024/07/03-03.05.2023-Data-Flair.pdf
4	Veena TextChem Industries	VEENA TextChem Industries,Puducherry	2022	MOU- Industrial visit	5 years	kcet.in/wp-content/uploads/2024/07/04-12.10.2022-Veena.pdf	kcet.in/wp-content/uploads/2024/07/04-12.10.2022-Veena.pdf
5	Disposal of E-waste material, Cuddalore	Disposal of E-waste material, Cuddalore	2023	MOU- Industrial visit	5 years	05-06.02.2023-e-waste.pdf (kcet.in)	05-06.02.2023-e-waste.pdf (kcet.in)
6	Jeevan Ready Mix Concrete Plant, Cuddalore	Jeevan Ready Mix Concrete Plant, Cuddalore	2023	MOU- Industrial visit	5 years	06-19.01.2023-Jeevan-MOU.pdf (kcet.in)	06-19.01.2023-Jeevan-MOU.pdf (kcet.in)
7	SSP Engineering Services, Puducherry	SSP Engineering Services, Puducherry	2023	MOU- Industrial visit	5 years	07-27.04.2022-SSP-Engineering-services.pdf (kcet.in)	07-27.04.2022-SSP-Engineering-services.pdf (kcet.in)
8	Ohmtronixs, Pammal, Chennai	Ohmtronixs, Pammal, Chennai	2023	MOU- Industrial visit	5 years	08-28.09.2021-Ohmtronixs.pdf (kcet.in)	08-28.09.2021-Ohmtronixs.pdf (kcet.in)

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Sl. No.	Name of the MoU / linkage	Name of the institution / industry with whom the MoU / linkage is made, with contact details	Year of signing MoU / linkage	Purpose of the MoU/Linkage (Internship, on-the-job training, project work, student / faculty exchange and collaborative research)	Duration of MoU / linkage	List the actual activities under each MOU/ Linkage and web -links year-wise	Link to the relevant document
9	Hemalathaa Hi- Tech Industries, Cuddalore	Hemalathaa Hi- Tech Industries, Cuddalore	2022	MOU- Industrial visit	5 years	09-27.05.2019-Hemalatha-Hi-tech.pdf (kcet.in)	09-27.05.2019-Hemalatha-Hi-tech.pdf (kcet.in)
10	Triple Tech Soft LLP, Pondicherry	Triple Tech Soft LLP, Pondicherry	2022	MOU- Industrial visit	5 years	10-21.09.2021-Triple-Tech.pdf (kcet.in)	10-21.09.2021-Triple-Tech.pdf (kcet.in)
11	Sree Venkateswaraa Plastics, Cuddalore	Sree Venkateswaraa Plastics, Cuddalore	2022	MOU- Industrial visit	5 years	11-20.09.2021-Sree-venkateeshwara-plastics.pdf (kcet.in)	11-20.09.2021-Sree-venkateeshwara-plastics.pdf (kcet.in)
12	Wintech Global Service, Pondicheery	Wintech Global Service, Pondicheery	2022	MOU- Industrial visit	5 years	12-14.09.2021-Wintech.pdf (kcet.in)	12-14.09.2021-Wintech.pdf (kcet.in)

Sl. No.	Name of the MoU / linkage	Name of the institution / industry with whom the MoU / linkage is made, with contact details	Year of signing MoU / linkage	Purpose of the MoU/Linkage (Internship, on-the-job training, project work, student / faculty exchange and collaborative research)	Duration of MoU / linkage	List the actual activities under each MOU/ Linkage and web -links year-wise	Link to the relevant document
13	NextGen Solutions	NextGen Solutions	2022	MOU- Industrial visit	5 years	13-13.09.2021-NextGen.pdf (kcet.in)	13-13.09.2021-NextGen.pdf (kcet.in)
14	Hexcon Info Tech	Hexcon Info Tech	2022	MOU- Industrial visit	5 years	14-13.09.2021-Hexcon-infotech.pdf (kcet.in)	14-13.09.2021-Hexcon-infotech.pdf (kcet.in)
15	Majestic Builders	Majestic Builders, Cuddalore	2021	MOU- Industrial visit	5 years	15-21.04.2021-majestic-builders.pdf (kcet.in)	15-21.04.2021-majestic-builders.pdf (kcet.in)
16	Lakshmi Builders	Lakshmi Builders	2021	MOU- Industrial visit	5 years	16-15.04.2021-laxmi-builders.pdf (kcet.in)	16-15.04.2021-laxmi-builders.pdf (kcet.in)
17	Pantech E Learning, Chennai	Pantech E Learning, Chennai	2022	MOU- Industrial visit	2 years	kcet.in/wp-content/uploads/2024/07/17-30.03.2022-Pantech.pdf	kcet.in/wp-content/uploads/2024/07/17-30.03.2022-Pantech.pdf
18	SLR Energy	SLR Energy,Pethankuppam	2022	MOU- Industrial visit	5 years	18-12.06.2022-Slr.pdf (kcet.in)	18-12.06.2022-Slr.pdf (kcet.in)
19	First Logic Automation, Chennai	First Logic Automation, Chennai	2017	MOU- Industrial visit	5 years	19-06.06.17-First-Logic.pdf (kcet.in)	19-06.06.17-First-Logic.pdf (kcet.in)
20	Presto Land survey Institute	Presto Land survey Institute	2019	MOU- Industrial visit	5 years	20-10.03.2020-Presto.pdf (kcet.in)	20-10.03.2020-Presto.pdf (kcet.in)
21	Sri Manakula Vinayagar Engineering College	Sri Manakula Vinayagar Engineering College, Pondicherry	2019	MOU- Share and Mentor Institutions Scheme	3 years	21-SMVEC-MOU.pdf (kcet.in)	21-SMVEC-MOU.pdf (kcet.in)

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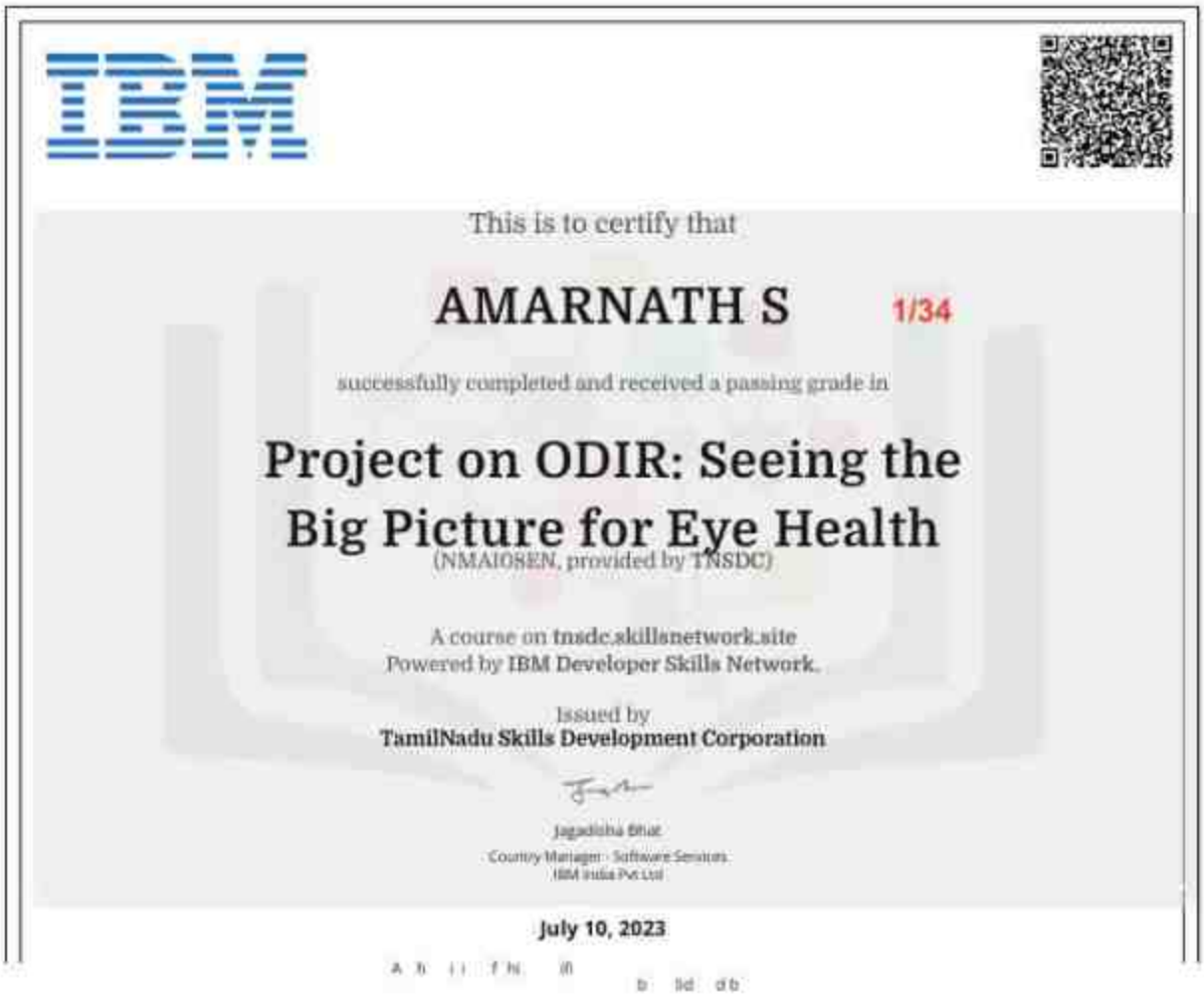
ACADEMIC YEAR (2022-2023)

1. **Students attended the course on Tamilnadu skills development corporation powered by IBM**



This is to certify that

AMARNATH S 1/34

successfully completed and received a passing grade in

Project on ODIR: Seeing the Big Picture for Eye Health

(NMAIOSEN, provided by TNSDC)

A course on tnsdc.skillsnetwork.site
Powered by IBM Developer Skills Network.

Issued by
TamilNadu Skills Development Corporation

Jagadisha Bhat
Country Manager - Software Services
IBM India Pvt Ltd

July 10, 2023

Student project certificate in collaboration with IBM

IBM

This is to certify that

BAKIYALAKSHMI R 2/34

successfully completed and received a passing grade in

Project on Sentiment Analysis of Commodity News (Gold)

(NMADS08EN, provided by TNSDC)

A course on tnsdc.skillsnetwork.site
Powered by IBM Developer Skills Network.

Issued by
TamilNadu Skills Development Corporation

Jagadisha Bhat
Country Manager - Software Services
IBM India Pvt Ltd

July 10, 2023

Authenticity of this certificate can be validated by going to

Student project Certificate in collaboration with IBM

2. Industrial Visit by Department of Civil Engineering visited GD Builders Plant at Pondicherry on 16.06.2023

Demo session for mass concreting to the students

KRISHNASAMY COLLEGE OF ENGINEERING & TECHNOLOGY
Anand Nagar S. Kumarapuram, Cuddalore - 607 109.

Department of Civil Engineering

S. No.	Reg No	Name of the Candidate		Signature
1	421320401001	ANBAZHAGAN	J	
2	421320401002	ANSAR ALI	K	
3	421320401004	DAYATHRI	M	
4	421320401006	NIHAS AHAMED	J	
5	421320401007	PRAKASHA	D	
6	421320401008	RAGUL	J	
7	421320401501	JAYASHRIYA	M	
8	421320401502	ROJAN	V	
9	421320401503	SANTHOSH	K	
10	421320401504	SANTHOSH KUMAR	S	
11	421320401505	SYED MOHAN	S	
12	421320401506	YASAR ARAFATH	D	
13	421321101001	ABDULHAKKIM	A	
14	421321101002	ASHWANTH	KS	
15	421321101004	BALAJI	D	
16	421321101005	BENITTO	A	
17	421321101006	BHARATHIRAJAN	D	
18	421321101007	DHANARAJ	M	
19	421321101009	GOPIKA	E	
20	421321101010	KANMANI	K	
21	421321101011	KIRUTHIVASAN	G	
22	421321101012	LAVANYA	G	
23	421321101013	MALAVIKA	A	
24	421321101014	NITHISHKUMAR	D	
25	421321101015	NIVIYA	S	
26	421321101016	BALAJI KANNAN	D	
27	421321101017	SANTHIRASWARI	S	
28	421321101018	SUSMITHA	V	
29	421321101020	VARUN	V	
30	421321101021	VENKATESH	B	
31	421321101022	VENKATESH	P	

Students attendance

3. **Students undergone training program at Data Flair Web Series Pvt. Ltd**

Students training certificate

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4. Industrial Visit by Department of Electrical and Electronics Engineering students at Veena Texchem Industries Kurumbapet, Puducherry, on 19.05.2023

Students photo

KRISHNASAMY COLLEGE OF ENGINEERING & TECHNOLOGY
Anand Nagar, S.Kumarapuram Cuddalore 607109

Branch Code / Name : 105 - Electrical and Electronics Engineering
Year / Sem : IV / VII

Sl.No.	Reg. No.	NAME OF THE STUDENT		STUDENT SIGNATURE
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Sl.No.	Reg. No	NAME OF THE STUDENT		STUDENT SIGNATURE
32	412320105024	VISHVA	V	
33	412320105301	AKASH	A	
34	412320105302	ANANDHARAJ	R	
35	412320105303	ARJUN	S	
36	412320105304	BALAJI	K	
37	412320105305	BALAJI	R	
38	412320105307	HARISH	R	
39	412320105308	HEMASHREE	U	
40	412320105309	JOSHVA RUSKIN	J	
41	412320105310	MOHAMED FAHEEM	H	
42	412320105312	PRAKASH	S	
43	412320105313	SAI SARAVANARANI	SS	
44	412320105314	SANJAI	S	
45	412320105315	SARAN	S	
46	412320105316	SUNILKUMAR	K	
47	412320105317	SURYA	K	

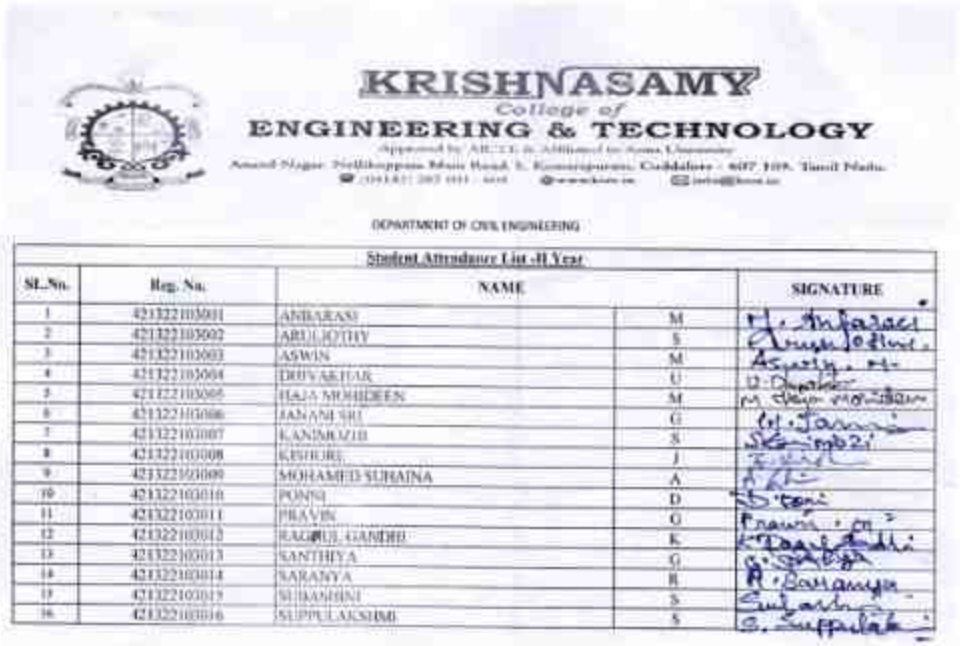
Students attendance

5. Disposal of E-Waste Material at Cuddalore, MoU signed on 06.02.2023

Students handed over the E- waste

6. Industrial Visit by Department of Civil Engineering visited Jeevan Ready Mix Concrete Plant at Cuddalore on 28.01.2023

Students Photo



KRISHNASAMY
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DEPARTMENT OF CIVIL ENGINEERING

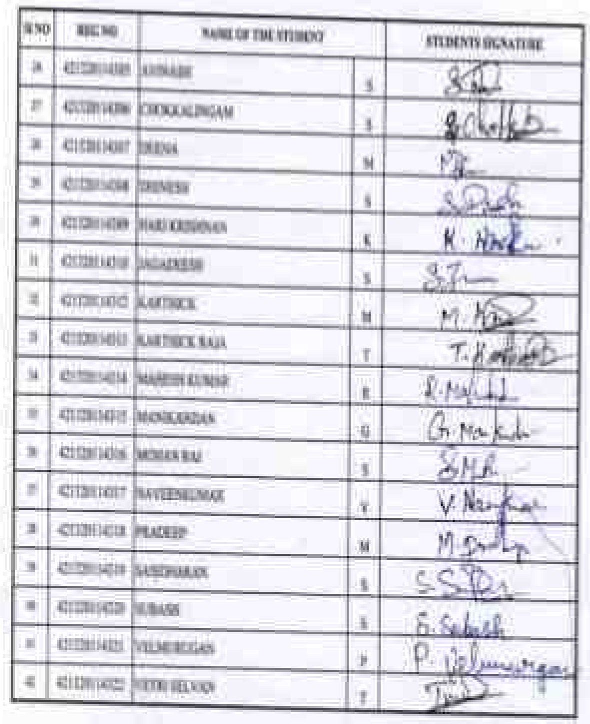
Student Attendance List -II Year

Sl.No.	Reg. No.	NAME		SIGNATURE
1	421322103001	ANBARASU	M	
2	421322103002	ARULJOTHY	S	
3	421322103003	ASWIN	M	
4	421322103004	DHIVAKHAR	U	
5	421322103005	HAJA MOHIDEEN	M	
6	421322103006	JAGANMURI	G	
7	421322103007	KANIMUTHU	S	
8	421322103008	KISHORE	J	
9	421322103009	MOHAMED SUHAINA	A	
10	421322103010	PONNI	D	
11	421322103011	PRAVIN	G	
12	421322103012	RAGHUL GANDHI	K	
13	421322103013	SANTHIYA	G	
14	421322103014	SARANYA	R	
15	421322103015	SUBASHINI	S	
16	421322103016	SUPPULAKSHMI	S	

Students attendance

7. **Industrial Visit by Department of Mechanical Engineering students at SSP Engineering services Pondicherry, on 18.01.2022**

Students photo



Students attendance

8. Industrial Visit by Department of Electronics and Communication Engineering students at Ohmtronixs, Pammal, Chennai, on 27.05.2022

Interaction session with industrial professional

KRISHNASAMY
COLLEGE OF ENGINEERING AND TECHNOLOGY
Anand Nagar, S. Kumarapuram, Cuddalore - 607 109.
Department of Electronics and Communication Engineering

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Students attendance

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9. **Industrial Visit by Department of Mechanical Engineering students at Hemalathaa Hi-Tech Industries, Cuddalore, on 29.04.2022**

Demonstration by the industrial professional

KRISHNASAMY
College of
ENGINEERING & TECHNOLOGY
DEPARTMENT OF MECHANICAL ENGINEERING

Sl. No.	Reg. No.	Student Name		Signature
1	[illegible]	AAGASH	[illegible]	
2	[illegible]	ARUN PRAKASH	[illegible]	
3	[illegible]	DINESH	[illegible]	
4	[illegible]	DINESH	[illegible]	
5	[illegible]	DINESH RAJ	[illegible]	
6	[illegible]	GANESH	[illegible]	
7	[illegible]	GOKULESHWAR	[illegible]	
8	[illegible]	HEMACHANDRAN	[illegible]	
9	[illegible]	JAYAPRAKASH	[illegible]	
10	[illegible]	JOTHI PRAKASH	[illegible]	
11	[illegible]	KABILAN	[illegible]	
12	[illegible]	KISHOREKUMAR	[illegible]	
13	[illegible]	KIRESH KUMAR	[illegible]	
14	[illegible]	LOGESWARAN	[illegible]	
15	[illegible]	MADHAVAN	[illegible]	
16	[illegible]	MOHAMED ISREH	[illegible]	
17	[illegible]	MOHAMMED MARWAN	[illegible]	
18	[illegible]	MOHAN RAJ	[illegible]	
19	[illegible]	NANDAKUMAR	[illegible]	
20	[illegible]	NISHANTH	[illegible]	
21	[illegible]	RABIN	[illegible]	
22	[illegible]	RAJESH KUMAR	[illegible]	
23	[illegible]	RAJ KUMAR	[illegible]	
24	[illegible]	RAMKISHORE	[illegible]	
25	[illegible]	RAVICHANDRAN	[illegible]	
26	[illegible]	SATHISH KUMAR	[illegible]	

27	421317114036	SIVA	R	
28	421317114037	SRINIVASARAO	M	
29	421317114038	VARATHARAJAN	K	
30	421317114039	VIKRAM	V	
31	421317114041	VIVEKANANDAN	M	
32	421317114301	ABISHEIK	A	
33	421317114302	ABI SHASACHIN	J	
34	421317114304	MOHAMED LATHEEF	L	
35	421317114305	NAWASSHAREEF	H	
36	421317114306	SANTHANA BARATHI	U	
37	421317114307	SIVABALAMURUGAN	V	
38	421317114308	THIRUNAVUKARASU	V	
39	421317114701	MOHAMMED NOORUDEEN	N	
40	421317114702	THAMBIDURAI	D	
41	421317114703	MOHAMMED ALI RIFFAIS	B	

Students attendance

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10. Industrial visit by Department of Computer Science and Engineering students at Triple Tech Soft LLP, Pondicherry on 08.04.2022

Conversation with technical expert

KRISHNASAMY
College of
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STUDENTS ATTENDANCE LIST

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

YEAR / SEM : II / IV

S. NO	REG NO	NAME OF THE STUDENT	SIGNATURE
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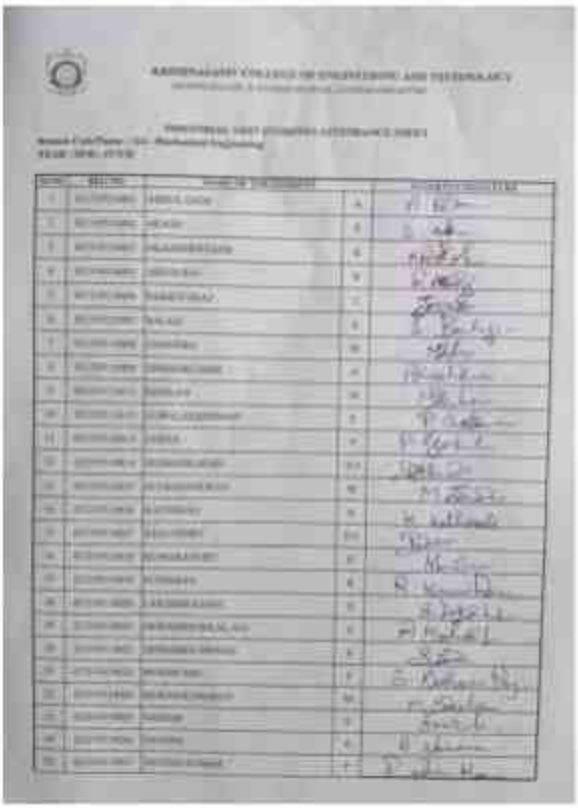
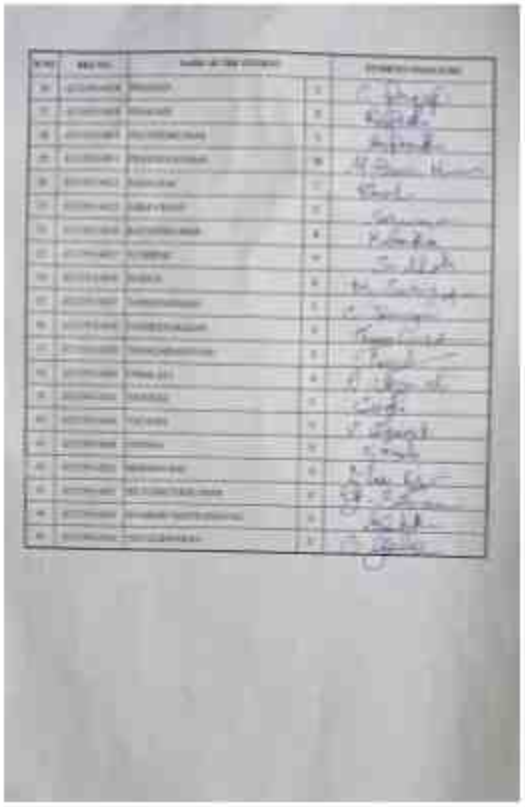
Students attendance

11. Industrial Visit by Department of Mechanical Engineering students at Sri Venkateshwara Plastics Pvt. Ltd., Puducherry, on 23.03.2022.

Students photo

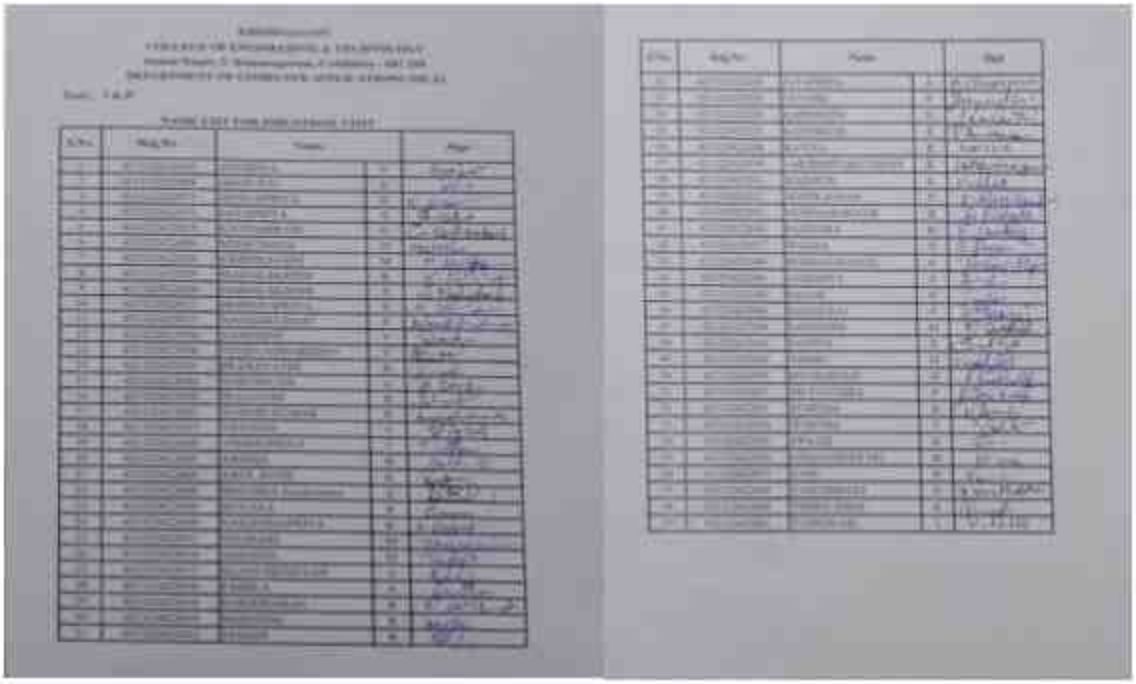




Students attendance

12. Industrial Visit by Department of Master of Computer Applications students at Wintech Global Service, Pondicherry, on 17.03.2022

Students Photo



Students attendance

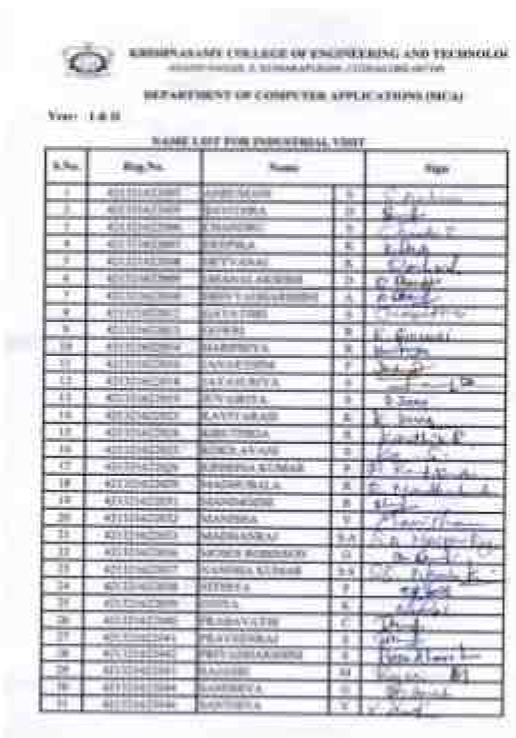
13. Industrial visit by Department of Electronics and Communication Engineering visited NextGen solutions, Puducherry on 08.03.2022

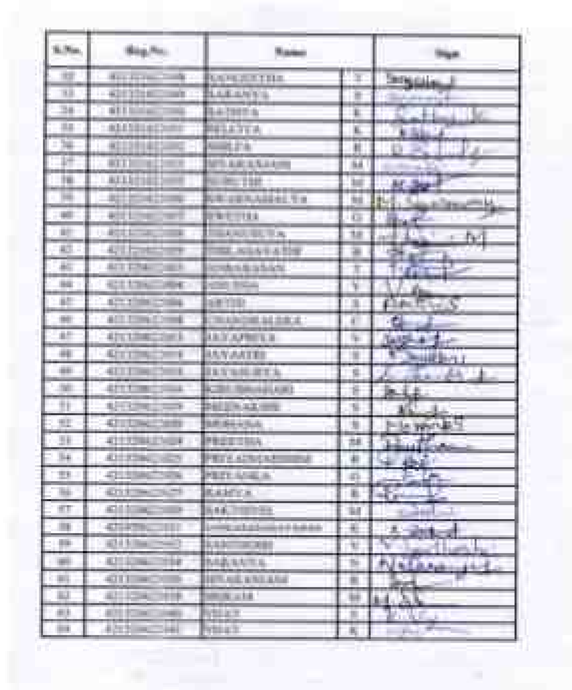
Demonstration session by the industrial professional with students

Students attendance

14. **Industrial Visit by Department of Master of Computer Applications students at Hexcon Info Technologies, Chennai, on 24.02.2022**

Students photo





Students attendance

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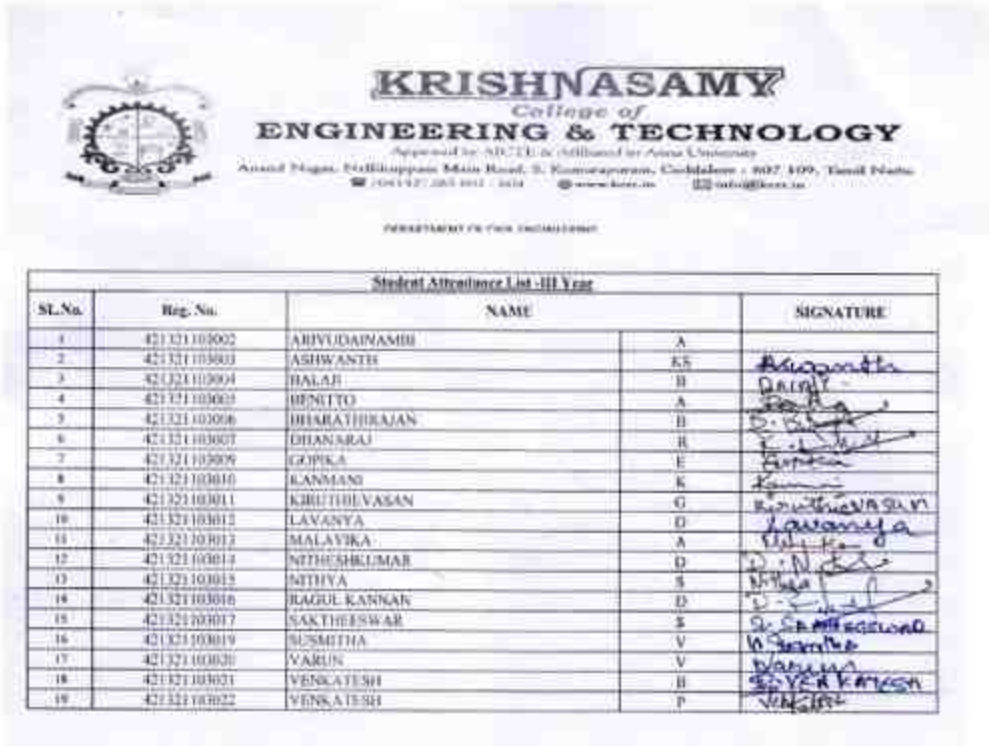
15. Industrial Visit by Department of Civil Engineering visited Majestic Builders at Cuddalore on 03.09.2021

Students photo



KRISHNASAMY
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ENGINEERING & TECHNOLOGY

Student Attendance List -III Year

SL.No.	Reg. No.	NAME		SIGNATURE
1	421321103002	ABIYUDAINAMBI	A	
2	421321103003	ASHWANTH	KS	
3	421321103004	BALAJI	B	
4	421321103005	BENETTO	A	
5	421321103006	BHARATHIRAJAN	B	
6	421321103007	DHANARAJ	R	
7	421321103009	GOPIKA	E	
8	421321103010	KANMANI	K	
9	421321103011	KIRUTHIEVASAN	G	
10	421321103012	LAVANYA	D	
11	421321103013	MALAVIKA	A	
12	421321103014	NITHESHKUMAR	D	
13	421321103015	NITHYA	S	
14	421321103016	RAGUL KANNAN	D	
15	421321103017	SAKTHEESWAR	S	
16	421321103019	SUSMITHA	V	
17	421321103020	VARUN	V	
18	421321103021	VENKATESH	B	
19	421321103022	VENKATESH	P	

Students attendance

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Anand Nagar, Nellikuppam Main Road, S. Kumarapuram, Cuddalore - 607 109, Tamil Nadu.
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16. Industrial Visit by Department of Civil Engineering visited Laxmi Builders at Cuddalore on 22.07.2022

Students photo

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DEPARTMENT OF CIVIL ENGINEERING

Student Attendance List -IV Year

Sl.No.	Reg. No.	NAME		SIGNATURE
1	421320103001	ANBARASAN	J	
2	421320103002	ANSAR ALI	K	
3	421320103004	GAYATHRI	M	
4	421320103006	NIFAS AHAMED	J	
5	421320103007	PRASANNA	B	
6	421320103008	RAGUL	T	
7	421320103301	JAYASURYA	M	
8	421320103302	JEGAN	V	
9	421320103303	SANTHOSH	K	
10	421320103304	SANTHOSH KUMAR	S	
11	421320103305	SYED SOHAIL	S	
12	421320103306	YASAR ARAFATH	B	

Students attendance

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17. Industrial visit by Department of Computer Science and Engineering students at Pantech E Learning, Chennai on 15.09.2022

Group discussion with professionals

KRISHNASAMY
College of
ENGINEERING & TECHNOLOGY

STUDENTS ATTENDANCE LIST

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

YEAR / SEM : II / IV

S. NO	REG NO	NAME OF THE STUDENT	SIGNATURE
1	421320104001	AARTHI S	
2	421320104002	AFREENA A	
3	421320104003	ARULDOSS N	
4	421320104004	ASHIKA BISSAM M	
5	421320104005	BALAJI T	
6	421320104006	HARINI S	
7	421320104007	RAVITHRA V	
8	421320104008	DHINESH KUMAR S	
9	421320104009	DURGALAKSHMI V	
10	421320104010	GOWTHAMARAJ V	
11	421320104011	HARSHA SURESH K	
12	421320104012	HARIHAR B	
13	421320104013	JEEVITHA G	
14	421320104014	KAMALAMOHANDOSS	
15	421320104015	KEERTHIGA M	
16	421320104016	KEERTHIGA S	
17	421320104017	KUBALARASAN IR	
18	421320104018	MANI BHARATHI M	
19	421320104019	MONIKA MARY E	
20	421320104020	MUTHUKUMAR RK	
21	421320104021	NAVEEN N	
22	421320104022	NITHYA K	
23	421320104023	NITHYASRIVA V	
24	421320104024	PAVITHRA K	
25	421320104025	PAVITHRA S	
26	421320104026	PRAGATHEESWARAN I	
27	421320104027	PUGALENTHI S	
28	421320104028	PURUSHOTHAMAN A	
29	421320104029	RAMAKRISHNAN M	

Students attendance

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18. Industrial Visit by Department of Electrical and Electronics Engineering students at SLR Energy, Kuzhandaikuppam, Pethankuppam, on 18.07.2022.

Students photo

KRISHNASAMY
COLLEGE OF ENGINEERING AND TECHNOLOGY
ANAND NAGAR, S. KUMARAPURAM, CUDDALORE - 607 109

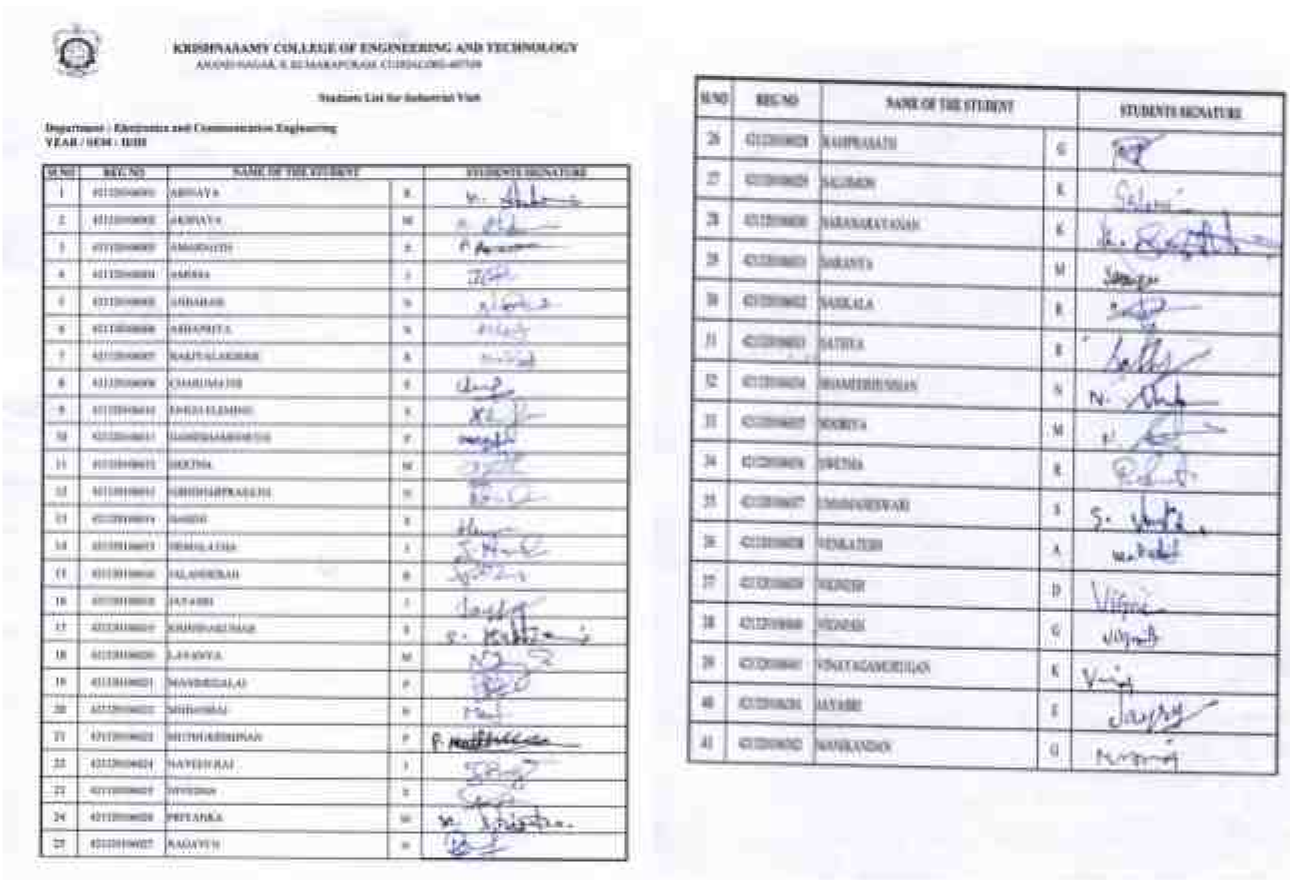
Department of Electrical and Electronics Engineering
ATTENDANCE SHEET

S. No.	Reg. No.	Name of the Students		Students Signature
1	421318105001	ABINAYA	T	T. Abinaya
2	421318105003	ATHAVAN	B	B. Athavan
3	421318105004	DHANAVELAN	D	D. Dhanavelan
4	421318105005	DHANISH BABU	D	D. Dhanish Babu
5	421318105006	DHISHYA	R	R. Dhishya
6	421318105007	DIVYA	V	V. Divya
7	421318105008	HARIHARAN	S	S. Hariharan
8	421318105009	KALAIVANAN	A	A. Kalaivanan
9	421318105010	KARTHIK	S	S. Karthik
10	421318105011	LOKESHVARAR	S	S. Lokeshvarar
11	421318105012	MEGANATHAN	D	D. Meganathan
12	421318105013	PRADEEP	V	V. Pradeep
13	421318105014	PRATHPIKUMAR	S	S. Prathpikumar
14	421318105015	PREETHI	R	R. Preethi
15	421318105016	PRIYADHARASHINI	S	S. Priyadharashini
16	421318105017	RAJAKUMARAN	A	A. Rajakumaran
17	421318105301	GOKULNATH	K	K. Gokulnath
18	421318105302	MUNICHSELVAM	S	S. Munichselvam
19	421318105303	RAJASEKARAN	R	R. Rajasekaran

Students attendance

19. Industrial visit by Department of Electronics and Communication to First Logic Automation, Chennai on 16.10.2021

Demonstration session by the industrial professional



Students attendance

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20. Industrial visit by Department of Civil Engineering to Presto land survey, Salem on 15.11.2021

Students photo

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DEPARTMENT OF CIVIL ENGINEERING

Student Attendance List -IV Year

Sl.No.	Reg. No.	NAME		SIGNATURE
1	421320103001	ANBARASAN	J	
2	421320103002	ANSAR ALI	K	
3	421320103004	GAYATHRI	M	
4	421320103006	NIFAS AHAMED	J	
5	421320103007	PRASANNA	B	
6	421320103008	RAGUL	T	
7	421320103301	JAYASURYA	M	
8	421320103302	JEGAN	V	
9	421320103303	SANTHOSH	K	
10	421320103304	SANTHOSH KUMAR	S	
11	421320103305	SYED SOHAIL	S	
12	421320103306	YASAR ARAFATH	B	

Students attendance

21. Faculty participated in Share and mentor institutes under AICTE- Margdarshan Scheme at Sri Manakula Vinayagar Engineering College from 9th to 13th December 2019

SRI MANAKULA VINAYAGAR ENGINEERING COLLEGE

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

CERTIFICATE OF PARTICIPATION

This is to certify that Dr.S.Siva Sakthi, Associate Professor, Krishnasamy College Of Engineering And Technology has participated in "NBA in Higher Education Institutions- A Mandate" under AICTE - Margdarshan Scheme (Share and Mentor Institutes) from 9th to 13th December 2019.

Dr.V.S.K. VENKATACHALAPATHY, Director cum Principal

Shri. S. V. SUGUMARAN, Vice Chairman

Shri. M. DHANASEKARAN, Chairman and Managing Director

SRI MANAKULA VINAYAGAR ENGINEERING COLLEGE

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

CERTIFICATE OF PARTICIPATION

This is to certify that Mr.S.Barath, Assistant Professor, Krishnasamy College Of Engineering And Technology has participated in "NBA in Higher Education Institutions- A Mandate" under AICTE - Margdarshan Scheme (Share and Mentor Institutes) from 9th to 13th December 2019.

Dr.V.S.K. VENKATACHALAPATHY, Director cum Principal

Shri. S. V. SUGUMARAN, Vice Chairman

Shri. M. DHANASEKARAN, Chairman and Managing Director

Faculty participation certificate

Inauguration of

All India Council for Technical Education (AICTE)

Ministry of Human Resource and Development (MHRD), Government of India

Sponsored

Share and Mentor Institutions Scheme

MARGDARSHAN

9th December 2016 at 9.30 am in the College Auditorium

Mentor Institution

SRI MANAKULA VINAYAGAR ENGINEERING COLLEGE

Accredited by NAAC with "A" grade and NBA-AICTE

Madagadipet, Puducherry - 605 107

Certificate of Award

Chief Guest

Prof. **DILEEP N. MALKHEDE**

Adviser -I, AICTE, RFID Bureau, New Delhi

In the Presence of

Shri. **M. DHANASEKARAN**

Chairman and Managing Director,

Sri Manakula Vinayagar Educational Trust

Presented to Mentee Institution

KRISHNASAMY COLLEGE OF ENGINEERING AND TECHNOLOGY

Cuddalore - 607109, Tamil Nadu

Dr.**V.S.K. VENKATACHALAPATHY**
Director cum Principal

Shri. **M. DHANASEKARAN**
Chairman and Managing Director, SMVEC

Certificate of award from mentor institution

3.5.1. Number of functional MoUs/linkages with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during the last five years

Sl. No.	Name of the MoU / linkage	Name of the institution / industry with whom the MoU / linkage is made, with contact details	Year of signing MoU / linkage	Purpose of the MoU/Linkage (Internship, on-the-job training, project work, student / faculty exchange and collaborative research)	Duration of MoU / linkage	List the actual activities under each MOU/ Linkage and web -links year-wise	Link to the relevant document
LIST OF ACTIVITIES UNDER COLLABORATIONS AY 2018-2023							
22	Publications (An Improved BAS MPPT Algorithm in DC-DC converter for grid connected SPVS with PQ enhancement)	Annamalai university and IFET college of Engineering	2023	Collaborative Research	6 months	https://doi.org/10.1007/s12046-023-02155-7	https://doi.org/10.1007/s12046-023-02155-7
23	Publications (A performance assessment of nine-stage ternary DC source mli through various PWM topologies)	Sastra University and VSB Engineering College	2023	Collaborative Research	6 months	https://doi.org/10.1080/00207217.2023.2192967	https://doi.org/10.1080/00207217.2023.2192967
24	Publications (Tetra Optimization Based Hybrid Parameters for OFDM modulated Wireless Sensor Network)	MOP Vaishnav College and RMK Engineering College	2023	Collaborative Research	8 months	https://doi.org/10.1080/03772063.2023.2225471	https://doi.org/10.1080/03772063.2023.2225471
25	Publications (Propitious Application of Prosopis juliflora Seeds As a Potent Drug)	St.Joseph College of Arts and Science	2022	Collaborative Research	5 months	https://doi.org/10.1007/978-981-16-4921-9_78-1	https://doi.org/10.1007/978-981-16-4921-9_78-1
26	Publications (ANFIS based double integral sliding mode control for a grid-integrated hybrid power system)	SBM College of Engineering and Technology and Sethu Institute of Technology	2022	Collaborative Research	5 months	https://doi.org/10.1016/j.ijleo.2022.170013	https://doi.org/10.1016/j.ijleo.2022.170013
27	Publications (Profit Maximization of Generation Companies Considering Renewable Energy Integration and Unit Forced Outage Rates)	Govt. Collge of Engineering Salem and Annamalai University	2022	Collaborative Research	6 months	http://www.iteejournal.org/v11no5oct22_pdf2.pdf	http://www.iteejournal.org/v11no5oct22_pdf2.pdf
28	Publications (Evaluation of hybrid controllers for space vector modulation-inverter driven permanent magnet synchronous motor-pump assembly)	Agni College of Technology and Sri Krishna College of Technology	2022	Collaborative Research	5 months	https://doi.org/10.1016/j.isatra.2021.09.001	https://doi.org/10.1016/j.isatra.2021.09.001
29	Publications (An AI Assisted Multi-objective Cloud Computing Model for Optimized Task Scheduling and Enhanced QoS)	Pondicherry University	2022	Collaborative Research	7 months	https://doi.org/10.53730/ijhs.v6nS5.9548	https://doi.org/10.53730/ijhs.v6nS5.9548
30	Publications (Performance Evaluation of Improved ANOVA-tuned MPPT Controlled DC-DC Boost Converter for SPV System)	Sri Venkateswara College of Engineering and Technology	2022	Collaborative Research	8 months	https://doi.org/10.1080/00207217.2022.2068668	https://doi.org/10.1080/00207217.2022.2068668

Sl. No.	Name of the MoU / linkage	Name of the institution / industry with whom the MoU / linkage is made, with contact details	Year of signing MoU / linkage	Purpose of the MoU/Linkage (Internship, on-the-job training, project work, student / faculty exchange and collaborative research)	Duration of MoU / linkage	List the actual activities under each MOU/ Linkage and web -links year-wise	Link to the relevant document
31	Publications (Fuzzy tuned real and reactive power regulation in GC-VSI for PV systems)	United Institute of Technology and Sri Venkateswara College of Engineering and Technology	2022	Collaborative Research	7 months	https://doi.org/10.1080/00207217.2022.2042858	https://doi.org/10.1080/00207217.2022.2042858
32	Publications (Pattern Recognition of Modulation Signal Classification Using Deep Neural Networks)	KPR Institute of Engineering and Technology and Saranathan College of Engineering and Technology	2022	Collaborative Research	8 months	https://doi.org/10.32604/csse.2022.024239	https://doi.org/10.32604/csse.2022.024239
33	Publications (An Efficient Hybrid Converter for DC-Based Renewable Energy Nanogrid Systems)	Agni College of Technology and Sri Sivasubramaniya Nadar College of Engineering	2022	Collaborative Research	9 months	https://journal.iem.pub.ro/rrst-ee/article/view/38	https://journal.iem.pub.ro/rrst-ee/article/view/38
34	Publications (Secure Data Sharing with Confidentiality, Integrity and Access Control in Cloud Environment)	SRM Institute of Science and Technology and K.S.R College of Engineering	2022	Collaborative Research	9 months	https://doi.org/10.32604/csse.2022.019622	https://doi.org/10.32604/csse.2022.019622
35	Publications (An Extensive Study on Online, Offline and Hybrid MPPT Algorithms for Photovoltaic Systems)	Annamalai University and IFET College of Engineering	2021	Collaborative Research	6 months	https://doi.org/10.52547/mjee.15.3.1	https://doi.org/10.52547/mjee.15.3.1
36	Publications (Design of optimized compressed sensing routing protocol for wireless multimedia sensor networks)	Sri Venkateswara College of Engineering and Technology and Saveetha School of Engineering	2021	Collaborative Research	7 months	https://doi.org/10.1002/dac.4887	https://doi.org/10.1002/dac.4887
37	Publications (Noble Metal Ion Embedded Nanocomposite Glass Materials for Optical Functionality of UV.Visible SurfacePlasmon Resonance (SPR) Surface.Enhanced Raman Scattering (SERS) X-ray and Electron	Biju Patnaik U niversity of Technology and Arignar Anna Govt.Arts College	2021	Collaborative Research	9 months	https://doi.org/10.1007/s11468-021-01413-w	https://doi.org/10.1007/s11468-021-01413-w
38	Publications (Implementation of Double Loop Controller Tuned Super Lift Luo Converter and Unipolar Inverter for Solar Fed Grid Application)	United Institute of Technology and Sri Venkateswara College of Engineering and Technology	2021	Collaborative Research	8 months	https://www.ijrer.org/ijrer/index.php/ijrer	https://www.ijrer.org/ijrer/index.php/ijrer
39	Publications (Certain investigations of ANFIS assisted CPHO algorithm tuned MPPT controller for PV arrays under partial shading conditions)	United Institute of Technology and Agni College of Technology	2021	Collaborative Research	7 months	https://doi.org/10.1007/s12652-020-02738-w	https://doi.org/10.1007/s12652-020-02738-w
40	Publications (An optimized deep neural network based DoS attack detection in wireless video sensor network)	Sri Venkateswara College of Engineering and Technology and BIT Campus Anna University, Tiruchirappalli	2021	Collaborative Research	6 months	https://doi.org/10.1007/s12652-020-02763-9	https://doi.org/10.1007/s12652-020-02763-9
41	Publications (Green Cloud Computing: An Extensive Survey in Selecting Multi-Objective for Task Scheduling in Sustaining Energy Efficiency)	Pondicherry University	2020	Collaborative Research	6 months	http://www.igenng.com/archives-2.php	http://www.igenng.com/archives-2.php

Sl. No.	Name of the MoU / linkage	Name of the institution / industry with whom the MoU / linkage is made, with contact details	Year of signing MoU / linkage	Purpose of the MoU/Linkage (Internship, on-the-job training, project work, student / faculty exchange and collaborative research)	Duration of MoU / linkage	List the actual activities under each MOU/ Linkage and web -links year-wise	Link to the relevant document
42	Publications (Experimental Studies on Strength and Durability of Sustainable Concrete Using Bottom Ash by Replacement of Fine Aggregate)	SRM Valliammai Engineering College	2020	Collaborative Research	5 months	https://doi.org/10.1155/2021/2909033	https://doi.org/10.1155/2021/2909033
43	Publications (High Performance Glass Fibre Reinforced Concrete)	Agni College of Technology and Dr.M.G.R Education and Research Institute	2020	Collaborative Research	5 months	https://doi.org/10.1016/j.matpr.2020.06.174	https://doi.org/10.1016/j.matpr.2020.06.174
44	Publication (Green Composite Form of Eco - Friendly Concrete by Adding PVA Fiber)	Aarupadai Institute of Technology and Saveetha School of Engineering	2020	Collaborative Research	6 months	International Journal of Advanced Science and Technology (sersc.org)	International Journal of Advanced Science and Technology (sersc.org)
45	Publication (Experimental Investigation On Partial Replacement Of Coarse Aggregate with Shredded Rubber For Concrete)	Aarupadai Veedu Institute of Technology	2020	Collaborative Research	5 months	International Journal of Advanced Science and Technology (sersc.org)	International Journal of Advanced Science and Technology (sersc.org)
46	Publication (A Sociocultural Study on Solar Photovoltaic Energy System In India: Stratification and Policy Implication)	Anna University Guindy Campus and Vellore Institute of Technology, Chennai Campus	2019	Collaborative Research	8 months	https://doi.org/10.1016/j.jclepro.2018.12.225	https://doi.org/10.1016/j.jclepro.2018.12.225
47	Publication (Enhanced approach using trust based decision making for secured wireless streaming video sensor networks)	Sri Venkateswara College of Engineering	2019	Collaborative Research	8 months	https://doi.org/10.1007/s11042-019-7585-5	https://doi.org/10.1007/s11042-019-7585-5
48	Publication (A Conjoint Edifice for QOS and QOE through Video transmission at Wireless Multimedia Sensor Networks)	Sri Venkateswara College of Engineering and Anna University Chennai	2019	Collaborative Research	9 months	https://link.springer.com/chapter/10.1007/978-3-030-38040-3_48	https://link.springer.com/chapter/10.1007/978-3-030-38040-3_48
49	Publication (Factors influencing the performance and productivity of solar stills- A review)	Interface Research Colabration with Pondicherry Engineering College	2018	Collaborative Research	9 months	https://doi.org/10.1016/j.desal.2017.09.031	https://doi.org/10.1016/j.desal.2017.09.031
50	Publication (Cost Effective Solitary Stage Single Phase Inverter for Solar PV Integration in to Grid)	PSG Institute of Technology and Applied Research	2018	Collaborative Research	8 months	https://www.ijrer.org/ijrer/index.php/ijrer	https://www.ijrer.org/ijrer/index.php/ijrer
51	Publication (Parameter Improved Particle Swarm Optimization based Direct-Current Vector Control Strategy for Solar PV System)	KPR Institute of Engineering and Technology	2018	Collaborative Research	7 months	https://aece.ro/index.php	https://aece.ro/index.php

22. Research Publication in collaboration with other institutions

Sadhana (2023) 48:126
https://doi.org/10.1007/s12046-023-02155-7

An improved BAS MPPT algorithm in DC–DC converter for grid connected SPVS with PQ enhancement

MEGANATHAN PADMANABAN[1,2,*], SASI CHINNATHAMBI[3], PUGAZHENDIRAN PARTHASARATHY[4] and NAMMALVAR PACHAIVANNAN[5]

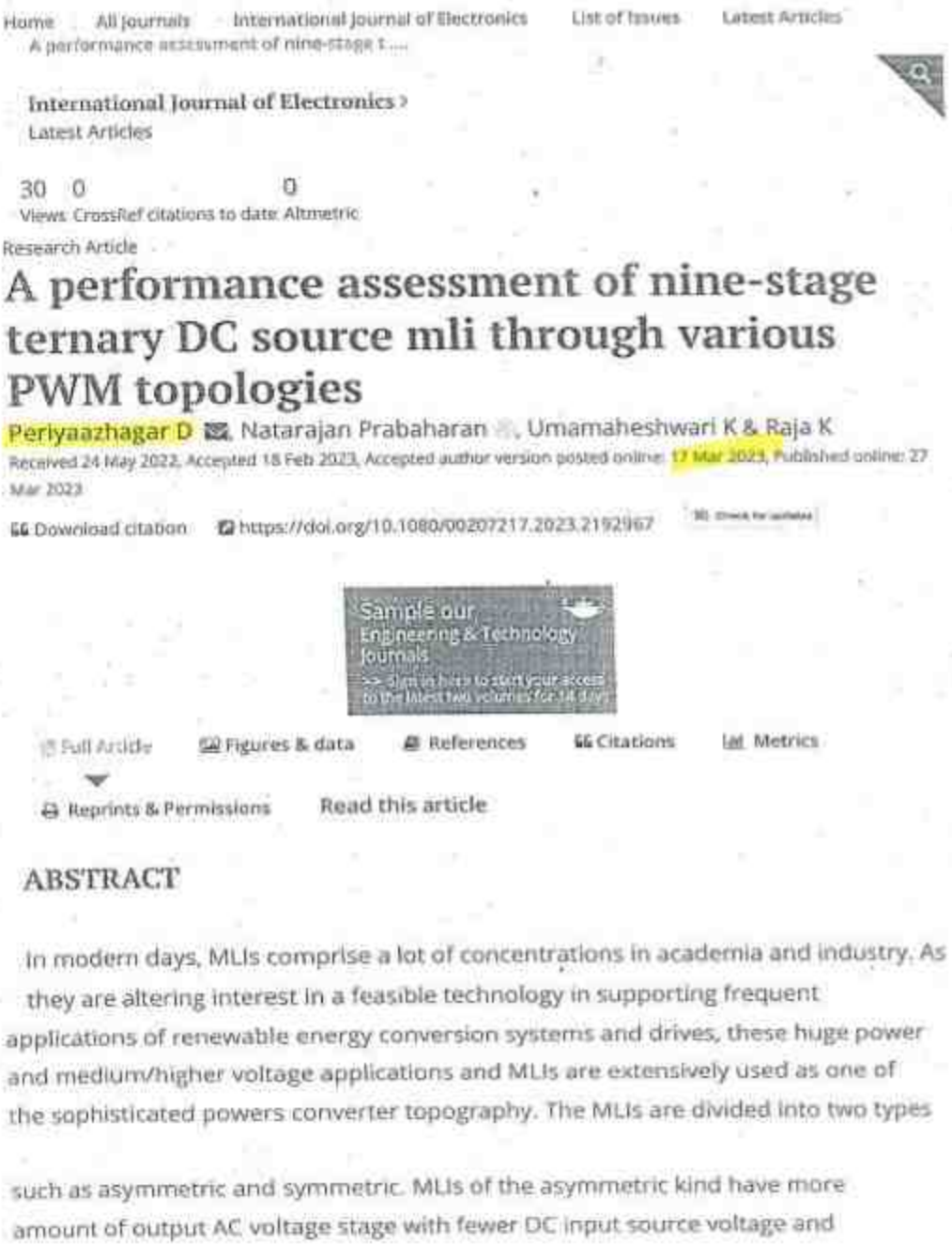
[1]Department of Electrical Engineering and Research scholar, Annamalai University, Chidambaram, Tamil Nadu, India
[2]Department of Electrical and Electronics Engineering, Sri Venkateshwaraa College of Engineering and Technology, Ariyur, Puducherry, India
[3]Department of Electrical, FEAT, Annamalai University, Chidamboram, Tamil Nadu, India
[4]Department of Electrical and Electronics Engineering, IFET College of Engineering, Villuporam, Tamil Nadu, India
[5]Department of Electrical and Electronics Engineering, Krishnasamy College of Engineering and Technology, Cuddalore, Tamil Nadu, India
e-mail: megaisagem@gmail.com

MS received 16 July 2022; revised 3 February 2023; accepted 23 March 2023

Abstract. In this paper, an improved Beetle Antenna Search (BAS) algorithm is developed for Maximal Power Point Tracking (MPPT) in a double-stage three-phase solar grid-integrated system. The behavior of the beetle foraging approach yields maximal power from photovoltaic string with the sustained duty cycle through an optimal BAS MPPT controller. The BAS algorithm succeeds in the purpose of achieving the optimum duty cycle of the DC–DC boost converter for the Solar Photovoltaic System. The intended controller is achieved in step and ramp varying irradiation environment at the specified temperature. The outcome of BAS MPPT has maximal power and better tracking speed with less fluctuation than the P&O controller. Also, the BAS algorithm affords the effortless function of load stabilizing and harmonics decrement in grid performance. The proposed controller has better improvement than the conventional algorithm by reducing training data time, decreasing the sample size, and retaining the selected permissive data. Simulation illustrations prove the quick response time, and acceptable behavior in step and ramp irradiation conditions. Further, an illustration shows the ability to enhance the stability of power in the grid with reduced oscillation and distortion factors. The harmonic distortion of voltage and current is obtained within the control limit of universal standards. The simulated results are validated in MATLAB/Simulink environments.

Interface Research Collaboration with Annamalai university and IFET college of Engineering

23. Research Publication in collaboration with other institutions



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Research Article

A performance assessment of nine-stage ternary DC source mli through various PWM topologies

Periyaazhagar D, Natarajan Prabaharan, Umamaheshwari K & Raja K

Received 24 May 2022, Accepted 18 Feb 2023, Accepted author version posted online: 17 Mar 2023, Published online: 27 Mar 2023

Download citation https://doi.org/10.1080/00207217.2023.2192967

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ABSTRACT

In modern days, MLIs comprise a lot of concentrations in academia and industry. As they are altering interest in a feasible technology in supporting frequent applications of renewable energy conversion systems and drives, these huge power and medium/higher voltage applications and MLIs are extensively used as one of the sophisticated powers converter topography. The MLIs are divided into two types such as asymmetric and symmetric. MLIs of the asymmetric kind have more amount of output AC voltage stage with fewer DC input source voltage and

Interface Research Collaboration with Sastra University and VSB Engineering College

24. Research Publication in collaboration with other institutions

IETE JOURNAL OF RESEARCH
https://doi.org/10.1080/03772063.2023.2225471

Check for updates

Tetra Optimization Based Hybrid Parameters for OFDM Modulated Wireless Sensor Network

K. B. Priya Iyer[1], S. Ramesh[2], J. Sathiamoorthy[3] and A. Ahilan[4]

[1]Department of Information Technology, M.O.P. Vaishnav College for Women (Autonomous), Chennai, Tamil Nadu 600034, India; [2]Department of Computer Science Engineering, Krishnasamy College of Engineering and Technology, Cuddalore, Tamil Nadu 607109, India; [3]Department of Computer science and Design, RMK Engineering College (Autonomous), Thiruvallur, Tamil Nadu 601206, India; [4]Department of Electronics and Communication, PSN College of Engineering and Technology, Tirunelveli, Tamil Nadu 627152, India

ABSTRACT

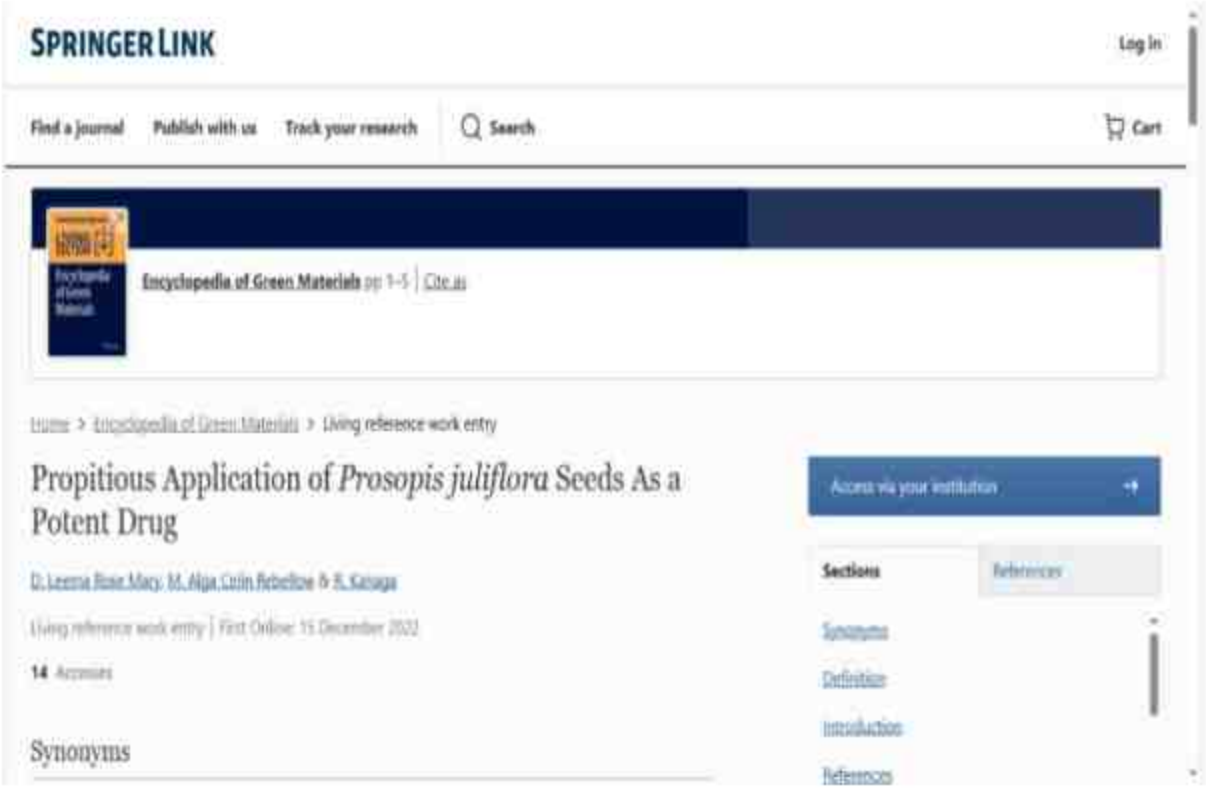
Orthogonal frequency-division multiplexing (OFDM) is an information transfer technique in which a single data flow is divided between several closely spaced narrowband subchannel frequency range rather than a single Wideband channel frequency. The information is sent to the relay node there is a delay and some data is lost in the relay node is the major issue in the existing system. To overcome these challenges, The objective of this study is to minimize the overall energy consumption and to maximize the network lifetime. In this paper, a novel Five Input Hybrid Optimization Relay Node Selection and Energy Efficient Routing (FIHORNSEER) technique has been proposed for choosing the best relay based on noises. Ant Lion Optimization (ALO) is initially utilized to select the relay node's elite position. Secondly, the Crow Search Optimization (CSO) Algorithm is used for the maintenance of position and memory of each relay. Finally, the Memetic Algorithm (MA) was generated by integrating the Ant Lion and Crow search optimization algorithm for the best relay node selection. The proposed framework is compared with previous techniques like FRNSEER, LMMSE, and HABO-OFDM Methods in terms of performance analysis, such as average utility, Energy Consumption, and Network Life Time. The result shows that the proposed FIHORNSEER improves the energy consumption better than 22.01%, 16.4%, and 12.2% FRNSEER, LMMSE, and HABO-OFDM respectively.

KEYWORDS

Ant lion optimization; crow search optimization; memetic algorithm and relay; orthogonal frequency division multiplexing

Interface Research Collaboration with MOP Vaishnav College and RMK Engineering College

25. Research Publication in collaboration with other institutions



Introduction

The entire world whose land is covered by water is rich in plants with great medicinal value. Nowadays, the use of herbal products has gained momentum due to its immense health benefits. In ancient period, medicinal plants were used to cure ailments and also included as supplements in diet. Plants synthesize the primary and secondary metabolites, which are highly bioactive and are used in medicinal field as drugs for various clinical conditions. The secondary metabolites, namely, flavonoids, terpenoids, polyphenols, tannins, saponins, alkaloids, etc., are found to exist in varied composition in each species and thereby render the specific biological importance to medicinal plants. According to a statistical study by the World Health Organization, usage of medicinal...

Interface Research Collaboration with St.Joseph College of Arts and Science

26. Research Publication in collaboration with other institutions

Optik
Volume 270, November 2022, 170013

ANFIS based double integral sliding mode control for a grid-integrated hybrid power system

I. Barsana Banu [a], Jeyashanthi [b], M. Muthuramalingam [c], P. Nammalvar [d]

https://doi.org/10.1016/j.ijleo.2022.170013

Abstract

Hybrid Power System (HPS), an promising power generation strategy, has gained much popularity in recent years, thanks to its fundamental mechanism that taps the abundantly-available renewable energy sources. HPS comprises of a photovoltaic (PV) panel, a Battery Storage System (BSS) and a Solid Oxide Fuel Cell (SOFC). Here, PV is the chief power source whereas SOFC and BSS are used as backup generators to supply the required power in case when PV energy is deficient. All these sources, with distinct DC-DC converters, are integrated parallel to a same DC bus. A 3-phase Voltage Source Inverter (VSI) is used in this setup to convert DC voltage into AC. Different modes of operations have been demonstrated with conventional Sliding Mode Controller (SMC). The proposed Double Integral Sliding Mode Controller (DI-SMC)-trained Adaptive Neural Fuzzy Inference System (ANFIS) is utilized to enhance the performance and anti-interference ability of the hybrid system. Further, the HPS is also verified and validated in terms of achieving the preferred power supervision between DG sources, grid, and the load. Both modeling and control strategies of the hybrid scheme were simulated in MATLAB/Simulink. The aim of the proposed management scheme is to supply maximum-quality power to the grid under varying loading conditions and solar irradiance with FC state under consideration. Further, the management algorithm was also implemented to stabilize DC bus voltage under load variations.

Interface Research Collaboration with SBM College of Engineering and Technology and Sethu Institute of Technology

27. Research Publication in collaboration with other institutions

Volume 11, Issue 5
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ITEE Journal
Information Technology & Electrical Engineering

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Profit Maximization of Generation Companies Considering Renewable Energy Integration and Unit Forced Outage Rates

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ABSTRACT

Recently, the power system operational planning has been renovated because of the restructuring of the electric power sector. In competitive markets, individual generation companies (GENCOs) determine independent unit commitment (UC) schedules based on forecasted load demand and price. Here, GENCOs develop UC strategies based on the cost characteristics of their generators and revenues from spot price projection in order to maximise profit. This redefined UC is termed "profit-based unit commitment" (PBUC). Unlike convectional UC, PBUC aims to maximise profit rather than minimise costs. We are turning to renewable energy sources as a result of growing environmental concerns. Recently, wind energy has grown in popularity. Here, the traditional producing units are combined with a wind energy farm to reduce the hazardous gas emissions from the fossil generating units. Additionally, the PBUC formulation of the wind-integrated thermal power system takes reliability issues into account. The GENCOs must have a reliable tool to perform PBUC on real-world power systems. This study proposes a novel bio-inspired method called Grey Wolf Optimization (GWO) to address the profit-based scheduling problem. The realistic 10 thermal generating units confirm the GWO model's effectiveness. The simulation results demonstrate the ability of the intended method to produce cost-effective resolutions with high solution quality.

Keywords: *Generation scheduling, grey wolf optimization, profit based unit commitment, reliability analysis, wind power generation*

Interface Research Collaboration with Govt. Collge of Engineering Salem and Annamalai University

28. Research Publication in collaboration with other institutions

ISA Transactions
Volume 128, Part A, September 2022, Pages 635-649

Practice article

Evaluation of hybrid controllers for space vector modulation-inverter driven permanent magnet synchronous motor-pump assembly

Mahalakshmi Ganapathee [a], Srinivasan Alavandar [b], Padmanathan Kasinathan [a], U. Sowmmiya [c], Vigna K. Ramachandaramurthy [d], Nammalvar Pachaiyannan [e]

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https://doi.org/10.1016/j.isatra.2021.09.001

Abstract

Many controllers are available in the market for controlling the Permanent Magnet Synchronous Motor (PMSM) drive application, though the most preferably used one is Proportional Integral (PI), controller. However, it is found that the PI and other latest controllers have their own merits and demerits while analyzing their outputs via comparison. Thus it is decided to test the deed of hybrid controllers that can serve a lot better than standalone controllers for precise control applications. In this article, a conventional PI controller has been applied in closed-loop system in combination with recent controllers like Proportional Resonant Controller (PRC), Fractional order Proportional Integral Derivative (FOPID), Hysteresis Current Controller (HCC) and Fuzzy Logic Controller (FLC). The resultant hybrid controllers were (i) PI-FOPID (ii) PI-FLC (iii) FOPID-FLC (iv) HCC-FLC and (v) PRC-FLC. All these hybrid controllers are designed using MATLAB platform and the speed and torque responses are compared to allocate the better performance award to the hybrid controllers. The continuous and intermittent loads are considered while registering time-domain response of PMSM-Pump application. With the aid of time-domain response and THD, the topology to be tested in prototype is chosen and tested for resemblance of the speed response with the simulation output. PI-FLC hybrid controller tends to render optimum performance characteristics among all the other hybrid controllers and the same is validated in real time through hardware results.

Interface Research Collaboration with Agni College of Technology and Sri Krishna College of Technology

29. Research Publication in collaboration with other institutions

How to Cite:
Vijayalakshmi, R., Jayakumar, S. K. V., & Sathya, M. (2022). An AI assisted multi-objective cloud computing model for optimized task scheduling and enhanced QOS. *International Journal of Health Sciences*, 6(S5), 4244–4263. https://doi.org/10.53730/ijhs.v6nS5.9548

An AI assisted multi-objective cloud computing model for optimized task scheduling and enhanced QOS

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***Abstract*---**In recent decades, cloud computing has gained popularity due to the extensive collection of autonomous systems with a flexible framework and diversified features. Various communities require a cloud computing paradigm to maximize their revenue due to its commercial reality. Scheduling of resources to the cloud consumers dramatically influences the cost-benefit of the service providers. Several kinds of research have already been made, focusing on task scheduling and resource utilization. Job shop scheduling is one of the strong NP-hard problem for the production of optimal scheduling strategies. Evolutionary algorithms such as genetic algorithm and tabu search have been emerged to perform optimal job scheduling in cloud computing environments, but that are confined to perform a single objective. Hence to meet the multiple objectives in cloud computing platforms, we proposed a novel artificial intelligence-based task scheduling strategy to facilitate minimum makespan, energy efficiency, reduced computational cost, and reliability. The proposed modified sheep flock heredity algorithm (MSFHA) facilitates the optimal task scheduling strategy by selecting the job schedules with the Longest job to the High-speed processor (LJHP), Smallest job to the High-speed processor (SJHP), and high-affinity values. The best-fit jobs having minimum makespan and highest robust factor are cloned and further replaced with new incoming jobs. Furthermore, to enrich

Interface Research Collaboration with Pondicherry University

30. Research Publication in collaboration with other institutions

International Journal of Electronics
Volume 110, 2023 - Issue 7

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Research Articles

Performance evaluation of improved ANOVA-tuned MPPT controlled DC–DC boost converter for SPV system

Meganathan Padmanaban, Sasi Chinnathambi, Pugazhendiran Parthasarathy & Nammalvar Pachaiyannan

Cite this article | https://doi.org/10.1080/00207217.2022.2068668

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ABSTRACT

This article visualises the growth of harvesting solar energy by a solar photovoltaic (SPV) system and techniques for tracking the maximal power point. An active maximal power point tracking controller is put forward to harvest the solar power named an improved analysis of variance (ANOVA)-tuned algorithm. In this configuration of the SPV system, maximal power yield is obtained from the multi photovoltaic (PV) string through the DC–DC boost converter. To obtain the maximal power from the PV string, the optimal duty cycle has to be maintained in a DC–DC boost converter. To achieve a sustained duty cycle, an improved ANOVA-tuned maximum power point tracking (MPPT) controller is proposed as an optimal controller. The performance of the proposed controller was compared with that of a conventional perturb and observe controller for steady-state and dynamic conditions. The result of the proposed MPPT scheme has maximal power and obviously a better tracking path. The simulation is carried out in the MATLAB/Simulink environment, and the experimental result shows the benefits of the proposed MPPT techniques. The supremacies of the proposed controller are a preferable tracking response, less training data time, effective steady state and dynamic performances.

KEYWORDS: photovoltaic | MPPT | Analysis of Variance | ANOVA | DC–DC boost converter

Interface Research Collaboration with Sri Venkateswara College of Engineering and Technology

31. Research Publication in collaboration with other institutions

International Journal of Electronics
Volume 110, 2023 - Issue 3

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Research Article

Fuzzy tuned real and reactive power regulation in GC-VSI for PV systems

Nammalvar Pachaivannan, Ramkumar Subburam, Umadevi Ramkumar & Meganathan Paramanaban

Cite this article | https://doi.org/10.1080/00207217.2022.2042859

Full Article | Figures & data | References | Citations | Metrics | Reprints & Permissions | Read this article

ABSTRACT

Operating solar Photovoltaic (PV) under fluctuating irradiation and load with variable profiles is a challenging job. Besides, reactive power demand in grid-connected solar PV system makes it more challenging because of its limitations in reactive power capability. As per Indian electricity grid codes, reactive power compensation comes under ancillary services and it is mandatory nowadays. On PV source side, DC/DC boost converter, and on grid side, traditional three-phase Grid-Connected-Voltage Source Inverter (GC-VSI) are taken for research study. If real power delivered to the grid by GC-VSI is less than the capacity, the surplus capacity is used to provide reactive power. Normally, shunt capacitors or Flexible Alternating Current Transmission System (FACTS) devices are used at Point of Common Coupling (PCC) as compensation devices. In this work, the DC-link capacitor employed in front end of GC-VSI is utilised to serve reactive power control to the grid. An effective fuzzy-tuned direct current vector control is implemented to enrich reactive power control. Simulation studies carried with extensive MATLAB/Simulink platform illustrate the efficacy of suggested system and reveal that proposed approach is capable of effective reactive power support by the DC-link capacitor and extraction of maximum possible power from PV arrays.

KEYWORDS: Voltage source inverter | solar PV system | fuzzy logic | real power | reactive power | direct current vector control

Interface Research Collaboration with United Institute of Technology and Sri Venkateswara College of Engineering and Technology

32. Research Publication in collaboration with other institutions

Computer Systems Science & Engineering
DOI:10.32604/csse.2022.024239
Article

Tech Science Press

Pattern Recognition of Modulation Signal Classification Using Deep Neural Networks

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Received: 10 October 2021; Accepted: 11 November 2021

Abstract: In recent times, pattern recognition of communication modulation signals has gained significant attention in several application areas such as military, civilian field, etc. It becomes essential to design a safe and robust feature extraction (FE) approach to efficiently identify the various signal modulation types in a complex platform. Several works have derived new techniques to extract the feature parameters namely instant features, fractal features, and so on. In addition, machine learning (ML) and deep learning (DL) approaches can be commonly employed for modulation signal classification. In this view, this paper designs pattern recognition of communication signal modulation using fractal features with deep neural networks (CSM-FFDNN). The goal of the CSM-FFDNN model is to classify the different types of digitally modulated signals. The proposed CSM-FFDNN model involves two major processes namely FE and classification. The proposed model uses Sevcik Fractal Dimension (SFD) technique to extract the fractal features from the digital modulated signals. Besides, the extracted features are fed into the DNN model for modulation signal classification. To improve

Interface Research Collaboration with KPR Institute of Engineering and Technology and Saranathan College of Engineering and Technology

33. Research Publication in collaboration with other institutions

Rev. Roum. Sci. Techn.– Électrotechn. et Énerg.
Vol. **66**, *5*, pp. 225–230, Bucarest, 2021

AN EFFICIENT HYBRID CONVERTER FOR DC-BASED RENEWABLE ENERGY NANOGRID SYSTEMS

ANNAPOORANI SUBRAMANIAN[1], JAYAPARVATHY RAMAN[2], NAMMALVAR PACHAIVANNAN[3]

Key words: Boost converter, Dc nanogrid, Hybrid converter, Photovoltaic panel, Single input multiple output converter.

Many electrical and electronic equipment used in homes requires multiple dc and ac power supplies. Existing hybrid converters used in nanogrid systems provide only single ac and dc outputs for single dc input. They also have limitations such as shoot through problem and requirement of dead time circuitry. This paper proposes a novel single input multiple output hybrid converter (SIMOHC) derived from the dc-dc boost converter, which can produce one ac and two dc outputs simultaneously in single stage from a single dc input with less complex circuit. The proposed converter has higher electromagnetic interference (EMI) immunity, no shoot through problem, and dead time circuitry requirement is avoided. The proposed converter uses simple unipolar sinusoidal pulse width modulation (USPWM) technique and provides higher reliability. The proposed converter is validated using simulation and hardware implementation. It is observed that the proposed circuit performs equally good compared to the existing hybrid converter like boost derived hybrid converter (BDHC), and in addition, has the advantage of providing two dc outputs and one ac output.

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Interface Research Collaboration aboration with Agni College of Technology and Sri Sivasubramaniya Nadar College of Engineering

ACADEMIC YEAR (2020-2021)

34. Research Publication in collaboration with other institutions

Computer Systems Science & Engineering
DOI:10.32604/csse.2022.019622
Article

Tech Science Press

Secure Data Sharing with Confidentiality, Integrity and Access Control in Cloud Environment

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*Corresponding Author: V. Rajkumar. Email: raj7win@gmail.com
Received: 20 April 2021; Accepted: 28 May 2021

Abstract: Cloud storage is an incipient technology in today's world. Lack of security in cloud environment is one of the primary challenges faced these days. This scenario poses new security issues and it forms the crux of the current work. The current study proposes Secure Interactional Proof System (SIPS) to address this challenge. This methodology has a few key essential components listed herewith to strengthen the security such as authentication, confidentiality, access control, integrity and the group of components such as AVK Scheme (Access List,

Interface Research Collaboration with SRM Institute of Science and Technology and K.S.R College of Engineering

35. Research Publication in collaboration with other institutions

Majlesi Journal of Electrical Engineering **Vol. 15, No. 3, September 2021**

An Extensive Study on Online, Offline and Hybrid MPPT Algorithms for Photovoltaic Systems

Meganathan Padmanaban[1*], Sasi Chinnathambi[2], Pugazhendiran Parthasarathy[3], Nammalvar Pachaivannan[4]

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Received: August 2020 Revised: November 2020 Accepted: January 2021

ABSTRACT:
To moderate global warming, conventional fossil fuels are depleted. As the population increased with the rising standard of living and industrial growth, the global environment is affected and cause the greenhouse gases occurrence, which are frequently increased by unlimited use of fossil fuels. The generation of electric power loads increases the power demand on the basics of modern power technology development. Several benefits can be attained by installing the distribution generation with the quality and reliability of power delivered. However, the global energy problem can be resolved by renewable energy sources as an alternative energy generation. Technological

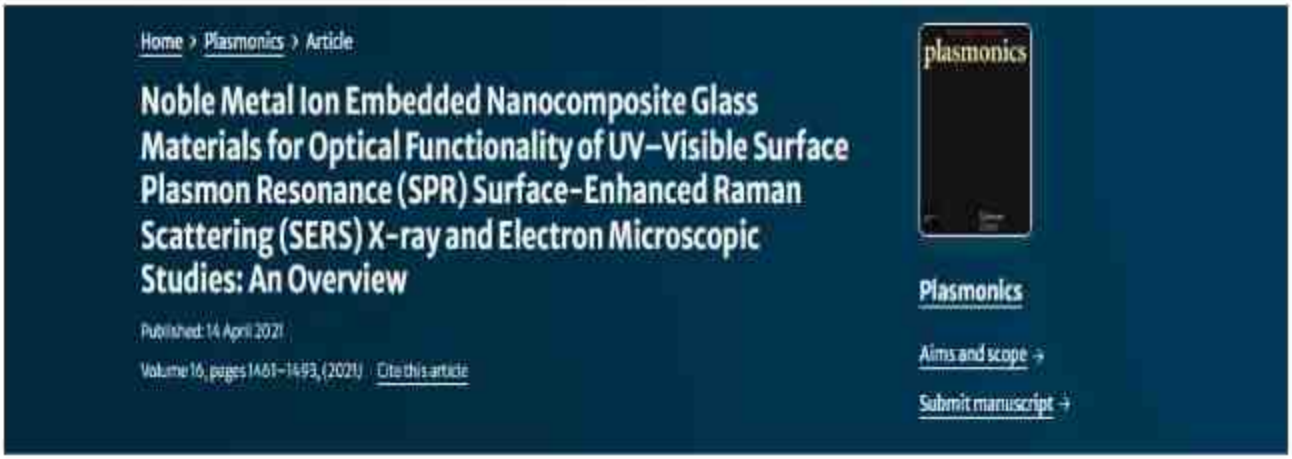
Paper type: Research paper
DOI: https://doi.org/10.52547/mjee.15.3.1
How to cite this paper: M. Padmanaban, S. Chinnathambi, P. Parthasarathy and N. Pachaivannan, **"An Extensive Study on Online, Offline and Hybrid MPPT Algorithms for Photovoltaic Systems"**, *Majlesi Journal of Electrical Engineering*, Vol. 15, No. 3, pp. 1-16, 2021.

Interface Research Collaboration with Annamalai University and IFET College of Engineering

36. Research Publication in collaboration with other institutions

Interface Research Collaboration with Sri Venkateswara College of Engineering and Technology and Saveetha School of Engineering

37. Research Publication in collaboration with other institutions



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Noble Metal Ion Embedded Nanocomposite Glass Materials for Optical Functionality of UV–Visible Surface Plasmon Resonance (SPR) Surface-Enhanced Raman Scattering (SERS) X-ray and Electron Microscopic Studies: An Overview

Published: 14 April 2021

Volume 16, pages 1481–1493, (2021) Cite this article

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Sections Figures References

Abstract

Raman spectroscopy (RS) is a modern scientific analytic fingerprint technique that detects, examines, and analyzes the constituent chemical composition of various substances (solid–liquid–gas and plasmons) through interaction of laser light with matter. It is intelligent to present qualitative and quantitative information about the sample's chemical composition, polymorphism, phase, crystallinity, stress/strain, and contamination and impurity/defects. The key mechanism is profoundly based on the Raman principle that was originally named after and discovered by the Indian primer scientist CV Raman, who won the Nobel prize after the exposure of the Raman effect [Raman 1916; Krishnan 1928]. This

Interface Research Collaboration with Biju Patnaik U niversity of Technology and Arignar Anna Govt.Arts College

38. Research Publication in collaboration with other institutions

INTERNATIONAL JOURNAL of RENEWABLE ENERGY RESEARCH
P.Nammalvar et al., Vol.11, No.1, March, 2021

Implementation of Double Loop Controller Tuned Super Lift Luo Converter and Unipolar Inverter for Solar Fed Grid Application

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[redacted]

Received: 28.12.2020 Accepted:15.01.2021

Abstract- The main objective of this article is to generate Photovoltaic (PV) power generation with high power quality before it is connected to the grid. The PV side DC/DC conversion is done by Positive Output Elementary Super Lift Luo converter (POESLLC) with high voltage conversion ratio for better performance. The grid side AC conversion is achieved by adding a double loop controller and it is used to ensure less voltage variation in grid voltage during for line and load variations. DC power received from the solar panel is stabilized in the POESLLC converter with double loop controller, which consists of a PI controller on the outer loop and hysteresis current controller inner loop. In the second stage, open-loop Pulse Width Modulation (PWM) based unipolar full-bridge inverter is used to meet the power quality issues. This modified system avoids the closed-loop controller for inverter on grid side and also omits the Maximum Power Point Tracking (MPPT) algorithm in DC/DC conversion. The proposed system has some advantages such as fewer components, less weight and avoids complexity in controllers which inject steady current to the utility grid. The effectiveness of the converters is verified through MATLAB Simulink platform.

Keywords Solar PV; Double loop controller; Hysteresis current controller; Single Phase Unipolar Inverter (SPUPI); Luo Converter.

1. Introduction

The electricity supplied by a PV power generation unit depends on the solar insolation and temperature. In tropical countries, the availability of solar power in abundance, hence the photovoltaic system can meet the emerging power demand. The initial expenditure, however, decreases the importance of the solar PV system even if there are virtually no operating costs and repair costs. PV panel cost alone approximately 57 % of the system total cost, the battery cost [1] is around 30 % and the inverter cost along with MPPT control is around 7 % [2]. Numerous researches are going in the PV technology to reduce cost efforts. The cost of PV is anticipated to drop significantly per watt by 2020. On the other hand, the cost of other components [3] (DC/DC converter and inverter components, storage devices, instrumentation, etc.) must be reduced to reduce the total cost of a PV system. At PV cell level, the instrumentation involved in MPPT can be minimized [4]. In this article, to increase efficiency without MPPT and minimize cost

Interface Research Collaboration with United Institute of Technology and Sri Venkateswara College of Engineering and Technology

39. Research Publication in collaboration with other institutions

Interface Research Collaboration withUnited Institute of Technology and Agni College of Technology

40. Research Publication in collaboration with other institutions

Interface Research Collaboration withSri Venkateswara College of Engineering and Technology and BIT Campus Anna University, Tiruchirappalli

41. Research Publication in collaboration with other institutions

Journal of Green Engineering (JGE)
Volume-10, Issue-11, November 2020

Green Cloud Computing: An Extensive Survey In Selecting Multi-Objectives For Task Scheduling in Sustaining Energy Efficiency

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Abstract

Cloud computing is a hot topic in resources planning and the planning of appropriate cloud workloads is focused on the Cloud application's QoS needs. Many methods for calculating cloud computing resources under several aspects have been developed. However, researchers continue to face problems in selecting the efficient and acceptable resource planning strategy for a specific workload based on existing resource planning techniques. The use of resources is the main aim of cloud planning, since resources are available as a service. The way cloud services are designed to serve the cloud user in the application layer is critical in cloud management and research planning. In this text, we analyse algorithms based on two dimensions for resource scheduling. Firstly, the resources are configured on a QoS basis and the goals such as task making-up, user costs and app output optimise. First the cloud provider needs to prepare the proficient cloud resource to use the supply or to save carbon costs or renewable cloud resources. Under the division of three the current techniques are checkedscheduling for user QoS, scheduling for provider efficiency, or scheduling for negotiation subcategories.

Keywords: Cloud, Scheduling, QoS, Makespan, Energy.

Journal of Green Engineering, Vol.10_11, 11369-11393.

Alpha Publishers

Interface Research Collaboration with Pondicherry University

42. Research Publication in collaboration with other institutions

Journal of Green Engineering (JGE)
Volume 10, Issue-9, September 2020

Experimental Studies on Strength and Durability of Sustainable Concrete Using Bottom Ash by Replacement of Fine Aggregate

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Abstract

The experimental investigations has carried out to identify the effect of use on bottom ash which is replacement for fine aggregate. By adding the bottom ash in Concrete can be improved the strength and the cost of the concrete will be reduced. The waste materials which is extracted from the thermal power plant is harmful for human health so by using this materials in the concrete will be an eco-friendly for the environmental. Even though the cost of the sand is high by using the bottom as the cost will reduce up to 20%. The different types of strength and the properties of the concrete has been identified. To find the strength two different types of concrete test has be consists of compressive strength and flexural strength of the concrete beam. To development the strength of the concrete different percentages of bottom Ash has been add 0%, 10%,20%, 30% and 40% has replaced with fine aggregates. The concrete has various age of curing like 7days and 28days with two different types of water one is normal water and the salt water for compressive strength. The strength and durability of the concrete has been identified in this research.

Journal of Green Engineering, Vol. 10_9, 6938–6949.

Alpha Publishers

Interface Research Collaboration with SRM valliammai engineering college

43. Research Publication in collaboration with other institutions

Materials Today: Proceedings 33 (2020) 784–788

Contents lists available at ScienceDirect

Materials Today: Proceedings

journal homepage: www.elsevier.com/locate/matpr

High performance glass fiber reinforced concrete

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ARTICLE INFO

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Glass fiber
RCC
GFRC
Construction
Fiber reinforced concrete

ABSTRACT

The research article outlines the experiment for the fresh properties of concrete and harden concrete which is conducts to find the use of glass fibers with structural component like cube cylinder and beam. To find the strength and durability of M20 grade of concrete with Glass Fiber Reinforced Concrete (GFRC). GFRC is mixed with concrete in three different variation and identify the fresh properties of the concrete and the harden strength of the concrete. GFRC varies from 0 to 1 percentage by mass of concrete and the properties of this FRC like compressive strength, toughness, modulus of elasticity and flexure strength were studied.

Selection and Peer-review under responsibility of the scientific committee of the International Conference on Future Generation Functional Materials and Research 2020.

Interface Research Collaboration with Agni College of Technology and Dr.M.G.R Education and Research Institute

44. Research Publication in collaboration with other institutions

Journal of Green Engineering (JGE)
Volume-10, Issue-6, June 2020

Green Composite Form of Eco - Friendly Concrete by Adding PVA Fiber

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Abstract

The ultimate aim of this research is to generate an Eco- friendly concrete by using polyvinyl alcohol fibers. The experimental investigation conducted for both the properties of fresh and harden properties of concrete which is to find the use of Polyvinyl alcohol fibers to the form of Eco-Friendly building. This type of concrete will be used as a greenhouse effect. To evaluate the strength of the harden concrete and durability of the fresh concrete which is made of M30 grade of concrete with additional added with Polyvinyl alcohol fibers (PAV). PAV Fibers has added with concrete which varies 0, 0.5, 1, 1.5, and 2 % by weight of fresh concrete and PAV fiber has conducted different types of structural experiments to determine the properties.

Journal of Green Engineering, Vol. 10_6, 3084–3101.

Interface Research Collaboration with Aarupadai Institute of Technology and Saveetha School of Engineering

45. Research Publication in collaboration with other institutions

International Journal of Advanced Science and Technology
Vol. 29, No. 7, (2020), pp. 2411-2423

Experimental Investigation On Partial Replacement Of Coarse Aggregate With Shredded Rubber For Concrete

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Abstract

The work was conducted by leading tests on the crude materials to decide their properties and reasonableness for the test result analysis. Mixed proportion of concrete plans are readied utilizing IS code book technique for M30 evaluation of cement concrete. The sample specimen are casted with different rate substitutions of the coarse aggregate with shredded rubber as aggregate in the replacement by 5 %, 10%, 15% and 20%. In addition, a control concrete mix has made without adding of shredded rubber as aggregate in the grade of M30. But conducting the fresh concrete property and harden property of the concrete with control concrete and adding of differed percentage of shredded rubber as aggregate.

Key Words: *Compressive strength, Concrete, Flexural strength, Shredded rubber and Modulus of elasticity*

1. INTRODUCTION

The waste administration is one of the major ecological concerns around the world. Throughout the previous 30 years numerous examinations have been led so as to evaluate the achievability of utilizing modern results and waste materials in structural designing applications. Broad examinations on wastage reusing are being executed to limit the ecological harms [1]. In such manner, development agents, as other reusing and creation businesses, have likewise accomplished advances in utilizing these waste materials. The non-recyclable materials enters the earth in car utilized tires.

These tires are regularly kept in an uncontrolled way, as a result of the perceptible fast exhaustion in locales accessible for squander removal, causing major natural issues [2]. Water amassing inside the tires gives perfect temperature and dampness conditions for the spread of mosquitoes, mice, rodents and vermin. Simultaneously, the amount of oxygen that exists in the inside of the tires is sufficient to cause fire in proper conditions, on account of their inflammable parts, with coming about negative effects on the environment and on human wellbeing.

46. Research Publication in collaboration with other institutions

Journal of Cleaner Production
Volume 216, 10 April 2019, Pages 461-481

A sociocultural study on solar photovoltaic energy system in India: Stratification and policy implication

K. Padmanathan [a], Usha Govindarajan [a], Vigna K. Ramachandaramurthy [b], Arul Rajagopalan [c], Nammalvar Pachaivannan [d], U. Sowmmiya [a], Sanjeevikumar Padmanaban [f], Jens Bo Holm-Nielsen [f], S. Xavier [g], Senthil Kumar Periasamy [h]

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Highlights

- Rethinking: Sustainability and progress of solar energy sector in India.
- Key influence on energy policy and solar PV energy system.
- Energy policy-strategy set leveraging statistical methods for participatory planning.
- Policy implication for Solar PV energy system on the basis of pan-India survey.
- Identified major challenges associated with solar energy policy implementation.

Abstract

Cleaner production is a simple defensive mechanism to protect the environment from pollution and depletion of resources. It is also envisioned to minimise the waste and capitalise on natural resources with effective utilization. Solar energy is a natural resource which can be converted into electricity using photovoltaic (PV) system. This article sheds insights on the implementation of solar PV system with interdisciplinary views and analyse motives and barriers for PV adoption by different citizen groups in India.

Interface Research Collaboration with Anna University Guindy Campus and Vellore Institute of Technology, Chennai Campus

47. Research Publication in collaboration with other institutions

Enhanced approach using trust based decision making for secured wireless streaming video sensor networks

Open access Published: 18 April 2019
Volume 79, pages 10157–10176, (2020) Cite this article

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Multimedia Tools and Applications
Aims and scope
Submit manuscript

S. Ramesh & C. Yaashuwanth

Abstract

The advances in the expanse of image sensors have made it conceivable to make high-resolution picture sensors easily accessible. The amelioration of wireless interactive media sensor networks are found to be greatly increased due to the day to day usage of cameras, microphones and smart devices. A secured multi-hop routing mechanism is addressed in surveillance areas which could be incorporated to the multimedia sensors that are capable of peruse the detected data comprises of recorded images and videos. Also, malevolent sensor hubs could be interjected into the vigilance area in an untrusted

Interface Research Collaboration with Sri Venkateswara College of Engineering

48. Research Publication in collaboration with other institute faculty members

A Conjoint Edifice for QOS and QOE Through Video Transmission at Wireless Multimedia Sensor Networks

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Abstract

The Myth of distributing multimedia content came to reality with the emancipation of Wireless Multimedia Sensor Networks (WMSNs). The proper management is needed to avoid the excessive packet drop during transmission of multimedia data over WMSNs. Existing QoS does not lead to increase in sensor nodes and volume of data in wireless sensor networks. This paper proposes to emphasis the QoS in WMSNs inspire of insubstantial Fuzzy Error Concealment (EC) scheme. The sustainable quality for retaining the receiving ends is the prime core for the Quality of Experience (QoE). The proposed key objectives of the edifice are to reduce the effects of leaped video packets and to maximize its network. The variable Quantization Parameters (QPs) are used to control the data rate at the multimedia sensor with Scalable High-efficiency Video Coding (SHVC). The real-time video transmission is exploited by the multipath routing. Experimental outcome reveals that the proposed edifice able to proficiently regulate network distortions under large volumes of video data and produce better objective measurements for lost video frames.

Interface Research Collaboration with Sri Venkateswara College of Engineering and Anna University Chennai

49. Research Publication in collaboration with other institutions

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Desalination xxx (xxxx) xxx–xxx

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Desalination

journal homepage: www.elsevier.com/locate/desal

Engineering Advance

Factors influencing the performance and productivity of solar stills - A review

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ARTICLE INFO

Keywords:
Desalination
Solar still
Performance
Productivity
Parameters
Design improvements

ABSTRACT

Water scarcity is a major threat for future as the fresh water resources are being exploited and polluted rapidly by mankind. Hence, converting the brackish, saline water in to pure water is one of the viable solutions to overcome the demand for water. Desalination using solar still is simple among various techniques available for removal of salinity. The limitation being its productivity, researchers have consistently attempted to improve the performance of solar stills. This article reviews various factors that influence the performance of the solar still like solar radiation intensity, temperature difference, collector area, basin water depth, insulation, angle of inclination, thickness of glass cover plate, wind velocity and a few methods for improving the quantity of distillate produced. Such a review would benefit the knowledge society for further research and development of a solar still to make it an economically viable option.

Interface Research Collaboration with Pondicherry Engineering College

50. Research Publication in collaboration with other institutions

INTERNATIONAL JOURNAL of RENEWABLE ENERGY RESEARCH
P.Nammalvar et al., Vol.8, No.3, September, 2018

Cost Effective Solitary Stage Single Phase Inverter for Solar PV Integration in to Grid

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Received: 23.03.2018 Accepted:11.02.2018

Abstract- The ambitious plan exhibited in this paper is to develop a single-phase DC/AC grid-integrated, transformerless and cost-effective inverter for solar Photovoltaic (PV) systems. The costly combination of the two converters specifically DC/DC and DC/AC had inspired the development of this new financially cost effective inverter. This novel solitary stage converter has the capability to operate on both buck mode and buck-boost mode to harvest maximum power from two distinctive PV panels with the help of PI and hysteresis controller. The working principle and configuration of the proposed system are verified under equally, as well as incompatible climatological conditions and hence the system can endure a extensive deviation of voltage in both the PV panels. This inverter requires just four switches and is also free from the shoot-through problem. Owing to noticeable features such as dual MPP tracking, omission of transformer, exclusion of diodes, reduced switch count, negligible losses and wide operating voltage, these PV grid-tie inverters continue to work even during periods of partial shading due to clouds or dust. In addition, the viability of the inverter has been validated both by detailed simulation and exhaustive experimental studies on a 230V/50Hz/2000W research centre model.

Keywords- Grid integration, Harmonics, Renewable Energy, Solar Photovoltaic, Transformerless Inverter.

Interface Research Collaboration with PSG Institute of Technology and Applied Research

51. Research Publication in collaboration with other institutions

Advances in Electrical and Computer Engineering *Volume 18, Number 1, 2018*

Parameter Improved Particle Swarm Optimization Based Direct-Current Vector Control Strategy for Solar PV System

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***Abstract*—This paper projects Parameter Improved Particle Swarm Optimization (PIPSO) based direct current vector control technology for the integration of photovoltaic array in an AC micro-grid to enhance the system performance and stability. A photovoltaic system incorporated with AC micro-grid is taken as the pursuit of research study. The test system features two power converters namely, PV side converter which consists of DC-DC boost converter with Perturbation and Observe (P&O) MPPT control to reap most extreme power from the PV array, and grid side converter which consists of Grid Side-Voltage Source Converter (GS-VSC) with proposed direct current vector control strategy. The gain of the proposed controller is chosen from a set of three values obtained using apriori test and tuned through the PIPSO algorithm so that the Integral of Time multiplied Absolute Error (ITAE) between the actual and the desired DC link capacitor voltage reaches a minimum and allows the system to extract maximum power from PV system, whereas the existing d-q control strategy is found to perform slowly to control the DC link voltage under varying solar insolation and load fluctuations. From simulation results, it is evident that the proposed optimal control technique provides robust control and improved efficiency.**

***Index Terms*—solar energy, particle swarm optimization, optimal control, power conditioning, microgrids.**

Interface Research Collaboration with KPR Institute of Engineering and Technology

3.5.1. Number of functional MoUs/linkages with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during the last five years							
Sl. No.	**Name of the MoU / linkage**	**Name of the institution / industry with whom the MoU / linkage is made, with contact details**	**Year of signing MoU / linkage**	**Purpose of the MoU/Linkage (Internship, on-the-job training, project work, student / faculty exchange and collaborative research)**	**Duration of MoU / linkage**	**List the actual activities under each MOU/ Linkage and web -links year-wise**	**Link to the relevant document**
LIST OF ACTIVITIES UNDER LINKAGES AY 2018-2023							
52	Book Publication (Electrical Circuits and Simulation Practical)	Sri Ganesh College of Engineering and Technology	2023	Linkage Book Publication	2 years	https://kcet.in/wp-content/uploads/2024/07/4.pdf	https://kcet.in/wp-content/uploads/2024/07/4.pdf
53	Book Publication (Electrical Machines -1)	Sri Ganesh College of Engineering and Technology	2023	Linkage Book Publication	2 years	https://srikrishnabookbazaar.com/product/electrical-machines-i/	https://srikrishnabookbazaar.com/product/electrical-machines-i/
54	Book Publication (Linear Integrated Circuits)	Sri Ganesh College of Engineering and Technology	2023	Linkage Book Publication	1 year	https://booksdelivery.com/linear-integrated-circuits-by-periyaazhagar-raja-saranya-from-srikrishna-hitech-publications-2021?search=periyaazhagar&description=true	https://booksdelivery.com/linear-integrated-circuits-by-periyaazhagar-raja-saranya-from-srikrishna-hitech-publications-2021?search=periyaazhagar&description=true
55	Book Publication (A Beginners Guide for Network Security)	Jerusalem College of Engineering	2023	Linkage Book Publication	2 years	Raja Rammohun Roy National Agency for ISBN	Raja Rammohun Roy National Agency for ISBN
56	Book Publication (Control of Electrical Machines)	Thangam Muthu Polytechnic College	2022	Linkage Book Publication	3 years	https://kcet.in/wp-content/uploads/2024/07/8.pdf	https://kcet.in/wp-content/uploads/2024/07/8.pdf
57	Book Publication (Physics for Electronics Engineering)	Sengunthar College of Engineering	2022	Linkage Book Publication	3 years	https://thecharulathapublications.com/book/anna-university/regulations-2021/2nd-semester-regulations-2021/physics-for-electronics-engineering/	https://thecharulathapublications.com/book/anna-university/regulations-2021/2nd-semester-regulations-2021/physics-for-electronics-engineering/

Sl. No.	Name of the MoU / linkage	Name of the institution / industry with whom the MoU / linkage is made, with contact details	Year of signing MoU / linkage	Purpose of the MoU/Linkage (Internship, on-the-job training, project work, student / faculty exchange and collaborative research)	Duration of MoU / linkage	List the actual activities under each MOU/ Linkage and web -links year-wise	Link to the relevant document
58	Book Publication (Physics for Information Science)	Jai Shriram Engineering College	2022	Linkage Book Publication	3 years	https://thecharulathapublications.com/book/anna-university/regulations-2021/2nd-semester-regulations-2021/physical-for-information-science/	https://thecharulathapublications.com/book/anna-university/regulations-2021/2nd-semester-regulations-2021/physical-for-information-science/
59	Book Publication (Microprocessor and Microcontroller)	Thangam Muthu Polytechnic College	2022	Linkage Book Publication	3 years	https://booksdelivery.com/microprocessor-and-microcontroller-by-periyaazhagar-raja-saranya-from-sri-krishna-hitech-publications-2021?search=periyaazhagar&description=true	https://booksdelivery.com/microprocessor-and-microcontroller-by-periyaazhagar-raja-saranya-from-sri-krishna-hitech-publications-2021?search=periyaazhagar&description=true
60	Book Publication (Sensor and Transducer)	Karpagam College of Engineering and Sri Ganesh College of Engineering and Technology	2022	Linkage Book Publication	3 years	https://booksdelivery.com/index.php?route=product/product&product_id=2414&search=Sensor+and+Transducer&description=true	https://booksdelivery.com/index.php?route=product/product&product_id=2414&search=Sensor+and+Transducer&description=true
61	Book Publication (Electrical and Electronics Engineering Practical)	Bharat Niketan Polytechnic College	2021	Linkage Book Publication	3 years	https://kcet.in/wp-content/uploads/2024/07/15.pdf	https://kcet.in/wp-content/uploads/2024/07/15.pdf
62	Book Publication (Engineering Physics Regulaton 2021)	Solamalai College of Engineering and Stella Mary's College of Engineering	2021	Linkage Book Publication	3 years	https://jayshriram.edu.in/wp-content/uploads/2023/12/3.3.2-Engineering-Physics.pdf	https://jayshriram.edu.in/wp-content/uploads/2023/12/3.3.2-Engineering-Physics.pdf
63	Book Publication (Electrical and Instrumentation Engineering)	Karpagam College of Engineering and IFET College of Engineering	2021	Linkage Book Publication	2 years	https://booksdelivery.com/electrical-and-instrumentation-engineering-by-balamurugan-from-magnus-publishers?search=Periyaazhagar&description=true	https://booksdelivery.com/electrical-and-instrumentation-engineering-by-balamurugan-from-magnus-publishers?search=Periyaazhagar&description=true
64	Book Publication (Power System Operation and Control)	Sri Krishna Hitech Publishing Company Pvt.Ltd	2020	Linkage Book Publication	4 years	https://booksdelivery.com/index.php?route=product/product&product_id=2495&search=periyaazhagar&description=true	https://booksdelivery.com/index.php?route=product/product&product_id=2495&search=periyaazhagar&description=true

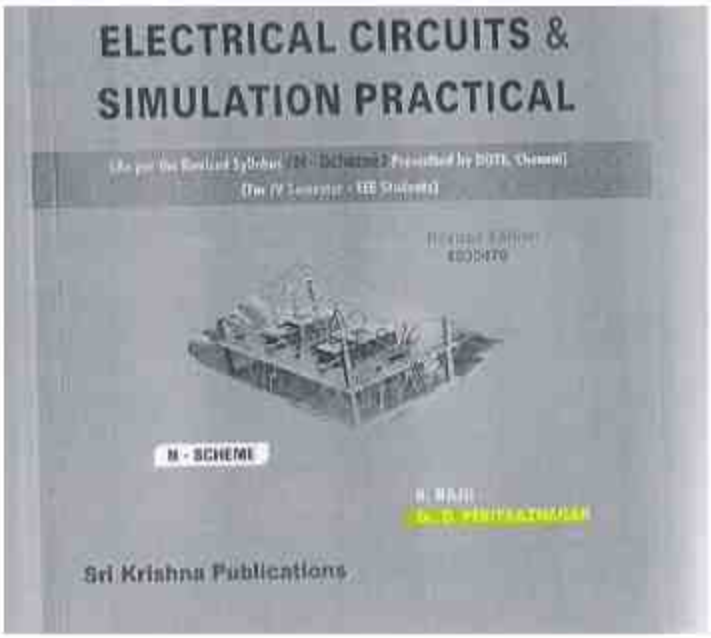
Sl. No.	Name of the MoU / linkage	Name of the institution / industry with whom the MoU / linkage is made, with contact details	Year of signing MoU / linkage	Purpose of the MoU/Linkage (Internship, on-the-job training, project work, student / faculty exchange and collaborative research)	Duration of MoU / linkage	List the actual activities under each MOU/ Linkage and web -links year-wise	Link to the relevant document
65	Book Publication (High Voltage Direct Current Transmission)	Thangam Muthu Polytechnic College	2020	Linkage Book Publication	3 years	https://kcet.in/wp-content/uploads/2024/07/HVDC.pdf	https://kcet.in/wp-content/uploads/2024/07/HVDC.pdf
66	Book Publication (Electronics Circuits-1)	Thangam Muthu Polytechnic College	2020	Linkage Book Publication	3 years	https://booksdelivery.com/sri-krishna-hitech-publishing-company?product_id=2448&page=6	https://booksdelivery.com/sri-krishna-hitech-publishing-company?product_id=2448&page=6
67	Book Publication (Basics of Biomedical Instrumentation)	Karpagam College of Engineering	2020	Linkage Book Publication	3 years	https://kcet.in/wp-content/uploads/2024/07/BBMI.pdf	https://kcet.in/wp-content/uploads/2024/07/BBMI.pdf
68	Book Publication (Embedded and Real Time Systems)	Sri Ganesh College of Engineering and Technology	2020	Linkage Book Publication	2 years	https://booksdelivery.com/sri-krishna-hitech-publishing-company?product_id=2501&page=7	https://booksdelivery.com/sri-krishna-hitech-publishing-company?product_id=2501&page=7
69	Book Publication (Electric Energy Generation , Utiliation and Conservation)	Thangam Muthu Polytechnic College	2020	Linkage Book Publication	4 years	https://kcet.in/wp-content/uploads/2024/07/EEGU.pdf	https://kcet.in/wp-content/uploads/2024/07/EEGU.pdf
70	Book Publication (Renewable Energy Systems)	PSV College of Engineering and Technology	2020	Linkage Book Publication	2years	https://booksdelivery.com/index.php?route=product/product&product_id=2496&search=periyaazhagar&description=true	https://booksdelivery.com/index.php?route=product/product&product_id=2496&search=periyaazhagar&description=true
71	Book Publication (Control System)	Sri Ganesh College of Engineering and Technology	2020	Linkage Book Publication	3 years	https://booksdelivery.com/sri-krishna-hitech-publishing-company?product_id=2564&page=4	https://booksdelivery.com/sri-krishna-hitech-publishing-company?product_id=2564&page=4

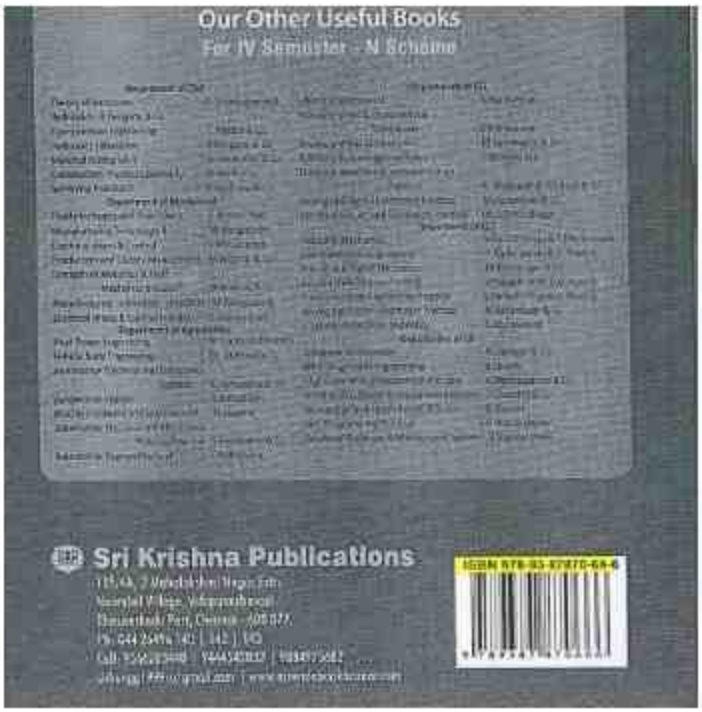
Sl. No.	Name of the MoU / linkage	Name of the institution / industry with whom the MoU / linkage is made, with contact details	Year of signing MoU / linkage	Purpose of the MoU/Linkage (Internship, on-the-job training, project work, student / faculty exchange and collaborative research)	Duration of MoU / linkage	List the actual activities under each MOU/ Linkage and web -links year-wise	Link to the relevant document
72	Book Publication (Engineering Physics Regulaton 2017)	Solamalai College of Engineering	2020	Linkage Book Publication	2 years	https://www.charulathapublications.com/products/engineering-physics	https://www.charulathapublications.com/products/engineering-physics
73	Book Publication (Power Quality)	Sri Ganesh College of Engineering and Technology	2019	Linkage Book Publication	2 years	https://booksdelivery.com/index.php?route=product/product&product_id=2590&search=power+quality&description=true	https://booksdelivery.com/index.php?route=product/product&product_id=2590&search=power+quality&description=true
74	Book Publication (Python Programming)	Sri Venkateswara College of Engineering	2019	Linkage Book Publication	3 years	https://jpc.in.net/product/python-programming/	https://jpc.in.net/product/python-programming/
75	Railways and Highways Contractor	Railways and Highways Contractor	2022	Consultancy - Testing	2 weeks	Railways-and-Highways-Contractor-consultancy-details.pdf (kcet.in)	Railways-and-Highways-Contractor-consultancy-details.pdf (kcet.in)
76	Mata Amritanandamayi Math	Mata Amritanandamayi Math	2022	Consultancy - Testing	7 weeks	Mata-Amirta-consultancy-details.pdf (kcet.in)	Mata-Amirta-consultancy-details.pdf (kcet.in)
77	Railways and Highways contractor	Railways and Highways contractor	2022	Consultancy - Testing	2 weeks	Railways-and-Highways-contractor.pdf (kcet.in)	Railways-and-Highways-contractor.pdf (kcet.in)
78	Jeevan Ready Mix Concrete	Jeevan Ready Mix Concrete	2021	Consultancy - Testing	2 weeks	Jeevan-Ready-Mix-Concrete-consultancy-details.pdf (kcet.in)	Jeevan-Ready-Mix-Concrete-consultancy-details.pdf (kcet.in)

Sl. No.	Name of the MoU / linkage	Name of the institution / industry with whom the MoU / linkage is made, with contact details	Year of signing MoU / linkage	Purpose of the MoU/Linkage (Internship, on-the-job training, project work, student / faculty exchange and collaborative research)	Duration of MoU / linkage	List the actual activities under each MOU/ Linkage and web -links year-wise	Link to the relevant document
79	M.R.C. Mills Private Limited	M.R.C. Mills Private Limited	2021	Consultancy - Testing	1 week	M.R.C.-Mills-Private-Limited-consultancy-details.pdf (kcet.in)	M.R.C.-Mills-Private-Limited-consultancy-details.pdf (kcet.in)
80	Tamilnadu Water Investment Company Limited	Tamilnadu Water Investment Company Limited	2020	Consultancy - Testing	3 weeks	Tamilnadu-water-investment-consultancy-details.pdf (kcet.in)	Tamilnadu-water-investment-consultancy-details.pdf (kcet.in)
81	Unios Infracon Pvt. Ltd.	Unios Infracon Pvt. Ltd.	2019	Consultancy - Testing	1 week	Unios-Infracon-consultancy-details.pdf (kcet.in)	Unios-Infracon-consultancy-details.pdf (kcet.in)
82	Citizen Consumer and Civic Action Group	Citizen Consumser and Civic Action Group	2019	Consultancy	8 months	CAG-Agreement-consultancy-details.pdf (kcet.in)	CAG-Agreement-consultancy-details.pdf (kcet.in)
83	EICL Limited	EICL Limited	2019	Consultancy Testing	2 weeks	EICL-Limited-consultancy-details.pdf (kcet.in)	EICL-Limited-consultancy-details.pdf (kcet.in)
84	EICL Limited	EICL Limited	2019	Consultancy Testing	1 month	EICL-Limited-2-consultancy-details.pdf (kcet.in)	EICL-Limited-2-consultancy-details.pdf (kcet.in)
85	Prem Engineering	Prem Engineering	2019	Consultancy Testing	2 weeks	Prem-Engineering-consultancy-details.pdf (kcet.in)	Prem-Engineering-consultancy-details.pdf (kcet.in)

Sl. No.	Name of the MoU / linkage	Name of the institution / industry with whom the MoU / linkage is made, with contact details	Year of signing MoU / linkage	Purpose of the MoU/Linkage (Internship, on-the-job training, project work, student / faculty exchange and collaborative research)	Duration of MoU / linkage	List the actual activities under each MOU/ Linkage and web -links year-wise	Link to the relevant document
86	EN-Tech Constructions	EN-Tech Constructions	2019	Consultancy Testing	1 week	EN-Tech-construction-consultancy-details.pdf (kcet.in)	EN-Tech-construction-consultancy-details.pdf (kcet.in)
87	Feedback Infra Private Limited	Feedback Infra Private Limited	2019	Consultancy Testing	1 week	Feedback-Infra-limited-consultancy-details.pdf (kcet.in)	Feedback-Infra-limited-consultancy-details.pdf (kcet.in)
88	KEC International Limited	KEC International Limited	2018	Consultancy Testing	3 weeks	KEC-International-limited-consultancy-details.pdf (kcet.in)	KEC-International-limited-consultancy-details.pdf (kcet.in)

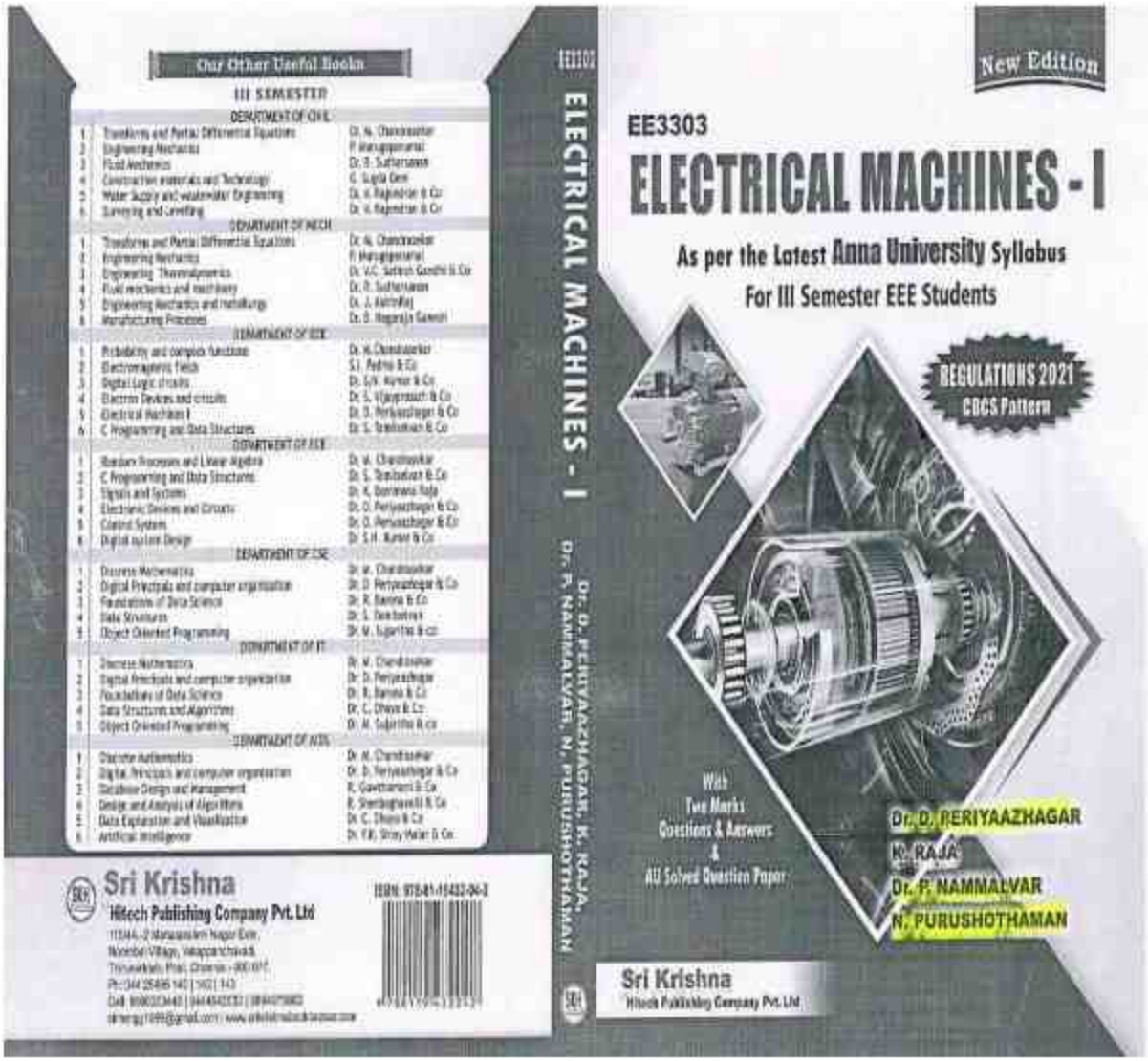
52. Book Publication in collaboration with other Institutions by our faculty members





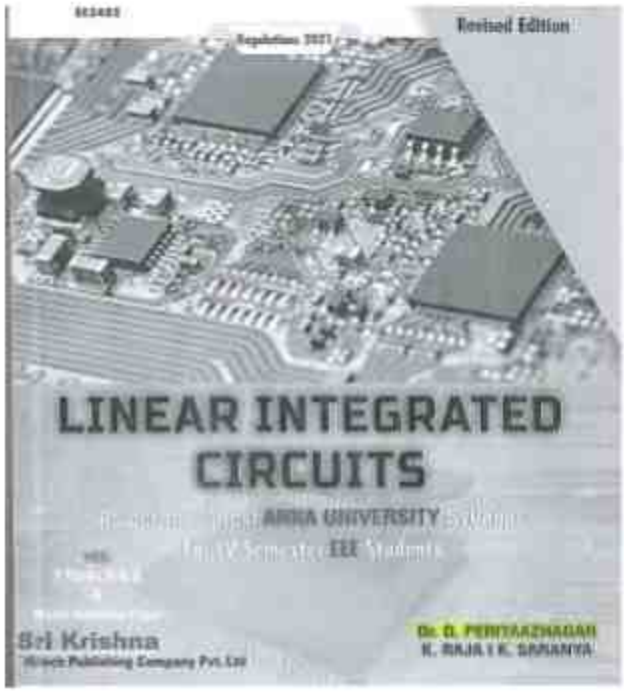
Linkage with Sri Ganesh College of Engineering and Technology

53. Book Publication in collaboration with other Institutions faculty members



Linkage with Sri Ganesh College of Engineering and Technology

54. Book Publication in collaboration with other Institutions faculty members



Linkage with Sri Ganesh College of Engineering and Technology

55. Book Publication in collaboration with other Institutions faculty members

A Beginners Guide for Network Security

AUTHORS

Dr.S.Ramesh
Mrs. B. Sindiya

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Mrs. B. Sindiya

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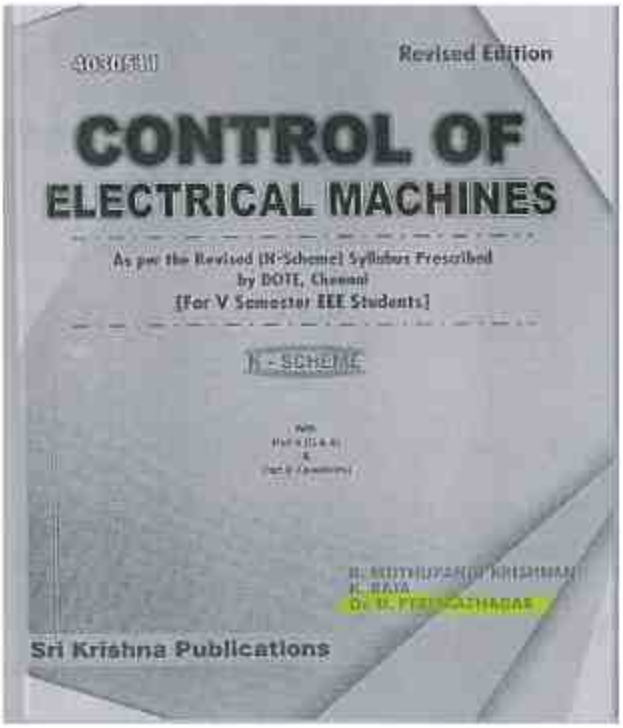
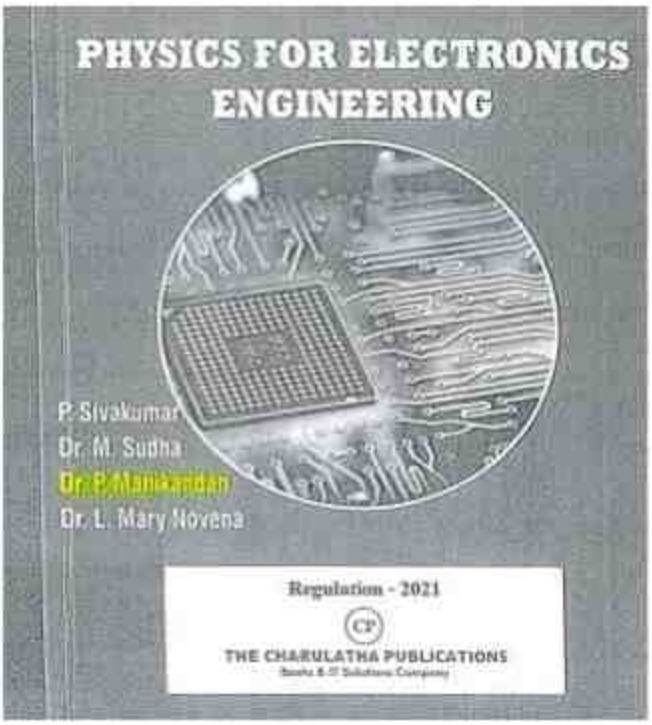
56. Book Publication in collaboration with other Institutions faculty members



Linkage with Thangam Muthu Polytechnic College

57. Book Publication in collaboration with other Institutions faculty members



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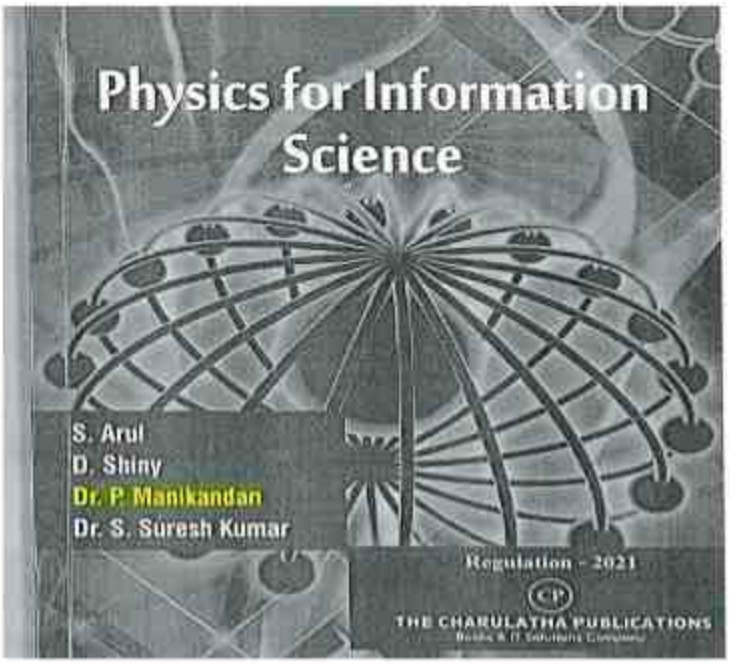
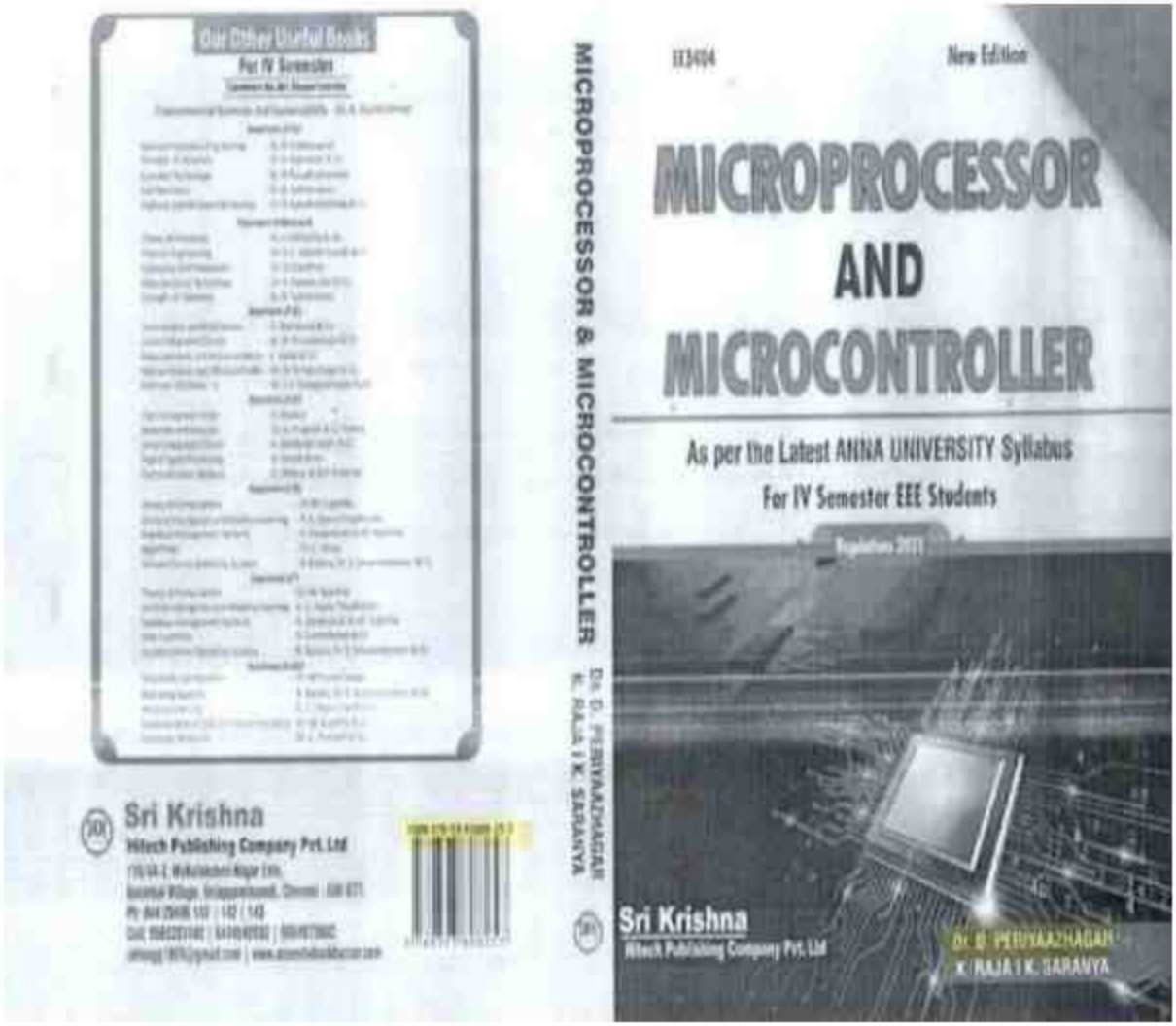


Linkage with Jai Shriram Engineering College

59. Book Publication in collaboration with other Institutions faculty members



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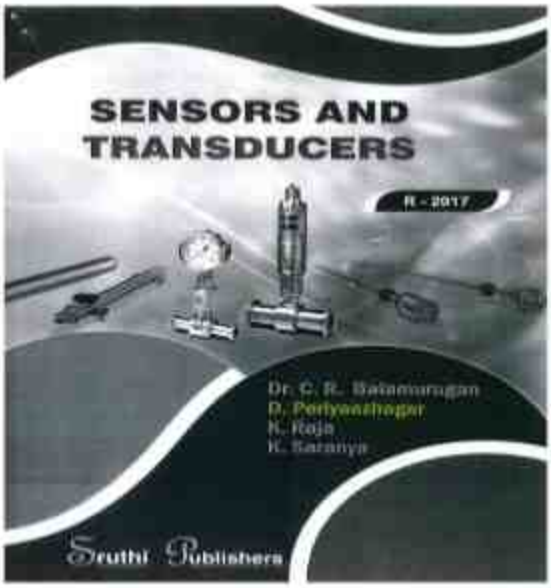
60. Book Publication in collaboration with other college faculty members

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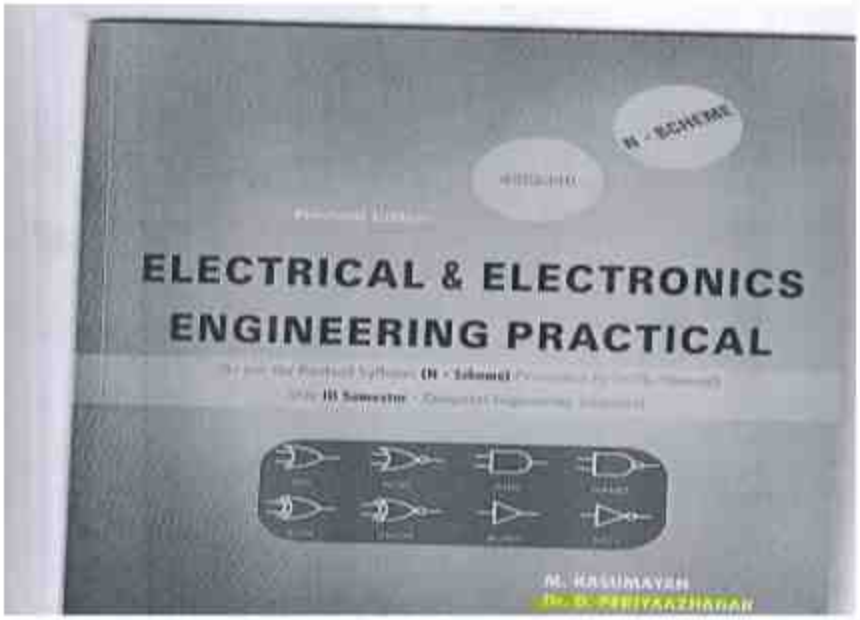

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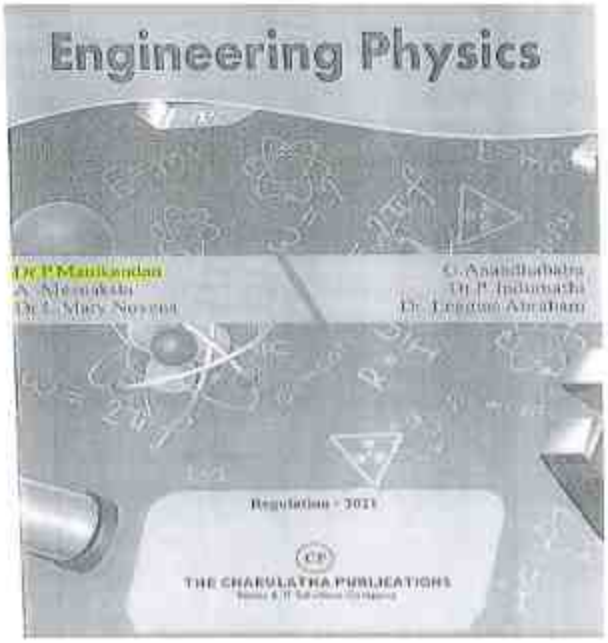
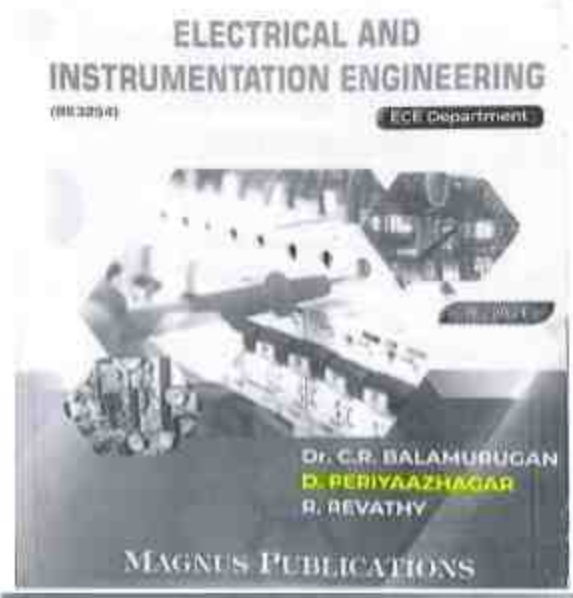


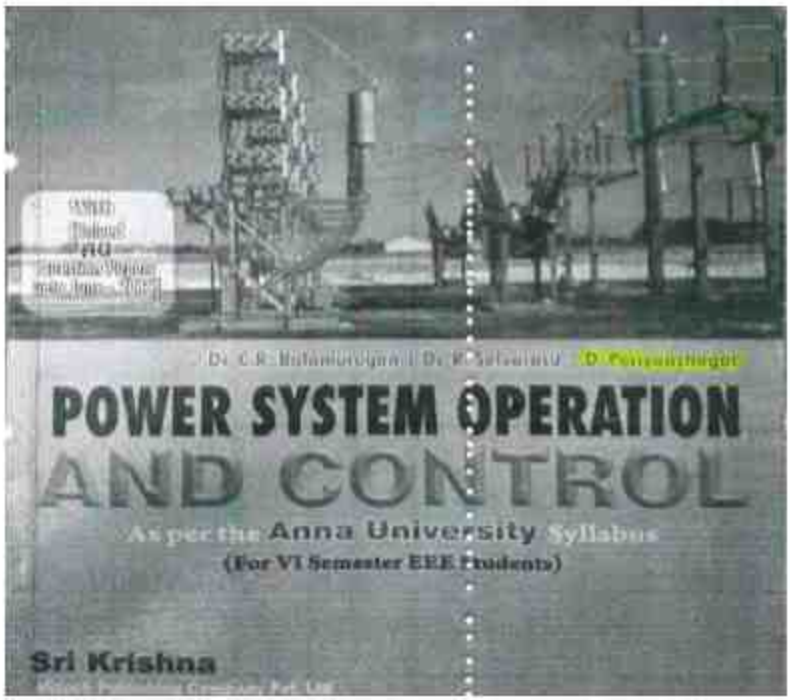
Linkage with Solamalai College of Engineering and Stella Mary's College of Engineering

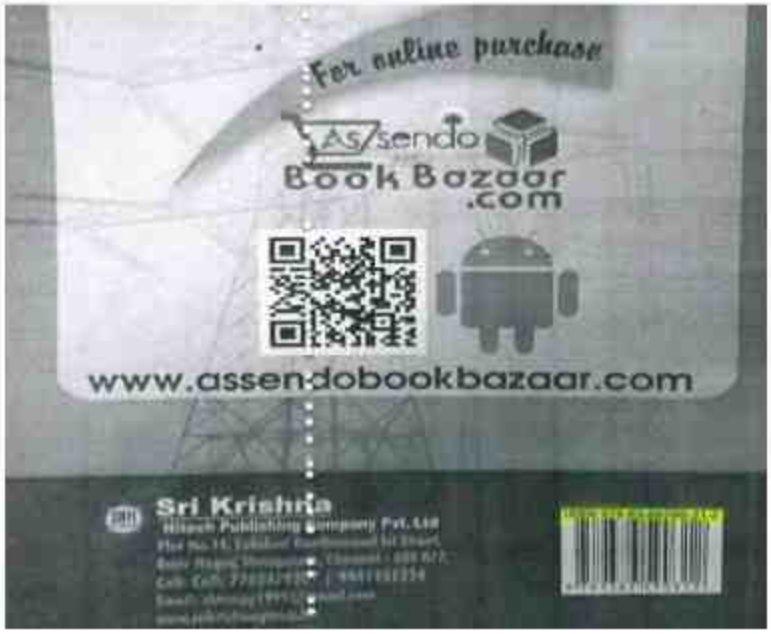
63. Book Publication in collaboration with other Institutions faculty members



Linkage with Karpagam College of Engineering and IFET College of Engineering

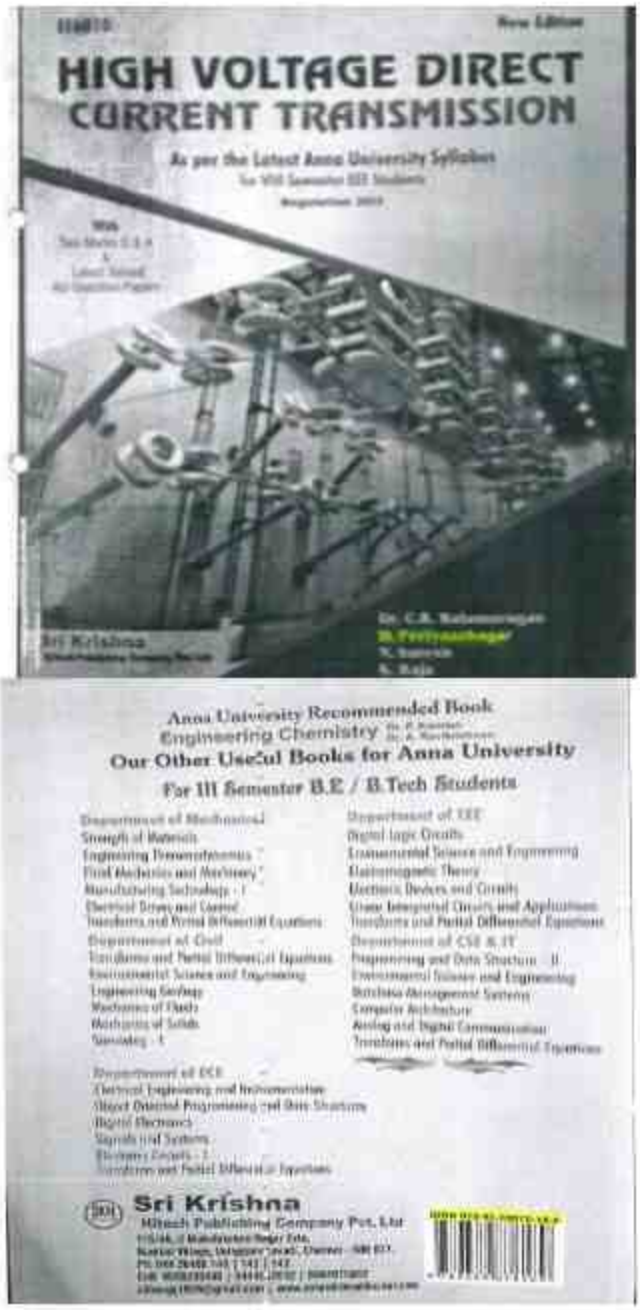
64. Book Publication in collaboration with other college faculty members





Linkage with Arunai Engineering College

65. Book Publication in collaboration with other college faculty members



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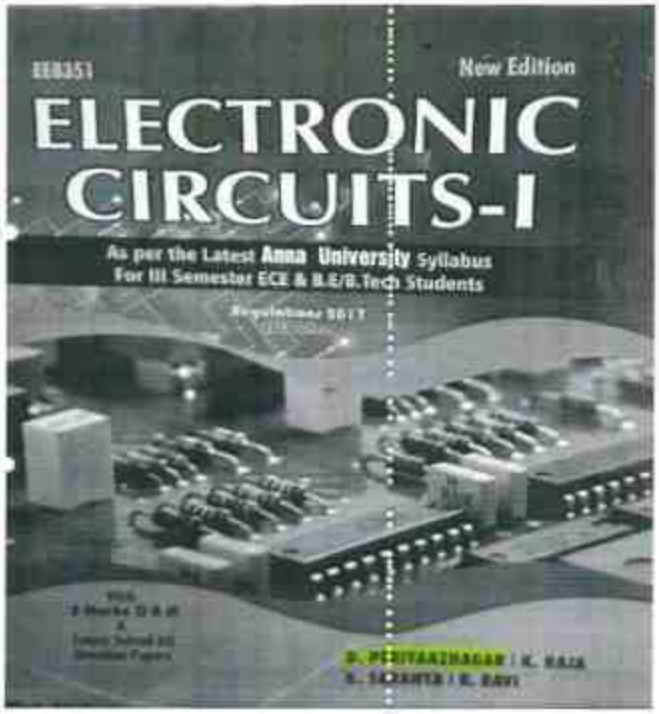

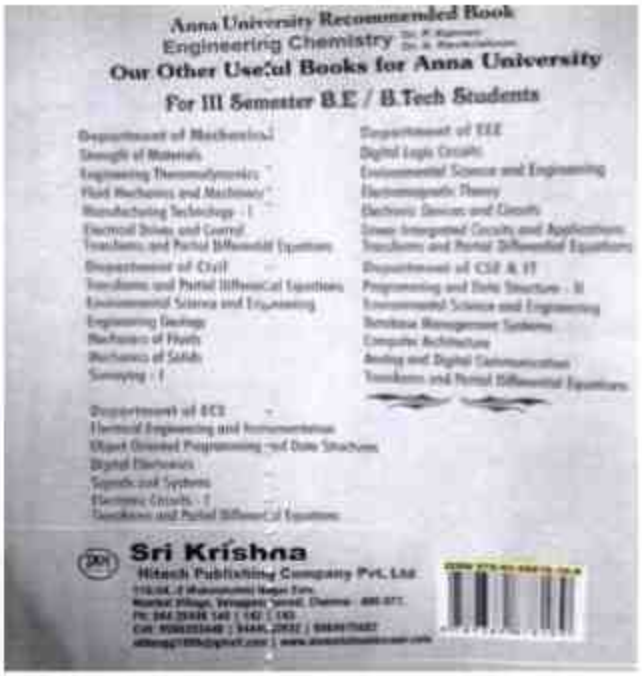

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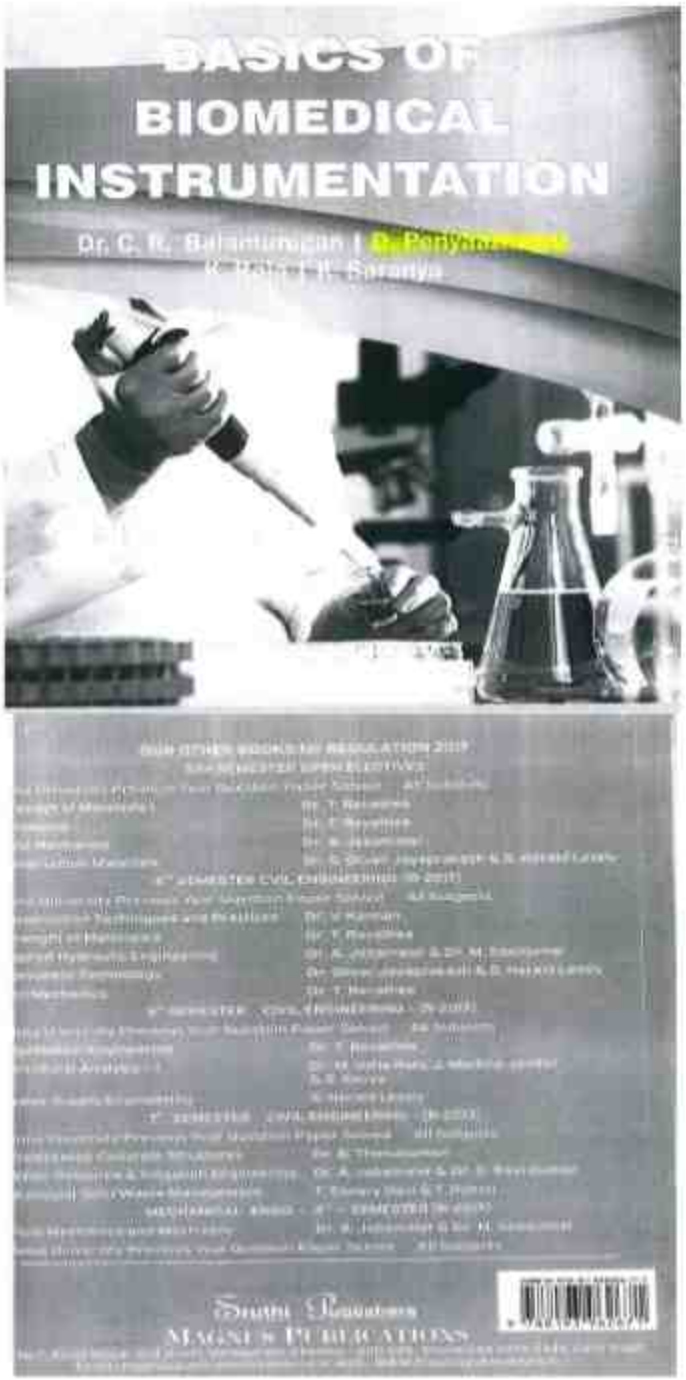
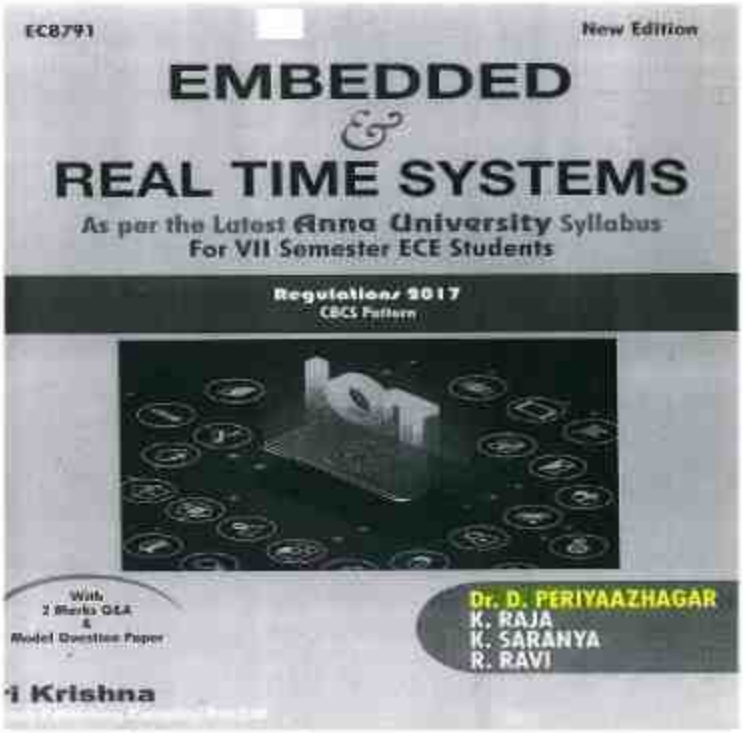
67. Book Publication in collaboration with other college faculty members



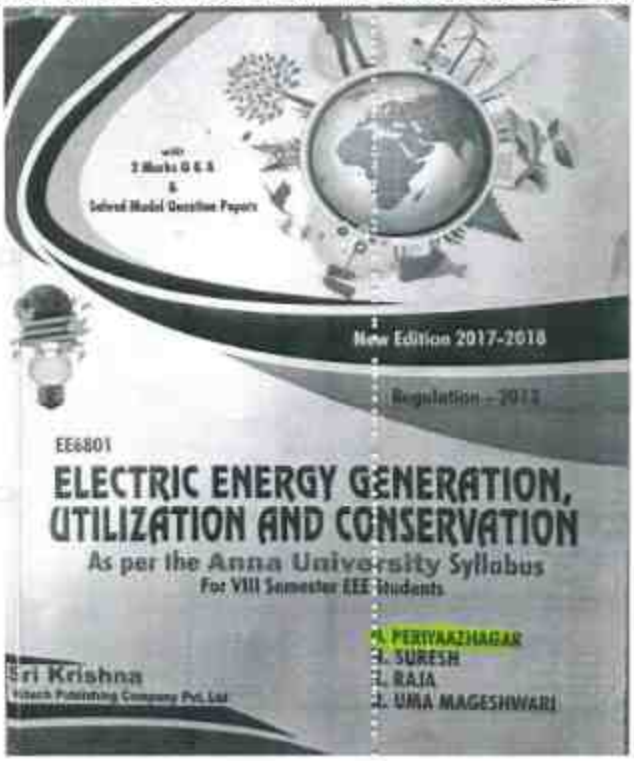
Linkage with Karpagam College of Engineering

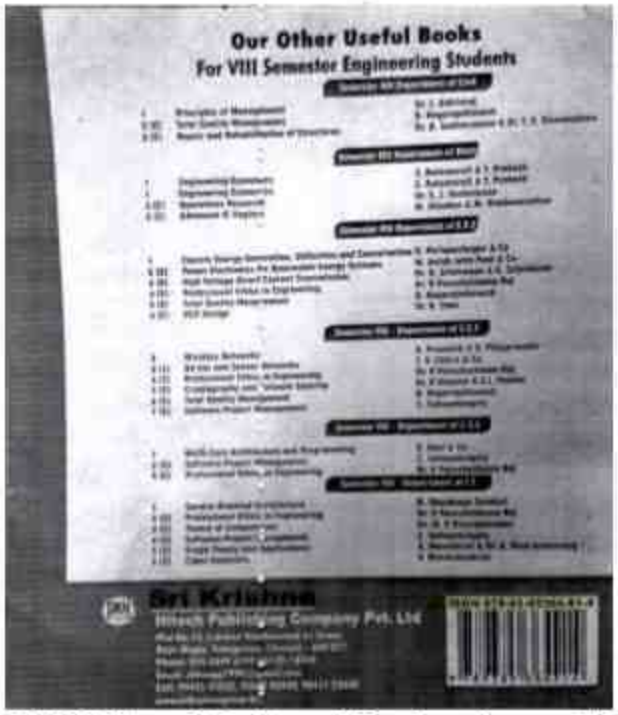
68. Book Publication in collaboration with other college faculty members



Linkage with Sri Ganesh College of Engineering and Technology

69. Book Publication in collaboration with other college faculty members





Linkage with Sri Ganesh College of Engineering and Technology

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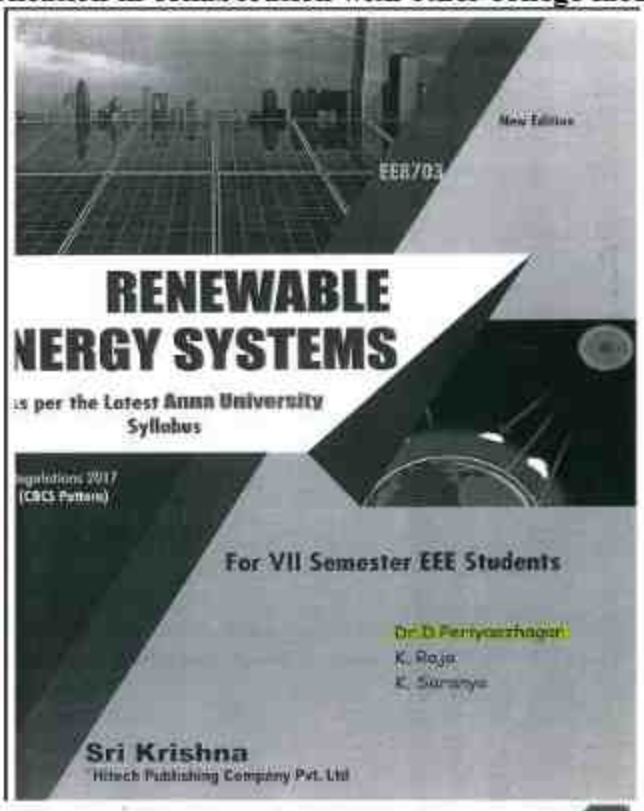

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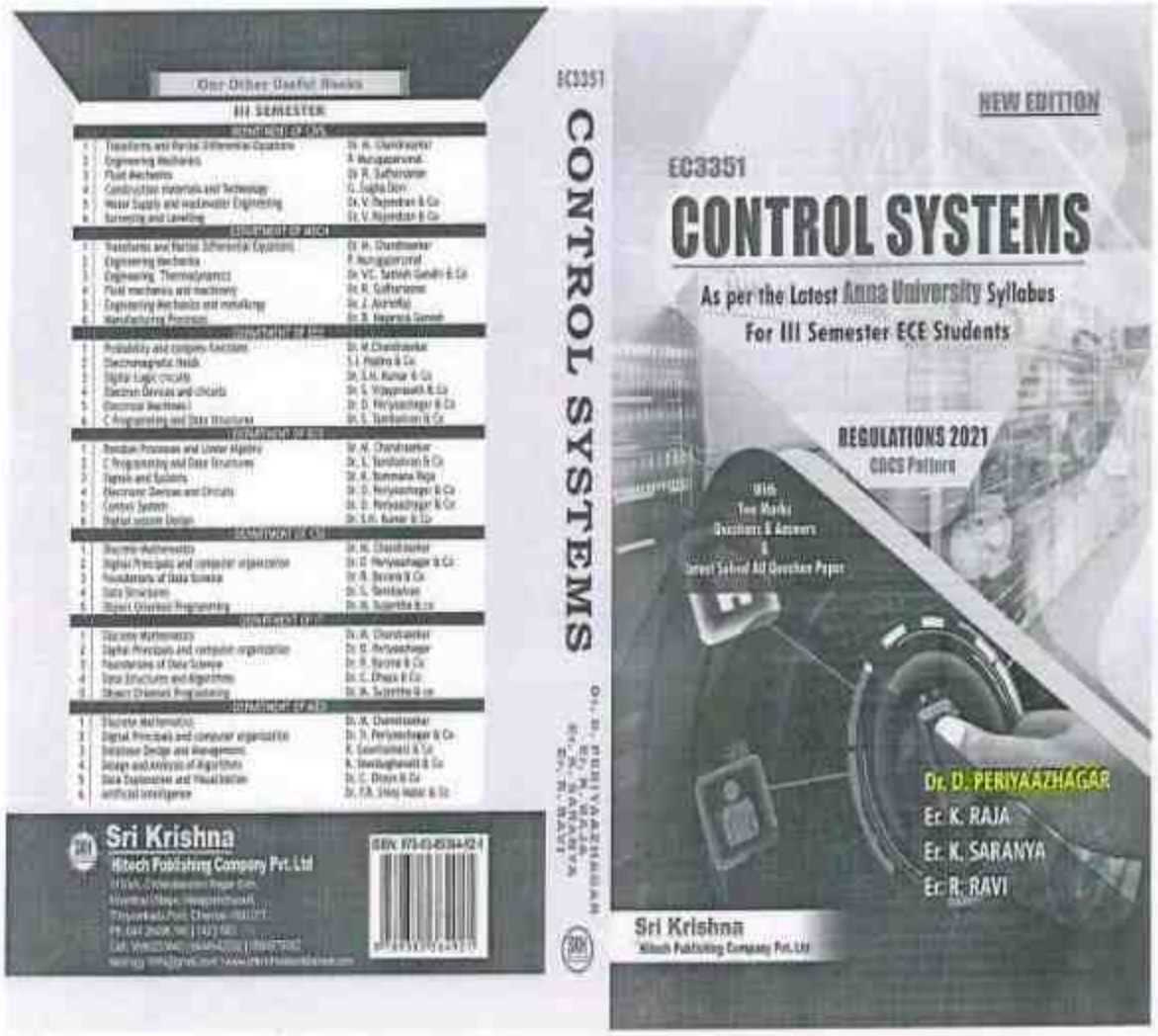
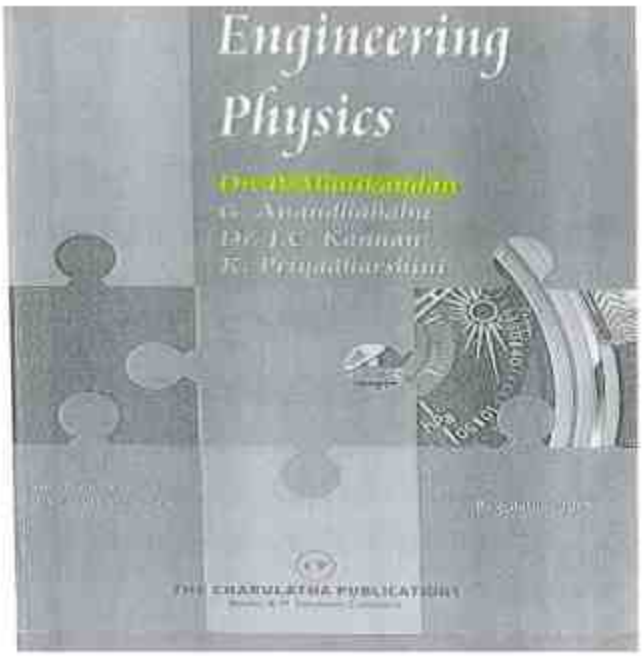
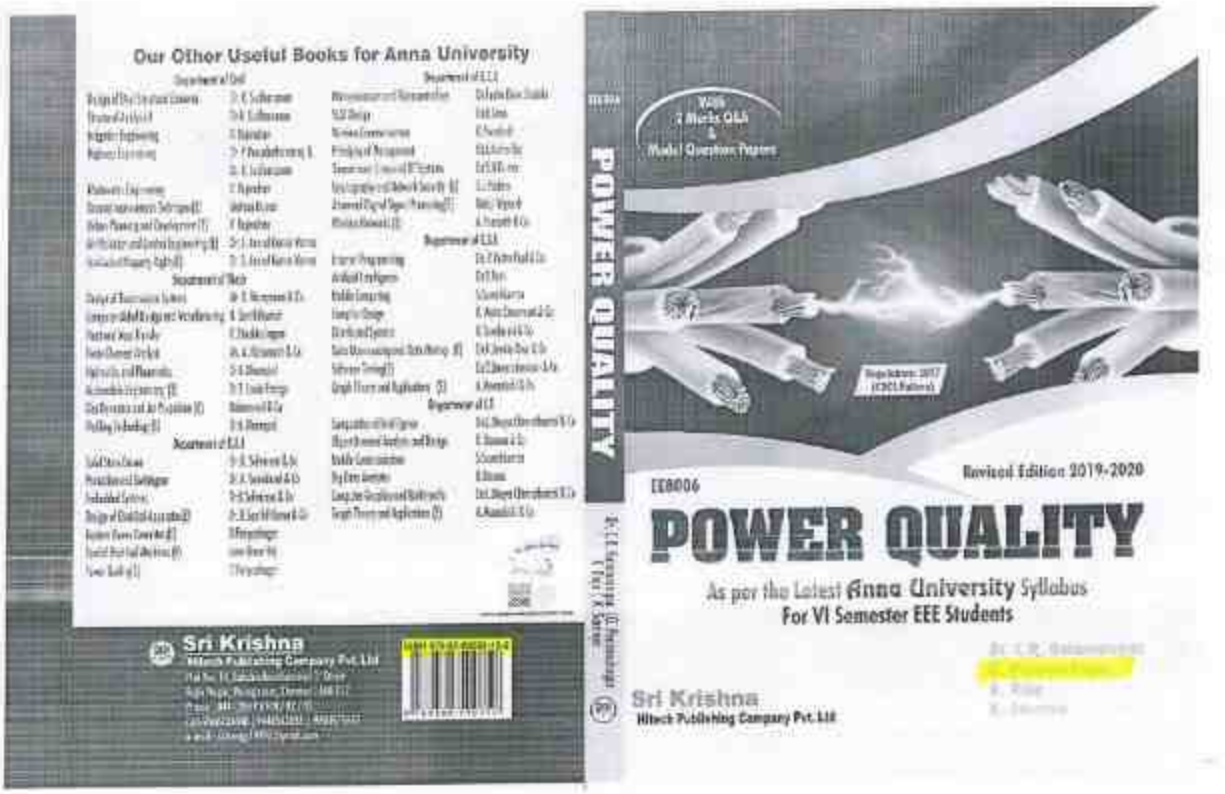


Linkage with Sri Ganesh College of Engineering and Technology

72. Book Publication in collaboration with other college faculty members

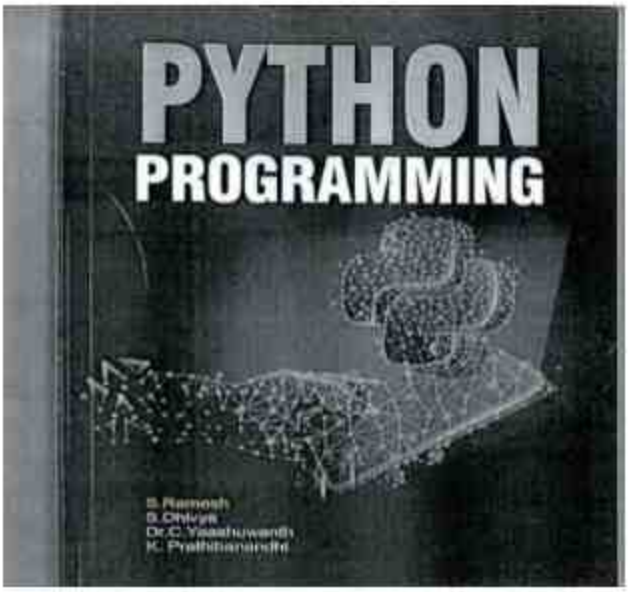


73. Book Publication in collaboration with other institute faculty members



Linkage with Sri Ganesh College of Engineering and Technology and PSV College of Engineering and Technology

74. Book Publication in collaboration with other college faculty members



Authors:
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Ms. S. Dhivya
Dr. C. Yaashuwanth
Ms. K. Prathibanandhi

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Mobile: 9790911374 / 9962578190
E-Mail: director@jpc.in.net

Linkage with Sri Venkateswara College of Engineering

75. Consultancy – Railways and Highways Contractors Dated:27.04.2022

Inward Letter

Bill receipt for testing

KRISHNASAMY COLLEGE OF ENGINEERING & TECHNOLOGY

ANAND NAGAR, S.KUMARAPURAM, CUDDALORE- 607109

DEPARTMENT OF CIVIL ENGINEERING

Receipt No.FC21/04307, Dt.27/04/2022 Date : 09.05.2022

To

Mr.M.RAJKUMAR,
HIGHWAY CONTRACTOR,
No:8-7, MR COMPLEX,
PAPER MILL ROAD, TAJ NAGAR,
SPB COLONY, ERODE- 10

09/05/22
V Dasarathkumar

9894077667

Test on Cement Sample

The physical properties of cement supplied by the client were investigated and results are given in Table1.

Table 1. Physical Properties of cement supplied

Sl.No.	Description	Values
1	Consistency	33%
2	Initial setting time	100 minutes
3	Final setting time	400 minutes
4	Specific gravity	2.54
5	Fineness of cement	8%
6	Soundness test	8 mm

Test Conducted by: 1.Er.C.Sureshkumar
2.Er.N.Vimalraj

Faculty In-Charge

Principal

PRINCIPAL
Krishnasamy College of Engineering & Technology
Anand Nagar, S.Kumarapuram
Cuddalore - 607 109

Testing report for the given sample

76. Consultancy – Mata Amritanandamayi Math Dated:10.03.2022

Mata Amritanandamayi Math

10-02-2022
Puducherry.

To,
Principal
Krishnasamy Engineering College
Cuddalore.

Respected Sir,
Subject:- Request for Concrete Cube test-Request

We are newly constructing Amrita Vidyalayam School in Karamanikuppam at Puducherry district. For this we have to measure the strength of the Concrete Cube. So Cube test is required for this. So we kindly request you to approve the Cube test in your College Lab. The Cubes were cast on 2/02/2022. 1:1.5:2 design mix M25 after seven days. Size (0.15 x 0.15 x 0.15)

Vinoth. P

Inward Letter

RECEIPT

Bill receipt for testing

KRISHNASAMY
College of
ENGINEERING & TECHNOLOGY
Approved by AICTE & Affiliated to Anna University
Anand Nagar, Nellikuppam Main Road, S. Kumarapuram, Cuddalore - 607 109, Tamil Nadu.
(04142) 285 601 - 604 www.kcet.in info@kcet.in

KRISHNASAMY COLLEGE OF ENGINEERING & TECHNOLOGY
(Affiliated to Anna University)
CUDDALORE – 607 109
DEPARTMENT OF CIVIL ENGINEERING

TEST REPORT

Receipt No:FC21/01279 DATE: 10.03.2022

Issued to : The incharge,
Amirtha Vidyalayam,
ECR Road,
Kirumambakkam,
Puducherry – 607 402

Properties of Cement Concrete Cube for 7 days

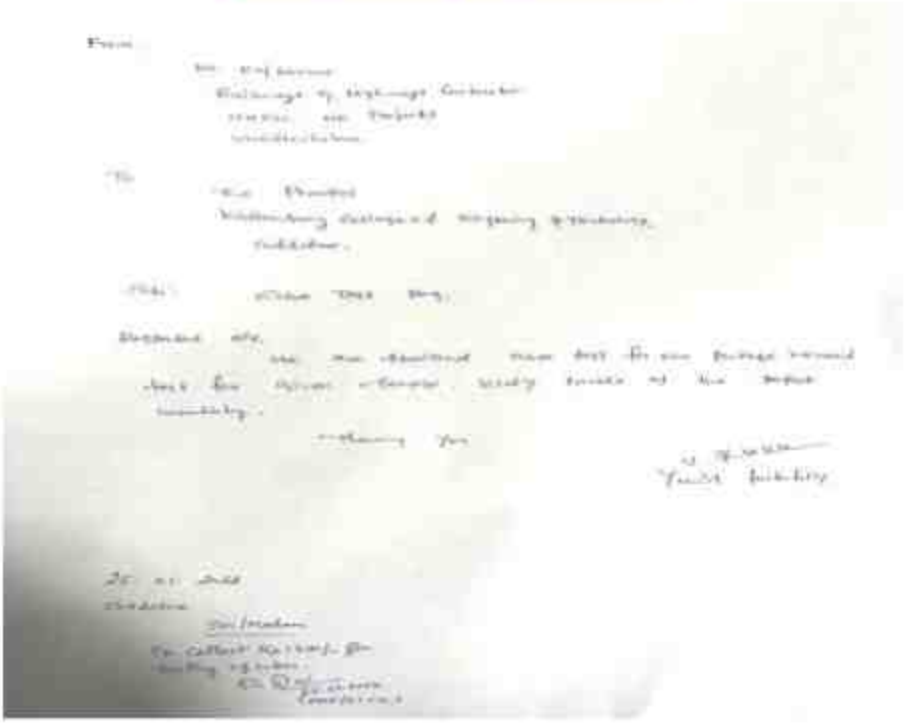
S. No	Mark on the Specimen	Grade of Concrete	Date of Casting	Date of Testing	Weight of Cube (kg)	Ultimate Load (kN)	Compressive Strength (N/mm^2)
1	02.03.2022	M25	02.03.2022	08.03.2022	8.650	290	12.88
2	02.03.2022	M25	02.03.2022	08.03.2022	8.850	220	9.77
3	02.03.2022	M25	02.03.2022	08.03.2022	8.590	250	11.11

P. Dinesh
(Er.P.DINESH KUMAR)
ASSISTANT PROFESSOR OF CIVIL ENGG.

Head of the Department
Civil Engg.

Testing report for the given sample

77. Consultancy – Railways and Highways contractor Dated: 25.01.2022



Inward Letter

KRISHNASAMY COLLEGE OF ENGG & TECHNOLOGY
ANAND NAGAR NELLIKUPPAM MAIN ROAD S.KUMARAPURAM CUDDALORE 607107
Phone:04142285601 Fax:04142280034

RECEIPT

Receipt No: [illegible] Date : 25/01/2022

Name : M.RAJ KUMAR/ CONTRACTOR/DE Class :

Particulars	Amount
TESTING CHARGES	1,050.00
Total	1,050.00

Amount in Words : Rupees One Thousand Three Hundred and Fifty Only

Cashier

Bill receipt for testing

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DEPARTMENT OF CIVIL ENGINEERING

Receipt No: FC21/02809 /25/01/2022 Date:31.01.2022

To

Mr.M.Rajkumar,
Railway & Highway contractor,
Thenpennai River,
Manjakuppam,
Cuddalore-607 001

Test on Cement Sample

The cement sample supplied by the client were investigated and results are given in Table1.

Table 1. Test on Given Cement Sample

SLNo.	Description	Values	Remarks
1	Consistency	26%	Tested results are unsatisfactory and not recommended for massive projects.
2	Initial setting time	75 minutes	
3	Final setting time	600 minutes	
4	Specific gravity	3.81	
5	Fineness of cement	5%	
6	Soundness test	8 mm	

Faculty In-charge

Principal

Testing report for the given sample

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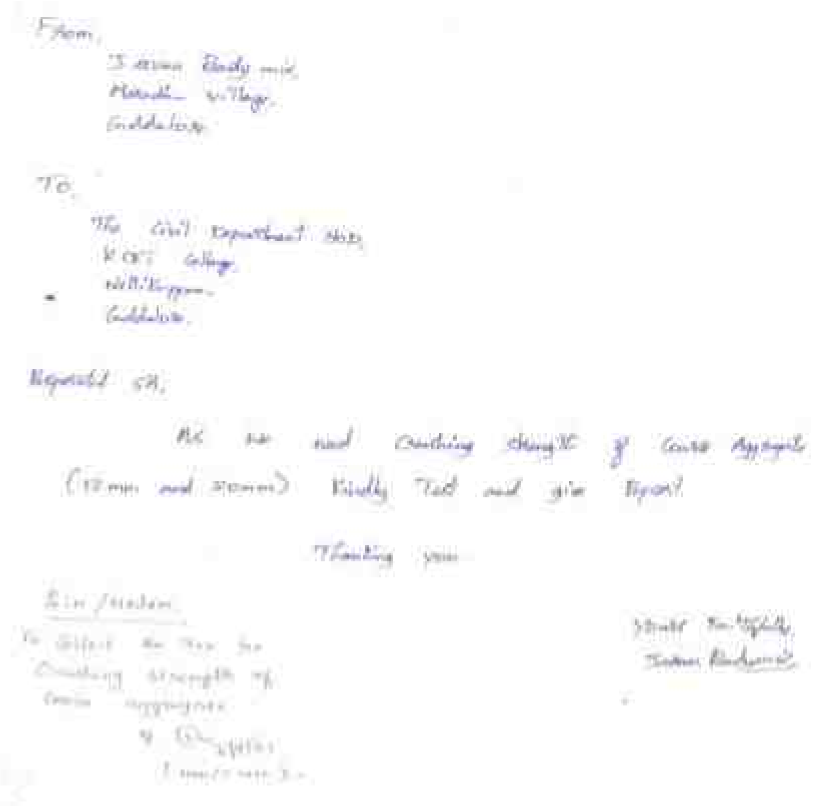
78. Consultancy – Jeevan Ready Mix Concrete Dated: 06.09.2021



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KRISHNASAMY COLLEGE OF ENGINEERING & TECHNOLOGY
CUDDALORE – 607 109

CIVIL ENGINEERING DEPARTMENT

Receipt No: FC21/00036 dt 06.09.2021

To: M/s. Jeevan Ready Mix Concrete
Home Guards Nagar,
Behind Krishnasamy Engineering College,
Marudhadu village,
Cuddalore.

Date: 15.09.2021

Sub: Crushing test of coarse aggregate – Reg.

S. No	Size of aggregate	Weight of empty mould (kg)	Weight of mould with aggregate (kg)	Weight of aggregate (kg)	Date of Testing	Weight of fraction passing through (kg)	Crushing value	Remarks
1	12mm	10.17	12.9	2.73	09.09.2021	0.158	5.7%	As per IS: 456-2000, the test results are satisfactory
2	20mm	10.17	12.69	2.5	09.09.2021	0.110	4.4%	

(The sample was not drawn by KCET)

Faculty In-charge

Principal
PRINCIPAL
Krishnasamy College of
Engineering & Technology
Kanji Kumarapuram
Cuddalore - 607 109.

Testing report for the given sample

79. Consultancy – M.R.C. Mills Private Limited Dated: 01.04.2021

Inward Letter

Bill receipt for testing

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Anand Nagar, Nellikuppam Main Road, S. Kumarapuram, Cuddalore - 607 109, Tamil Nadu.
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KRISHNASAMY COLLEGE OF ENGINEERING & TECHNOLOGY
CUDDALORE – 607 109
DEPARTMENT OF CIVIL ENGINEERING

Receipt No: PC20/02940 dt 1.04.2021

To: MRC MILLS PVT LTD. SITE,
Cuddalore -OT

Date: 1.04.2021

Sub: Testing of Bricks – Reg.

S. No	Mark on the Specimen	Date of Testing	Weight of Brick (kg)	Ultimate Load (kN)	Compressive Strength (N/mm^2)
1	RPS	01/04/2021	2.857	130	5.65
2	RPS	01/04/2021	2.927	100	4.34
3	RPS	01/04/2021	2.875	111	4.82
4	RSH	01/04/2021	3.080	64	2.78

(Sample not drawn by KCET)

Faculty In-charge

Principal
PRINCIPAL
Krishnasamy College of Engineering & Technology
Anand Nagar, S. Kumarapuram
Cuddalore - 607 109.

KRISHNASAMY COLLEGE OF ENGINEERING & TECHNOLOGY
CUDDALORE – 607 109
DEPARTMENT OF CIVIL ENGINEERING

Receipt No: PC20/02939 dt 1.04.2021

To: MRC MILLS PVT LTD. SITE,
Cuddalore -OT

Date: 1.04.2021

Sub: Testing of Bricks – Reg.

S. No	Mark on the Specimen	Date of Testing	Weight of Brick (kg)	Ultimate Load (kN)	Compressive Strength (N/mm^2)
1	ARS	01/04/2021	3.140	84	3.63
2	ARS	01/04/2021	3.022	76	3.30
3	ARS	01/04/2021	3.027	77	3.34

(Sample not drawn by KCET)

Faculty In-charge

Principal
PRINCIPAL
Krishnasamy College of Engineering & Technology
Anand Nagar, S. Kumarapuram
Cuddalore - 607 109.

Testing report for the given sample

80. Consultancy – Tamilnadu Water Investment Company Limited Dated:12.02.2020

Tamilnadu Water Investment Company Limited

To

The Principal,

Sri Krishnasamy Engineering College,

Nellikuppam Main Road,

Cuddalore

Sir,

With Regards,

TLWIMC/TWIC/Cuddalore

Inward Letter

KRISHNASAMY COLLEGE OF ENGINEERING & TECHNOLOGY

RECEIPT

Particulars

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Bill receipt for testing

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KRISHNASAMY COLLEGE OF ENGINEERING & TECHNOLOGY
CUDDALORE – 607 109

DEPARTMENT OF CIVIL ENGINEERING

Receipt No: FC19/04072 dt 14/02/2020

To: Tamilnadu Water Investment Company Limited,
Bharathi Road, Cuddalore Municipali Building,
Cuddalore-607001
Email:twicowdcad@gmail.com

Date: 15/02/2020

Sub: Testing of Concrete Cubes – Reg.

S. No	Mark on the Specimen	Grade of Concrete	Date of Casting	Date of Testing	Weight of Cube (kg)	Ultimate Load (kN)	Compressive Strength (N/mm^2)
1	M-25-I 05/02/20	M25	05-02-2020	14-02-2020	8.445	508	22.57
2	M-25-I 05/02/20	M25	05-02-2020	14-02-2020	8.345	492	21.86
3	M-25-I 05/02/20	M25	05-02-2020	14-02-2020	8.420	530	23.55
4	M-25-II 05/02/20	M25	05-02-2020	14-02-2020	8.355	639	28.40
5	M-25-II 05/02/20	M25	05-02-2020	14-02-2020	8.440	469	20.84
6	M-25-II 05/02/20	M25	05-02-2020	14-02-2020	8.365	668	29.68

(Sample was drawn by A.L.T.)

Faculty In-charge

Received.
M. Manoharan.

Principal
PRINCIPAL
Krishnasamy College of
Engineering & Technology
Anand Nagar, Nellikuppam
Cuddalore - 607 109

Testing report for the given sample

81. Consultancy – Unios Infracon Pvt. Ltd. Dated: 11.06.2019

UNIOS
INFRACON PVT LTD

From
Unios Infracon Pvt Ltd,
Neyveliite Multispecality hospital project,
SN chavadi,
Cuddalore.

To
Head of the Department,
Krishnasamy engineering college,
Nellikuppam main road,
Cuddalore.

Respected sir,
Sub: regarding seeking permission for cube test.
Sir please give us permission for doing compression test for cube in your college laboratory with test report, kindly approve for the test.
Thanking you,

With regards,
Project Head
R.Sekar
Unios Infracon Pvt Ltd.

Corporate Office:
25/18, G1 2nd Cross Street, S & P Gardens, Nolambur, Chennai – 600 095, Phone: 044- 486 333 73

Inward Letter

DUPLICATE

KRISHNASAMY COLLEGE OF ENGINEERING & TECHNOLOGY
NELLIKUPPAM MAIN ROAD - S.KUMARAPURAM CUDDALORE - 607109
Phone:04142285601 Fax:04142290394

RECEIPT

Receipt No. FC19/00014 Date : 11/06/2019

Name : UNIOS INFRACON PVT LTD Class : CIVIL

Particulars	Amount
TESTING CUBES	360.00
total	360.00

Amount in Words : Rupees Three Hundred and Sixty Only

Cashier

Bill receipt for testing

KRISHNASAMY
College of
ENGINEERING & TECHNOLOGY
Approved by AICTE & Affiliated to Anna University
Anand Nagar, Nellikuppam Main Road, S. Kumarapuram, Cuddalore - 607 109, Tamil Nadu.
(04142) 285 601 - 604 www.kcet.in info@kcet.in

KRISHNASAMY COLLEGE OF ENGINEERING & TECHNOLOGY
CUDDALORE – 607 109
DEPARTMENT OF CIVIL ENGINEERING

Receipt No: FCT/00814 dt 11/06/2019

Date: 12.06.2019

To: Unios Infracon Pvt Ltd,
Surendhira Multispeciality hospital project,
SN chavadi,
Cuddalore.

Sub: Testing of Concrete Cubes – Reg.

S. No	Mark on the Specimen	Grade of Concrete	Date of Casting	Date of Testing	Weight of Cube (kg)	Ultimate Load (kN)	Compressive Strength (N/mm²)
1	10-5-19 Roof M25	M25	10/05/19	11/06/19	8.535	513	22.80
2	10-5-19 Roof M25	M25	10/05/19	11/06/19	8.385	538	23.91
3	10-5-19 Roof M25	M25	10/05/19	11/06/19	8.615	574	25.51

(Sample are drawn by KCET)

Faculty In-charge

Principal

PRINCIPAL
Krishnasamy College of
Engineering & Technology
South Kumarapuram
Cuddalore – 607 109.

Received by
B. Ramesh
S. Venkatakrishnan

Testing report for the given sample

82. Consultancy – Citizen Consumer and Civic Action Group

C A G
Citizen consumer and civic Action Group

New #246 (Old #277-B), TTK Road (J.J.Road)
Alwarpet, Chennai 600 018.
Phone : +91-44-2499 4458/2498 0387
Fax : 91-44-2499 4458
Email : helpdesk@cag.org.in
Website : www.cag.org.in

Consultancy Agreement

Between Prof. S. Karthikeyan, Nodal Officer - Centre for Innovation & Entrepreneurship, Krishnasamy College of Engineering & Technology, Cuddalore - 607 109

and

Citizen consumer and civic Action Group (CAG)

From June 2019 to February 2020

The Air Quality Monitoring Initiative is an effort by CAG to develop a reliable database on the ambient air quality ($PM_{2.5}$ and PM_{10}) levels near industrial locations in Tamil Nadu. As part of this initiative, CAG has installed five outdoor air quality monitoring devices in households/ farms/ small commercial establishments in the district of Cuddalore, with your assistance.

We appreciate the support extended by Prof. S. Karthikeyan, Nodal Officer - Centre for Innovation & Entrepreneurship, Krishnasamy College of Engineering & Technology, Cuddalore - 607 109 (referred to as "**Local Partner**" for the rest of the text of this agreement), in identifying locations and installing the devices in the past, and wish to extend the engagement. We look forward to your continued support in our endeavour to study air quality in your region.

For the purpose of deployment:

a. **Local Partner** will take on the responsibility of identifying alternative locations for monitors if an installed location is not found suitable for any reason. In such a case, CAG, will provide the assistance it usually does, for re-installing the device in the new location. CAG will provide the devices, SIM cards and details of villages/towns or parts thereof, suitable for installation.
b. During and after the process of redeployment, the steps detailed in **Annexure 1** will be adopted.
c. In case the device has to be returned for any reason, including for resetting, calibration, or undertaking repairs, **Local Partner** shall arrange for shipping it to the CAG office in Chennai. The shipment cost shall be reimbursed at actuals by CAG.

KRISHNASAMY
College of
ENGINEERING & TECHNOLOGY
Approved by AICTE & Affiliated to Anna University
Anand Nagar, Nellikuppam Main Road, S. Kumarapuram, Cuddalore - 607 109, Tamil Nadu.
(04142) 285 601 - 604 www.kcet.in info@kcet.in

d. **Local Partner** shall be the primary point of contact for the households/farms/commercial establishments where the device shall be installed. **Local Partner** shall, in consultation with CAG, try and resolve any issue that may arise with the device or its effective functioning, within one week of identification of the issue.
e. **Local Partner** will be required to share fortnightly updates about the installation sites, to ensure the maintenance of the monitoring devices. Such updates will have to be shared with CAG in the form of photographs and email.
f. **Local Partner,** after communicating to CAG, shall visit the installation sites in case of any issue that may arise with the device or its effective functioning, and share the details of the same with CAG.
g. The data generated from this initiative will be available in predefined formats on AirVeda website for any portal visitors and also on the Airveda mobile app. Any party – including the **Local Partner** - can use this publically available data for any non-commercial purpose with due acknowledgement to CAG.
h. **Local Partner** shall ensure that the device location is not changed without prior explicit permission from CAG.
i. All documents' forms duly filled during each deployment will be returned to CAG after every deployment.
j. The cost of devices and maintaining network connectivity will be borne by CAG.
k. The households will be paid a compensation for the electricity consumed by the device at a rate pre-decided by CAG, specified below.

CAG understands that the process of redeployment requires time and hence, the process of deploying a device can take up to one week. CAG will be happy to compensate the **Local Partner** for the support extended by contributing a sum of Rs.22,500/- all inclusive. The total amount of Rs.22,500/- will be paid in equal installments of Rs.7,500/- at the end of three, six and nine months of the agreement.

The households/farms/commercial establishments where the device is installed shall be paid Rs.600/- per year, for hosting the device and keeping it continuously switched ON. This amount shall be paid in installments of Rs.150/- at the end of three, six, nine months of the agreement.

Name : S. Karthikeyan, Nodal Officer

For: Centre for Innovation & Entrepreneurship, Krishnasamy College of Engineering & Technology, Cuddalore

Signature:

Date: 24 - 04 - 2017

Nodal Officer-Coordinator
Centre for Innovation & Entrepreneurship
Krishnasamy College of Engg. & Tech.
S.Kumarapuram, Cuddalore-607 109.

Name : Om Prakash Singh

For: Citizen consumer and civic Action Group (CAG)

Signature:

Date: 01 - 04 - 2017

CAG
Chennai

83. Consultancy – EICL Limited Dated: 03.05.2019

eicl

May 3, 2019.

To
The Head of the Department
Civil Engineering
Krishnasamy Engineering College,
Cuddalore

Sir
We request you to do the sieve analysis of the two (Wet and Dry) sand sample attached with this letter as per IS 383 standards and report the same with matching to standards. The sieves to be used are as per IS 383.

Thanking you
Yours faithfully

(S. Suresh)
Dy Manager – Process

EICL LIMITED
Plot No. A/5 - 2, SIPCOT Industrial Estate,
Cuddalore Chidambaram Road, Cuddalore - 607 005.
Registered Office : TC 88/34 Vol. Thiruvananthapuram - 695 021, Kerala, India
www.eicl.in

Inward Letter

RECEIPT

PAID

Bill receipt for testing

KRISHNASAMY COLLEGE OF ENGINEERING & TECHNOLOGY
CUDDALORE – 607 109
DEPARTMENT OF CIVIL ENGINEERING

Receipt No: FC1&06811 dt 03/05/2019

Date: 13.06.2019

To: EICL limited
Plot no A/5-2, SIPCOT Industrial Estate
Cuddalore Chidambaram Road
Cuddalore-607005

Sub: Testing of Fine Aggregate – Reg.

Sieve Analysis of supplied Fine aggregate (Wet)

Sl. No.	Sieve size (mm)	Weight of sample (g)	% weight	Cumulative	Percentage	Remarks
1	10	0	0	0	100	The tested sand belongs to Zone-IV category as per IS 383
1	4.75	5	0.5	0.5	99.5	
2	2.36	15	1.5	2.0	98.0	
3	1.18	65	6.5	8.5	91.5	
4	0.600	115	11.5	20.0	80.0	
5	0.425	345	34.5	54.5	45.5	
6	0.300	145	14.5	69.0	31.0	
7	0.150	265	26.5	95.5	4.5	
8	0.075	40	4.0	99.5	0.5	
9	Pan	5	0.5	100	00	

Testing report for the given sample

84. Consultancy - EICL Limited Dated: 26.04.2019

eicl

Date: 26th April'19

To

The HOD,
Krishnaswamy college of engineering,
Cuddalore.

Subject: Requisition for Compressive strength test

Sir / Madam,

We have five sample of concrete blocks (M30- 29nos, M25- 30nos) and we request you to conduct compressive strength test as per Indian standards of given samples and provide the standard report as earlier as possible.

Thanking You,

Sincerely,

S.Suresh

Process department

EICL LIMITED
Plot No. A/5 - 2, SIPCOT Industrial Estate,
Cuddalore Chidambaram Road, Cuddalore - 607 005.

Registered Office : TC 60/34 Vell, Thiruvananthapuram - 695 521, Kerala, India

www.eicl.in

Inward letter

Bill receipt for testing

KRISHNASAMY
College of
ENGINEERING & TECHNOLOGY
Approved by AICTE & Affiliated to Anna University
Anand Nagar, Nellikuppam Main Road, S. Kumarapuram, Cuddalore - 607 109, Tamil Nadu.
(04142) 285 601 - 604 www.kcet.in info@kcet.in

KRISHNASAMY COLLEGE OF ENGINEERING & TECHNOLOGY
CUDDALORE – 607 109
CIVIL ENGINEERING DEPARTMENT

Receipt No: FC18/06718 dt 26/04/2019

Date: 29.04.2019

To: M/S EICL LIMITED,
Plot no.A/5-2, SIPCOT Industrial Estate,
Cuddalore Chidambaram Road,
Cuddalore-607 005.

Sub: Testing of Concrete Cubes - Reg.

S. No	Mark on the Specimen	Grade of Concrete	Date of Casting	Date of Testing	Weight of Cube (kg)	Ultimate Load (kN)	Compressive Strength (N/mm²)
1	26.03.2019	M25	26.03.2019	26.04.2019	8.235	171	7.6
2	26.03.2019	M25	26.03.2019	26.04.2019	7.405	130	5.77
3	26.03.2019	M25	26.03.2019	26.04.2019	8.320	163	7.24
4	25.03.2019	M20	25.03.2019	26.04.2019	8.295	235	10.44
5	25.03.2019	M20	25.03.2019	26.04.2019	8.045	194	8.62

(Samples were drawn by KCET)

Faculty In-charge

Received
9490323700

Principal

PRINCIPAL
Krishnasamy College of Engineering & Technology
Anand Nagar, Nellikuppam
Cuddalore - 607 109

Testing report for the given sample

85. Consultancy – Prem Engineering Dated: 26.03.2019

PREM Engineering

PAN No: [illegible]
GSTIN : [illegible]
STATE : TAMILNADU

To :

The [illegible]
KCET
[illegible]

Respected sir,

Sub: [illegible]

[illegible]

Thank you.

From: Prem engineering & construction

Main Road, [illegible], Chidambaram - T.K., Cuddalore District.
email : [illegible], Cell : [illegible]

Inward Letter

DUPLICATE

KRISHNASAMY COLLEGE OF ENGINEERING & TECHNOLOGY
NELLIKUPPAM MAIN ROAD - S.KUMARAPURAM CUDDALORE - [illegible]
Phone:[illegible] Fax:[illegible]

RECEIPT

Receipt No: [illegible] Date : [illegible]

Name : PREM ENGINEERING Class : CIVIL

Particulars	Amount
TESTING [illegible]	[illegible]
TOTAL	[illegible]

Amount in words: [illegible]

PAID

CASHIER

Bill receipt for testing

KRISHNASAMY
College of
ENGINEERING & TECHNOLOGY
Approved by AICTE & Affiliated to Anna University
Anand Nagar, Nellikuppam Main Road, S. Kumarapuram, Cuddalore - 607 109, Tamil Nadu.
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KRISHNASAMY COLLEGE OF ENGINEERING & TECHNOLOGY
CUDDALORE – 607 109
CIVIL ENGINEERING DEPARTMENT

Receipt No: FC18/00222 dt 26.03.2019

To: M/s PREM Engineering & Construction,
Mainroad,Sirumbimangalam-post,Chidambaram T.K
CuddaloreDistrict
9842293753
Client Name : MRC Mills Pvt. Ltd, SIPCOT, Cuddalore.

Date: 26.03.2019

Sub: Testing of solid block – Reg.

Sample No.	Length of the block(L) in mm	Breadth of the block(B) in mm	Grade of Concrete	Date of Casting	Date of Testing	Weight of Brick (kg)	Ultimate Load (kN)	Compressive Strength (N/mm²)
1	405	150	M15	18.03.2019	26.03.2019	23.32	293	4.82
2	405	150	M15	18.03.2019	26.03.2019	25.375	206	3.39
3	405	150	M15	18.03.2019	26.03.2019	25.235	225	3.70

(Sample not drawn by KCET)

Faculty In-charge

Principal

Received
9659089914

Testing report for the given sample

86. Consultancy – EN-Tech Constructions Dated: 25.03.2019

EN-TECH CONSTRUCTIONS

Planners | Builders | Contractors

To

The Principal,

Thanking You

Yours faithfully,

Executive Engineer,

Inward Letter

DUPLICATE

RECEIPT

Particulars	Amount
[illegible]	[illegible]
Total	[illegible]

Bill receipt for testing

KRISHNASAMY
College of
ENGINEERING & TECHNOLOGY
Approved by AICTE & Affiliated to Anna University
Anand Nagar, Nellikuppam Main Road, S. Kumarapuram, Cuddalore - 607 109, Tamil Nadu.
(04142) 285 601 - 604 www.kcet.in info@kcet.in

KRISHNASAMY COLLEGE OF ENGINEERING & TECHNOLOGY
CUDDALORE – 607 109
CIVIL ENGINEERING DEPARTMENT

Receipt No: FC1/0/0108 dt 25.03.2019 — To: M/s En Tech Construction, 15/E, Uppiravadi St, manjakuppam, Cuddalore — Date: 25/03/2019
Site Name : Rathiya Nagar

Sub: Testing of Brick – Reg.

Sample . No.	Length of the brick(L) in mm	Breadth of the brick(B)in mm	Depth of the Brick(D) in mm	Date of Testing	Weight of Brick (kg)	Ultimate Load (kN)	Compressive Strength (N/mm²)
1	230	105	70	25.03.2019	3.675	505	15.11

(Sample are drawn by KCET)

Faculty In-charge

Recived @ 9500292390

Principal

PRINCIPAL
Krishnasamy College of Engineering & Technology
Anand Kumarapuram
Cuddalore - 607 109

KRISHNASAMY COLLEGE OF ENGINEERING & TECHNOLOGY
CUDDALORE – 607 109
CIVIL ENGINEERING DEPARTMENT

Receipt No: FC1/0/0108 dt 25.03.2019 — To: M/s En Tech Construction, 15/E, Uppiravadi St, manjakuppam, Cuddalore — Date: 25/03/2019
Site Name : Chavadi

Sub: Testing of Concrete Cubes – Reg.

S. No	Mark on the Specimen	Grade of Concrete	Date of Casting	Date of Testing	Weight of Cube (kg)	Ultimate Load (kN)	Compressive Strength (N/mm²)
1	M-sand	M20	03.03.2019	25.03.2019	8.330	358	15.91

(Sample are drawn by KCET)

Faculty In-charge

Principal

PRINCIPAL
Krishnasamy College of Engineering & Technology
Anand Kumarapuram
Cuddalore - 607 109

Recived @ 9500292390

Testing report for the given sample

87. Consultancy – Feedback Infra Private Limited Dated: 13.03.2019


FEEDBACK INFRA

To

JAYAM.T.
Project Manager (PMC)
Feedback Infra Pvt. Ltd.

Inward Letter

KRISHNASAMY COLLEGE OF ENGINEERING & TECHNOLOGY
NELLIKUPPAM MAIN ROAD - S.KUMARAPURAM CUDDALORE - 607109
Phone:04142285601 Fax:04142290394

RECEIPT

Receipt No: TC18/05048 Date : 13/03/2019

Name : KEC INTERNATIONAL, CUDDAL Class : CIVIL

Particulars	Amount
TESTING CUBES COARSE AGGREGATE TEST	400.00
Total	400.00

Amount in Words : Rupees Four Hundred Only

PAID

Head of the Department
Civil Engg

Cashier

Bill receipt for testing

KRISHNASAMY
College of
ENGINEERING & TECHNOLOGY
Approved by AICTE & Affiliated to Anna University
Anand Nagar, Nellikuppam Main Road, S. Kumarapuram, Cuddalore - 607 109, Tamil Nadu.
(04142) 285 601 - 604 www.kcet.in info@kcet.in

KRISHNASAMY COLLEGE OF ENGINEERING & TECHNOLOGY
CUDDALORE – 607 109

DEPARTMENT OF CIVIL ENGINEERING

Receipt No: FC18/05040 dt 13.03.2019

To: M/s FEEDBACK INFRA PVT. LTD.
Project Manager (PMC)
VM-MV-TJ/TVR-RE Project.

Date: 13.03.2019

Laboratory Name : Concrete and highway engineering lab
Location/Source : CUPJ/Thiruvakarai
Weight of Sample : 29.870Kg
Sample No : 1

Date of Sampling : 13.03.2019
Date of Testing : 13.03.2019
Sampled By : KEC
Tested By : KCET

Sub: Testing of Coarse Aggregate – Reg.

S. No	IS Sieve (mm)	Weight Retained (kg)	% of weight Retained	Cumulative Retained (%)	% Retained limit(as per IRS-GE-1slip no -2)
1	65	0	0	0	0-05
2	40	17.71	59.29	59.29	40-60
3	20	12.135	40.63	99.92	98-100
4	Pan	0.025	0.08	100	100

Faculty In-charge

Principal

Testing report for the given sample

88. Consultancy – KEC International Limited Dated: 13.07.2018

KEC

KEC International Limited
[illegible]

Ref: KEC/ [illegible] Dated: 13.07.2018
To,
HOD/Civil
Krishnasamy College of Engineering and Technology
Anand Nagar, Nellikuppam Main Road
Cuddalore, Tamilnadu
Pin : 607 109

Sub: Design, Supply, Erection, Testing & Commissioning of 25 kV, 50 Hz, Single Phase Traction Over-head Equipment, Switching Stations, Traction Sub-stations, SCADA, Signal and Telecommunication works, General Electrical service works and Civil Engineering works i.e. Service Buildings, Quarters, Tower wagon sidings/sheds, and other associated works between [illegible] Tamil Nadu.- Compressive Strength Test of Concrete in Cube Moulds.

Reference: LOA No. [illegible] 20.04.2018

Dear Sir,

We take reference to the above mentioned project & LOA.

We want to conduct "Compressive Strength test" of concrete in cube moulds for Km 187.188 between Villupuram to Mayiladuthurai Railway electrification project.

Please issue us a test report in a valid format with signature of competent authority which should be sufficient for approval by our client RVNL (Rail Vikash Nigam Limited).

Yours Faithfully,

(Authorised Signatory)

Regd. Off.: RPG House, [illegible] Mumbai - [illegible]

RPG

Inward Letter

KRISHNASAMY COLLEGE OF ENGINEERING & TECHNOLOGY
NELLIKUPPAM MAIN ROAD - S.KUMARAPURAM CUDDALORE - 607109
Phone:04142285601 Fax:04142290394

RECEIPT

Receipt No: FC18/00510 Date : 13/07/2018

Name : KEC INTERNATIONAL LIMITED Class : CIVIL

Particulars	Amount
TESTING CUBES	360.00
Total	360.00

Amount in Words : Rupees [illegible] and Sixty Only

PAID

Cashier

Bill receipt for testing

KRISHNASAMY
College of
ENGINEERING & TECHNOLOGY
Approved by AICTE & Affiliated to Anna University
Anand Nagar, Nellikuppam Main Road, S. Kumarapuram, Cuddalore - 607 109, Tamil Nadu.
(04142) 285 601 - 604 www.kcet.in info@kcet.in

KRISHNASAMY COLLEGE OF ENGINEERING & TECHNOLOGY
CUDDALORE – 607 109
CIVIL ENGINEERING DEPARTMENT

Receipt No: FC18/00510 dt 13.07.2018

Date: 14.07.2018

To: M/s KEC International Limited,
8th floor, Building No.9A,
DLF Cyber City, DLF Phase-III,
Gurgaon-122 002.

Sub: Testing of Concrete Cubes – Reg.
Ref.: LOA No. RVNL/ED/P/MAS/VM-MV-TJ & MV-TVR RS/OT-01 dated 30.04.2018.

S. No	Mark on the Specimen	Grade of Concrete	Date of Casting	Date of Testing	Weight of Cube (kg)	Ultimate Load (kN)	Compressive Strength (N/mm²)
1	6/6/18 167/5	M10	06.06.2018	13.07.2018	9.015	836	37.15
2	6/6/18 167/5	M10	06.06.2018	13.07.2018	8.995	626	27.82
3	6/6/18 167/5	M10	06.06.2018	13.07.2018	9.195	837	37.20

(Samples sent drawn by KCET)

Faculty In-charge
Dr. N. PARTHIBESWARAN, M.E. (Structural Engg.), MIC, MIE, MISE, MISTE
Professor & Head
Department of Civil Engineering
Krishnasamy College of Engineering & Technology
Cuddalore - 607 109

Principal
PRINCIPAL
Krishnasamy College of Engineering & Technology
Kanji Kanchipuram
Cuddalore - 607 109

Testing report for the given sample

Elango

Digitally signed by Elango
DN: c=IN, o=Personal, title=3550, pseudonym=ffdef84faf2e4a8eafafb08e322dfe7b, 2.5.4.20=2a7905a4396f4300f736fdf2e8fc6af0c43725b5b0a690b75e1819283587537e, postalCode=607302, st=Tamil Nadu, serialNumber=978aa0d864f1622fab512498c042793859e565c25a736e14d92110054bc0ee5d, cn=Elango
Date: 2024.07.22 16:18:39 +05'30'
Adobe Acrobat version: 2023.006.20320