

SIRC.R.REDDY COLLEGE OF ENGINEERING

ELURU-534007, ELURU Dist., A.P., INDIA

ACCREDITED BY NBA, APPROVED BY ALL INDIA COUNCIL FOR TECHNICAL EDUCATION, NEW DELHI,
PERMANENTLY AFFILIATED TO JNTUK, KAKINADA

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Criteria 3.5.1

Details of MOU Collaborative Activities

A.Y.2021-22

S.No	Name of Collaborative Agency with contact details	Date of Establishment	Duration	Area of Collaboration	List of Activities Conducted
1	Sri Venkateswara College of Engineering and Technology, Etcherla, Srikakulam	02-06-2021	1 Year	FDPs, Workshops, Seminars, Conferences	A One Week FDP from 06-12-2021 to 11-12-2021
2	APSSDC (Siemens)	08-06-2021	2 Years	Trainings, Workshops, Internships	Skill Development Program 07-08-2023 to 19-08-2023
3	M/S Durga Fish Ponds, Eluru	10-07-2021	Lifetime	Collection And Utilization of food waste from hostels	Collection of edible waste proof available
4	Sri Vijaya Durga Traders , Eluru	10-07-2021	Lifetime	Waste paper, plastic collection	Collection of paper and plastic waste proof available
5	Priyadarshini Institute of Technology & Science, Chintalapudi, Duggirala Mandal, Guntur	02-08-2021	1 Year	FDPs, workshops, seminars, Conferences	A One Week FDP from 20-09-2021 to 25-09-2021
6	Samata Degree College , Visakhapatnam	12-08-2021	1 Year	FDPs, Workshops, Seminars, Conferences	Faculty Exchange from 07-01-2022 to 10-01-2022
7	IDEAL Institute Of Technology, VidyutNagar, Kakinada	23-08-2021	1 Year	FDPs, workshops, seminars, Conferences	A One Week FDP from 17-01-2022 to 22-01-2022

8	Skill Dzire Technologies Pvt Ltd , Hyderabad	30-11-2021	5 Years	Workshops , Training Programmes, Internships	Internship Certificate 18 th May 2023
9	Rajamahendri Institute Of Engineering And Technology, Rajamahendravaram	28-10-2021	1Year	FDPs, workshops, seminars, Conferences	A One Week FDP from 23-05-2022 to 28-05-2022 and 15- 11-2021 to 20-11- 2021
10	Visakha Institute Of Engineering & Technology , Visakhapatnam	18-11-2021	1Year	FDPs, workshops, seminars, Conferences	A One Week FDP from 20-09-2021 to 25-09-2021
11	Apply Volt , Vijayawada	03-01-2022	2 Years	Workshops , Training FDPs , Internships	A 3 Day Workshop on Analog and Digital Sensor Interfacing with FPGA Boards from 09-03-2023 to 11-03-2023
12	Efftronics Systems Pvt Ltd , Vijayawada	11-02-2022	1 Year	Training , Internships, Re cruitment	On Campus Recruitment Drive on 8-10-2021
13	St.Joseph Dental College , Duggirala , Eluru	28-04-2022	5 Years	Academic and Research collaboration, seminars, workshops , conferences	Design of disinfection Equipment and Paper published on Automation of Gutta – Percha Disinfection
14	TATTVA Exports and Imports Pvt Ltd , Annavaram	16-05-2022	4 Years	Training , Placements , Internships, Workshops , Industrial Visits	Industrial Visit Proof 08-08-2023
15	HIEE Powering Engineers Pvt Ltd, Hyderabad	12-05-2022	3 Years	Industrial Training and Visits, Internships, Guest Lectures	Internship 22-05-2022 to 21-06-2022

16	Efficens Systems Atlanta , USA	26-05-2022	2 Years	Technical Guidance , Recruitment , Program Management, Marketing	One Day Workshop on 21-10-2022
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N. S. S. S.
IQAC Coordinator



S. S. S.
Principal
Principal
Sir C R Reddy College of Engineering
ELURU - 534 007



SRI VENKATESWARA COLLEGE OF ENGINEERING & TECHNOLOGY

Accredited by NAAC with 'A' Grade

(Approved by AICTE, New Delhi; Affiliated to JNTUK, Kakinada; G.O.Ms.No. 101, Dt. 09-07-08)

NH-5, ETCHERLA-532410, SRIKAKULAM(Dist.), ANDHRA PRADESH

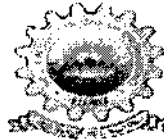
Web : www.svcet.info, Email : principal_svcet@yahoo.com

MOU

This Memorandum of Understanding (MOU) is made on this 2nd JUNE, 2021 between:

Sri Venkateswara College of Engineering and Technology, Etcherla, Srikakulam Andhra Pradesh, 532410 represented by its Principal Dr. S C V Ramana Murthy Naidu, Head of the Institution, here in after referred to as SVCET;

AND



Sir C R Reddy College of Engineering, Vatluuru, Eluru, Andhra Pradesh, India, represented by its Principal, Dr.K.Venkateswara Rao, Head of the Institution here in after referred to as Sir CRRCOE.

Both SVCET and Sir CRRCOE are collectively referred to as the Parties and individually as a Party.

Whereas, SVCET is an institution offering various undergraduate and postgraduate programs in engineering disciplines with state-of-the-art infrastructure and facilities;

Whereas, Sir CRRCOE is an institution offering various undergraduate programs in engineering disciplines with state-of-the-art infrastructure and facilities;

Whereas, both the Parties are committed to enhancing the quality of engineering education and research through collaboration and cooperation;

Now Therefore, the Parties agree as follows:

1. Objectives

The objectives of this MOU are:

- To conduct joint FDPs, workshops, seminars, both national and International Conferences on topics of mutual interest and relevance.
- To share the resources, expertise and best practices of both the institutions.
- To facilitate the participation of faculty members and students of both the institutions in the FDPs, workshops and seminars, both National and International Conferences conducted by either institution.
- To explore the possibilities of joint research projects, consultancy services and publications.

2. Scope

The scope of this MOU covers the following areas:

- **FDPs:** The Parties will jointly organize FDPs on emerging topics and technologies in engineering disciplines. The FDPs will be designed to enhance the knowledge, skills and competencies of the faculty members of both the institutions. The FDPs will be conducted either online or offline or in a blended mode as per the convenience and availability of the resource persons and participants. The duration, frequency, venue, fees, certificates and other details of the FDPs will be decided mutually by the Parties.
- **Workshops:** The Parties will jointly organize workshops on practical aspects and applications of engineering concepts and tools. The workshops will be aimed at providing hands-on experience and exposure to the faculty members and students of both the institutions. The workshops will be conducted either online or offline or in a blended mode as per the convenience and availability of the resource persons and participants. The duration, frequency, venue, fees, certificates and other details of the workshops will be decided mutually by the Parties.
- **Seminars:** The parties will jointly organize seminars on current issues and trends in engineering domains. The seminars will be intended to provide a platform for sharing ideas, insights and experiences among the faculty members and students of both the institutions. The seminars will be conducted either online or offline or in a blended mode as per the convenience and availability of the resource persons and participants. The duration, frequency, venue, fees, certificates and other details of the seminars will be decided mutually by the Parties.
- **Research and Incubation Cell:** The parties will explore the possibilities of undertaking joint research projects, consultancy services and publications in the areas of mutual interest and relevance. The parties will identify the research topics, objectives, methodology, funding, timeline, deliverables and other aspects of the research projects. The parties will also seek to publish the research outcomes in reputed journals and conferences. The parties will share the intellectual property rights, benefits and responsibilities arising from the research activities as per the agreed terms and conditions.

- **Exchange:** The parties will facilitate the exchange of faculty members and students for participating in the FDPs, workshops and seminars conducted by either party. The parties will also encourage the exchange of faculty members and students for pursuing research projects, consultancy services and publications. The parties will provide the necessary support and assistance to the visiting faculty members and students in terms of accommodation, transportation, access to facilities and resources, etc. The parties will also recognize the credits earned by the visiting faculty members and students as per the norms and regulations of their respective institutions.
- **National and International Conferences:** The parties will jointly organize National and International Conferences on current issues and trends in engineering domains. The background and context of the conference, such as the theme, objectives, expected outcomes, target audience. The roles and responsibilities of each party involved in the conference, such as the organizers, sponsors, speakers, participants. The terms and conditions of the collaboration, such as the duration, budget, resources, communication, reporting, evaluation. The signatures and dates of the authorized representatives of each party.

3. Coordination:

The parties will appoint a coordinator from each institution to oversee the implementation of this MOU. The coordinators will be responsible for:

- Communicating with each other on a regular basis to plan, execute and monitor the activities under this MOU.
- Liaising with the respective authorities, departments, faculty members and students of their institutions to facilitate the smooth functioning of the activities under this MOU.
- Resolving any issues or disputes that may arise during the course of this MOU.
- Preparing and submitting periodic reports on the progress and outcomes of the activities under this MOU.

The names and contact details of the coordinators are as follows:

<p><u>SVCET:</u> Address: Sri Venkateswara College of Engineering and Technology, Etcherla, Srikakulam Andhra Pradesh, 532410 Contact Details: 9440535787 E-mails: principal_svcet@yahoo.com Web: www.svcet.net</p>	<p><u>Sir CRRCOE</u> Name of the Coordinator: Dr M. KRISHNA Designation: Professor, CSE Dept, Sir CRRCOE Emailid:marlapallikrishna@gmail.com Contact No.: 9394501367</p>
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4. Duration

This MOU will come into effect from the date of signing by both the parties and will remain valid for a period of ONE year from **June 2021 to June 2022**. The parties may extend or renew this MOU by mutual consent in writing before the expiry of this MOU.

5. Termination

Either party may terminate this MOU by giving an advance written notice of three months to the other party. The termination of this MOU will not affect the ongoing activities under this MOU, unless otherwise agreed by both the parties.

6. Amendment

This MOU may be amended by mutual consent of both the parties in writing. Any amendment to this MOU will be signed by both the parties and will form part of this MOU.





7. Arbitration

In case of any dispute or difference arising out of or in connection with this MOU, the parties will try to resolve it amicably through consultation and negotiation. If the dispute or difference remains unresolved after 30 days of consultation and negotiation, then it will be referred to arbitration by a sole arbitrator appointed by mutual consent of both the parties. The arbitration will be conducted in accordance with the Arbitration and Conciliation Act, 1996 or any statutory modification or re-enactment thereof. The venue of arbitration will be Vijayawada, Andhra Pradesh. The language of arbitration will be English. The award of the arbitrator will be final and binding on both the parties.

8. Miscellaneous

- This MOU is not intended to create any legal or contractual obligations or liabilities on either party.
- This MOU is not intended to confer any rights or benefits on any third party.
- This MOU is subject to the laws of India and the jurisdiction of the courts at Vijayawada, Andhra Pradesh.
- This MOU is executed in two originals, one for each party.

IN WITNESS WHEREOF, both the Parties have signed this MOU on the date and place mentioned below:

<p>For SVCET Principal signature and name:  Dr S C V Ramana Murty Naidu Date: 02-06-2021 College Seal: Sri Venkateswara College of Engineering and Technology, Etcherla, Srikakulam - 532410 (A.P.)</p> 	<p>For Sir CRRCOE Principal signature and name:  Dr. K. Venkateswara Rao Date: 02-06-2021 College Seal: Sir C R Reddy College of Engineering, ELURU - 534 007</p> 
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Principal
Sri Venkateswara College of
Engineering and Technology,
Etcherla, Srikakulam -532410,
A.P, India.

Principal
Sir C R Reddy College of Engineering
Vatluru, Eluru-534007,
Eluru District, A.P, India.
Place: Eluru.



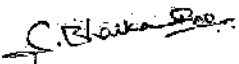
SRI VENKATESWARA COLLEGE OF ENGINEERING AND TECHNOLOGY


Approved by AICTE, New Delhi; Affiliated to JNTU KAKINADA
Etcherla, Srikakulam -532410.

CERTIFICATE

OF PARTICIPATION

This is to certify that Mr./Ms./Mrs./Dr. J.S.V. GOPALA KRISHNA
from SIR C.R. REDDY COLLEGE OF ENGINEERING
has actively participated in the one week Faculty Development Programme on
"Use of ICT in Education for Online and Blended Learning" organized by the department of
Computer Science and Engineering held from 06-12-2021 to 11-12-2021.


Sri.S.Bhaskara Rao
Convener


PRINCIPAL
Sri Venkateswara College of Engineering & Technology
ETCHERLA, SRIKAKULAM - 532410, A.P.
Dr.S.C.V.RamanaMurthy Naidu
Principal



SRI VENKATESWARA COLLEGE OF ENGINEERING AND TECHNOLOGY


Approved by AICTE, New Delhi; Affiliated to JNTU KAKINADA
Etcherla, Srikakulam -532410.

CERTIFICATE

OF PARTICIPATION

This is to certify that Mr./Ms./Mrs./Dr. K. SREENU
from SIR CR REDDY COLLEGE OF ENGINEERING
has actively participated in the one week Faculty Development Programme on
"Use of ICT in Education for Online and Blended Learning" organized by the department of
Computer Science and Engineering held from 06-12-2021 to 11-12-2021.


Sri.S.Bhaskara Rao
Convenor


PRINCIPAL
Sri Venkateswara College of Engineering and Technology
ETCHERLA, SRIKAKULAM -532410 (A.P.)
Dr.S.C.V.RamanaMurthy Naidu
Principal



ఆంధ్ర ప్రదేశ్ ఆంధ్ర ప్రదేశ్ ANDHRA PRADESH

CD 847049

Sl. No. 489 Date 4/4/2018

Sold to Sri ~~S~~ Samba Siva Rao s/o Raghavaiah Vatturu
From Principal Sir C.R.R. college of Engineering Vatturu
Sub-Registrar
Ex-Officio Stamp Ver
Vatturu

AGREEMENT BETWEEN


ANDHRA PRADESH STATE SKILL DEVELOPMENT CORPORATION

VIJAYAWADA

AND

Sir CR Reddy College of Engineering, West Godavari, Vatturu Post Peddapadu Mandal, near bypass road, West Godavari District, Eluru, Andhra Pradesh 534007 <https://goo.gl/maps/pwNxd1rch2q>

The Agreement is executed on this 28 day of March 2018 (Effective Date) by and between, Andhra Pradesh State Skill Development Corporation having its office at 2nd Floor, NTR Administrative Block, PN Bus Station, Vijayawada - 520 013 hereinafter called the "APSSDC" (which expression shall unless repugnant to the context or meaning thereof be deemed to mean and include its successors and assigns) represented by the MD&CEO of the first part; And Sir CR Reddy College of Engineering having its office at Vatturu Post Peddapadu Mandal, near bypass road, West Godavari District, Eluru, Andhra Pradesh 534007 <https://goo.gl/maps/pwNxd1rch2q>, West Godavari herein after called "CRRE" (which expression shall unless repugnant to the context or meaning thereof be deemed to mean and include its successors and assigns) represented by the *PRINCIPAL* of the second part;


Principal
SIR C.R.R. COLLEGE OF ENGINEERING
ELURU - 534 007

APSSDC and Sir CR Reddy College of Engineering shall herein after be collectively referred to as Parties and individually as first/second Party.

WHEREAS:

The new state of Andhra Pradesh has come into existence after bifurcation of the erstwhile combined state of Andhra Pradesh in June-2014. In the process of fulfilling its commitment for formation of a modern State, the State has initiated its endeavors, primarily on infrastructure building and rapid industrialization. To support this initiative, Government of Andhra Pradesh (GoAP) has identified manufacturing as a key area and is establishing clusters to nurture growth in vital sectors like Auto and Electronics by setting-up industrial corridors, Special Economic Zones (SEZs) etc.. The immediate necessity for industrialization is the manpower development. In the process of industrialization and infrastructure building, it is obligatory on the part of GoAP to simultaneously develop a large pool of skilled manpower to cater to the needs of the industry and service sectors. In this endeavor, the State has earnestly decided to address the skill shortage which is much projected by the user industry. The initiative of Statewide high priority for skill development shall also ensure up-gradation of skills. The sectors with largest manpower requirement in the coming years will be Manufacturing, Construction, Hospitality, Banking, Financial Services and Insurance and Information Technology/IT enabled services.

Eventually, the Skill Development has occupied the key focus area of GoAP. The process of developing large pool of skilled manpower has been envisaged in partnership with industry to make the skill development mission more industry relevant and self-sustainable. In the process of achieving these goals, the GoAP has incorporated APSSDC as a special corporate which shall strive for the appropriate and demand driven Skill Development.

APSSDC in its several meetings has discussed and decided to achieve the goal of skill development with participative approach of the stakeholders viz. the Government, Industry, academic institutions, youth and all other stakeholders. This participative approach will go a long way in accomplishing the task in economical, appropriate proportions with relevance in the shortest period. The APSSDC would provide the extra infrastructural requirements in selected academic institutions. In this process, the APSSDC has selected some of the leading Engineering Colleges/Govt. Polytechnics/Industry associated training institutions for providing the infrastructural facilities additionally required for running the Skill Development programs.

The APSSDC and Sir CR Reddy College of Engineering which is selected for CM's Skill Excellence Center (SEC): ICT Lab have mutually discussed and agreed to enter into this agreement as detailed hereinafter.


NOW, THEREFORE, in consideration of the mutual promises contained herein and other good and valuable consideration, the receipt of which is hereby acknowledged, the parties agree as follows:

2.1 DEFINITIONS:

In this Agreement, the following expressions shall have the meaning stated herein:

"Agreement" shall mean this agreement executed between APSSDC and Sir CR Reddy College of Engineering and shall include any written modifications thereof and the schedules attached hereto.

"Applicable Law" shall mean all the laws national and international, enacted or brought into force as the case may be and enforced by the Govt or GoAP as the case may be, and the regulations and notifications made there under and judgments, decrees, injunctions, writs and orders of any court of record, as may be in force and effect.


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ELURU - 534 007.

"CM's Skill Excellence Center: ICT Lab" shall mean multi-skill focused Skill Excellence Centre

at reputed Engineering Colleges in CSE, IT, ECE, EEE, Mechanical and Civil streams. These CM's Skill Excellence Centers: ICT Labs will be selected, established and implemented by APSSDC in active collaboration and assistance from the host College, as per the terms of this Agreement.

"Effective Date" shall mean the date of signing of this Agreement.

"GoAP" means the Government of Andhra Pradesh and its concerned department, SD&EI.

"Equipments" means/includes Laptops, Projector, Wi-Fi routers, Audio system

"CM's Skill Excellence Center: ICT Labs" shall mean college-level skill development centres connected with APSSDC over internet, where local students can access and learn out of the interactive digital courseware, online programs, hands-on training, offline Workshops and global certification programs.

3. SCOPE OF SERVICES / PROJECT

- a. To make qualitative improvements in imparting Technical Skills by setting up or providing:
 - Infrastructure in college laboratories by adopting latest technologies in engineering streams of CSE, IT, ECE, EEE, Mechanical and Civil to serve the needs the industry;
 - Skill up-gradation of faculty by imparting training;
 - Update course curriculum to suit modern industrial practices;
 - Promote Research & Development and Innovation for existing Industries.
 - CM's Skill Excellence Center: ICT Labs to focus on training students in line with the latest industry needs and make them more employable
- b. Promote Industry – Academia interfacing to make improvements in Technical Skills sustainable and in line with Industry requirements.
- c. Train students to improve employability - Improved placements of students in colleges and enable the students to compete in national employment market with better remuneration and professional growth.
- d. Enhance the reputation of Technical Institutions with Improved academic ambience and State of Art facilities
- e. Create a pool of skilled manpower to cater to the current and future industrial and service sector needs.
- f. Guidelines and procedures prescribed / as may be prescribed from time to time by APSSDC for implementation.

4. SCOPE OF THE FIRST PARTY

The APSSDC shall

- Select reputed academic/Industrial Training Institutions through a stipulated procedure.
- Provide a platform for registration of trainees online and mapping of institutions and students
- Provide equipment with latest technology to fill up the gap required to suit the skill development training requirements –laptops (as per the configuration given in Annexure I).

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SIRG.R.R. COLLEGE OF ENGINEERING
ELURU - 534 007.

- Train the faculty in the required skill.
- Identify and provide course curriculum to suit latest and future technologies.
- Promote Research & Development and Innovation for existing Industries.
- To get the evaluation of the Skill Development programs done by third party for assessing the impact with respect to quality and quantitative placements.
- Exercise its right to cancel the permission now granted to the institutions in the event of not fulfilling their obligations.

5. SCOPE OF THE SECOND PARTY

The Academic institution shall provide and follow the guidelines presented:

SDC:

College should setup one Skill Development Center lab and equip it on the lines of CM's SEC for APSSDC training exclusively.

CM's SEC:

Capacity to provide E-Classroom space to accommodate 37 systems lab with LCD Projector, Audio System & to ensure internet connectivity of 150Mbps bandwidth.

Infrastructure:

The necessary infrastructure as per the project specifications including electrical fittings, electricity and Power backup, water, furniture and fixtures and Air-conditioning

Adequate security:

The College should be responsible and held accountable for safety of the lab equipment.

Faculty & Students:


- To mobilize faculty and students of the college/institution for trainings and Certification.
- College should make a commitment on the count of faculty and students for APSSDC Training programs as mentioned - 50% of annual intake / students on rolls - for participation in APSSDC programs like Workshops, online programs, Certification programs, any other programs announced by APSSDC from time to time out of which 50% students are to get certified from the Globally recognized MOOCs

Residential Facilities:

- At least 50% of intake capacity to students of other colleges with residential facilities (100 boys & 50 girls at nominal cost) i.e., food & accommodation.
- Food and accommodation for 5 mentors (boy / girl) deputed by APSSDC to the college to coordinate and execute the APSSDC programs without any charges.

Clubs:

- Department wise clubs are to be initiated and competitions are to organized as and when informed at the earliest in coordination with APSSDC Stream coordinators.
- Colleges are requested to arrange a cabin/room exclusively for APSSDC Mentors & Club members.


 Principal
 SIR C.R.R. COLLEGE OF ENGINEERING
 ELURU - 534 007.

Annexure – II

Details of course wise fee: Workshops

Stream	Workshop Name	Duration	Fee
CSE & ECE	Data Structures & Algorithms	3days(Phase 1) + 3 Days (Phase 2)	Rs. 250 /-
	Google Android Fundamentals	3days(Phase 1) + 3 Days (Phase 2)	Rs. 500 /-
	Progressive web apps	3days(Phase 1) + 3 Days (Phase 2)	Rs.500 /-
	Amazon Web Services(AWS)	3 days	Rs.250 /-
	Internet of Things Fundamentals	3days(Phase 1) + 3 Days (Phase 2)	Rs.500 /-
	Python	3days(Phase 1) + 3 Days (Phase 2)	Rs.500 /-
	C Programming	3days(Phase 1) + 3 Days (Phase 2)	Rs.500 /-
ECE , EEE & EIE	IoT(Embedded Systems)	3days(Phase 1) + 3 Days (Phase 2)	Rs.500 /-
	Scilab	3days(Phase 1)	Rs.150 /-
	PLC	3days(Phase 1) + 3 Days (Phase 2)	Rs. 500 /-
Mechanical	Autocad	6 days	Rs.500 /-
	Catia Part Design	6 days	Rs.500 /-
	Catia Surface Design	6 days	Rs.500 /-
	Fusion 360	3 days	Rs.250 /-
Civil	Autocad	6 days	Rs.500 /-
	Revit Structure	6 days	Rs.500 /-
	Revit Architecture	6 days	Rs.500 /-
	3DS Max	3 days	Rs.250 /-

Details of course wise fee: Certificate

Certification Courses (College/University Name)							
SN	Engg Stream	Course	Certification	Duration (Months / Weeks)	Market Price Per certification	APSSDC Pricing	
1	CS/IT/E CE/MC A	Udacity Nanodegrees	i) Machine Learning	3 Months	Rs.60,180 /-	6,000 Per Month with Support (Free if completed in 1 month, 50% of the fee reimbursed each month upon completion within 3 months, and 25% thereafter)	
2			ii) Android Developer	3 Months	63,130		
3			iii) Front End	3 Months	54,280		
4			iv) Introduction to Programming	2 Months	38,350		
5			v) Full Stack	3 Months	54,280		
7		Google	i) Associate Android Developer	3 Weeks	6,500	3,250	
8			ii) Mobile Web Specialist	3 Weeks			
		Coursera with University of Michigan	Python for Everybody (Specialization)	2 Weeks	19,200	1,360 for 6 months with Training	
			Applied Data Science with Python (Specialization)	3 Months			
		Coursera with University of California, Irvine	Internet of Things (IOT) - (Specialization)	2 Weeks	19,200	1,360 for 6 months with Training	
			Data Structures and Algorithms by UC San Diego (Specialization)	3 Months			
		Coursera with Google	Architecting with Google Cloud Platform (Specialization)		19,200	1,360 for 6 months with Training	
			Data engineering on Google cloud platform (Specialization)				
			Developing applications with Google cloud platform (Specialization)				
17		Amazon		i) Analytics & Big Data	6 months	21,000	0
18				ii) Cloud Architects		35,000	
19				iii) Operations / Support Engineer		21,000	
20	iv) Software Development Engineer			21,000			
28	Civil/M echanic al	Autodesk Certiport, Inc.	i) AutoCAD Professional	1 Week Workshop & 2 hour practice for 14 days	2,415	1,000 With Training	
			ii) Revit Architecture Professional				
			iii) Revit Structure Professional				
			iv) Fusion 360 Professional				
30	Mechanic al	DS India Private Limited	i) CATIA Part Design		3,000		
31			ii) CATIA Surface Design		3,000		

Government of Andhra Pradesh
Department of Skill Development & Training
Andhra Pradesh State Skill Development Corporation, Tadepalli

From Managing Director APSSDC Tadepalli	To The Principal / Director Hosting Institute of APSSDC- Siemens centre
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Lr. No. 1/2021 /APSSDC-54022(32)/1/2018-PROJECTS-APSSDC Dt. 08-06-2021

Sir,

Sub : Operationalization of APSSDC-SIEMENS Centres after handing over by DesignTech Systems Pvt. Ltd - Reg.

- Ref :**
1. Lr. No. 001 : APSSDC-54022(32)/1/2018-PROJECTS, Dt. 02-11-2020 addressed to the Principals of t-SDI hosting institutions for takeover of assets.
 2. Lr. No. 002 : APSSDC-54022(32)/1/2018-PROJECTS, Dt. 29-12-2020 addressed to the Principals of CoE hosting institutions for takeover of assets.
 3. Minutes of meeting on the operationalization of Siemens centers by DesignTech on: 26th March 2021.

In the vide reference 1st and 2nd cited, the MD&CEO has requested the Principals of hosting institutions of Siemens centers to take over the assets of Siemens centers from the DesignTech.

Further, in the vide ref. 3 cited, the MD&CEO, APSSDC has reviewed the plan for operationalization of Siemens centers after handing over of the assets of Siemens centers by DesignTech Systems Pvt. Ltd.

In this reference, as per the instructions issued by MD&CEO, APSSDC, action plan for effective utilization of facilities in Siemens centers after the handing over of assets by DesignTech is prepared and it is as follows.

1. The hosting institutions shall run Siemens centres on self-sustenance mode from now onwards and the maintenance of Siemens laboratories shall be responsibility of the hosting institution.
2. The hosting institution shall identify and appoint their faculty as Siemen's laboratory in-charges and the list of the appointed staff should be communicated to APSSDC. The required training for the identified faculty in respective domains will be imparted by APSSDC.
3. Hosting institution can utilize 50% of intake capacity of the Siemens Centre for their students and the remaining capacity is earmarked for outside institution students/ internships/ unemployed youth identified by APSSDC.

Warranty & Equipment:

- Post-warranty of equipment, college has to bear the maintenance cost.

Compliances:

- **KPIs – Key Performance Indicators (KPIs) will be developed in mutual consultation with colleges and APSSDC.**
- **Monitoring:** The activities of CM's Skill Excellence Centers: ICT Labs shall be regularly monitored through an IT monitoring system at APSSDC on a real time basis and also through the monitoring committee of APSSDC.
- **Management Information System:** To submit all reports and documents relating to progress of the students on rolls, Accounts, Audit and Annual Work Plan, as specified at such frequency as may be required by 'THE FIRST PARTY'.
- **Details of Data of Number of students passed out, placed (Trained for Employability), and unplaced on year-on-year basis.**
- **Institutions will face punitive action amounting to withdrawal of the laptops given under this Project if found to be:**
 - ❖ **Charging capitation fee or indulging in any other malpractice**
 - ❖ **Provided false data in their reports**
 - ❖ **Unable to achieve targets set by APSSDC/themselves in Proposals consistently**
 - ❖ **Any non-compliance with the terms and conditions of this Agreement**

6. REVENUE GENERATED

➤ APSSDC is heavily subsidizing the training and certification courses as compared to market prices. The Revenue generated from the charges of the programs being implemented by APSSDC will be the sole income of APSSDC as per the Course wise fee structure provided at Annexure 2 .

7. BREACH OF AGREEMENT & REMEDIAL PERIOD

In case the Sir CR Reddy College of Engineering, commits breach of any condition as laid down in this Agreement, the monitoring committee at APSSDC shall bring the same to the notice of Sir CR Reddy College of Engineering . In case the breach is not rectified within 30 days from the date of notice, as per the terms and spirit of this Agreement, APSSDC/ GoAP is authorized to take over the CM's Skill Excellence Centers: ICT Labs (all the assets provided by APSSDC under this program) except other liabilities of promoters and their employees.

8. CONFIDENTIAL INFORMATION

Each Party may disclose Confidential Information:

- a) to the extent to which it is required to be disclosed pursuant to Applicable Law;
- b) to the extent to which it is specifically permitted by the other Party in writing;
- c) to the extent that the Confidential Information is publicly available and


Principal
SIR C.R.R. COLLEGE OF ENGINEERING
ELURU - 534 007.

d) to its employees and professional advisors, but only to the extent necessary and subject to such employees and professional advisors accepting an equivalent confidentiality obligation to that set out in this Clause Confidentiality.

9. LIMITATION OF LIABILITY

Except as agreed and provided under this Agreement, neither of the Parties shall be liable to bear or pay any damages arising out of loss of income, loss of profit, special, incidental, indirect, punitive, exemplary or consequential, to any party including third parties, and all such damages are expressly disclaimed.

10. DISPUTE RESOLUTION

The Parties shall endeavor to resolve all or any dispute or difference arising out of or in connection with this Agreement, amicably within 30 days of notice in writing being issued by the non-defaulting party to the defaulting party indicating such dispute or difference. In case no amicable solution is arrived between the Parties within the said 30 days, then such dispute/s shall be settled through Arbitration as per the provisions of the Arbitration and Conciliation Act, 1996 as amended from time to time. The arbitration shall be done by Sole Arbitrator appointed by APSSDC. The written award of the Arbitrator shall be final and binding on all the Parties. The seat and venue for the arbitration proceedings shall be at Vijayawada, Andhra Pradesh.

11. FORCE MAJEURE

If the performance of any part of this Agreement by parties is prevented or delayed by acts of civil or military authority, flood, fire, epidemic, war or riot, or other acts beyond the reasonable control of either party, the party affected shall be excused from such performance only during the continuance of any such event.

Where a Party is claiming suspension of its obligations on account of Force Majeure, it shall promptly, but in no case later than five (5) days after the occurrence of the event of Force Majeure, notify the other Party in writing giving full particulars of the Force Majeure, the estimated duration thereof, the obligations affected and the reasons for its suspension.

The Party asserting the claim of Force Majeure shall have the burden of proving that the circumstances constitute valid grounds of Force Majeure under this clause and that such Party has exercised reasonable diligence and efforts to remedy the cause of any alleged Force Majeure. If the parties are unable in good faith agree that a Force Majeure event has occurred, the Parties shall submit the dispute for resolution pursuant to clause 10 hereof provided that the burden of proof as to whether a Force Majeure event has occurred shall be upon the Party claiming a Force Majeure event.

12. SEVERABILITY

If any provision or provisions of this Agreement shall be held to be illegal, invalid or unenforceable, the validity, legality and enforceability of the remaining provisions shall not in any way be affected or impaired there by and the parties hereto agree to replace the illegal or unenforceable provisions with valid provisions which are as close as possible to the illegal or unenforceable provisions in their respective meaning, purpose, and commercial effect within reasonable time.

13. NOTICE

13.1. Any notice or other document to be given under this Agreement shall be in writing and shall be deemed to have been duly given if left at or sent by:-

(a) hand; or


Principal
SIR C.R.R. COLLEGE OF ENGINEERING
ELURU - 534 007.

- (b) registered posts; or
(c) facsimile or other electronic media;

to the other party at the following addresses and/or telecommunication number or such other addresses as the party may from time to time designate by written notice to the other(s):

APSSDC	Andhra Pradesh State Skill Development Corporation 2 nd Floor, NTR Administrative Block, PN Bus Station, Vijayawada - 520 013
College/ Institution	Sir CR Reddy College of Engineering West Godavari Valturu Post Peddapadu Mandal, near bypass road, West Godavari District, Eluru, Andhra Pradesh 534007 https://goo.gl/maps/pwNxd1rch2q

13.2. All such notices and documents shall be in the English language. All notices or other documents shall be deemed to have been received by the addressee in the case of despatch by post, five (5) working days following the date of dispatch of the notice or document and in the case of dispatch by hand or by facsimile or other electronic media, simultaneously with the delivery or transmission (as the case may be). To prove the giving of a notice or other document it shall be sufficient to show that it was dispatched in accordance with the provisions of Clause 13.1 hereof.

14. GOVERNING LAW AND JURISDICTION


This Agreement shall be governed and construed in accordance with the laws of India and subject to the arbitration clause mentioned above, the courts of Andhra Pradesh shall have the jurisdiction to entertain any dispute or suit arising out of or in relation to this Agreement.

15. PUBLICITY

Neither party shall make any public disclosure, except as may be required by applicable law, relating to discussions and or terms related to this Agreement, without obtaining the prior written consent of the other party. Either party shall not use and shall not let their employees, agents and subcontractors from using the name, trademark or logo of other party in any sale, marketing publication, advertisement or other publication. Either party shall not make, or let its employees, agents or subcontractors make, any public statement relating to the other party.

16. RELATION OF THE PARTIES

Nothing herein shall be construed to neither constitute a partnership between the parties hereto nor to authorize the Sir CR Reddy College of Engineering save and except as provided herein or with the APSSDC's prior consent in writing, for making any representation.


Principal
SIR C.R.R. COLLEGE OF ENGINEERING
ELURU - 534 007.

17. MODIFICATION, AMENDMENT, SUPPLEMENT OR WAIVER

No modification, amendment, supplement to or waiver of this Agreement or any of its provisions shall be binding upon the parties hereto unless made in writing and duly signed by the authorized representative of the party against whom enforcement thereof is sought. Any failure or delay of any party to this Agreement to enforce at any time any of the provisions of this Agreement or to exercise any option which is herein provided, or to require at any time performance of any of the provisions hereof, shall in no way be construed to be a waiver of such provisions of this Agreement.

18. ENTIRE AGREEMENT

This Agreement together with all Appendices, Attachments and Addenda attached hereto constitute the entire agreement between the parties and supersedes all previous agreements, promises, representations, understandings and negotiations, whether written or oral, between the parties with respect to the subject matter hereof.

19. ASSIGNMENT

The Second Party shall not be entitled to, nor shall it purport to, assign this Agreement, without prior consent of the First Party.

This Agreement is prepared in two originals and each party shall retain one copy. Each copy shall be treated as original when taken separately and shall constitute as one when taken together.

In token of agreement and acceptance hereof by the two parties the authorized representatives of the two parties hereto have affixed their signatures herein below in the presence of witnesses as under:

SIGNED ON BEHALF OF

ANDHRA PRADESH STATE SKILL DEVELOPMENT CORPORATION

Name: Sri K. Sambasiva Rao, IRTS

Signature: _____

Designation: Managing Director & Chief Executive Officer

Name: Dr. Gupta Sambasiva Rao

Signature: [Signature]
Principal
SIR C.R.R. COLLEGE OF ENGINEERING
Designation: PRINCIPAL
ELURU - 534 007.



Witness

Name: Dr. S. Krishna Rao

Signature: [Signature]

Designation: Mod. Professor, Dept of IT

HEAD OF THE DEPARTMENT
Information Technology
Sir C.R.R. College of Engg.
ELURU-534 007.

Name: [Signature]


Signature: Y. GOWRI SANKAR

Designation: Administrative Officer

Administrative Officer
Sir C.R.Reddy College of Engineering
ELURU

Annexure - I

Laptop Make and Model: Acer TMP 249-G2-M	
Technical Specification Inspection	
Processor	Intel Core i5-7200U Processor @ 2.5 GHz(Turbo Boost Upto 3.1 Ghz), 3MB Cache, 2-cores
Memory	16 GB DDR4 Memory, 2133 MHz
Internal Storage	500 GB SATA
Wireless Connectivity	Integrated wireless & Integrated Blue tooth.
Display Size	14"
Display Resolution	1366 x768
Webcam	Built-in Webcam.
Battery	5 Hrs Backup
VGA Port	Yes
HDMI Port	Yes
USB 2.0 port	1
USB 3.0 port	2
Operating System	BOSS Linux
Keyboard	External;
Mouse	External;


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ELURU - 534 007.

4. The unemployed youth mobilization for the training programs such as ESDM, PMKVY, etc., should be done in coordination with District Skill Development Officers of APSSDC
5. A Minimum fee of Rs. 500/ - per week shall be collected from the outside students for the training programs with the duration ranging from 1 week to 3 months. The hosting institutions may decide on the fee to be collected from their students.
6. The revenue sharing mechanism between the hosting institutions and APSSDC for conducting the Siemens trainings is in the ratio of 80:20.
7. Honorarium for the lab in-charges/ staff of the hosting institution will be paid from revenue generated from the training programs.
8. A fresh guidelines and S.O.P for continuation of the project through the revised management structure of hosting institutions will be communicated in due course of time.
9. APSSDC shall offer trainers support during the joint operation period of first 2 years. Post completion of 2 years, the hosting institution shall take all measures to operationalize the Siemens centers on self-sustainable mode

Hence, the t-SDI/CoE hosting institutions are requested to appoint institution faculty for all the Siemens laboratories established under Siemens Project and communicate the list of the faculty appointed lab wise to this office at the earliest. Once normalcy attained after the present pandemic situation, APSSDC will conduct faculty training programs for all the institution faculty appointed.

Yours Sincerely

Sd/- Managing Director,
APSSDC.



For Managing Director, APSSDC

Government of Andhra Pradesh
Department of Skill Development & Training
Andhra Pradesh State Skill Development Corporation, Tadepalli

From Managing Director APSSDC Tadepalli	To The Principal / Director Hosting Institute of APSSDC- Siemens centre
--	--

Lr. No. 1/2021 /APSSDC-54022(32)/1/2018-PROJECTS-APSSDC Dt. 08-06-2021

Sir,

Sub : Operationalization of APSSDC-SIEMENS Centres after handing over by DesignTech Systems Pvt. Ltd – Reg.

- Ref :**
1. Lr. No. 001 : APSSDC-54022(32)/1/2018-PROJECTS, Dt. 02-11-2020 addressed to the Principals of t-SDI hosting institutions for takeover of assets.
 2. Lr. No. 002 : APSSDC-54022(32)/1/2018-PROJECTS, Dt. 29-12-2020 addressed to the Principals of CoE hosting institutions for takeover of assets.
 3. Minutes of meeting on the operationalization of Siemens centers by DesignTech on: 26th March 2021.

In the vide reference 1st and 2nd cited, the MD&CEO has requested the Principals of hosting institutions of Siemens centers to take over the assets of Siemens centers from the DesignTech.

Further, in the vide ref. 3 cited, the MD&CEO, APSSDC has reviewed the plan for operationalization of Siemens centers after handing over of the assets of siemens centers by DesignTech Systems Pvt. Ltd.

In this reference, as per the instructions issued by MD&CEO, APSSDC, action plan for effective utilization of facilities in Siemens centers after the handing over of assets by DesignTech is prepared and it is as follows.

1. The hosting institutions shall run Siemens centres on self-sustenance mode from now onwards and the maintenance of Siemens laboratories shall be responsibility of the hosting institution.
2. The hosting institution shall identify and appoint their faculty as Siemen's laboratory in-charges and the list of the appointed staff should be communicated to APSSDC. The required training for the identified faculty in respective domains will be imparted by APSSDC.
3. Hosting institution can utilize 50% of intake capacity of the Siemens Centre for their students and the remaining capacity is earmarked for outside institution students/ internships/ unemployed youth identified by APSSDC.

4. The unemployed youth mobilization for the training programs such as ESDM, PMKVY, etc., should be done in coordination with District Skill Development Officers of APSSDC
5. A Minimum fee of Rs. 500/ - per week shall be collected from the outside students for the training programs with the duration ranging from 1 week to 3 months. The hosting institutions may decide on the fee to be collected from their students.
6. The revenue sharing mechanism between the hosting institutions and APSSDC for conducting the Siemens trainings is in the ratio of 80:20.
7. Honorarium for the lab in-charges/ staff of the hosting institution will be paid from revenue generated from the training programs.
8. A fresh guidelines and S.O.P for continuation of the project through the revised management structure of hosting institutions will be communicated in due course of time.
9. APSSDC shall offer trainers support during the joint operation period of first 2 years. Post completion of 2 years, the hosting institution shall take all measures to operationalize the Siemens centers on self-sustainable mode

Hence, the t-SDI/CoE hosting institutions are requested to appoint institution faculty for all the Siemens laboratories established under Siemens Project and communicate the list of the faculty appointed lab wise to this office at the earliest. Once normalcy attained after the present pandemic situation, APSSDC will conduct faculty training programs for all the institution faculty appointed.

Yours Sincerely

Sd/- Managing Director,
APSSDC.



For Managing Director, APSSDC



ANDHRA PRADESH STATE SKILL DEVELOPMENT CORPORATION

(Department of Skills Development & Training, Govt. of Andhra Pradesh)




Cert. No: REVIT/STP/23-24/250

Reg.No: 20B81A0101

Certificate of Participation

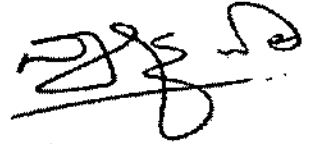
This is to certify that Mr./Ms./Mrs. Adapa Sai Sri Ram
of Sir C.R.Reddy College of Engineering has successfully
participated in Skill Development Program on Architectural Modelling Using Revit [Online]
held from 07-08-2023 to 19-08-2023

Principal


Dr. Ravi K. Gujjula
Chief General Manager (Technical)
APSSDC




Sri K. Dinesh Kumar
Executive Director
APSSDC


Dr. Vinod Kumar.V, I.A.S.
Managing Director
APSSDC



ANDHRA PRADESH STATE SKILL DEVELOPMENT CORPORATION

(Department of Skills Development & Training, Govt. of Andhra Pradesh)



Cert. No: REVIT/STP/23-24/251

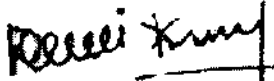
Reg.No: 20B81A0102

Certificate of Participation



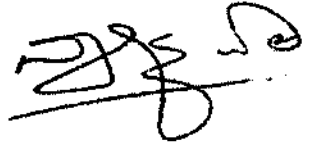
This is to certify that Mr./Ms./Mrs. Arnipalli Neelima
of Sir C.R.Reddy College of Engineering has successfully
participated in Skill Development Program on Architectural Modelling Using Revit [Online]
held from 07-08-2023 to 19-08-2023

Principal


Dr. Ravi K. Gujjula
Chief General Manager (Technical)
APSSDC




Sri K. Dinesh Kumar
Executive Director
APSSDC


Dr. Vinod Kumar.V, I.A.S.
Managing Director
APSSDC



ANDHRA PRADESH STATE SKILL DEVELOPMENT CORPORATION

(Department of Skills Development & Training, Govt. of Andhra Pradesh)



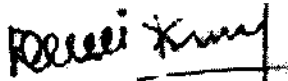
Cert. No: REVIT/STP/23-24/252

Reg.No: 20B81A0103


Certificate of Participation

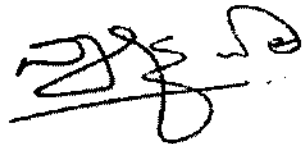
This is to certify that Mr./Ms./Mrs. Banala Sai Sindhu
of Sir C.R.Reddy College of Engineering has successfully
participated in Skill Development Program on Architectural Modelling Using Revit [Online]
held from 07-08-2023 to 19-08-2023

Principal


Dr. Ravi K. Gujjula
Chief General Manager (Technical)
APSSDC




Sri K. Dinesh Kumar
Executive Director
APSSDC


Dr. Vinod Kumar.V, I.A.S.
Managing Director
APSSDC

Estd. 1989

SIR C.R. REDDY COLLEGE OF ENGINEERING

ELURU - 534 007, Eluru Dist., A.P., INDIA

ACCREDITED BY NBA, APPROVED BY ALL INDIA COUNCIL FOR TECHNICAL EDUCATION, NEW DELHI,
PERMANENTLY AFFILIATED TO JNTUK, KAKINADA

www.sircrengg.ac.in



OFF : (08812) 230840, 230565
FAX : (08812) 224193
Email : principal.sircrengg@gmail.com

Ref. No.

Date : 10-07-2021

MEMORANDUM OF UNDERSTANDING (MOU)

AMONG:

Sir C R Reddy College of Engineering, having its college located at Vatluru, Eluru, West Godavari District, Andhra Pradesh, India-534007, represented by its Authorized Signatory Dr.K.Venkateswara Rao, Principal, (which expression shall, unless repugnant to the context or meaning thereof, mean and include its executors, authorized representatives, administrators, successors-in-interest and permitted assigns) of the first part.

AND

M/S Durga Fish Ponds, Eluru, a Private Fisheries firm at, Eluru Mandal, West Godavari District, represented by its Proprietor, Mr. Nagadesi Durgarao (which expression shall, unless repugnant to the context or meaning thereof, mean and include its executors, authorized representatives, administrators, successors-in-interest and permitted assigns) of the second party.

This Memorandum of Understanding (MOU) is entered into on 10 July, 2021(Saturday) between Sir C R Reddy College of Engineering, Eluru, hereinafter referred to as "the Institution," and Durga Fish Ponds, Eluru, hereinafter referred to as "the Proprietor," collectively referred to as "the Parties."

Whereas, the Institution operates Boys and Girls Hostels on its campus, which generate a significant amount of food waste on a regular basis.

Whereas, the Proprietor has expressed his interest in acquiring food waste from the Institution for utilization as fish food in their operations.

Now, therefore, in consideration of the premises and covenants contained herein, the Parties hereby agree as follows:

1. Purpose of the Agreement

The purpose of this MOU is to formalize the agreement for the collection and utilization of food waste generated in the Boys and Girls Hostels of the Institution as fish food for the Fisheries.

2. Food Waste Collection

The Institution agrees to collect and segregate food waste generated within its Boys and Girls Hostels. This waste will be collected, stored, and made available for pick-up by the Fisheries.

3. Pick-up and Transportation

The proprietor shall be responsible for scheduling regular pick-ups of the food waste from designated collection points on the Institution's campus. The Institution shall provide access to these collection points for the Fisheries' designated personnel.

Pick-up Location:

4. Utilization by the Fisheries

The collected food waste shall be utilized by the proprietor as fish food in a safe and environmentally responsible manner.

5. Duration of Agreement

Sir C R Reddy College of Engineering		
Contact Persons	Mr.A. Surya Prakash	Mrs. CH. Rama Devi
Designation	Chief Warden-Boys Hostel	Chief Warden -Girls Hostel
Mobile No	+91 9440338295	+91 9490999145
Email ID	aspsireee@gmail.com	
Preferable week for Pick-Up	Daily	
Time:	06:00 AM	

This MOU shall commence on the date of execution and remain in effect for a period of 5 Years unless terminated by either party in writing with a minimum notice of 2 months.

6. Responsibilities of the Parties

a. The Institution shall:

- Ensure proper collection and segregation of food waste.
- Provide access to the designated collection points.
- Notify the proprietor of any changes in waste generation or collection procedures.

b. The Fisheries shall:

- Arrange for Dust bins for collection of waste
- Arrange for regular pick-ups of food waste.
- Ensure safe and responsible utilization of the collected food waste.

7. Confidentiality

The Parties shall maintain the confidentiality of any proprietary information shared during the execution of this agreement.

8. Amendments

Any amendments or modifications to this MOU shall be made in writing and require the mutual agreement of both Parties.

9. Termination

Either Party may terminate this agreement by providing written notice to the other Party with the agreed-upon notice period.

10. Governing Law

This MOU shall be governed by and construed in accordance with the Environmental Policy of the Institution.

11. Entire Agreement

This MOU constitutes the entire agreement between the Parties and supersedes all prior understandings or agreements.

12. Execution

This MOU is executed in duplicate and shall be binding upon the Parties upon the signatures of their authorized representatives.

Sir C R Reddy College of Engineering, Eluru

Signature: _____

Name: Dr.K.Venkateswara Rao

Title: Principal

Date: 10 July, 2021

Durga Fish Ponds, Eluru

Signature: _____

Name: Nagadesi Durga Rao

Title: Proprietor,

Date: 10 July, 2021

SIR C. R. REDDY COLLEGE OF ENGINEERING

ELURU-534007, West Godavari Dist., A.P., INDIA

ACCREDITED BY NAAC, APPROVED BY ALL INDIA COUNCIL FOR TECHNICAL EDUCATION, NEW DELHI,

PERMANENTLY AFFILIATED TO JNTUK, KAKINADA

www.sircrrengg.ac.in



OFF: (08812) 230840, 230565

FAX : (08812) 224193

Email: principal.sircrrengg@gmail.com

SRI DURGA FISH PONDS

Sri Durga Fish Ponds, an integral part of the sustainability initiatives at Sir C R Reddy College of Engineering, proudly adheres to its commitment to environmental stewardship. Under the purview of a meticulously crafted Memorandum of Understanding (MoU) with the esteemed Civil Engineering Department, the ponds actively engage in the noble endeavor of collecting food waste generated from the boys' and girls' hostels.

This symbiotic arrangement exemplifies the college's holistic approach towards waste management, wherein organic waste is repurposed to nourish and sustain aquatic life within the fish ponds. By harnessing the biodegradable potential of food waste, the ponds not only mitigate the environmental impact of organic disposal but also foster a self-sustaining ecosystem.

With a keen emphasis on resource optimization and ecological balance, the collaboration between Sri Durga Fish Ponds and the Civil Engineering Department epitomizes the college's unwavering dedication to innovation and sustainability. Through this concerted effort, Sir C R Reddy College of Engineering continues to set a precedent for responsible environmental practices within academic institutions.

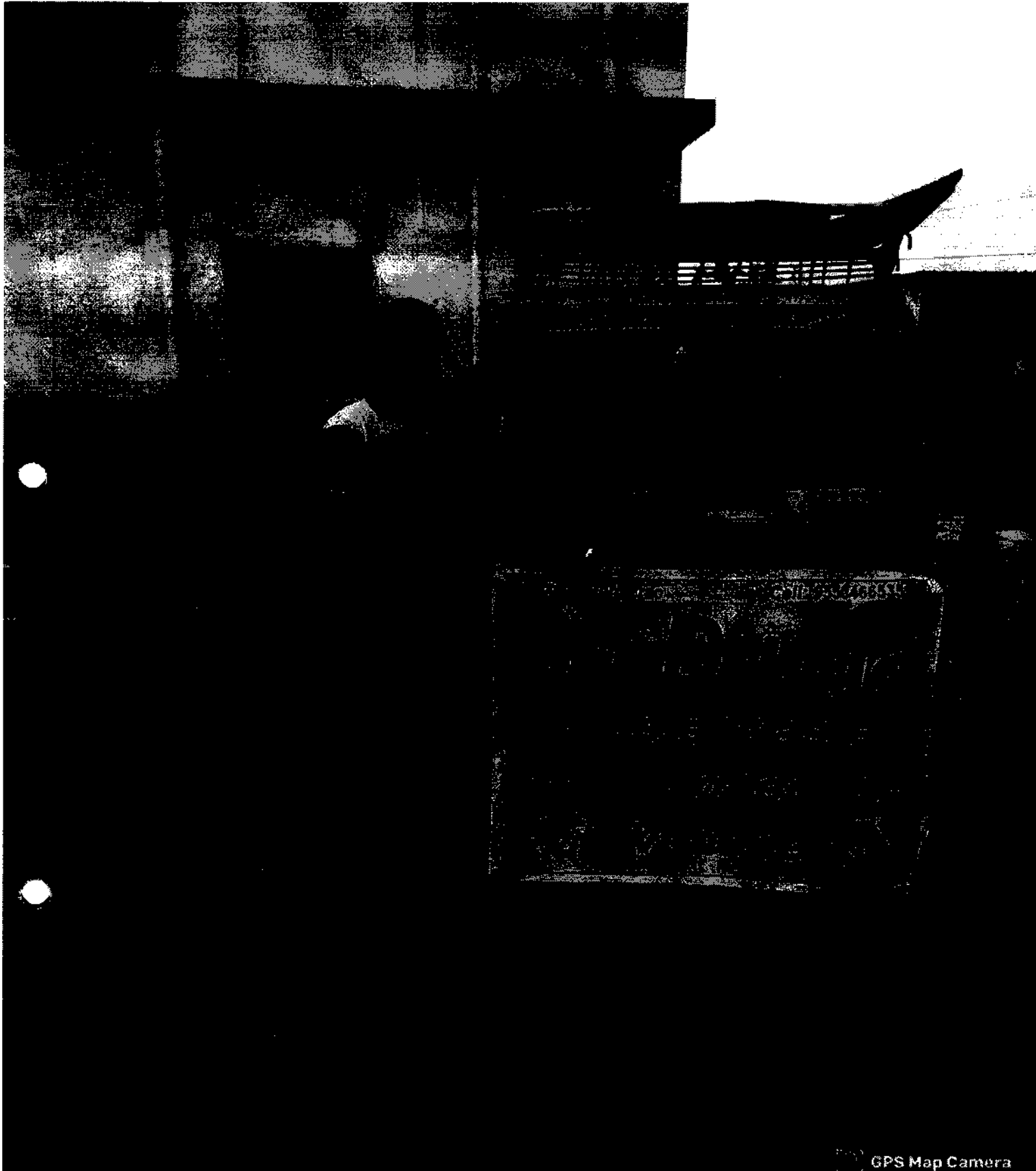
HOD-CIVIL

Head of the Department

Civil Engineering

Sir C.R.R. College of Engineering

ELURU-534007, W G Dist.



GPS Map Camera

West Godavari, Andhra Pradesh, India

Boys Hostel, Sir C.R. REDDY COLLEGE of engineering, Vatluru, Eluru, Andhra Pradesh
534007, India

Lat 16.693931°

Long 81.052278°

31/01/24 08:43 AM GMT +05:30

Google

Estd. 1989

SIR C.R. REDDY COLLEGE OF ENGINEERING

ELURU - 534 007, West Godavari Dist., A.P., INDIA

APPROVED BY ALL INDIA COUNCIL FOR TECHNICAL EDUCATION, NEW DELHI,

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☎ OFF : (08812) 230840, 230565

FAX : (08812) 224193

Email : principal.sircrrengg@gmail.com

Ref. No.

Date : 08-07-2021.

MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (MOU) is signed on 10 July, 2021 (Saturday)

AMONG:

Sir C R Reddy College of Engineering, having its college located at Vatluru, Eluru, West Godavari District, Andhra Pradesh, India-534007, represented by its Authorized Signatory Dr.K.Venkateswara Rao, Principal, (which expression shall, unless repugnant to the context or meaning thereof, mean and include its executors, authorized representatives, administrators, successors-in-interest and permitted assigns) of the first part.

AND

Sri Vijaya Durga Traders, an existing company within the meaning of the Companies Act, 1956 having its office at, No:4-552/A Main Road, Malkapuram, Eluru Mandal, West Godavari District, represented by its Proprietor, Mr. Ravi Teja Gurrām (which expression shall, unless repugnant to the context or meaning thereof, mean and include its executors, authorized representatives, administrators, successors-in-interest and permitted assigns) of the second party.

Whereas Sri Vijaya Durga Traders, has set up a material recycling facility at Malkapuram to convert the waste paper into reusable paper and waste plastic into granules.

Whereas "Sir C R Reddy College of Engineering", has agreed to give away the paper and plastic waste generated in the Vatluru Location. The collection of dry recyclables from "Sir C R Reddy College of Engineering" will be initiated from, as per schedule, where both the parties agreed mutually.

NOW THIS MOU WITNESSED AS UNDER:

This MOU is intended to create a synergic alliance between Sir C R Reddy College of Engineering & Sri Vijaya Durga Traders for the recycling of dry waste, which is a vital element in the protection of the environment.

1. Definitions

1.1 **Waste Paper:** Discarded paper including cardboard, newspaper and magazines, shredded papers, old office records, etc.

1.2 **Plastic:** Water bottles, Pet bottles, Carry bags etc.

1.3 **Designated Day:** A day in the week/fortnight/ month agreed between parties

2. Pick-up Location:

Sir C R Reddy College of Engineering	
Contact Persons	Mr. M Naga Raju
Designation	Supervisor
Mobile No	9059693179
Landline No	08812230584
Email ID	crceivil@gmail.com
Preferable week for Pick-Up	Saturday
Time:	11 AM

3. Quality & Quantity:

3.1 Material should be free from food particles, without any contamination of garbage, municipal waste or any item which are detrimental to WOW (Well-being Out of Waste) initiative.

4. Roles and Responsibilities of Sir C R Reddy College of Engineering:

4.1 Sir C R Reddy College of Engineering shall identify the quantum of wastepaper and plastic generated.

4.2 Sir C R Reddy College of Engineering would store the wastepaper and plastic and Sri Vijaya Durga Traders would pick up on a mutually agreed schedule.

4.3 Sir C R Reddy College of Engineering agrees to appoint a representative to coordinate various activities identified in MOU and to notify Sri Vijaya Durga Traders within one month of any change in responsibility.

4.4 Sir C R Reddy College of Engineering needs to allocate for itself sufficient covered storage space for keeping the material safely.

5. Roles and Responsibilities of Sri Vijaya Durga Traders:

5.1 Sri Vijaya Durga Traders will make necessary arrangements for collecting the waste paper, plastic and transporting to its godown.

5.2 Sri Vijaya Durga Traders shall not use or discriminate any confidential information of Sir C R Reddy College of Engineering printed on the waste paper, if the same is legible and the waste paper is not properly shredded. In such a scenario, Sri Vijaya Durga Traders is solely responsible.

6. Roles and Responsibilities in General:

6.1 The details laid out in this MOU, notwithstanding the essence and spirit of this MOU is an understanding between Sir C R Reddy College of Engineering and Sri Vijaya Durga Traders .

6.2 Any notices or other communication under or in connection with this argument shall be in writing in the English language and shall be delivered personally to the party due to receive the notice or communication at its address set out in this contract or such other address as either party may specify by notice in writing to the other.


Proprietor

Sri Vijaya Durga Traders


Principal

Sir C R Reddy College of Engineering

SIR C. R. REDDY COLLEGE OF ENGINEERING

ELURU-534007, West Godavari Dist., A.P., INDIA

**ACCREDITED BY NAAC, APPROVED BY ALL INDIA COUNCIL FOR TECHNICAL EDUCATION, NEW DELHI,
PERMANENTLY AFFILIATED TO JNTUK, KAKINADA**

www.sircrrengg.ac.in



**OFF: (08812) 230840, 230565
FAX : (08812) 224193
Email: principal.sircrrengg@gmail.com**

SRI VIJAYA DURGA TRADERS

Sir Vijaya Durga Traders, a beacon of environmental consciousness and corporate responsibility, stands as a pivotal partner in Sir C R Reddy College of Engineering's mission towards sustainable waste management. Firmly grounded in a meticulously drafted Memorandum of Understanding (MoU) with the esteemed Civil Engineering Department, the company takes on the vital role of collecting plastic waste generated within the college premises for recycling.

This collaborative effort exemplifies the college's unwavering commitment to environmental stewardship, transforming plastic waste into a valuable resource through efficient recycling practices. By harnessing the expertise and infrastructure of Sir Vijaya Durga Traders, the college effectively mitigates the ecological footprint associated with plastic disposal while promoting a circular economy ethos.

Through this strategic partnership, Sir C R Reddy College of Engineering not only addresses the pressing issue of plastic pollution but also instills a culture of sustainability within its academic community. The collaboration underscores the institution's proactive approach towards environmental conservation and sets a commendable example for responsible waste management practices in educational settings.

HOD-CIVIL

**Head of the Department
Civil Engineering**

**Sir C.R.R. College of Engineering
ELURU-534007. W G Dist.**



GPS Map Camera

West Godavari, Andhra Pradesh, India

Boys Hostel, Sir C.R.REDDY COLLEGE of engineering, Vatluru, Eluru, Andhra Pradesh
534007, India

Lat 16.693931°

Long 81.052278°

31/01/24 08:38 AM GMT +05:30

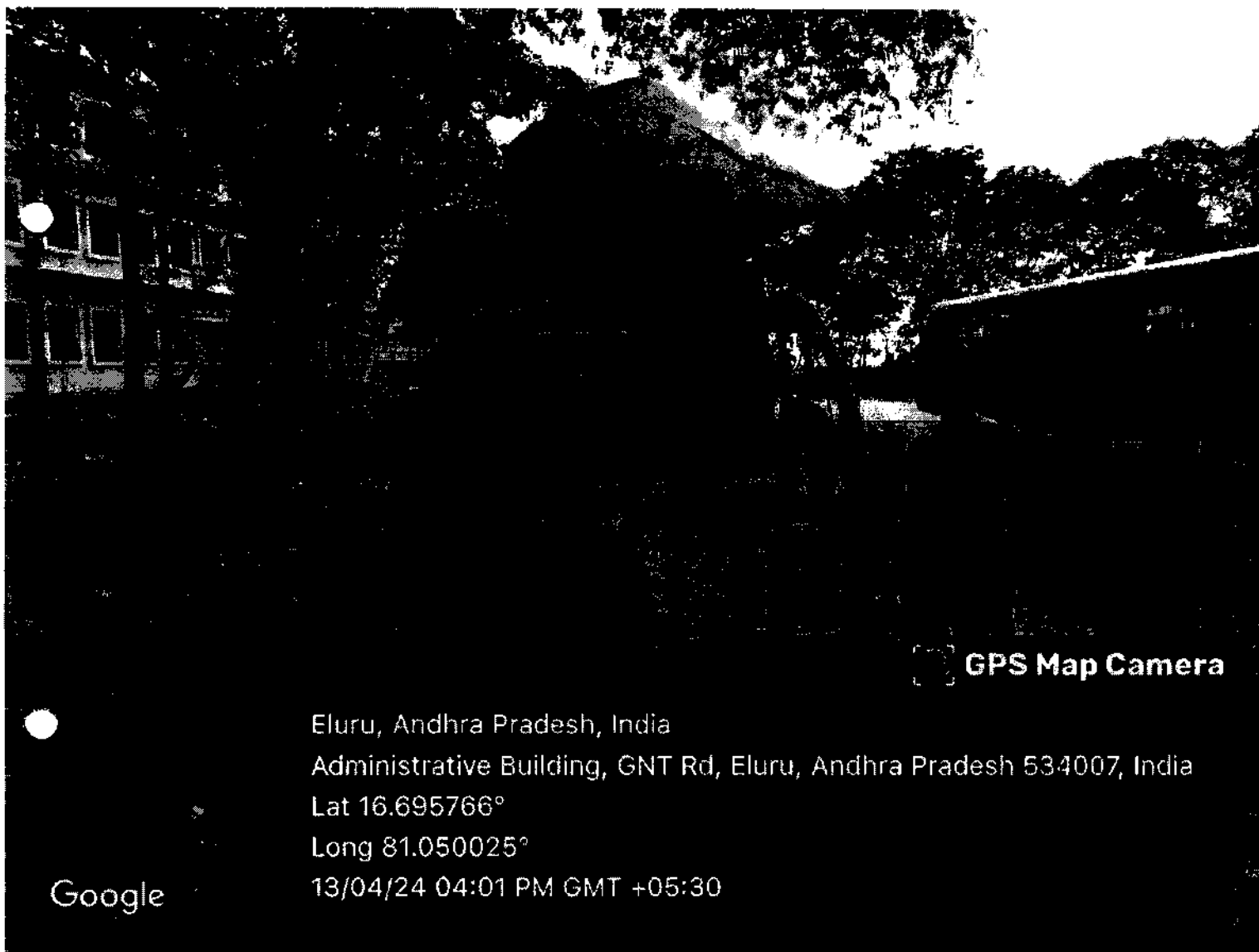
Google



 **GPS Map Camera**

Eluru, Andhra Pradesh, India
Administrative Building, GNT Rd, Eluru, Andhra Pradesh 534007, India
Lat 16.695794°
Long 81.050052°
13/04/24 03:52 PM GMT +05:30

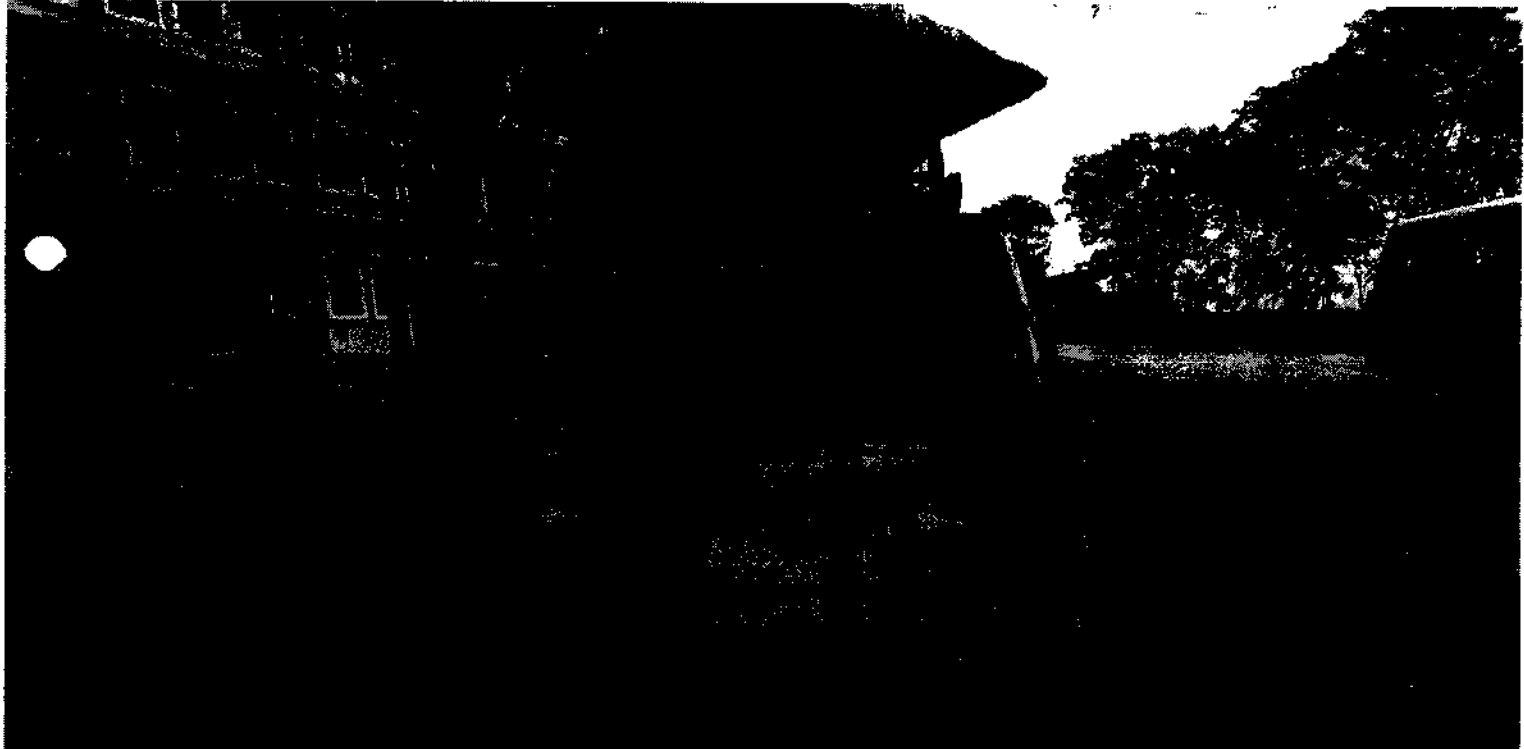
Google



 **GPS Map Camera**

Eluru, Andhra Pradesh, India
Administrative Building, GNT Rd, Eluru, Andhra Pradesh 534007, India
Lat 16.695766°
Long 81.050025°
13/04/24 04:01 PM GMT +05:30

Google



 **GPS Map Camera**

Eluru, Andhra Pradesh, India

Administrative Building, GNT Rd, Eluru, Andhra Pradesh 534007, India

Lat 16.695782°

Long 81.050055°

13/04/24 03:52 PM GMT +05:30

Google

MOU

This Memorandum of Understanding (MOU) is made on this 2nd day of August, 2021 between :



Priyadarshini Institute of Technology & Science

Chintalapudi Near Tenali Guntur-522 306.
Under Management of INDIRA EDUCATIONAL Society, Hyderabad.
College Code:X2, Recognised by Govt of A.P.
Approved by AICTE, New Delhi & Affiliation to JNTU Kakinada.

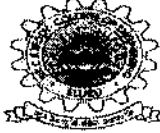
Priyadarshini Institute of Technology & Science, Chintalapudi, Duggirala Mandal, Guntur (Dt)-522306.Andhra Pradesh, India, represented by its principal, Dr. N Lakshmi Narayana, hereinafter referred to as PITT;

And

Estd. 1989

SIR C. R. REDDY COLLEGE OF ENGINEERING

ELURU-534007, West Godavari Dist., A.P., INDIA
APPROVED BY ALL INDIA COUNCIL FOR TECHNICAL EDUCATION, NEW DELHI,
PERMANENTLY AFFILIATED TO JNTUK, KAKINADA
www.sircrrengg.ac.in



OFF: (08812) 230840, 230565
FAX : (08812) 224193
Email: principal.sircrrengg@gmail.com

Sir C R Reddy College of Engineering , Vatluru, Eluru ,Eluru District , Andhra Pradesh, represented by its Principal, Dr. K . Venkateswara Rao, here in after referred to as Sir CRRCOE.

Both PITT and Sir CRRCOE are collectively referred to as the Parties and individually as a Party.

WHEREAS, PITT is an institution offering various undergraduate and postgraduate programs in engineering disciplines with state-of-the-art infrastructure and facilities;

WHEREAS, Sir CRRCOE is an institution offering various undergraduate and postgraduate programs in engineering disciplines with state-of-the-art infrastructure and facilities;

WHEREAS, both the Parties are committed to enhancing the quality of engineering education and research through collaboration and cooperation;

1. Objectives

The objectives of this MOU are:

- To conduct joint FDPs, workshops, seminars, both national and International Conferences on topics of mutual interest and relevance.
- To share the resources, expertise and best practices of both the institutions.
- To facilitate the participation of faculty members and students of both the institutions in the FDPs, workshops and seminars, both National and International Conferences conducted by either institution.
- To explore the possibilities of joint research projects, consultancy services and publications.

2. Scope

The scope of this MOU covers the following areas:

- **FDPs:** The Parties will jointly organize FDPs on emerging topics and technologies in engineering disciplines. The FDPs will be designed to enhance the knowledge, skills and competencies of the faculty members of both the institutions. The FDPs will be conducted either online or offline or in a blended mode as per the convenience and availability of the resource persons and participants. The duration, frequency, venue, fees, certificates and other details of the FDPs will be decided mutually by the Parties.
- **Workshops:** The Parties will jointly organize workshops on practical aspects and applications of engineering concepts and tools. The workshops will be aimed at providing hands-on experience and exposure to the faculty members and students of both the institutions. The workshops will be conducted either online or offline or in a blended mode as per the convenience and availability of the resource persons and participants. The duration, frequency, venue, fees, certificates and other details of the workshops will be decided mutually by the Parties.
- **Seminars:** The parties will jointly organize seminars on current issues and trends in engineering domains. The seminars will be intended to provide a platform for sharing ideas, insights and experiences among the faculty members and students of both the institutions. The seminars will be conducted either online or offline or in a blended mode as per the convenience and availability of the resource persons and participants. The duration, frequency, venue, fees, certificates and other details of the seminars will be decided mutually by the Parties.
- **Research and Incubation Cell:** The parties will explore the possibilities of undertaking joint research projects, consultancy services and publications in the areas of mutual interest and relevance. The parties will identify the research topics, objectives, methodology, funding, timeline, deliverables and other aspects of the research projects. The parties will also seek to publish the research outcomes in reputed journals and conferences. The parties will share the intellectual property rights, benefits and responsibilities arising from the research activities as per the agreed terms and conditions.
- **Exchange:** The parties will facilitate the exchange of faculty members and students for participating in the FDPs, workshops and seminars conducted by either party. The parties will also encourage the exchange of faculty members and students for pursuing research projects, consultancy services and publications. The parties will provide the

will also recognize the credits earned by the visiting faculty members and students as per the norms and regulations of their respective institutions.

- **National and International Conferences:** The parties will jointly organize National and International Conferences on current issues and trends in engineering domains. The background and context of the conference, such as the theme, objectives, expected outcomes, target audience. The roles and responsibilities of each party involved in the conference, such as the organizers, sponsors, speakers, participants. The terms and conditions of the collaboration, such as the duration, budget, resources, communication, reporting, evaluation. The signatures and dates of the authorized representatives of each party.

3. Coordination:

The parties will appoint a coordinator from each institution to oversee the implementation of this MOU. The coordinators will be responsible for:

- Communicating with each other on a regular basis to plan, execute and monitor the activities under this MOU.
- Liaising with the respective authorities, departments, faculty members and students of their institutions to facilitate the smooth functioning of the activities under this MOU.
- Resolving any issues or disputes that may arise during the course of this MOU.
- Preparing and submitting periodic reports on the progress and outcomes of the activities under this MOU.

The names and contact details of the coordinators are as follows:

<u>PITT:</u> Name of the Coordinator: Dr. A. SRIKANTH BABU Designation: Assoc.Professor in HOD – MBA Dept Emailid: srikanthannadasu@gmail.com Contact No: 8121303034	<u>Sir CRRCOE</u> Name of the Coordinator: Dr M. KRISHNA Designation: Professor, CSE Dept , Sir CRRCOE Email id: marlapallikrishna@gmail.com Contact No. : 9394501367
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4. Duration

This MOU will come into effect from the date of signing by both the parties and will remain valid for a period of One year from September 2021 to August 2022. The parties may extend or renew this MOU by mutual consent in writing before the expiry of this MOU.

5. Termination

Either party may terminate this MOU by giving an advance written notice of three months to the other party. The termination of this MOU will not affect the ongoing activities under this MOU, unless otherwise agreed by both the parties.

6. Amendment

This MOU may be amended by mutual consent of both the parties in writing. Any amendment to this MOU will be signed by both the parties and will form part of this MOU.



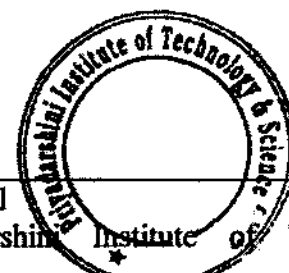
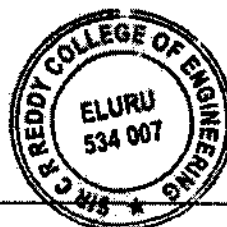
7. Arbitration

In case of any dispute or difference arising out of or in connection with this MOU, the parties will try to resolve it amicably through consultation and negotiation. If the dispute or difference remains unresolved after 30 days of consultation and negotiation, then it will be referred to arbitration by a sole arbitrator appointed by mutual consent of both the parties. The arbitration will be conducted in accordance with the Arbitration and Conciliation Act, 1996 or any statutory modification or re-enactment thereof. The venue of arbitration will be Narasaraopet, Andhra Pradesh. The language of arbitration will be English. The award of the arbitrator will be final and binding on both the parties.

8. Miscellaneous

- This MOU is not intended to create any legal or contractual obligations or liabilities on either party.
- This MOU is not intended to confer any rights or benefits on any third party.
- This MOU is subject to the laws of India and the jurisdiction of the courts at Tenali, Andhra Pradesh.
- This MOU is executed in two originals, one for each party.

IN WITNESS WHEREOF, both the Parties have signed this MOU on the date and place mentioned below:

<u>For PITT</u>	<u>For Sir CRRCOE</u>
Principal signature and name: Dr. N Lakshmi Narayana  Date: PRIYADARSHINI INSTITUTE OF TECHNOLOGY & SCIENCE Colleg CHINTALAPUDI, Duggirala Mdt. Guntur - 522 306	Principal signature and name:  Dr. K. Venkateswara Rao Principal Date: Sir C R Reddy College of Engineering ELURU - 534 007 College Seal :
 Principal Priyadarshini Institute of Technology & Science, Chintalapudi (V), Duggirala(Mdl), Guntur (Dt)-522 306, A.P, India Date: 02-08-2021.	 Principal Sir C R Reddy College of Engineering , Vatluru , Eluru -534007, Eluru District, A.P, India. Date: 02-08-2021.



PRIYADARSHINI INSTITUTE OF TECHNOLOGY AND SCIENCE

Chintalapudi, Near Tenali, Guntur-522 306
Approved by AICTE, New Delhi & Affiliation to JNTU Kakinada.

CERTIFICATE OF PARTICIPATION

This is to certify that

Dr./Mr./Mrs./Ms. V. Venkata Sujitha has participated in A One Week FDP
on **RECENT TRENDS IN GEOTECHNICAL ENGINEERNG** organized by
department of Civil Engineering, held at Priyadarshini Institute of Technology & Science,
Chintalapudi, Near Tenali, Guntur-522 306, INDIA, from 20/9/21 to 25/9/21.


Program Coordinator


Principal



SAMATA COLLEGE

Affiliated to Andhra University & Approved by AICTE

An ISO 9001: 2015 Certified Institution

SECTOR 10, MVP COLONY, VISAKHAPATNAM – 530 017. (A.P.)



MOU

SAMATA Degree College, Sector 10, MVP Colony, Visakhapatnam, Andhra Pradesh, India represented as head of the institute by its **Director and Incharge Principal Dr. G. Srinivasa Rao**, here in after referred to as **SDC**

AND

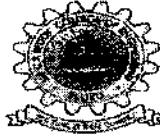
SIR C. R. REDDY COLLEGE OF ENGINEERING

ELURU-534007, West Godavari Dist., A.P., INDIA

APPROVED BY ALL INDIA COUNCIL FOR TECHNICAL EDUCATION, NEW DELHI,

PERMANENTLY AFFILIATED TO JNTUK, KAKINADA

www.sircrrengg.ac.in



OFF: (08812) 230840, 230565
FAX : (08812) 224193
Email: principal.sircrrengg@gmail.com

This Memorandum of Understanding (MOU) is made on this 12th August 2021 between:

Sir C R Reddy College of Engineering, Eluru, and Andhra Pradesh, India, represented by its principal, **Dr. K.Venkateswara Rao**, here in after referred to as **Sir CRRCOE**.

Both **Sir CRRCOE** and **SDC** are collectively referred to as the Parties and individually as a Party.

WHEREAS, **Sir CRRCOE** is an institution offering various undergraduate and postgraduate programs in engineering disciplines with state-of-the-art infrastructure and facilities;

WHEREAS, **SDC** is an institution offering various undergraduate programs in management sciences disciplines with state-of-the-art infrastructure and facilities;

WHEREAS, both the Parties are committed to enhancing the quality of engineering education, management science and research through collaboration and cooperation;

WHEREAS, both the Parties are committed to enhancing the quality of engineering education , management science and research through collaboration and cooperation;

NOW THEREFORE, the Parties agree as follows:

1. Objectives

The objectives of this MOU are:

- To conduct joint FDPs, workshops, seminars, both national and International Conferences on topics of mutual interest and relevance.
- To share the resources, expertise and best practices of both the institutions.
- To facilitate the participation of faculty members and students of both the institutions in the FDPs, workshops and seminars, both National and International Conferences conducted by either institution.
- To explore the possibilities of joint research projects, consultancy services and publications.

2. Scope

The scope of this MOU covers the following areas:

- **FDPs:** The Parties will jointly organize FDPs on emerging topics and technologies in engineering disciplines. The FDPs will be designed to enhance the knowledge, skills and competencies of the faculty members of both the institutions. The FDPs will be conducted either online or offline or in a blended mode as per the convenience and availability of the resource persons and participants. The duration, frequency, venue, fees, certificates and other details of the FDPs will be decided mutually by the Parties.
- **Workshops:** The Parties will jointly organize workshops on practical aspects and applications of engineering concepts and tools. The workshops will be aimed at providing hands-on experience and exposure to the faculty members and students of both the institutions. The workshops will be conducted either online or offline or in a blended mode as per the convenience and availability of the resource persons and participants. The duration, frequency, venue, fees, certificates and other details of the workshops will be decided mutually by the Parties.
- **Seminars:** The parties will jointly organize seminars on current issues and trends in engineering domains. The seminars will be intended to provide a platform for sharing ideas, insights and experiences among the faculty members and students of both the institutions. The seminars will be conducted either online or offline or in a blended

mode as per the convenience and availability of the resource persons and participants. The duration, frequency, venue, fees, certificates and other details of the seminars will be decided mutually by the Parties.

- **Research and Incubation Cell:** The parties will explore the possibilities of undertaking joint research projects, consultancy services and publications in the areas of mutual interest and relevance. The parties will identify the research topics, objectives, methodology, funding, timeline, deliverables and other aspects of the research projects. The parties will also seek to publish the research outcomes in reputed journals and conferences. The parties will share the intellectual property rights, benefits and responsibilities arising from the research activities as per the agreed terms and conditions.
- **Exchange:** The parties will facilitate the exchange of faculty members and students for participating in the FDPs, workshops and seminars conducted by either party. The parties will also encourage the exchange of faculty members and students for pursuing research projects, consultancy services and publications. The parties will provide the necessary support and assistance to the visiting faculty members and students in terms of accommodation, transportation, access to facilities and resources, etc. The parties will also recognize the credits earned by the visiting faculty members and students as per the norms and regulations of their respective institutions.
- **National and International Conferences:** The parties will jointly organize National and International Conferences on current issues and trends in engineering domains. The background and context of the conference, such as the theme, objectives, expected outcomes, target audience. The roles and responsibilities of each party involved in the conference, such as the organizers, sponsors, speakers, participants. The terms and conditions of the collaboration, such as the duration, budget, resources, communication, reporting, evaluation. The signatures and dates of the authorized representatives of each party.

3. Coordination:

The parties will appoint a coordinator from each institution to oversee the implementation of this MOU. The coordinators will be responsible for:

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- Liaising with the respective authorities, departments, faculty members and students of their institutions to facilitate the smooth functioning of the activities under this MOU.
- Resolving any issues or disputes that may arise during the course of this MOU.

- Preparing and submitting periodic reports on the progress and outcomes of the activities under this MOU.

The names and contact details of the coordinators are as follows:

<u>For Sir CRRCOE</u>	<u>For SDC</u>
Name of the Coordinator: Dr M. KRISHNA	Name of the Coordinator: Dr.S.Madhavi Latha
Designation: Professor, CSE Dept , Sir CRRCOE	Professor, MBA Dept , SAMATA Degree College, Sector 10, MVP Colony, Visakhapatnam, Andhra Pradesh- 530017
Emailid: marlapallikrishna@gmail.com	Contact Details: 9246619078
Contact No. : 9394501367	E-mails: madhavivakula@gmail.com
Web: https://sircrengg.ac.in/	Web: https://samatacollege.co.in/

4. Duration

This MOU will come into effect from the date of signing by both the parties and will remain valid for a period of ONE year from **August 2021 to August 2022**. The parties may extend or renew this MOU by mutual consent in writing before the expiry of this MOU.

5. Termination

Either party may terminate this MOU by giving an advance written notice of three months to the other party. The termination of this MOU will not affect the ongoing activities under this MOU, unless otherwise agreed by both the parties.

6. Amendment

This MOU may be amended by mutual consent of both the parties in writing. Any amendment to this MOU will be signed by both the parties and will form part of this MOU.

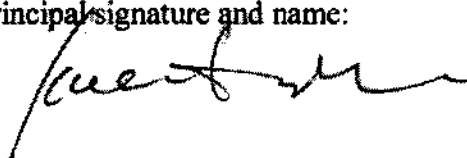


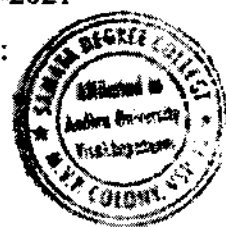
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- This MOU is not intended to create any legal or contractual obligations or liabilities on either party.
- This MOU is not intended to confer any rights or benefits on any third party.
- This MOU is subject to the laws of India and the jurisdiction of the courts at Vijayawada, Andhra Pradesh.
- This MOU is executed in two originals, one for each party.

IN WITNESS WHEREOF, both the Parties have signed this MOU on the date and place mentioned below:

<p>For Sir CRRCOE Principal signature and name:  Dr. K. Venkateswara Rao Date : 12-08-2021 Principal College Sir C R Reddy College of Engineering ELURU - 534 007</p> 	<p>For SDC Director & Incharge Principal signature and name:  Dr. G. Srinivasa Rao Date : 12-08-2021 College Seal: </p>
--	--

Principal
Sir C R Reddy College of Engineering,
Vatluru, Eluru-534007
Eluru District, A.P, India.
Place:Eluru

Principal
Address : SAMATA Degree College,
Sector 10, MVP Colony
Visakhapatnam, Andhra Pradesh- 530017
A.P, India
Place: Visakhapatnam



SAMATA DEGREE COLLEGE

Affiliated to Andhra University & Approved by AICTE

An ISO 9001 : 2015 Certified Institution

M.V.P. COLONY, VISAKHAPATNAM - 530017. (A.P.)

alwar das grōp

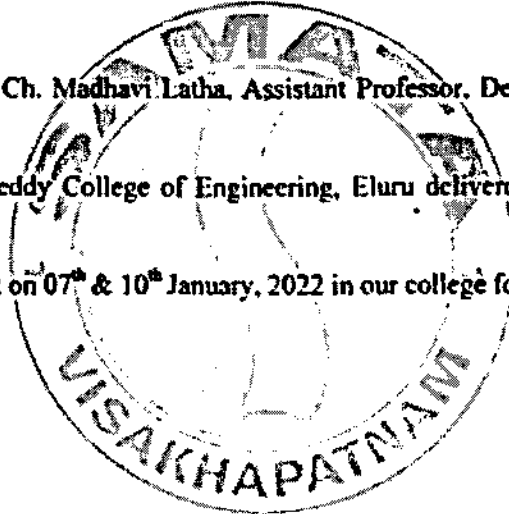
Prof. G. Srinivasa Rao
M.Sc., MBA., M.Phil., Ph.D., PGDCA
DIRECTOR & Ue. PRINCIPAL

Date: 10/01/2022

FACULTY EXCHANGE PROGRAMME

Attendance Certificate

This is to certify that Ch. Madhavi Latha, Assistant Professor, Department of Management Studies, SIR C. R. Reddy College of Engineering, Eluru delivered a series of lectures on Portfolio Management on 07th & 10th January, 2022 in our college for II year MBA Students.



We Teach, We Train
We Produce the Best



Director



IDEAL INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada
Vidyutnagar, KAKINADA - 533 003. (A.P.)

Mobile : 9848179610, 80085 64954 Ph : +0884 - 2363345

Web : www.idealtech.edu.in

Email : 6k.principal@jntuk.edu.in

Dr. T. Srikanth, B.E., M.Tech., Ph.D.

Principal

MOU

This Memorandum of Understanding (MOU) is made on this 23rd August 2021 between:

IDEAL INSTITUTE OF TECHNOLOGY, Vidyut Nagar, Kakinada, Andhra Pradesh 533003 represented by its **Principal Dr. T. Srikanth**, here in after referred to as **IDEAL**

AND

Sir C R Reddy College of Engineering, Eluru, and Andhra Pradesh, India, represented by its Principal, **Dr.K.Venkateswara Rao**, here in after referred to as **Sir CRRCOE**.

Both **IDEAL** and **Sir CRRCOE** are collectively referred to as the Parties and individually as a Party.

WHEREAS, **IDEAL** is an institution offering various undergraduate and postgraduate programs in engineering disciplines with state-of-the-art infrastructure and facilities;

WHEREAS, **Sir CRRCOE** is an institution offering various undergraduate programs in engineering disciplines with state-of-the-art infrastructure and facilities;

WHEREAS, both the Parties are committed to enhancing the quality of engineering education and research through collaboration and cooperation:

NOW THEREFORE, the Parties agree as follows:

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- To share the resources, expertise and best practices of both the institutions.

Sponsored by

GOVERNING BODY OF IDEAL COLLEGE OF ARTS AND SCIENCES, KAKINADA

Ph : 0884-2384382

- To facilitate the participation of faculty members and students of both the institutions in the FDPs, workshops and seminars, both National and International Conferences conducted by either institution.
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- Liaising with the respective authorities, departments, faculty members and students of their institutions to facilitate the smooth functioning of the activities under this MOU.
- Resolving any issues or disputes that may arise during the course of this MOU.
- Preparing and submitting periodic reports on the progress and outcomes of the activities under this MOU.

The names and contact details of the coordinators are as follows:

<u>IDEAL</u>	<u>Sir CRRCOE</u>
Name of the Coordinator: Mrs. Radhika Krupalini Professor, CSE Dept., Ideal Institute of Technology, Vidyut Nagar, Kakinada-533003 Contact Details: 9246691771 E-mails: 6k.principal@jntuk.edu.in Web: www.idealtech.edu.in	Name of the Coordinator: Dr M. KRISHNA Designation: Professor, CSE Dept, Sir CRRCOE Emailid: madhapal.krishna@gmail.com Contact No. : 9394501367 Web: https://sircrengg.ac.in/

4. Duration

This MOU will come into effect from the date of signing by both the parties and will remain valid for a period of ONE year from August 2021 to August 2022. The parties may extend or renew this MOU by mutual consent in writing before the expiry of this MOU.

5. Termination

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6. Amendment

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- This MOU is not intended to confer any rights or benefits on any third party.
- This MOU is subject to the laws of India and the jurisdiction of the courts at Vijayawada, Andhra Pradesh.
- This MOU is executed in two originals, one for each party.

IN WITNESS WHEREOF, both the Parties have signed this MOU on the date and place mentioned below:

<p>For IDEAL Principal signature and name: Dr.T.Srikanth <i>T. Srikanth</i> 23/8/21 Date : 23-08-2021 College Seal: </p>	<p>For Sir CRRCOE Principal signature and name: Dr.K.Venkateswara Rao <i>K. Venkateswara Rao</i> Principal Sir C R Reddy College of Engineering Date : 23-08-2021 ELURU - 534 007 College Seal : </p>
--	--

Principal
Address : Ideal Institute of Technology
Vidyut Nagar, Kakinada -533003.
Kakinada District, A.P. India
Place: Kakinda

Principal
Sir C R Reddy College of Engineering ,
Vatluru, Eluru-534007,
Eluru District, A.P, India.
Place: Eluru



IDEAL
INSTITUTE OF TECHNOLOGY

Certificate of Participation

This is to Certify that

Mr. S.M.B. Chowdary

of *Sri C. R. Reddy College of Engineering*
has participated in **One Week Online Faculty Development Program**
on

"INTRODUCTION TO CHAT GPT AND AI TOOLS"

Organized by
Ideal Institute of Technology, Kakinada
Department of Computer Science and Engineering
from 17th to 22nd January 2022

P. Radhika

P RADHIKA KRUPALINI
CONVENER

M.S.R.S. Prasad

M.S.R.S.PRASAD
HOD

Dr. T. Srikanth

Dr. T. Srikanth
PRINCIPAL



IDEAL

INSTITUTE OF TECHNOLOGY

Certificate of Participation

This is to Certify that

Ms. CH. Rama Devi

of *Sri C R Reddy College of Engineering*
has participated in **One Week Online Faculty Development Program**
on

"INTRODUCTION TO CHAT GPT AND AI TOOLS"

Organized by
Ideal Institute of Technology, Kakinada
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P. Radhika

P RADHIKA KRUPALINI
CONVENER

M.S.R.S. Prasad

M.S.R.S.PRASAD
HOD

Dr. T. Srikanth

Dr. T. Srikanth
PRINCIPAL

Sir C R Reddy College of Engineering
Eluru-534007, Eluru Dist., A.P., India
www.sircrrengg.ac.in
OFF: (08812) 230840, 230565
FAX: (08812) 224193
Email: principal.sircrrengg@gmail.com

SkillDzire Technologies Private Limited
04th Floor, Bizness Square,
opp: Hitex Junction, HITEC City,
Hyderabad, Telangana 500081
Phone: +91 8019692530

**SIR C.R.REDDY COLLEGE OF ENGINEERING, ELURU
DEPARTMENT OF CIVIL ENGINEERING**

Dt: 30-11-2021.

MEMORANDUM OF UNDERSTANDING (MOU)

This MOU is between the Department of Civil Engineering, of Sir C.R.Reddy College of Engineering and SkillDzire Technologies Private Limited., for the purpose of enriching the technical education process and for continuous interaction between industry and institution.

SIR C R REDDY COLLEGE OF ENGINEERING, Eluru is located at Vatluru, Eluru W.G. District, A.P., India is approved by AICTE, New Delhi, Govt. of A.P. and affiliated to JNTU Kakinada. The institute is accredited by NBA & NAAC and also certified by ISO 9001:2008.

SKILLDZIRE TECHNOLOGIES PRIVATE LIMITED is India's largest Real-time learning platform Located in Hyderabad where students get trained by industry experts along with certifications in the domain of the Civil Engineering Department.

Terms & Conditions:

1. Nature of Relationship

- 1.1. This MOU is for collaboration between both parties, for mutual benefit, for many purposes set out in Annexure-I to enhance the quality of the educational experience for Civil Engg. Department.
- 1.2. This MOU shall be valid for 5 Years from the date and each party shall be at full liberty to terminate the collaboration with a notice period of 3 months.
- 1.3. Both parties shall take all reasonable steps to ensure the successful completion of the collaboration and cooperate with each other duly carrying out the obligation agreed upon.

2. Mutual Obligations

- 2.1. This Collaboration shall not be exclusive to both parties and shall not disallow each party from having similar collaboration with others. Except as expressly stated in this MOU, there shall be no obligation on any party to compensate the other in any manner.
- 2.2. Each party shall meet the expenses between them as mutually agreed.
- 2.3. Each party shall respect the other's intellectual property (IP) and shall not use any trade name, trademark, symbol or designation belonging to the other, without prior written approval. No party shall represent themselves as an agent or representative of the other, nor create any liabilities for the other party. Each party shall indemnify the other in the event of a breach of this clause.

3. Limitations and Warranties

- 3.1. Each party shall ensure that the other is not put to any liability for any actions of the one party.
- 3.2. Each party represents that they have the full power and authority to enter in to MOU in general.

mode as per the convenience and availability of the resource persons and participants. The duration, frequency, venue, fees, certificates and other details of the seminars will be decided mutually by the Parties.

- **Research and Incubation Cell:** The parties will explore the possibilities of undertaking joint research projects, consultancy services and publications in the areas of mutual interest and relevance. The parties will identify the research topics, objectives, methodology, funding, timeline, deliverables and other aspects of the research projects. The parties will also seek to publish the research outcomes in reputed journals and conferences. The parties will share the intellectual property rights, benefits and responsibilities arising from the research activities as per the agreed terms and conditions.
- **Exchange:** The parties will facilitate the exchange of faculty members and students for participating in the FDPs, workshops and seminars conducted by either party. The parties will also encourage the exchange of faculty members and students for pursuing research projects, consultancy services and publications. The parties will provide the necessary support and assistance to the visiting faculty members and students in terms of accommodation, transportation, access to facilities and resources, etc. The parties will also recognize the credits earned by the visiting faculty members and students as per the norms and regulations of their respective institutions.
- **National and International Conferences:** The parties will jointly organize National and International Conferences on current issues and trends in engineering domains. The background and context of the conference, such as the theme, objectives, expected outcomes, target audience. The roles and responsibilities of each party involved in the conference, such as the organizers, sponsors, speakers, participants. The terms and conditions of the collaboration, such as the duration, budget, resources, communication, reporting, evaluation. The signatures and dates of the authorized representatives of each party.

3. Coordination:

The parties will appoint a coordinator from each institution to oversee the implementation of this MOU. The coordinators will be responsible for:

- Communicating with each other on a regular basis to plan, execute and monitor the activities under this MOU.
- Liaising with the respective authorities, departments, faculty members and students of their institutions to facilitate the smooth functioning of the activities under this MOU.
- Resolving any issues or disputes that may arise during the course of this MOU.

- Preparing and submitting periodic reports on the progress and outcomes of the activities under this MOU.

The names and contact details of the coordinators are as follows:

<u>For Sir CRRCOE</u>	<u>For SDC</u>
Name of the Coordinator: Dr M. KRISHNA Designation: Professor, CSE Dept , Sir CRRCOE Emailid: marlapallikrishna@gmail.com Contact No. : 9394501367 Web: https://sircrengg.ac.in/	Name of the Coordinator: Dr.S.Madhavi Latha Professor, MBA Dept , SAMATA Degree College, Sector 10, MVP Colony, Visakhapatnam, Andhra Pradesh- 530017 Contact Details: 9246619078 E-mails: madhavivakula@gmail.com Web: https://samatacollege.co.in/

4. Duration

This MOU will come into effect from the date of signing by both the parties and will remain valid for a period of ONE year from **August 2021 to August 2022**. The parties may extend or renew this MOU by mutual consent in writing before the expiry of this MOU.

5. Termination

Either party may terminate this MOU by giving an advance written notice of three months to the other party. The termination of this MOU will not affect the ongoing activities under this MOU, unless otherwise agreed by both the parties.

6. Amendment

This MOU may be amended by mutual consent of both the parties in writing. Any amendment to this MOU will be signed by both the parties and will form part of this MOU.

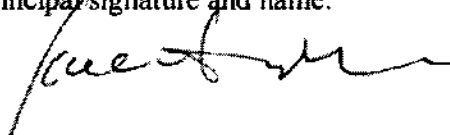



7. Arbitration

In case of any dispute or difference arising out of or in connection with this MOU, the parties will try to resolve it amicably through consultation and negotiation. If the dispute or difference remains unresolved after 30 days of consultation and negotiation, then it will be referred to arbitration by a sole arbitrator appointed by mutual consent of both the parties. The arbitration will be conducted in accordance with the Arbitration and Conciliation Act, 1996 or any statutory modification or re-enactment thereof. The venue of arbitration will be Vijayawada, Andhra Pradesh. The language of arbitration will be English. The award of the arbitrator will be final and binding on both the parties.

8. Miscellaneous

- This MOU is not intended to create any legal or contractual obligations or liabilities on either party.
- This MOU is not intended to confer any rights or benefits on any third party.
- This MOU is subject to the laws of India and the jurisdiction of the courts at Vijayawada, Andhra Pradesh.
- This MOU is executed in two originals, one for each party.

IN WITNESS WHEREOF, both the Parties have signed this MOU on the date and place mentioned below:

<p>For Sir CRRCOE Principal signature and name:  Dr. K. Venkateswara Rao Date : 12-08-2021 Principal College Sir C R Reddy College of Engineering ELURU - 534 007</p> 	<p>For SDC Director & Incharge Principal signature and name:  Dr. G. Srinivasa Rao Date : 12-08-2021 College Seal: </p>
---	--

Principal
Sir C R Reddy College of Engineering ,
Vatluru, Eluru-534007
Eluru District, A.P, India.
Place:Eluru

Principal
Address : SAMATA Degree College,
Sector 10, MVP Colony
Visakhapatnam, Andhra Pradesh- 530017
A.P, India
Place: Visakhapatnam

CERTIFICATE OF INTERNSHIP

This certificate is presented to

Bajaru Naveen (21B81A0102)

From **Sir C.R.Reddy College of Engineering**

in recognition of his/her hardwork and dedication in completing

Rivet Architecture

From **18-May-2023** To **30-July-2023**

The remarkable level of knowledge and skills demonstrated
throughout the program has earned the recipient this award.

Date - 30-July-2023

#startupindia



CERTIFICATE OF INTERNSHIP

This certificate is presented to

Chilla Niteesh Kumar Reddy (8074717297)

From **Sir C.R.Reddy College of Engineering** _____

in recognition of his/her hardwork and dedication in completing

Rivet Architecture

From **15-May-2023** To **18-June-2023**

The remarkable level of knowledge and skills demonstrated throughout the program has earned the recipient this award.

Date - **18-June-2023**

#startupindia



CERTIFICATE OF INTERNSHIP

This certificate is presented to

Katuri Kavitha (21B81A0107)

From **Sir C.R.Reddy College of Engineering**

in recognition of his/her hardwork and dedication in completing

Rivet Architecture

From **16-May-2023** To **19-June-2023**

The remarkable level of knowledge and skills demonstrated throughout the program has earned the recipient this award.

Date - 19-June-2023



#startupindia



CERTIFICATE OF INTERNSHIP

This certificate is presented to

Kommana Naga Anantha Sarika (21B81A0108)

From **Sir C.R.Reddy College of Engineering**

in recognition of his/her hardwork and dedication in completing

Rivet Architecture

From **16-May-2023** To **19-June-2023**

The remarkable level of knowledge and skills demonstrated throughout the program has earned the recipient this award.

Date - 19-June-2023

#startupindia



WHEREAS, both the Parties are committed to enhancing the quality of engineering education and research through collaboration and cooperation;

NOW THEREFORE, the Parties agree as follows:

1. Objectives

The objectives of this MOU are:

- To conduct joint FDPs, workshops, seminars, both national and International Conferences on topics of mutual interest and relevance.
- To share the resources, expertise and best practices of both the institutions.
- To facilitate the participation of faculty members and students of both the institutions in the FDPs, workshops and seminars, both National and International Conferences conducted by either institution.
- To explore the possibilities of joint research projects, consultancy services and publications.

2. Scope

The scope of this MOU covers the following areas:

- **FDPs:** The Parties will jointly organize FDPs on emerging topics and technologies in engineering disciplines. The FDPs will be designed to enhance the knowledge, skills and competencies of the faculty members of both the institutions. The FDPs will be conducted either online or offline or in a blended mode as per the convenience and availability of the resource persons and participants. The duration, frequency, venue, fees, certificates and other details of the FDPs will be decided mutually by the Parties.
- **Workshops:** The Parties will jointly organize workshops on practical aspects and applications of engineering concepts and tools. The workshops will be aimed at providing hands-on experience and exposure to the faculty members and students of both the institutions. The workshops will be conducted either online or offline or in a blended mode as per the convenience and availability of the resource persons and participants. The duration, frequency, venue, fees, certificates and other details of the workshops will be decided mutually by the Parties.
- **Seminars:** The parties will jointly organize seminars on current issues and trends in engineering domains. The seminars will be intended to provide a platform for sharing ideas, insights and experiences among the faculty members and students of both the institutions. The seminars will be conducted either online or offline or in a blended



RAJAMAHENDRI INSTITUTE OF ENGINEERING & TECHNOLOGY

(Approved by AICTE, New Delhi, Affiliated to JNTUK, Kakinada, Accredited by MAAC)

BHOOPALAPATNAM, RAJAMAHENDRAVARAM, E.G. Dist., AP, 533107.

eMail: office@rietry.co.in Website: www.rietry.co.in Ph: +91 91212 14413

MOU

This Memorandum of Understanding (MOU) is made on this 4th October , 2021 between:



RAJAMAHENDRI INSTITUTE OF ENGINEERING AND TECHNOLOGY
Bhoopalapatnam, Pidimgoyyi, Rajamahendravaram, Andhra Pradesh 533107
represented by its Principal Dr.V.Lakshminarayana, Head of the Institution, here
in after referred to as **RIET**;

AND

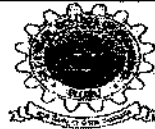
SIR C. R. REDDY COLLEGE OF ENGINEERING

ELURU-534007, West Godavari Dist., A.P., INDIA

APPROVED BY ALL INDIA COUNCIL FOR TECHNICAL EDUCATION, NEW DELHI,

PERMANENTLY AFFILIATED TO JNTUK, KAKINADA

www.sircrengg.ac.in



OFF: (08812) 230840, 230565
FAX : (08812) 224193
Email: principal.sircrengg@gmail.com

Sir C R Reddy College of Engineering, Eluru, and Andhra Pradesh, India, represented by its principal, **Dr.K.Venkateswara Rao**, here in after referred to as **Sir CRRCOE**.

Both **RIET** and **Sir CRRCOE** are collectively referred to as the Parties and individually as a Party.

WHEREAS, **RIET** is an institution offering various undergraduate programs in engineering disciplines with state-of-the-art infrastructure and facilities;

mode as per the convenience and availability of the resource persons and participants. The duration, frequency, venue, fees, certificates and other details of the seminars will be decided mutually by the Parties.

- **Research and Incubation Cell:** The parties will explore the possibilities of undertaking joint research projects, consultancy services and publications in the areas of mutual interest and relevance. The parties will identify the research topics, objectives, methodology, funding, timeline, deliverables and other aspects of the research projects. The parties will also seek to publish the research outcomes in reputed journals and conferences. The parties will share the intellectual property rights, benefits and responsibilities arising from the research activities as per the agreed terms and conditions.
- **Exchange:** The parties will facilitate the exchange of faculty members and students for participating in the FDPs, workshops and seminars conducted by either party. The parties will also encourage the exchange of faculty members and students for pursuing research projects, consultancy services and publications. The parties will provide the necessary support and assistance to the visiting faculty members and students in terms of accommodation, transportation, access to facilities and resources, etc. The parties will also recognize the credits earned by the visiting faculty members and students as per the norms and regulations of their respective institutions.
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The parties will appoint a coordinator from each institution to oversee the implementation of this MOU. The coordinators will be responsible for:

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- Liaising with the respective authorities, departments, faculty members and students of their institutions to facilitate the smooth functioning of the activities under this MOU.

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- Resolving any issues or disputes that may arise during the course of this MOU.
- Preparing and submitting periodic reports on the progress and outcomes of the activities under this MOU.

The names and contact details of the coordinators are as follows:

<u>IDEAL</u>	<u>Sir CRRCOE</u>
Name of the Coordinator: Mrs. Radhika Krupalini Professor, CSE Dept., Ideal Institute of Technology, Vidyut Nagar, Kakinada-533003 Contact Details: 9246691771 E-mails: 6k.principal@jntuk.edu.in Web: www.idealtech.edu.in	Name of the Coordinator: Dr. M. KRISHNA Designation: Professor, CSE Dept., Sir CRRCOE Emailid: marlapallikrishna@gmail.com Contact No. : 9394501367 Web: https://sirrengg.ac.in/

4. Duration

This MOU will come into effect from the date of signing by both the parties and will remain valid for a period of ONE year from August 2021 to August 2022. The parties may extend or renew this MOU by mutual consent in writing before the expiry of this MOU.

5. Termination

Either party may terminate this MOU by giving an advance written notice of three months to the other party. The termination of this MOU will not affect the ongoing activities under this MOU, unless otherwise agreed by both the parties.

6. Amendment

This MOU may be amended by mutual consent of both the parties in writing. Any amendment to this MOU will be signed by both the parties and will form part of this MOU.

7. Arbitration

In case of any dispute or difference arising out of or in connection with this MOU, the parties will try to resolve it amicably through consultation and negotiation. If the dispute or difference remains unresolved after 30 days of consultation and negotiation, then it will be referred to arbitration by a sole arbitrator appointed by mutual consent of both the parties. The arbitration will be conducted in accordance with the Arbitration and Conciliation Act, 1996 or any statutory modification or re-enactment thereof. The venue of arbitration will be Vijayawada, Andhra Pradesh. The language of arbitration will be English. The award of the arbitrator will be final and binding on both the parties.

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- This MOU is not intended to confer any rights or benefits on any third party.
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- This MOU is executed in two originals, one for each party.

IN WITNESS WHEREOF, both the Parties have signed this MOU on the date and place mentioned below:

For IDEAL Principal signature and name: Dr.T.Srikanth Date : 23-08-2021 College Seal:	For Sir CRRCOE Principal signature and name: Dr.K.Venkateswara Rao Principal Sir C R Reddy College of Engineering Date : 23-08-2021 ELURU - 534 007 College Seal :
--	---

Principal
Address : Ideal Institute of Technology
Vidyut Nagar,Kakinada -533003,
Kakinada District, A.P, India
Place:Kakinda

Principal
Sir C R Reddy College of Engineering ,
Vatluru, Eluru-534007,
Eluru District, A.P. India.
Place:Eluru



**RAJAMAHENDRI
INSTITUTE OF ENGINEERING & TECHNOLOGY**

Approved by AICTE, New Delhi Affiliated by JNTUK
Accredited by NAAC Bhoopalapatnam, RAJAMAHENDRAVARAM, AP

✉ : office@rietrvjy.co.in

🌐 : www.rietrvjy.co.in

☎ : +91 9121214413

Certificate of participation

This is to Certify that *Dr./Ms./Mr./Mrs. K.N. Madhavi Lakshmi* working
as *Prof. /Assoc. Prof. /Asst. Prof. in Sir C.R.R. College of Engg* College
has participated "A One Week Faculty Development Program on Recent Trends in Security:
IOT, Block chain, and Cyber Security" from 23-05-2022 to 28-05-2022

[Signature]
Coordinator

[Signature]
HOD

[Signature]
Principal





RAJAMAHENDRI INSTITUTE OF ENGINEERING & TECHNOLOGY

Approved by AICTE, New Delhi | Affiliated by JNTUK

Accredited by NAAC Bhoopalapatnam, RAJAMAHENDRAVARAM, AP

✉ : office@rietry.co.in

🌐 : www.rietry.co.in

☎ : +91 912121441

Certificate of Participation

This is to Certify that Dr./Ms./Mr./Mrs. V. SURENDRA BABU
working as Prof./Assoc. Prof./Assi. Prof. in SIR CRR COLLEGE OF ENGG
has participated as delegate in the "A One Week Faculty Development Program on
Artificial Intelligence in VLSI Chip" from 15-11-2021 to 20-11-2021



[Signature]
Coordinator

[Signature]
D. H. *[Signature]*
HOD

[Signature]
Principal





VISAKHA
INSTITUTE OF ENGINEERING & TECHNOLOGY
APPROVED BY AICTE, NEW DELHI
(Affiliated to JNTUK, Kakinada)
57th Division, GVMC, Narava, Visakhapatnam
DIPLOMA | ENGINEERING | MANAGEMENT



COLLEGE CODE
VSPT

NOW THEREFORE, the Parties agree as follows:

1. Objectives

The objectives of this MOU are:

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- To share the resources, expertise and best practices of both the institutions.
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INSTITUTE OF ENGINEERING & TECHNOLOGY
APPROVED BY AICTE, NEW DELHI
(Affiliated to JNTUK, Kakinada)
57th Division, GVMC, Narava, Visakhapatnam
DIPLOMA | ENGINEERING | MANAGEMENT



COLLEGE CODE
VSPT

- **Research and Incubation Cell:** The parties will explore the possibilities of undertaking joint research projects, consultancy services and publications in the areas of mutual interest and relevance. The parties will identify the research topics, objectives, methodology, funding, timeline, deliverables and other aspects of the research projects. The parties will also seek to publish the research outcomes in reputed journals and conferences. The parties will share the intellectual property rights, benefits and responsibilities arising from the research activities as per the agreed terms and conditions.
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- Liaising with the respective authorities, departments, faculty members and students of their institutions to facilitate the smooth functioning of the activities under this MOU.
- Resolving any issues or disputes that may arise during the course of this MOU.



VISAKHA
INSTITUTE OF ENGINEERING & TECHNOLOGY
APPROVED BY AICTE, NEW DELHI
(Affiliated to JNTUK, Kakinada)
57th Division, GVMC, Narava, Visakhapatnam
DIPLOMA | ENGINEERING | MANAGEMENT



COLLEGE CODE
VSPT

- Preparing and submitting periodic reports on the progress and outcomes of the activities under this MOU.

The names and contact details of the coordinators are as follows:

<u>VIET:</u>	<u>Sir CRRCOE</u>
Name of the Coordinator Mrs.K.Chandana Associate Professor , Mechanical Engineering Contact Details: 7981431817 E-mails: iqac@viet.edu.in Web: https://viet.edu.in/	Name of the Coordinator: Dr M. KRISHNA Designation: Professor, CSE Dept , Sir CRRCOE Emailid: marlapallikrishna@gmail.com Contact No. : 9394501367

4. Duration

This MOU will come into effect from the date of signing by both the parties and will remain valid for a period of ONE year from November 2021 to November 2022. The parties may extend or renew this MOU by mutual consent in writing before the expiry of this MOU.

5. Termination

Either party may terminate this MOU by giving an advance written notice of three months to the other party. The termination of this MOU will not affect the ongoing activities under this MOU, unless otherwise agreed by both the parties.

6. Amendment

This MOU may be amended by mutual consent of both the parties in writing. Any amendment to this MOU will be signed by both the parties and will form part of this MOU.

7. Arbitration

In case of any dispute or difference arising out of or in connection with this MOU, the parties will try to resolve it amicably through consultation and negotiation. If the dispute or difference remains unresolved after 30 days of consultation and negotiation, then it will be referred to arbitration by a sole arbitrator appointed by mutual consent of both the parties. The arbitration will be conducted in accordance with the Arbitration and Conciliation Act, 1996 or any statutory modification or re-enactment thereof. The venue



VISAKHA
INSTITUTE OF ENGINEERING & TECHNOLOGY
APPROVED BY AICTE, NEW DELHI
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DIPLOMA | ENGINEERING | MANAGEMENT



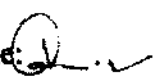
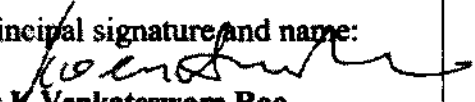
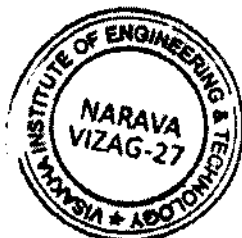

COLLEGE CODE
VSPT

of arbitration will be Vijayawada, Andhra Pradesh. The language of arbitration will be English. The award of the arbitrator will be final and binding on both the parties.

8. Miscellaneous

- This MOU is not intended to create any legal or contractual obligations or liabilities on either party.
- This MOU is not intended to confer any rights or benefits on any third party.
- This MOU is subject to the laws of India and the jurisdiction of the courts at Vijayawada, Andhra Pradesh.
- This MOU is executed in two originals, one for each party.

IN WITNESS WHEREOF, both the Parties have signed this MOU on the date and place mentioned below:

<u>For VIET</u>	<u>For Sir CRRCOE</u>
Principal signature and name: 	Principal signature and name: 
Dr. V. Sridhar Patnaik PRINCIPAL	Dr. K. Venkateswara Rao Principal
Date : 18-11-2021	Date : 18-11-2021
College seal: 	Sir C R Reddy College of Engineering ELURU - 534 007
	College Seal : 

Principal
Visakha Institute of Engineering
& Technology, Narava
Visakhapatnam.

Principal
Sir C R Reddy College of
Engineering ,
Vatluru ,Eluru-534007,
Eluru District, A.P, India.
Place:Eluru
Andhra Pradesh – 521108

- Resolving any issues or disputes that may arise during the course of this MOU.
- Preparing and submitting periodic reports on the progress and outcomes of the activities under this MOU.

The names and contact details of the coordinators are as follows:

<p><u>RIET:</u> Address :Bhoopalapatnam, Pidimgoyyi, Rajahmahendravaram-533107 Contact Details: 9121214413 E-mails: office&rietrjy.co.in Web: www.rietrjy.co.in</p>	<p><u>Sir CRRCOE</u> Name of the Coordinator: Dr M. KRISHNA Designation: Professor, CSE Dept , Sir CRRCOE Emailid:marlapallikrishna@gmail.com Contact No. : 9394501367</p>
---	--

4. Duration

This MOU will come into effect from the date of signing by both the parties and will remain valid for a period of ONE year from **October 2021 to October 2022**. The parties may extend or renew this MOU by mutual consent in writing before the expiry of this MOU.

5. Termination

Either party may terminate this MOU by giving an advance written notice of three months to the other party. The termination of this MOU will not affect the ongoing activities under this MOU, unless otherwise agreed by both the parties.

6. Amendment

This MOU may be amended by mutual consent of both the parties in writing. Any amendment to this MOU will be signed by both the parties and will form part of this MOU.



7. Arbitration

In case of any dispute or difference arising out of or in connection with this MOU, the parties will try to resolve it amicably through consultation and negotiation. If the dispute or difference remains unresolved after 30 days of consultation and negotiation, then it will be referred to arbitration by a sole arbitrator appointed by mutual consent of both the parties. The arbitration will be conducted in accordance with the Arbitration and Conciliation Act, 1996 or any statutory modification or re-enactment thereof. The venue of arbitration will be Vijayawada, Andhra Pradesh. The language of arbitration will be English. The award of the arbitrator will be final and binding on both the parties.

8. Miscellaneous

- This MOU is not intended to create any legal or contractual obligations or liabilities on either party.
- This MOU is not intended to confer any rights or benefits on any third party.
- This MOU is subject to the laws of India and the jurisdiction of the courts at Vijayawada, Andhra Pradesh.
- This MOU is executed in two originals, one for each party.

IN WITNESS WHEREOF, both the Parties have signed this MOU on the date and place mentioned below:

<p>For RIET Principal signature and name: <i>H. Murali Krishna</i> Dr.M.Murali Krishna Date : 28-02-2021 Principal RAJAMAHENDRI INSTITUTE OF ENGINEERING TECHNOLOGY BHOOPALAPATNAM, RAJAMAHENDRAVARAM-533 107, E.G.Dist.</p> 	<p>For Sir CRRCOE Principal signature and name: <i>Dr. K. Venkateswara Rao</i> Dr.K. Venkateswara Rao Date : 28-02-2021 Principal Sir C R Reddy College of Engineering College Seal : ELURU - 534 007</p> 
--	--

Principal
Address :Bhoopalapatnam, Pidimgoyyi
Rajamahendravaram -533107,
A.P, India
Place:Bhoopalapatnam

Principal
Sir C R Reddy College of Engineering ,
Vatluru, Eluru-534007,
Eluru District, A.P, India.
Place:Eluru



VISAKHA
INSTITUTE OF ENGINEERING & TECHNOLOGY
APPROVED BY AICTE, NEW DELHI
(Affiliated to JNTUK, Kakinada)
57th Division, GVMC, Narava, Visakhapatnam
DIPLOMA | ENGINEERING | MANAGEMENT



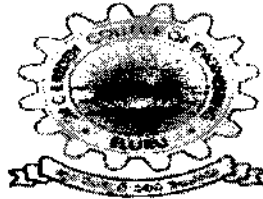
COLLEGE CODE
VSPT

MOU

This Memorandum of Understanding (MOU) is made on this 18th November, 2021 between:

Visakha Institute of Engineering & Technology, 88th division, Narava, Visakhapatnam, represented by its **Principal Dr.V.Sridhar Patnaik, Head of the Institution** here in after referred to as **"VIET"**.

AND



SIR C R REDDY COLLEGE OF ENGINEERING

Vatluru ,Eluru , Andhra Pradesh, India

Sir C R Reddy College of Engineering, Vatluru ,Eluru , Andhra Pradesh, India, represented by its **Principal, Dr.K.Venkateswara Rao, Head of the Institution** here in after referred to as **"Sir CRRCOE"**.

Both **VIET** and **Sir CRRCOE** are collectively referred to as the Parties and individually as a Party.

WHEREAS, **VIET** is an institution offering various undergraduate and postgraduate programs in engineering disciplines with state-of-the-art infrastructure and facilities.

WHEREAS, **Sir CRRCOE** is an institution offering various undergraduate and postgraduate programs in engineering disciplines with state-of-the-art infrastructure and facilities;

WHEREAS, both the Parties are committed to enhancing the quality of Engineering Education and Research through collaboration and cooperation;

4. General

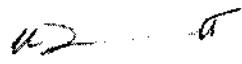
- 4.1. Both parties will designate a representative from its side who will be the primary point of contact on behalf of that party.
- 4.2. Both parties shall not use the name of the other in any advertisement or make any public announcement without the prior written approval of the other.
- 4.3. Both parties will be regularly in touch with each other and explore setting up/development of related research projects in the college/industry.

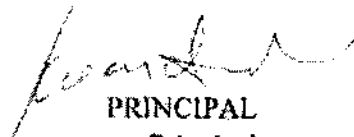
The aforementioned Memorandum of Understanding (MOU) will take effect starting from December 1, 2021.

For M/s.SkillDzire Technologies Private Limited, Hyderabad.

For Sir C R Reddy College of Engineering, Vatluru, Eluru



1. 
HOD-CIVIL
Head of the Department
Civil Engineering
Sir C.R.R. College of Engineering
ELURU 534007. W U Dist.

2. 
PRINCIPAL
Principal
Sir C.R.R.College of Engineering
ELURU - 534 007



VISAKHA

INSTITUTE OF ENGINEERING & TECHNOLOGY
APPROVED BY AICTE, NEW DELHI
(Affiliated to JNTUK, Kakinada)
57th Division, GVMC, Narava, Visakhapatnam
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COLLEGE CODE

VSPT

Certificate of Participation

This is to certify that Mr./Mrs. K. Lakshmi Narayana
of SIR CRR CoE has participated in "A One Week Faculty Development
Certificate Program on Recent Advances in Communication & Signal Processing"
organized by Department Of Electronics and communication Engineering, Narava,
57th division, Viskhapatnam, A.P State, India, from 20th Sep-25th Sep, 2021.


Program Coordinator
Mr. Ch. Srikanth


HOD-ECE
Mr. B. Jeevan


Principal
Dr. V. Sridhar Patnaik



VISAKHA
INSTITUTE OF ENGINEERING & TECHNOLOGY
APPROVED BY AICTE, NEW DELHI
(Affiliated to JNTUK, Kakinada)
57th Division, GVMC, Narava, Visakhapatnam
DIPLOMA | ENGINEERING | MANAGEMENT



COLLEGE CODE
VSPT

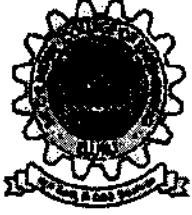
Certificate of Participation

This is to certify that Mr./Mrs. Ch. Ravi Kumar
of SIR CRR COE has participated in "A One Week Faculty Development
Certificate Program on Recent Advances in Communication & Signal Processing"
organized by Department Of Electronics and communication Engineering, Narava,
57th division, Viskhapatnam, A.P State, India, from 20th Sep-25th Sep, 2021.

Ch. Srikanth
Program Coordinator
Mr.Ch.Srikanth

J
HOD-ECE
Mr.B.Jeevan

V.S.
Principal
Dr.V.SridharPatnaik



APPLY VOLT

MEMORANDUM OF UNDERSTANDING

SIR C R Reddy College of Engineering & APPLY VOLT

This Memorandum of Understanding entered into on 3rd Jan' 2022 at VIJAYAWADA, A.P between SIR C R Reddy College of Engineering And APPLY VOLT, a Electronics based organization, imparting and offering Electronics based services, hereinafter referred to as First Party located at Moghalrajpuram, Vijayawada, A.P represented by Mr. Pradeep K (Application Engineer - Business Operations) which expression shall unless repugnant to the context means and include its successors and assigns of the ONE PART. Wherever the word First Party comes in this MOU it implies APPLY VOLT.

SIR CRREDDY COLLEGE OF ENGINEERING is an acknowledged college in this part of the country located at ELURU, AP, 534007, India. SIR CRREDDY COLLEGE OF ENGINEERING is represented here in by the PRINCIPAL which expression shall unless repugnant to the context mean and intrude its successors and assigns of the OTHER PART.

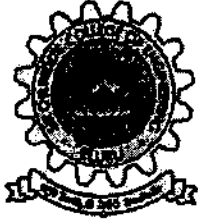
WHEREAS

APPLY VOLT has decided to recognize SIR CRREDDY COLLEGE OF ENGINEERING to offer Projects/Workshops/Hardware & Component On campus/off campus to enable the knowledge sharing process on the recent technologies which in turn bridge the Academic and Industrygap.

The parties have had preliminary discussions in this matter and have ascertained areas of broad consensus. The parties now, have therefore, agreed to enter in writing these areas of consensus, under a Memorandum of Understanding.



#40-6/3-3, Sri Nilayam, 2nd Floor, Cooperative Bank Colony, Moghalrajpuram,
Vijayawada, Andhra Pradesh - 520010. Ph: +91 70135 34002
Email : support@applyvolt.com | GST No.: 37CGZPK4061J1ZP



APPLY VOLT

Now this Memorandum of Understanding witnesses that:

APPLY VOLT in full compliance with the Second Party shall offer the following Services to Department of Electronics & Communication Engineering, SIR CRREDDY COLLEGE OF ENGINEERING

SERVICES OFFERED:

1. Products
2. Workshops/Training
3. Technical Seminar
4. Project Outsourcing to First Party/Project Consulting/Project Assistance

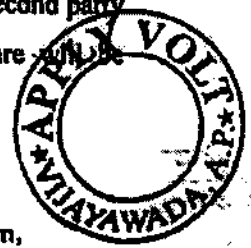
The pricing are fixed after discussion with the representative from the First Party and APPLY VOLT have the final decision on fixing the pricing

The Price may be fixed and revised as and when required by the mutual consent of both the Parties.

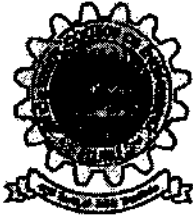
APPLY VOLT reserves all the rights in offering sponsorship/samples/seminars.

1) PRODUCT PROCUREMENT PROCEDURE

The products required for the project/research/academic purpose will be procured by the Second Party from APPLY VOLT by raising a purchase order. The delivery time, Warranty and payment modes for the products will be mentioned in the quotation. The payment term will be 50% in advance and remaining 50% after product procurement. Products for project/academic will not be rented at any point of time of the agreement. The warranty terms are based on the policy of the manufacturer and APPLY VOLT will do the needful when the request from the second party to the manufacturer is approved. The support on the basic working of the hardware will be provided online by AV.



#40-6/3-3, Sri Nilayam, 2nd Floor, Cooperative Bank Colony, Moghalrajpuram,
Vijayawada, Andhra Pradesh - 520010. Ph: +91 70135 34002
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APPLY VOLT

Any technical support/training related to applications/projects is additional cost for the second party.

2) WORKSHOP/TRAINING PROGRAMME

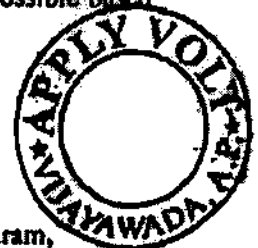
The Workshop/Training program can be conducted by APPLY VOLT on campus/off campus based on the number of participants. On campus/off campus refers in terms of Second Party's facility. The workshop/training fees will be decided by APPLY VOLT after the discussion with the representatives from the second party. The fees structure is either in hourly basis or per head registration. To conduct a workshop onsite minimum of 30 participants are expected. APPLY VOLT have the final decision on the cancellation/postpone/prepending of the workshop program. The registration for the workshop will be closed before 48 hours from the date of the event and the payment should be made 50% in advance and remaining 50% on completion of the training.

3) TECHNICAL SEMINAR

APPLY VOLT will always be supportive in conducting technical seminars on recent trends/topic requested by the Second Party. The pricing policy of APPLY VOLT will be applicable for the same. Technical seminars can be organized on mutual understanding.

4) PROJECT OUTSOURCING TO FIRST PARTY/PROJECT CONSULTING/ PROJECT ASSISTANCE

APPLY VOLT will take up project outsourcing to first party/project consulting/ project assistance if the Second Party is interested. Project consulting and outsourcing will be dealt with on a case to case basis and handled. Quotations for every new project would be raised by AV Service team's billing model and the pricing and hardware selection decision (based on the discussions between the representatives from both the parties) is applicable to the company policy of APPLY VOLT. An academic discount would be provided where ever possible based on mutual consent.



40-6/3-3, Sri Nilayam, 2nd Floor, Cooperative Bank Colony, Moghalrajpuram,
Vijayawada, Andhra Pradesh - 520010. Ph: +91 70135 34002

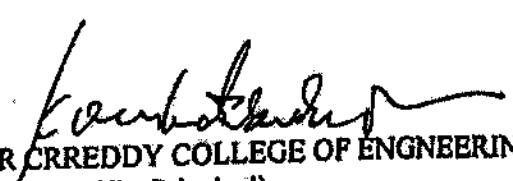
Email : support@applyvolt.com | GST No.: 37CGZPK4061J1ZP



APPLY VOLT

5) RESPONSIBILITIES OF APPLY VOLT


- a) APPLY VOLT will keep updating the Second Party with the new products/ Technology/ Trainings with an objective to bridge the Academic & Industrygap.
- b) APPLY VOLT acts as a consultant during the agreement period with mutual consent sets up Laboratory setup and proposes the right portfolio of products/trainings which benefits the Second party in optimizing the research & development activities and improvised infrastructure.
- c) APPLY VOLT will be interested in associating with the Second party in all the technical events on the interest of the Second Party.
- d) APPLY VOLT can be provided with an opportunity by the Second Party for Faculty Development Program at a best discounted price.
- e) APPLY VOLT will request the Second Party to associate with the trade events on latest technology (if applicable).
- f) This MOU is valid for the period of 2 years from the date of signed by both parties.


For SIR C.R.R. COLLEGE OF ENGINEERING
(The Principal)
Principal

SIR C.R.R. COLLEGE OF ENGINEERING
ELURU -534 007

Date: 3rd Jan 2022

Place: Eluru.



For APPLY VOLT
(PRADEEP K)

Date: 3rd Jan 2022

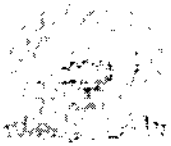
Place: VIJAYAWADA



#40-6/3-3, Sri Nilayam, 2nd Floor, Cooperative Bank Colony, Moghalrajpuram,

Vijayawada, Andhra Pradesh - 520010. Ph: +91 70135 34002

Email : support@applyvolt.com | GST No.: 37CGZPK4061J1ZP



**SIR C R REDDY COLLEGE OF ENGINEERING
DEPARTMENT OF ELECTRONICS AND COMMUNICATION
ENGINEERING**

One Week Workshon

Academic Year : 2022-2023

**Topic : Analog and Digital Sensor Interfacing with
FPGA Boards**

Date & Time : 9th March, 2023 to 11th March, 2023



SIR C R REDDY COLLEGE OF ENGINEERING
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

One Week Workshop

Academic Year : 2022-2023

Topic : Analog and Digital Sensor Interfacing with FPGA Boards

Date & Time : 9th March, 2023 to 11th March, 2023

Venue : MPMC Lab

Benefited : VLSI Stream – Project Batches of 4/4 ECE and Faculty

No. of participants Attended : 50

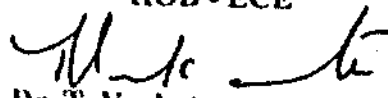
Resource Person : Mr.K.Pradeep,
Sr. Application Engineer,
Apply Volt,
Vijayawada

Organized by Department of ECE

Workshop Coordinators

- 1.Ch.Jaya Prakash
2. K.Radha

HOD - ECE


Dr. T. Venkateswara rao

Head of the Department
Electronics & Communication Engg.
Sir C.R.R.College of Engineering
Eluru - 534 007

Workshop Report

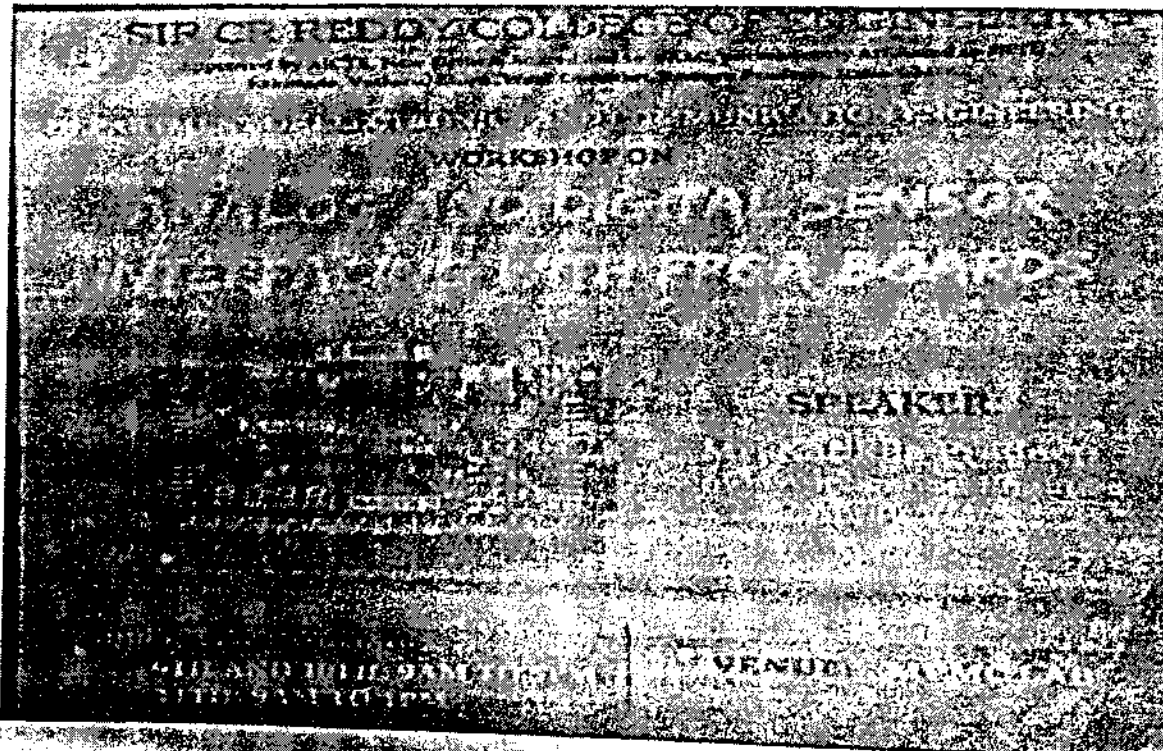
Summary Report:

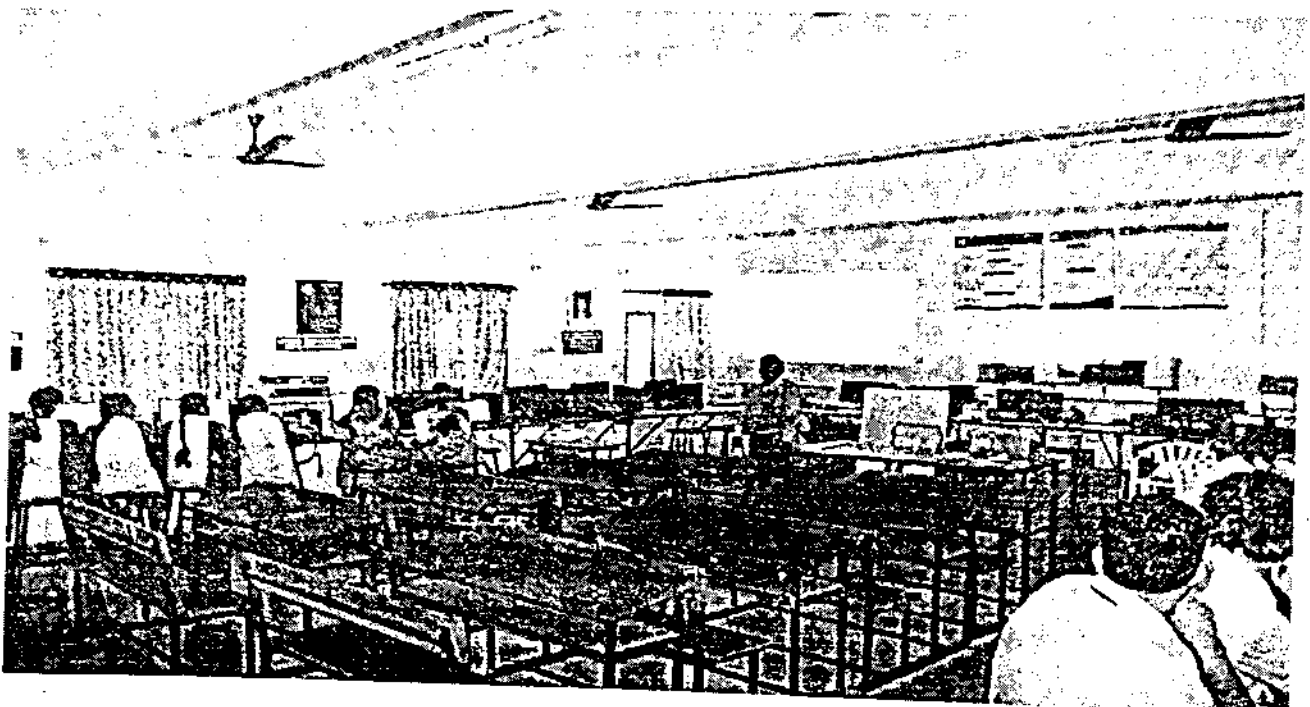
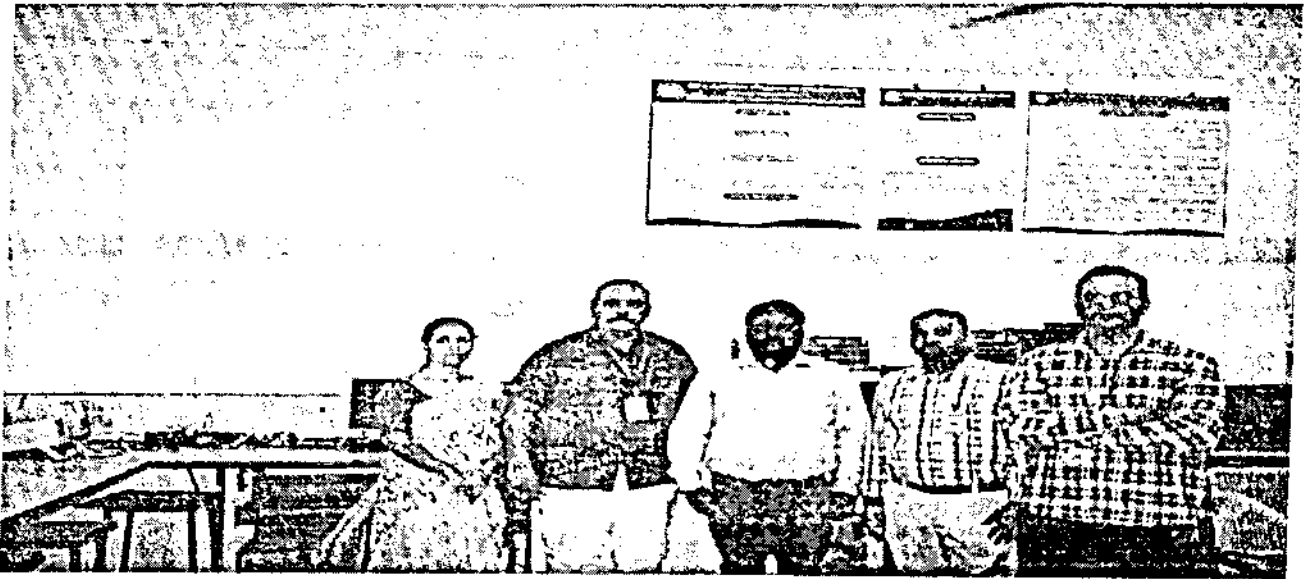
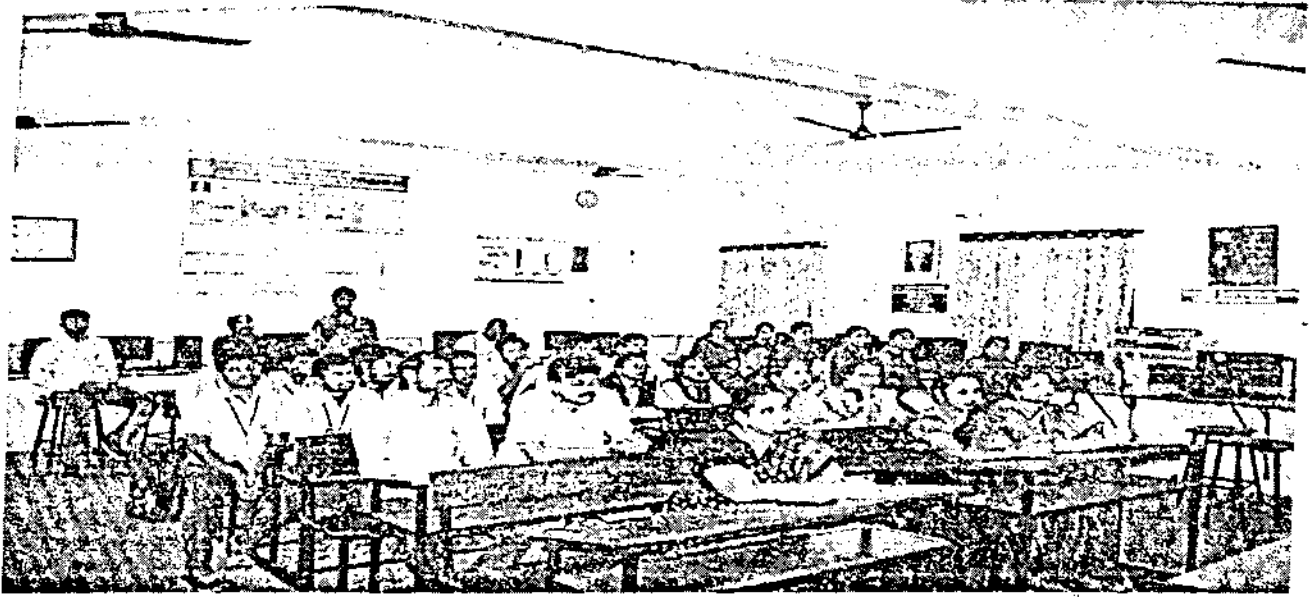
The main objective of one week workshop is to get hands on training to the students and faculty to meet the requirements of the industry. It is helpful to the students and faculty both conceptually and practically to be aware about:

- Programming Concepts using Verilog Hardware Description Language.
- Introduction to EDGE,PYNQ,ZYBO and NEXES A7 FPGA Boards
- Introduction to Virtual IP cores- Block level design.
- Hardware interfacing with FPGA boards : BCD-7 Segment Display, Buzzer,BCD-7 Segment Counter, Switch LED, Music Box, Push Button LED, Digital to Analog converter, LED Blinker through bluetooth, Analog to Digital converter, IR sensor etc.

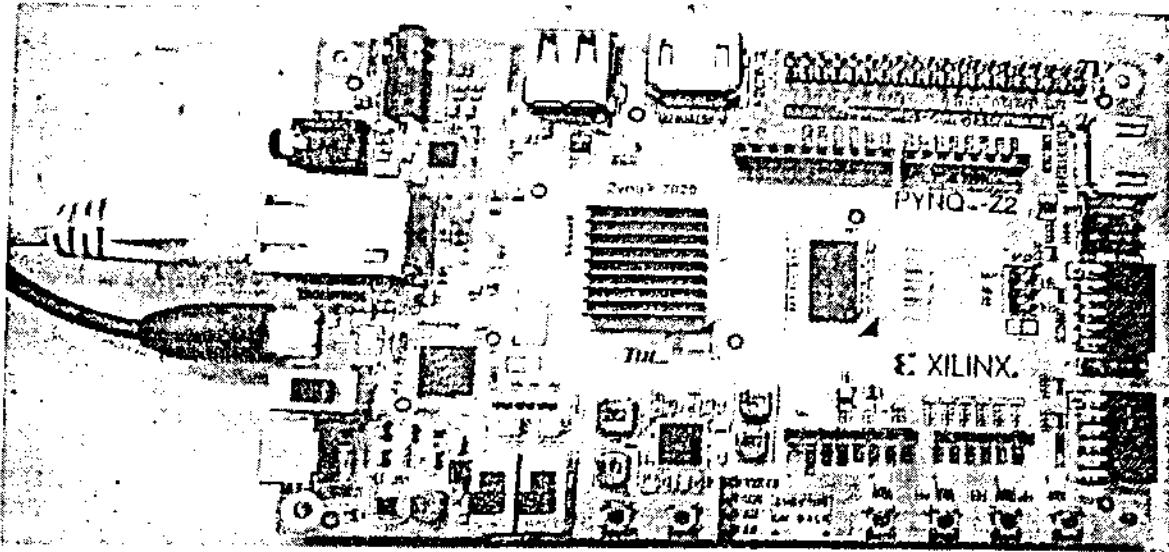
The workshop was inaugurated by Dr.T.Venkateswara rao, HOD of ECE Department, Sir C.R Reddy College of Engineering.

PHOTO GALLERY

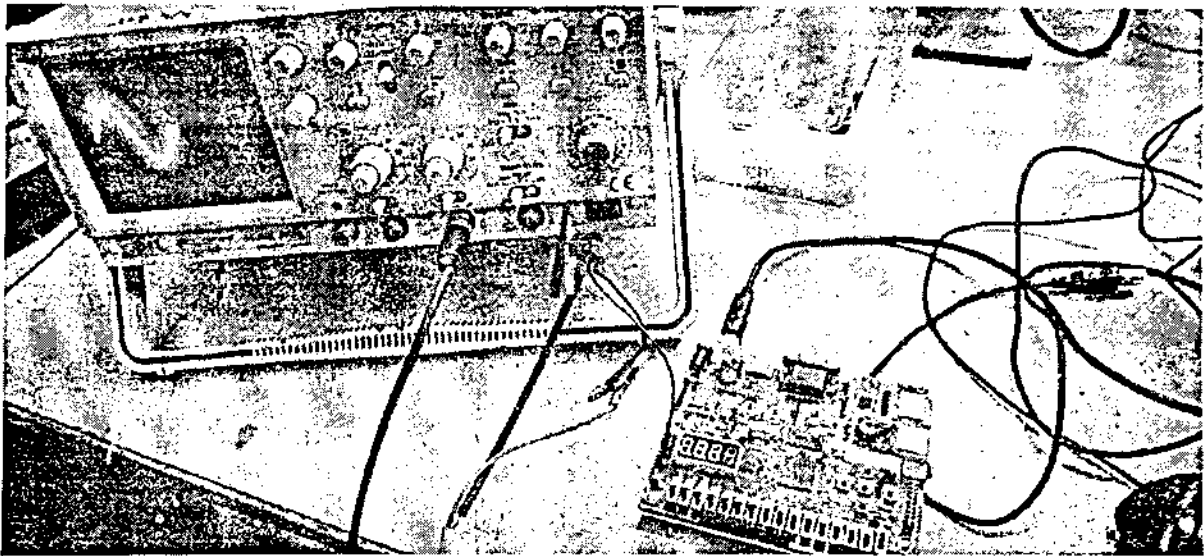




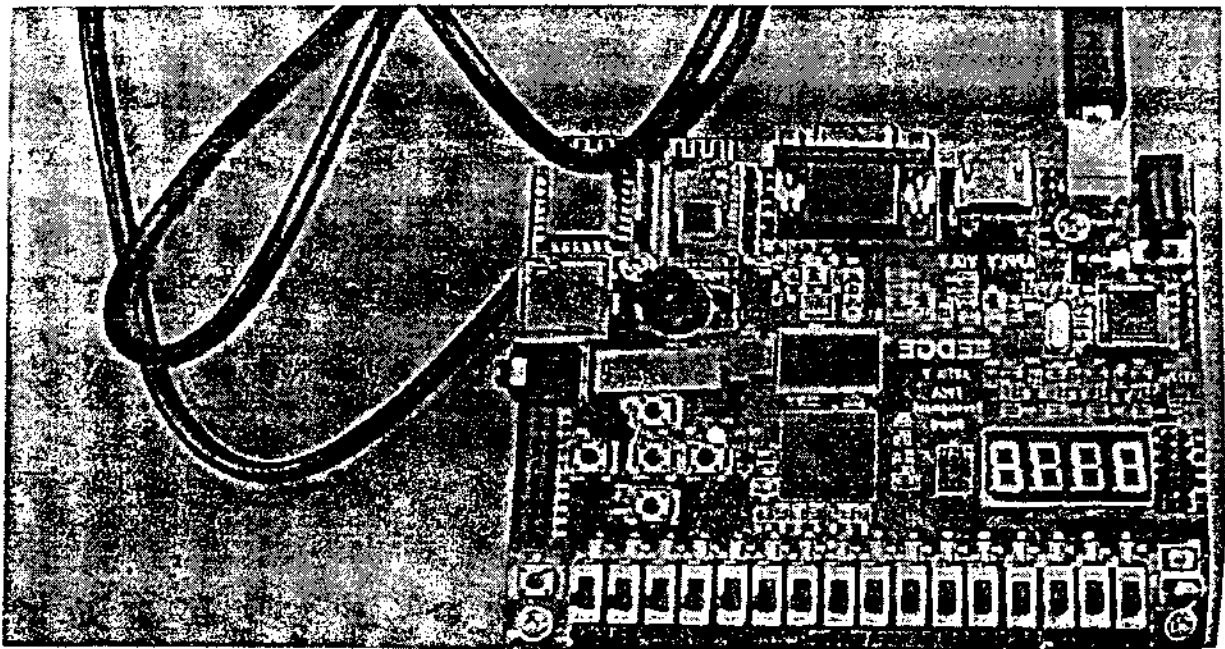
Mr. K.Pradeep, Resource Person addressing the gathering



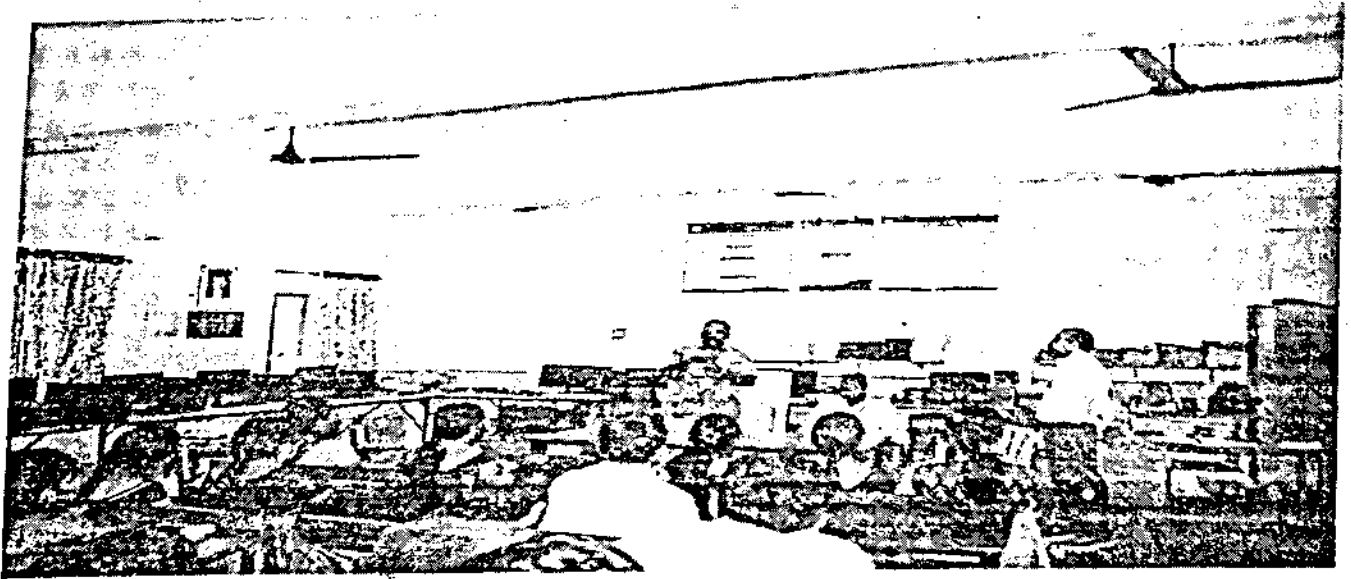
Switch LED



Interfacing of DAC with EDGE FPGA Board



Interfacing of counter module with FPGA kit



Dr.T.Venkateswara Rao, HOD of ECE addressed the gathering in the final session



SIR C. R. REDDY COLLEGE OF ENGINEERING, ELURU
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Ref. No: SIRCCRCE/ECE/Staff Notice /sem-2/2022-23/367

Date: 28-02-2023

All the staff are requested to give their willingness to participate in 3 days hands-on workshop
 "Analog and digital Sensor interfacing with FPGA boards" during 9th, 10th & 11th march 2023.

S.No	Name of the staff	Willing (Yes/No)	signature
1	Ch. Jaya Prakash	Yes	Ch. Santhosh
2	K. Radha	Yes	K. Radha
3	V. Swathi	Yes	V. Swathi
4	P. Suresh Kumar	Yes	P. Suresh
5	U. Ramya	yes	Ramya U
6	A. Kinnara	yes	A. Kinnara
7	A. Vansee Krishna	YES	A. Vansee Krishna
8	D. Ajay Kumar	Yes	D. Ajay Kumar
10	P. Harish	Yes	P. Harish
11	K. Mitha	Yes	K. Mitha
12	K. Lakshmi	Yes	K. Lakshmi
13	P. Saamithra	Yes	P. Saamithra
14	V. Surendra Babu	Yes	V. Surendra Babu
15	D. Ajay Kumar	Yes	D. Ajay Kumar
16	Dr. B. Satish	Yes	Dr. B. Satish
17	N. Suneetha	Yes	N. Suneetha
18	A. Pavan Kumar	Yes	A. Pavan Kumar
19	V. Veeraj	Yes	V. Veeraj
20	M. Navendra Kumar	Yes	M. Navendra Kumar

(Signature)
 HOD-ECE

Head of the Department
 Electronics & Communication Engg.
 Sir C.R.R. College of Engineering
 Eluru - 534 007



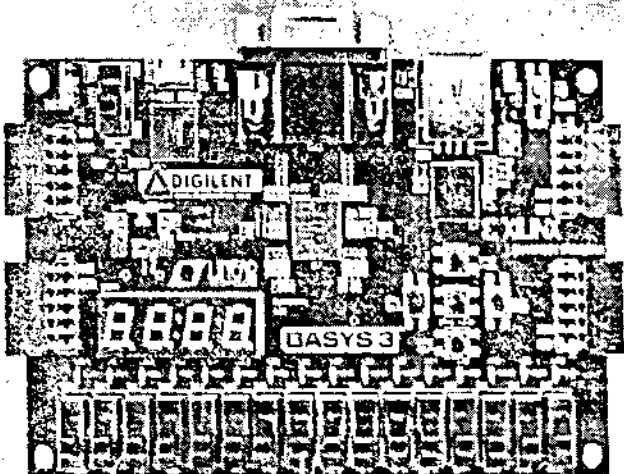
SIR CR REDDY COLLEGE OF ENGINEERING

Approved by AICTE, New Delhi & Accredited to NAAC, permanently Affiliated to JNTU
kakinada, Vatluru, Eluru, West Godavari, Andhra Pradesh, India-534007

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

WORKSHOP ON

PC BOARD



SPEAKER:

Mr. Katikala Pradeep
Senior Application Engineer
Apply Volt



DATE AND TIME:

9TH AND 10TH 9AM TO 5PM
11TH 9AM TO 1PM

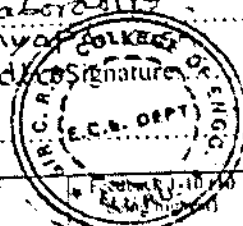


VENUE: MPMC LAB



APPLY VOLT

Institution name: Sir C R Reddy College of Engineering, Eluru - A.P
 TRAINING/Workshop/installation/demo on: Analog & Digital Sensors Interfacing with FPGA Boards
 No of days: 03
 Apply volt Trainer: K. Pradeep signature: _____
 DATE: from: 9/3/2023 To: 11/3/2023
 Venue: Dept. of ECE, Digital IC Design Laboratory
 FACULTY IN CHARGE OF INSTITUTION: name: 2: K. Roudra signature: _____
 DEPARTMENT: ECE seal: _____



1. K. Pradeep
2. K. Roudra

Name of Participant	college	Email id	Contact number	Age	signature
K. Roudra	Sir CRR COE	roudra.9ece@gmail.com	886630995	9	[Signature]
P. Srinivasulu	Sir CRR COE	srinivasulu.p@gmail.com	996351166	9	[Signature]
Ch. Jayaprakash	Sir CRR COE	ipchennas@gmail.com	991310177	9	[Signature]
U. Kamya	Sir CRR COE	umya.upr@gmail.com	995933794	8	[Signature]
M. Narendra	Sir CRR COE	narendra.m@gmail.com	949011059	8	[Signature]
K. Lavanya	Sir CRR COE	lavanya.k@gmail.com	960502258	9	[Signature]
P. Hareesh	Sir CRR COE	hareesh.p@gmail.com	968996159	9	[Signature]
N. Suneeetha	Sir CRR COE	suneeetha.n@gmail.com	957336111	9	[Signature]
P. Sowmithri	Sir CRR COE	sowmithri.p@gmail.com	946021694	9	[Signature]
K. Yamini	Sir CRR COE	yamini.k@gmail.com	812132724	9	[Signature]
N. Swathi	Sir CRR COE	swathi.n@gmail.com	961019690	9	[Signature]
V. Surendra Babu	Sir CRR COE	surendrababu.v@gmail.com	998041194	9	[Signature]
K. Dalaram	Sir CRR COE	dalaram.k@gmail.com	990116011	7	[Signature]
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P. Jayakumar	Sir CRR COE	jayakumar.p@gmail.com	994518672	8	[Signature]
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Ch. Vinay Kumar	Sir CRR COE	chvinaykumar.c@gmail.com	990255869	9	[Signature]
G. Lokesh	Sir CRR COE	lokesh.g@gmail.com	995555672	7	[Signature]
B. Bhargav	Sir CRR COE	bhargav.b@gmail.com	968842110	9	[Signature]
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P. Sai Pravalika	Sir CRR COE	pravalika.p@gmail.com	999448890	9	[Signature]
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40-6/3-3, Srinilayam 2nd Floor, Cooperative Bank Colony, Moghalrajpuram
 Vijayawada, Andhra Pradesh - 520010.
 E-mail: support@applyvolt.com

[Signature]
 11/3/23
 Head of the Department
 Electronics & Communication Engg.
 Sir C.R.R. College of Engineering
 Eluru - 534 007

HOTEL

Sl. No. : 95

ROYAL LODGE

246377

Near Satyanarayana Theatre,

One Town, ELURU - 534 001.

Room No.	Room Type	No. of Days	Room Rent	L.F.No.	Guest Name :
104	N.A/C	2	840/-	-	K. Poandeep
Check in Dt. & Time		Check out Dt. & Time		No. of Persons	
9/3/23 8:14 AM		11/3/23 8:00 AM		1	

Dt./No.	Details	Debit	Credit	Balance
	Room Rent for 2 days		840/-	
TOTAL			840/-	
Credit / Cash		Please Return Room key at the time of Room Check Out		
Credit Billing - Address		Signature of Guest		
Manager	Cashier	Remarks		

Thanking You



SIR C R REDDY COLLEGE OF ENGINEERING
DEPARTEMENT OF ELECTRONICS AND COMMUNICATION ENGG.
West Godavari Dt., Eluru - 534 007, Andhra Pradesh, India
STAFF QUESTIONNAIRE - WORKSHOP/SEMINAR/GLs/STTPs etc.

Name of the Event : Analog & Digital Sens. Taking up with FPM Bours
Staff Name : Ch. Jayaprakash
Designation & Dept : Asst. Prof., ECE

S. No:	Question / parameter	Rating				
1	The workshop/seminar objectives are stated clearly and met.	1	2	3	4	5
2	The information and/or skills presented were relevant and useful.	1	2	3	4	5
3	The workshop/seminar increased my knowledge and skills in conduct investigations of complex problems.[PO4]	1	2	3	4	5
4	Topic was relevant to social work practice [PO6]	1	2	3	4	5
5	The information was appropriate to understand the impact of the professional engineering solutions in society and-environmental context. [PO7]	1	2	3	4	5
6	What impact does this workshop/seminar have on the ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.[PO8]	1	2	3	4	5

Note: Please circle a number, 1 = Poor, 2 = Fair, 3 = Good, 4 = Very Good, 5 = Excellent

Date: 11/03/2023

[Signature]

Ch. Jayaprakash
Signature



SIR C R REDDY COLLEGE OF ENGINEERING
DEPARTEMENT OF ELECTRONICS AND COMMUNICATION ENGG.
West Godavari Dt., Eluru – 534 007, Andhra Pradesh, India

STAFF QUESTIONNAIRE – WORKSHOP/SEMINAR/GLs/STTPs etc.

Name of the Event : Analog and digital Sensors using FPGA Boards.
Staff Name : P. Hareesh
Designation & Dept : Asst. Professor, Dept. of ECE

S. No:	Question / parameter	Rating				
1	The workshop/seminar objectives are stated clearly and met.	1	2	3	4	(5)
2	The information and/or skills presented were relevant and useful.	1	2	3	(4)	5
3	The workshop/seminar increased my knowledge and skills in conduct investigations of complex problems. [PO4]	1	2	3	(4)	5
4	Topic was relevant to social work practice [PO6]	1	2	(3)	4	5
5	The information was appropriate to understand the impact of the professional engineering solutions in society and environmental context. [PO7]	1	2	3	(4)	5
6	What impact does this workshop/seminar have on the ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice. [PO8]	1	2	3	(4)	5

Note: Please circle a number, 1 = Poor, 2 = Fair, 3 = Good, 4 = Very Good, 5 = Excellent

Date: 11/3/2023

P. Hareesh
Signature



SIR C R REDDY COLLEGE OF ENGINEERING
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGG.
West Godavari Dt., Eluru - 534 007, Andhra Pradesh, India

STAFF QUESTIONNAIRE - WORKSHOP/SEMINAR/GLs/STTPs etc.

Name of the Event : ANALOG & DIGITAL SENSORS
INTERFACING SENSORS WITH FPGA KITS
Staff Name : N. SWATHI
Designation & Dept : Assistant professor, ECE Dept

S. No:	Question / parameter	Rating				
1	The workshop/seminar objectives are stated clearly and met.	1	2	3	4	5
2	The information and/or skills presented were relevant and useful.	1	2	3	4	5
3	The workshop/seminar increased my knowledge and skills in conduct investigations of complex problems. [PO4]	1	2	3	4	5
4	Topic was relevant to social work practice [PO6]	1	2	3	4	5
5	The information was appropriate to understand the impact of the professional engineering solutions in society and environmental context. [PO7]	1	2	3	4	5
6	What impact does this workshop/seminar have on the ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice. [PO8]	1	2	3	4	5

Note: Please circle a number, 1 = Poor, 2 = Fair, 3 = Good, 4 = Very Good, 5 = Excellent

Date: 11/03/23

Swathi
Signature

SIR C R REDDY COLLEGE OF ENGINEERING, ELURU
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Ref: CRRE / ECE / Workshops / 2022-23 / 379

Dt:11-03-2023

To

The Principal,
Sir C R Reddy College of Engg.,
Eluru.

Respected Sir,

Sub:Request to approve and sanction an additional amount of Rs:5000/- towards a workshop - reg/-

The department of ECE is organizing a hands-on training program on the latest FPGA boards (FPGA, Zed & Artix-7) for both faculty & students from 9th to 10th Mar 2023. As the resource person is covering both theory & hands-on training and implementing interfacing of various advanced sensors, the training has been extended to third day i.e 11/3/2023 also.

Hence,requesting you to approve & sanction an additional amount of Rs: 5000/- towards remuneration.

Thanking you sir,

*Forwarded to
Correspondent*
[Signature]
Principal
Sir C.R.R.College of Engineering
ELURU - 534 007

Yours Sincerely

[Signature] 11/3/23
Dr. T. VenkateswaraRao
Professor & HOD - ECE
Head of the Department
Electronics & Communication Engg.
Sir C.R.R.College of Engineering
Eluru - 534 007

[Signature]
CORRESPONDENT
SIR C.R.R. College of Engineering
ELURU - 534 007

HOTEL

Sl. No. : 95

ROYAL LODGE

246377

Near Satyanarayana Theatre,
One Town, ELURU - 534 001.

Room No.	Room Type	No. of Days	Room Rent	LF.No.	Guest Name :	
104	NAC	2	840/-	-	K. Pradeep	
Check in Dt. & Time		Check out Dt. & Time		No. of Persons		
9/3/23 8:14 AM		11/3/23 8:20 AM		1		
Dt./No.	Details			Debit	Credit	Balance
	Rone Pul for Duty				840/-	
TOTAL					840/-	
Credit / Cash				Please Return Room key at the time of Room Check Out		
Credit Billing - Address				Signature of Guest		
Manager		Cashier		Remarks		

Thanking You

Memorandum Of Understanding

Between

Sir C.R.Reddy College of Engineering

And

Efftronics Systems Pvt Ltd

This Agreement made and entered into on 11-Feb-2022 between Sir C.R.Reddy College of Engineering, Eluru And Efftronics Systems Pvt Ltd (here in after called Efftronics) situated at Brundavan Colony, Vijayawada (A.P.). This MOU shall be valid for 1 year from the date and each party shall be at full liberty to terminate the collaboration with a notice period of 3 months.

Objectives of the MOU:

The objective of this Memorandum of Understanding is:

- A. To promote interaction between Sir C.R.Reddy College of Engineering, Eluru and Efftronics in mutually beneficial areas.
- B. To provide a formal basis for initiating interaction Sir C.R.Reddy College of Engineering and Efftronics.

Proposed Modes of Collaboration:

Sir C.R.Reddy College of Engineering and Efftronics propose to collaborate through

1. Exchanging of expertise by means of Guest Lectures, Technical Seminars, Workshops and other events (during regular working days) for the benefit of the faculty and students.
2. Permitting students for One-day Industrial Visit.
3. Allowing faculty & Staff for industrial training.
4. Permitting Practical training to students.
5. Attending campus recruitment where the intake depends up on the clearance of all the rounds by the candidate in selection process.

Note: All the above modes will be decided upon mutual consent based on Availability, Work Schedules and Manpower of Company.

Date of Agreement: 11-Feb-2022

With Regards

For Efftronics Systems Pvt. Ltd.,

Sir C.R.Reddy College of Engineering, Eluru

Spurthi



(SPURTHI D)

HR MANAGER

(DR. K. VENKATESWARA RAO)

PRINCIPAL
Principal

SIR C.R.R. COLLEGE OF ENGINEERING
ELURU -534 007



CIN: U51909AP1987PTC007554 | GST: 37AAACE4879Q1ZT



ఆంధ్రప్రదేశ్ ఆంధ్ర ప్రదేశ్ ANDHRA PRADESH
No. 10575, dated 28/04/2022, 20/-
sold to Fr. G. MOSES, S/o Yesupadam,
Duggirala

Y. K. EDWARA R
77AA 502071
I. KEDARESWARA RAO
Licenced Stamp Vendor
L.No. 05-11-006/2011
RL.No.05-11-020/2020 to 2022
5th Ward, ELURU-2, Ph: 9247284010

Memorandum of Understanding

Academic and Research Collaboration

between

St. Joseph Dental College, Eluru, India

and

Sir C. R. Reddy College of Engineering, Eluru, India

Preamble

St. Joseph Dental College and Sir C.R. Reddy College of Engineering, Eluru India has agreed to the following protocols governing their collaboration on academic and research activities:

A.Scope

The scope of collaboration on academic and research activities in this Memorandum of Understanding includes the following categories:

- 1) Academic and Research collaboration in the areas of mutual interest
- 2) Sample collection, analysis and reporting
- 3) Exchange of academic information, scholarly information, material and publications
- 4) Sponsorship of cooperative seminars, workshops and other academic meetings

B. Research Collaboration

Faculty from both institutions will collaborate in the supervision of student's projects and in joint research in disciplines of mutual interest. All such joint research activities will be governed by the terms laid out in Annexure 1.

C. Commencement, renewal, termination and amendment

- 1) This MOU will come into force upon affixing of the signatures of the representatives of the partner institutions.
- 2) If either partner institution wishes to terminate the MOU at the end of the five year period it must notify the other institution not less than one month prior to the expiry of the MOU.
- 3) This agreement or its renewal and the actions taken under it may be reviewed at any time. Modifications may be made by mutual agreement and any agreement and any amendment or extension to the agreement may be formalized by the exchange of letters between the two parties.
- 4) This MOU may be signed in two counterparts: There shall be two originals of this MOU and one original will be with St. Joseph Dental College and the other with Sir C.R. Reddy College of Engineering, Eluru. The second party signing the agreement shall send one original of this MOU to the other party.

Signed:

SIGNATURE:



Rev. Fr. G. Moses

Secretary & Correspondent

St. Joseph Dental College


Duggirala Village, Eluru

Andhra Pradesh, India

Secretary & Correspondent
St. Joseph Dental College
Duggirala, Eluru, W G.Dt., A.P

Signed:

SIGNATURE:



Principal
SIR C.R.R. COLLEGE OF ENGINEERING
ELURU - 534 007

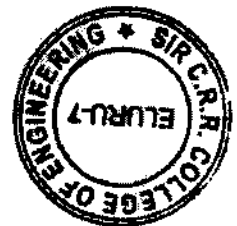
Dr. K. Venkateswara Rao

Principal

Sir C.R. Reddy College of

Engineering, Eluru

Andhra Pradesh




DATE: 28/4/22

Witnesses: Anuradha.
28/4/22

1.

Dr. A. Anuradha
Professor
St. Joseph Dental College
Duggirala Village, Eluru
Andhra Pradesh, India

2.


Dr. Srinidhi, V.B
Incharge - Oral Microbiology & Nano science research Centre
St. Joseph Dental College
Duggirala Village, Eluru
Andhra Pradesh, India

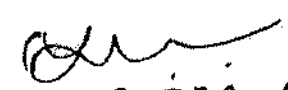
DATE: 28/4/22

Witnesses: K. Lalit Narayan.

1.

Dr. K. Lalit Narayan.
Professor
Dept. of Mechanical Engg
SIR C.P. COLLEGE OF ENGG.
ELURU

2.


Dr. M. SRIRAMAMURTHY,
PROFESSOR
DEPT. OF MECH. ENGG,
SIR C.P. REDDY COLLEGE OF
ENGINEERING, ELURU.

ANNEXURE 1

1. Proposals for collaborative research work under this Memorandum will be submitted with the prior approval of the Head of each institution, on his / her nominee.
2. Each institution will nominate one of its members as its representative in charge of the cooperative program. Individual programs of work under this Memorandum will be jointly planned and conducted by the nominees of both parties.
3. Progress of work if any individual program will be reviewed and approved by designated authorities of both parties.
4. The final approval of any project will depend on the availability of guaranteed support funds.
5. Neither St. Joseph Dental College, Eluru nor Sir C.R. Reddy College of Engineering, Eluru will be held responsible for any liability to the other party and neither party shall be required to purchase any insurance against loss or damage to any property due to activities to which this agreement relates.
6. Every collaboration will have its own agreement / contract which address issues such as IPR, funding patterns, disclosure of information etc.

SIR C R REDDY COLLEGE OF ENGINEERING
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGG.

Ref. No: SIRCRCE/ECE/Consultancy/2021-22/194

Dt: 02-02-2022

From

Dr. T. Venkateswara Rao,
Head of the Department,
Department of ECE

To

The Principal,
Sir C R Reddy College of Engineering,
Eluru.

Respected sir

Sub: Requesting our help from St. Joseph Dental College & Hospital in designing a disinfection equipment – regarding

Ref: Request Letter dated 31-01-2022 & copy of MOU between our colleges

As per the discussions had with you and Dr Srinidhi from St. Joseph Dental College & Hospital regarding designing of "Gutta-percha disinfection equipment", I have received the formal letter and copy of MOU. Faculty of R & D has verified the feasibility of the design and we have ready to take up this assignment.

To develop a proto-type we need some hardware components and to procure them provide Rs 19,000/- as an advance. Dr Srinidhi accepted to reimburse the actual costs. However, the real time equipment design and proto-typing itself provides a good exposure to our students as well as our faculty and we can show this as consultancy works and also for patent publication. Hence, I am requesting you to sanction Rs 19,000/- to develop the equipment.

Thanking you

*Forwarded for
favourable consideration
as this may help us in
getting a PATENT.
Venkateswara Rao*

Yours faithfully

Dr T Venkateswara Rao 2/2/2022
Dr T Venkateswara Rao
Head of the Department
Electronics & Communication Engg.
Sir C.R.R.College of Engineering
Eluru - 534 007

Principal
SIR C.R.R. COLLEGE OF ENGINEERING
ELURU - 534 007

*Pay the Amount in favour of
K. MERANJE.*

[Signature]
CORRESPONDENT
SIR C.R.R. College of Engineering
ELURU - 534 007

AUTOMATION OF GUTTA-PERCHA DISINFECTION

By

MIRANJI KATTA *

T. VENKATESWARA RAO **

R. VENKATA SAI MURALINADH ***

ARUN RONGALA ****

SRINIDHI V. BALLULLAYA *****

*.**** Department of Electronics and Communication Engineering, Sir Cattamanchi Ramalinga Reddy College of Engineering, Andhra Pradesh, India.

***** Department of Conservative Dentistry and Endodontics, St. Joseph Dental College and Hospital, Duggirala, Andhra Pradesh, India.

Date Received: 19/07/2023

Date Revised: 15/08/2023

Date Accepted: 04/09/2023

ABSTRACT

Root canal treatment is a treatment sequence for the infected pulp of a tooth which is intended to result in the elimination of infection and the protection of the decontaminated tooth from future microbial invasion. During root canal treatment, it is possible that the gutta-percha cones, which are a permanent filling in the treatment, become contaminated. Before being placed in the root canal, it must be sterilized. Additionally, the gutta-percha sterilization process may lead to bacterial growth in the root canal. Thus, gutta-percha sterilization should take place at the same time as root canal cleaning. For this purpose, gutta-percha sterilization must be automated, instead of conventional disinfection methods. The primary objective of this study is to automate the gutta-percha sterilization operation and improve disinfection efficacy with a low turn-around time and high precision. As per the results obtained during the experiment, the turn-around time for sterilization takes 5-8 minutes with good disinfection efficacy in microbial testing and a precision of 92% for 57 cycles of testing.

Keywords: Gutta-percha, Root Canal, Sterilize, Bacteria, Disinfection.

INTRODUCTION

The demand for new technology is growing in every industry, and some medical procedures now use machines rather than humans. It has a wide range of applications, particularly in dentistry and electrical insulation applications. In dentistry, Gutta-percha (GP) is renowned for its use as a core material in root canal therapy. Due to its excellent biocompatibility and ability to provide a hermetic seal within the root canal, it is an essential component for preserving the health of teeth by preventing the ingress of bacteria and infection. Because GP is a tiny object that cannot be handled by human hands and may come into contact with microorganisms,

an automated method is necessary (Özalp et al., 2006; Linke & Chohayeb, 1983). A medical gadget called Automated GP Sterilization is used to sterilize the dental substance gutta percha, which dentists use for root canal procedures. Automated technology assists dentists in using less time for operation and is used to clean the germs. Figure 1 represents Gutta-percha used in root canal treatment.

GP possesses remarkable electrical insulating properties.

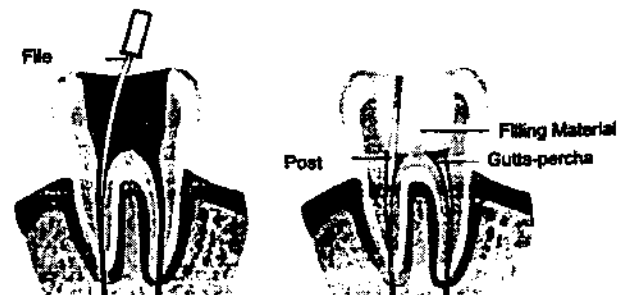


Figure 1. Gutta-percha In Root Canal



This paper has objectives related to SDGs



making it invaluable for wire coatings and insulation. Its ability to maintain its form at high temperatures and resist electrical currents makes it ideal for such applications. GP is a trans isomer of polyisoprene and has 1-, 4-, and trans-polyisoprene chemical structures. GP, a cis-isomer of polyisoprene, has a molecular structure similar to that of the natural rubber from the *Hevea brasiliensis* tree. Both are high molecular weight polymers with the same isoprene monomer as their fundamental structural components (Goodman et al., 1974). GP is used in root canal endodontic treatments, and its contamination creates infections. After exposure to the dental operatory environment, gutta-percha points removed from sealed packages may become contaminated by a range of microorganisms, including cocci, rods, and yeasts. Dentists typically perform hand sterilization of GP (Tamse et al., 1986; Vishwanath & Rao 2019; Vasconcelos, et al., 2015; Marciano et al., 2004). This versatile material, with its intriguing blend of natural origin and functional versatility, continues to play an essential role in various fields, from medicine to manufacturing.

Beyond its practical uses, gutta-percha malleability when heated and subsequent hardening when cooled have led to its utilization in various craft and art forms. It is often used in modeling and sculptures.

1. Literature Review

Chandruppa et al. (2014) proposed a disinfection method using separate solutions of *Enterococcus faecalis* and *Staphylococcus aureus* submerged in GP cones. Subsequently, the cones were submerged in 5.25%, 2%, and MTAD for 30 seconds, 1 minute, and 5 minutes, respectively. The disinfected cones were then cultured for 7 days in thioglycolate medium. Gutta-percha cones were separately immersed in suspensions of *Enterococcus faecalis* and *Staphylococcus aureus*. Thioglycolate media were subcultured, and colony-forming units were counted.

Reddy et al. (2023) conducted an investigation with 5.25% strong oxidizing agent, which induced dramatic topological changes in the cones, suggesting accelerated degradation. The surface topography of GP

cones after disinfection with a novel disinfecting material, Graphene Oxide (GO), was compared with other disinfecting materials, including sodium hypochlorite (NaOCl) and silver nanoparticles (AgNPs). 48 GP cones were categorized into four different groups based on the disinfecting agents. After treating the samples with the above disinfecting materials, their surface topography was evaluated using atomic force microscopy.

Tilakchand et al. (2014) explored the crystal formation on the surface of GP cones sterilized with 2.5% and 5.25% of sodium hypochlorite (NaOCl) and 2% chlorhexidine (CHX) on GP and Resilon cones using an Atomic Force Microscope (AFM). Five GP and Resilon cones that were not treated with any disinfectants were used as controls. Analysis of the surface topography was performed in the region between 1 and 2 mm from the tip using AFM. The Root Mean Square (RMS) parameters for contact mode imaging were measured. The differences between the RMS values were tested using SPSS-16.0 statistical software.

Valois et al. (2005) analyzed the effects of sodium hypochlorite (NaOCl) solutions on GP cone structures using AFM, which can be used consistently in dental clinics and provides rapid disinfection without altering the GP cone structure. Three standardized gutta-percha cones were cut 3 mm from the tip, attached to a glass base, and immersed in 0.5, 2.5, or 5.25% NaOCl solutions. After 1 and 5 minutes, the samples were positioned under an atomic force microscope. It was performed at 12 different points ($n = 12$) located between 1 and 2 mm from the tip after each period of immersion in NaOCl. GP cones without NaOCl treatment were used as the controls. The Root Mean Square (RMS) parameters for contact-mode imaging and force modulation microscopy were measured.

De Almeida Gomes et al. (2005) evaluated the effectiveness of chlorhexidine (CHX) and sodium hypochlorite (NaOCl) in disinfecting gutta-percha cones to verify contamination of gutta-percha cones in their boxes, and to identify microorganisms after intentional contamination by handling cones. After 72 hours of contact with the disinfectant, CHX was ineffective in

eradicating *Bacillus subtilis* spores on the gutta-percha cones. GP cones contaminated in vitro with several microorganisms were left in contact with the tested disinfecting solutions for different times, and the sterility of the storage boxes was evaluated by immersing the cones in broth medium. The microorganisms most frequently found in handling cones were identified using biochemical tests.

2. Materials and Methods

A microcontroller-controlled stepper and servo motors are used to automate the sterilization of gutta-percha cones (Chandruppa et al., 2014). The time delay was used to dip the GPs into the chemicals one at a time. The three chemicals were dipped continuously in the same manner. The third chemical bowl will have a heater and a temperature sensor fitted so that the chemical can be heated to the precise temperature needed to sterilize the GP. After being submerged in the three necessary chemicals, the GP was dried using an exhaust fan. The final step in the automation is drying.

2.1 Materials Used

The following structures were created using a Computer-Aided Design/Computer-Aided Manufacturing (CAD/CAM) program and SolidWorks for the suggested automation approach. They are the stepper motor, servo motor, linear rail guide, 3-D printed arm for vertical movement of the GP holder, three chambers for filling with solutions, a fan to dry the GP, a motor drive microcontroller, and CAD designed components.

Figure 2 shows the various parts of the robotic arm structure, including the gear, base, and GP holder, which were developed using the SolidWorks CAD tool.

To develop the pick-and-place functionality of the Gutta percha, the proposed robotic hand must facilitate holding and release. Figure 3 shows a block diagram of

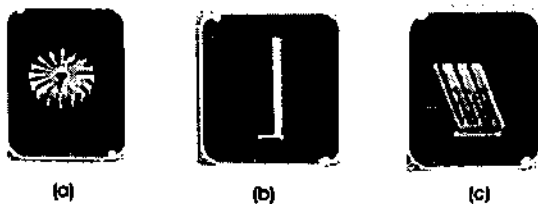


Figure 2. CAD Designs of Robotic Arm

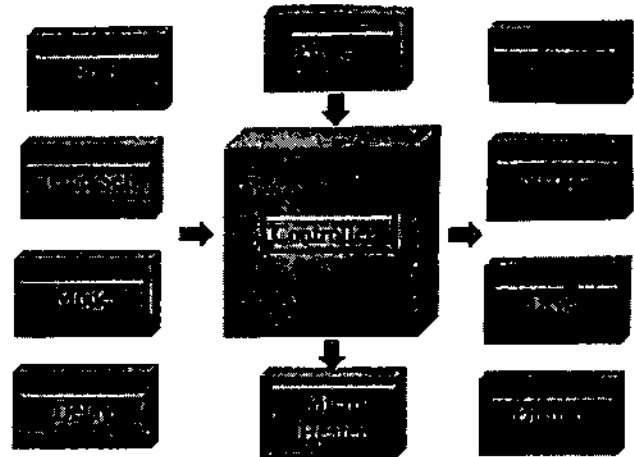


Figure 3. Block Diagram of the Proposed Design

the automation implementation and associated requirement description.

The start button is an input signal to the Arduino, which is used to turn the device on. The temperature button is an input signal to the Arduino controller, which was used to increase and decrease the reference temperature values. The Mode button is used to select the two modes: I) semi-automatic mode and II) fully automatic mode. A delay button was used to increase the delay time of the dipping process.

A microheater and LM35 temperature sensor were used to measure the ratings of the temperature of the solutions in the bowl and check them against the reference temperature. A microheater was used to heat the solution to a threshold temperature. A servo motor (SG-90) was used to achieve vertical motion during the process of dipping the GP into the solution. A stepper motor NEMA 17 was used to achieve horizontal motion, which helped move the arm in both the forward and backward directions. In the case of the dryer, the heated GP was placed in front of the cooling fan for instant cooling. An ordinary microcontroller was used according to the functionality range. The ATMEGA328P board was used as the control (Reddy et al., 2023).

2.2 Methodology

In this system, the GP is sterilized, and the equipment is quite similar to robotic process automation. This system turns on when the start button is pushed, and it consists of two modes of operation: fully automatic mode and semi-

automatic mode. In the semi-automatic mode, a stepper motor is used to perform horizontal motion, and a servo motor is used for vertical motion. The system has three chemically filled bowls that are used for GP sterilization. The last bowl consists of a Peltier controller to heat the chemical in the bowl, which can be observed in an Organic Light-Emitting Diode (OLED) display, and it can also be modified as required using a push button in the fully automatic mode. There is a cooling fan that is used to cool the Gutta percha, and there is an OLED display that is used to display the delay time, which is required for the GP to be dipped in the chemical, along with the temperature values of the chemical in the third bowl. The total process is done in the span of five minutes in fully-automatic mode and varies when operated in semi-automatic mode (Valois et al.; 2005).

2.2.1 GPD Algorithm

The GPD algorithm represents Gutta-percha Disinfection. This algorithm provides an end-to-end implementation of the disinfection process. A five minute immersion is required for complete disinfection, and a final rinse of gutta-percha cones with distilled water is essential to eliminate the surface deposits. The implementation of the GPD algorithm using the robotic hand is as follows. Implementation of the algorithm using the robotic hand is as follows.

Start

Include a stepper motor and servo library

Define variable Servo PIN as 7

Create a servo object to control it

Initialise steps per revolution at 350 and total steps at 2048 for a stepper motor

Initialize pin number 6 to button 1 to initiate the system

Initialize Pos to 0 and fan pins to pin 13 for the exhaust fan

Connect pin 8 to IN1, pin 9 to IN2, pin 10 to IN3, pin 11 to IN4, and pins 8 to 11 to the ULN 2003 motor driver

Initialize my stepper object to pins {1, 8, 9, 11}

Set the setSpeed () function to the stepper motor

speed

Declare GPIO pin as input and Fan pin as output

Begin serial communication with a baud rate of 9600

Start GP sterilization if pos = 0 is low and button 1 value is high.

Spin in 0° (clockwise), stop at 180°, and spin in the opposite direction at 0° (anti-clockwise)

For Pos = 1, Spin servo in clockwise direction; spin the servo to 180 degrees after 500ms

Hold for 1 min; servo goes anticlockwise

Turn stepper motor to position 2 and 3

Turn on the exhaust fan for 1 minute

Turn off exhaust fan after 1 minute

Stepper motor returns to pos = 1 (counter clockwise)

Stop

3. Results and Discussions

This study has two key experiments: Experiments 1 and 2. Experiment 1 was primarily employed to streamline various research processes and enhance efficiency and precision. By contrast, Experiment 2 followed a semi-automatic approach, combining automation with manual interventions for more nuanced control. This allows for a comprehensive exploration of the outcomes and implications of both experiments, offering valuable insights into the effectiveness of automation in research while maintaining the degree of human involvement.

3.1 Experiment-1

Primarily, automation was performed using a stepper and servo motors along with a drying fan. The preliminary experiment consisted of only a time delay of GP dipping in chemicals, which was by default set to one minute each and the chemical in the third bowl was heated to 60°C. When the start button is pressed, GP sterilization completes sterilization within 4-5 minutes. This preliminary experiment did not fully satisfy the sterilization conditions (de Almeida Gomes et al., 2005). Therefore, the automation was continued with Experiment 2, in which there will be different modes of operation along with adjustable temperature and delay, which makes the equipment fully ready for GP sterilization. Figure 4 shows

RESEARCH PAPERS

the experimental setup for automation.

3.2 Experiment-2

The second experiment provides mode selection and setting options for the temperature and delay time using push buttons. The addition of buttons turned fully automatic sterilization into semi-automatic sterilization. Figure 5 shows the OLED display with the temperature and delay time settings, which can be controlled by means of increased or decreased push buttons.

The Gutta-percha will be dipped into the chemical for a delay time, and the chemical will be heated up to a temperature that is set in semi-automatic mode. When accounting for precision, a measure of how closely a set of measurements is taken repeatedly under the same circumstances produces identical findings, where the overall precision with microbiological tests provides 90–95% precision.

Conclusion

The results of this research show that sterilization of gutta-percha can be performed automatically rather than

manually by humans. The disinfection processing time is just 5-8 minutes, whereas manual methods take nearly 60–90 min. The precision of the sterilization process was high at 90–95% for 57 rounds of experimentation. The proposed automation of GP sterilization operations improved disinfection efficacy with a low turn-around time and high precision. According to the results obtained during the experiment, the turnaround time for sterilization was relatively low, with good disinfection efficacy in microbial testing.

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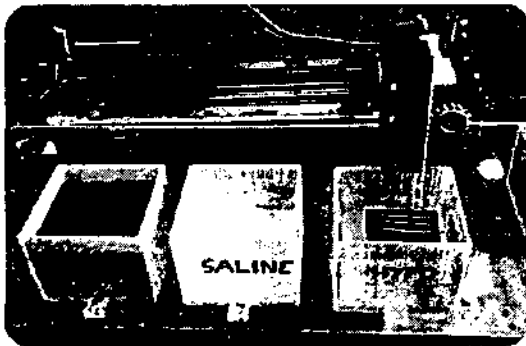


Figure 4. Preliminary Experiment

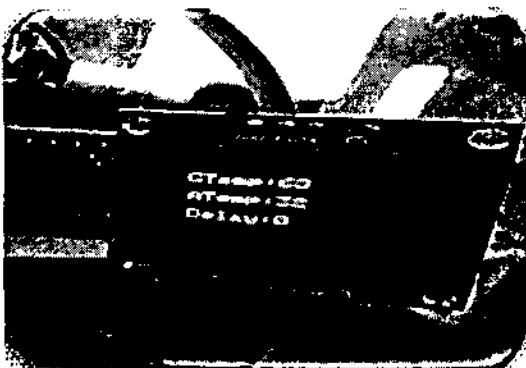


Figure 5. OLED with Temperature and Delay Settings

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Andhra Pradesh, Pin : 521 105, India.

MEMORANDUM OF UNDERSTANDING

BETWEEN

M/s TATTVA EXPORTS & IMPORTS PRIVATE LIMITED, BOMMULURU

&

Sir C.R.REDDY COLLEGE OF ENGINEERING, ELURU.

This Agreement made and entered into on this 16th of May - 2022 between M/s TATTVA EXPORTS & IMPORTS PRIVATE LIMITED, BOMMULURU and Sir C.R.Reddy College of Engineering, Eluru.

1. OBJECTIVES OF THE MOU

The objectives of this Memorandum of understanding are:

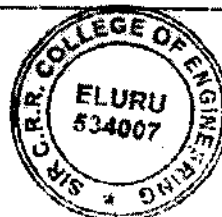
- To promote interaction between M/s TATTVA EXPORTS & IMPORTS PRIVATE LIMITED, BOMMULURU and Sir C.R.Reddy College of Engineering, Eluru in the interests of mutually beneficial areas.
- To introduce wide range opportunities in the field of Leather manufacturing process for the students of Sir C.R.Reddy College of Engineering, Eluru through a constant interaction between M/s TATTVA EXPORTS & IMPORTS PRIVATE LIMITED, BOMMULURU and Sir C.R.Reddy College of Engineering, Eluru.

2. PROPOSED MODES OF COLLABORATION

The technical services and placement assistance offered by M/s TATTVA EXPORTS & IMPORTS PRIVATE LIMITED, BOMMULURU to the students Sir C.R.Reddy College of Engineering, Eluru are as follows:

- Training of the students of Sir C.R.Reddy College of Engineering, Eluru in the dogmas of Leather goods manufacturing process at Sir C.R.Reddy College of Engineering, Eluru.
- The standards of leather manufacturing followed are American society of Leather SNT-TC-1A:2006.
- Placement assistance services for the students of Sir C.R.Reddy College of Engineering for the eligible candidate.
- Each of the above modes of interaction will be initiated by entering into a separate agreement between the two parties.

<p>On behalf of M/s TATTVA EXPORTS & IMPORTS PRIVATE LIMITED, BOMMULURU</p> <p>For TATTVA EXPORTS & IMPORTS PVT.LTD</p> <p><i>P. S. Reddy</i></p> <p>Managing Director Authorized sign with seal & date</p>	<p>On behalf of Sir C.R.Reddy College of Engineering, Eluru.</p> <p><i>K. R. Reddy</i></p> <p>Principal</p> <p>SIR C.R.R. COLLEGE OF ENGINEERING ELURU - 534 007 Authorized sign with seal & date</p>
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Andhra Pradesh, Pin : 521 105, India.

3. NON- EXCLUSIVITY

The relationship of the parties under this MOU shall be non exclusive and both parties, including their affiliates, subsidiaries and divisions, are free to pursue other agreements or collaborations of any kind. However, when entering into a particular training agreement, the participants may agree to limit each party's right to collaborate with others on that subject.

4. TERMS AND TERMINATIONS:



- a. This MOU, unless extended by mutual written agreement of the parties, shall expire in 04 years i.e., from 16/05/2022 to 15/05/2026 after the effective date specified in the opening paragraph.
- b. This MOU may be extended after completion of agreement time i.e., 04 Years from the date of agreement by mutual agreement of the parties.
- c. This MOU may be amended or terminated earlier by mutual written agreement of the parties at any time.
- d. However, no such early termination of this MOU, whether mutual or unilateral, shall affect the obligations of the participants under any training agreement, confidentiality of participants and any other agreement entered into pursuant to this MOU, which obligations shall survive any such termination.

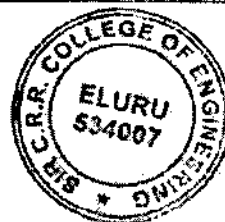
5. RELATIONSHIP

Nothing in this MOU shall be constructed to make either party a partner or an agent or legal representative of the other for any purpose.

6. ASSIGNMENT

It is understood by the parties here in this MOU is based on the professional competence and expertise of each party and hence neither party shall transfer or assign this Agreement, or rights or obligations arising hereunder, either wholly or in part, to any third party.

<p>On behalf of M/s TATTVA EXPORTS & IMPORTS PRIVATE LIMITED, BOMMULURU</p> <p>For TATTVA EXPORTS & IMPORTS PVT. LTD</p> <p> Managing Director</p> <p>Authorized sign with seal & date</p>	<p>On behalf of Sir C.R.Reddy College of Engineering, Eluru.</p> <p> Principal</p> <p>SIR C.R.R. COLLEGE OF ENGINEERING ELURU - 534 007</p> <p>Authorized sign with seal & date</p>
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7. COSTS OF THE MOU

Each party shall bear the respective costs of carrying out the obligations under this MOU.

8. COURSES OF STUDY

ASNT LEVEL II Training, Certification, Industrial Visits, Internships, Workshops, Projects & Placements.

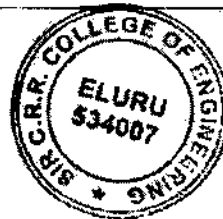
9. ACADEMIC PROGRAMS:

The classes for the above said courses shall be conducted by the M/s TATTVA EXPORTS & IMPORTS PRIVATE LIMITED, BOMMULURU and the materials for the courses also will be provided by the same. The entire expenses for the course materials, practicals, demonstrations, etc. shall be borne by M/s TATTVA EXPORTS & IMPORTS PRIVATE LIMITED, BOMMULURU

Following programs are the part of MOU that TATTVA EXPORTS & IMPORTS PRIVATE LIMITED, BOMMULURU provides to Sir C.R.Reddy College of Engineering students:

1. QA/QC Training & Certification.
2. Summer Internships
3. Industrial Visits.
4. Workshops.
5. Case Studies.
6. Placement opportunities.

<p>On behalf of M/s TATTVA EXPORTS & IMPORTS PRIVATE LIMITED, BOMMULURU</p> <p>For TATTVA EXPORTS & IMPORTS PVT. LTD</p> <p><i>P. S. Reddy</i> Managing Director</p> <p>Authorized sign with seal & date</p>	<p>On behalf of Sir C.R.Reddy College of Engineering, Eluru.</p> <p><i>[Signature]</i> Principal</p> <p>SIR C.R.R. COLLEGE OF ENGINEERING ELURU -534 007</p> <p>Authorized sign with seal & date</p>
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10. DOCUMENTS THAT CANDIDATE NEED TO SUBMIT:

- i. TATTVA EXPORTS & IMPORTS PRIVATE LIMITED, BOMMULURU application form.
- ii. Educational qualification documents Xerox.
- iii. Passport size photos (8 copies).
- iv. Police clearance certificate (compulsory for placements).
- v. ID proof.(Any).
- vi. Updated resume (Hard copy & soft copy).
- vii. Passport Xerox (if have).
- viii. Eye fitness certificate.

11. ROLES AND RESPONSIBILITIES OF M/s TATTVA EXPORTS & IMPORTS PRIVATE LIMITED, BOMMULURU

- 11.1. M/s TATTVA EXPORTS & IMPORTS PRIVATE LIMITED, BOMMULURU shall be responsible for conduction of examinations and awarding certificates.
- 11.2. The syllabi shall be framed by M/s TATTVA EXPORTS & IMPORTS PRIVATE LIMITED, BOMMULURU In this regard, the suggestions offered by Sir C.R.Reddy College of Engineering, Eluru will be taken into consideration, wherever necessary
- 11.3. This MOU shall be valid for a period of four years from the date of commencement and can be renewed for a further period of four years on mutual consent.
- 11.4. In respect of any changes in the course, syllabi, eligibility, fee structure and scheme of examinations etc., the decision can be taken by mutual consent between M/s TATTVA EXPORTS & IMPORTS PRIVATE LIMITED, BOMMULURU & Sir C.R.Reddy College of Engineering, Eluru.
- 11.5. Material printing and distribution among the students.
- 11.6. The internal evaluation as a part of the examination work like classroom tests, assignments, seminars, reports, etc., will be done by M/s TATTVA EXPORTS & IMPORTS PRIVATE LIMITED, BOMMULURU periodically.
- 11.7. The application and prospectus for admission will be prepared by M/s TATTVA EXPORTS & IMPORTS PRIVATE LIMITED, BOMMULURU in consultation with Sir C.R.Reddy College of Engineering, Eluru.

<p>On behalf of M/s TATTVA EXPORTS & IMPORTS PRIVATE LIMITED, BOMMULURU For TATTVA EXPORTS & IMPORTS PVT.LTD</p> <p><i>P. S. Reddy</i></p> <p>Managing Director Authorized sign with seal & date</p>	<p>On behalf of Sir C.R.Reddy College of Engineering, Eluru.</p> <p><i>f. Venkatesh</i></p> <p>Principal SIR C.R.R. COLLEGE OF ENGINEERING ELURU -534 007</p> <p>Authorized sign with seal & date</p>
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12. ROLES AND RESPONSIBILITIES OF C.R.REDDY COLLEGE OF ENGINEERING, ELURU.

12.1. Sir C.R.Reddy College of Engineering, Eluru shall provide entire infrastructure facilities like class rooms, place for conducting lab, projector, analytical tools and aids etc.

13. SIGNED IN DUPLICATE

This MOU is executed in duplicate with each copy being an official version of the agreement and having equal legal validity.

BY SIGNING BELOW, the parties, acting by their duly authorized officers, have caused this Memorandum of Understanding to be executed, effective as of the day and year first above written.

<p>On behalf of M/s TATTVA EXPORTS & IMPORTS PRIVATE LIMITED, BOMMULURU For TATTVA EXPORTS & IMPORTS PVT LTD</p> <p><i>P. S. Reddy</i> Managing Director Authorized sign with seal & date</p>	<p>On behalf of Sir C.R.Reddy College of Engineering, Eluru.</p> <p><i>P. Venkatesh</i> Principal SIR C.R.R. COLLEGE OF ENGINEERING ELURU -534 007 Authorized sign with seal & date</p>
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TEL: 0863-2243993
FAX: 0863-2243993
E-MAIL: principal@scrcet.ac.in

Sl. No. _____ Date: _____

To,
M/s. For Export & Imports Pvt. Ltd.,
P. No. 145/1, Resonance College
Rajulapudi Mandal,
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Kandam District - 521105

For the kind attention of Managing Director

Respected Sir,

Sub: Request for Industrial visit Permission - reg.


We request you to please sanction necessary permission for our III/IV B.Tech (Mechanical) Engineering students for section A & B to visit your esteemed organization during 30th August, 2023 according to your convenience preferably as per the proposal given below. The batch strength shall be around 150 including four faculty members


III/IV B.Tech (Mech) - 30th August, 2023 from 10.30am onwards


We request you to kindly accept our proposal for the industrial visit and confirm the same by letter/email to head_mech@scrcet.ac.in

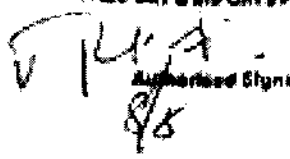
Thanking you.

Yours truly,


Industrial Visits In - Charge
Ph. No: 9490171416

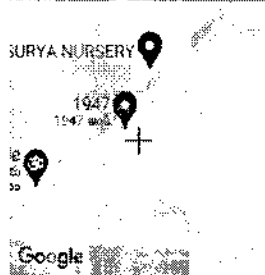

H.O.D. MECH ENGR.
Ph. No. 9443692077
Head of the Department
Mechanical Engineering


PRINCIPAL
Principal
Sir C.R. College of Engineering
ELURU - 534 007


Authorized Signatory



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SIR C.R.R COLLEGE OF ENGINEERING, ELURU
 DEPARTMENT OF MECHANICAL ENGINEERING
 2021 - 22 Admitted & 2024 - 25 int. going batch
 SECTION - B

III/IV B.Tech
 2023 - 2024
 First Semester
 Names List

S.No	Regd.No	Name of the Student	Signature
1	22085A0025	PUNJAMMA BHARMA DSI	N. V. Suresh
2	22085A0026	PUNJALAKSHMI K. SURESH	U. Suresh
3	22085A0027	RAMKISHORE RAO	
4	22085A0028	RANJITH K. SURESH	
5	22085A0029	RAJESH K. SURESH	S. Suresh
6	22085A0030	RITHIKA RAO	S. Suresh
7	22085A0031	RISHI K. SURESH	S. Suresh
8	22085A0032	RISHI K. SURESH	S. Suresh
9	22085A0033	RISHI K. SURESH	S. Suresh
10	22085A0034	RISHI K. SURESH	S. Suresh
11	22085A0035	RISHI K. SURESH	S. Suresh
12	22085A0036	RISHI K. SURESH	S. Suresh
13	22085A0037	RISHI K. SURESH	S. Suresh
14	22085A0038	RISHI K. SURESH	S. Suresh
15	22085A0039	RISHI K. SURESH	S. Suresh
16	22085A0040	RISHI K. SURESH	S. Suresh
17	22085A0041	RISHI K. SURESH	S. Suresh
18	22085A0042	RISHI K. SURESH	S. Suresh
19	22085A0043	RISHI K. SURESH	S. Suresh
20	22085A0044	RISHI K. SURESH	S. Suresh
21	22085A0045	RISHI K. SURESH	S. Suresh
22	22085A0046	RISHI K. SURESH	S. Suresh
23	22085A0047	RISHI K. SURESH	S. Suresh
24	22085A0048	RISHI K. SURESH	S. Suresh
25	22085A0049	RISHI K. SURESH	S. Suresh
26	22085A0050	RISHI K. SURESH	S. Suresh
27	22085A0051	RISHI K. SURESH	S. Suresh
28	22085A0052	RISHI K. SURESH	S. Suresh
29	22085A0053	RISHI K. SURESH	S. Suresh
30	22085A0054	RISHI K. SURESH	S. Suresh
31	22085A0055	RISHI K. SURESH	S. Suresh
32	22085A0056	RISHI K. SURESH	S. Suresh
33	22085A0057	RISHI K. SURESH	S. Suresh
34	22085A0058	RISHI K. SURESH	S. Suresh
35	22085A0059	RISHI K. SURESH	S. Suresh

No.	Regid. No.	Name of the Student	Signature
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3	2100000003
4	2100000004
5	2100000005
6	2100000006
7	2100000007
8	2100000008
9	2100000009
10	2100000010
11	2100000011
12	2100000012
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30	2100000030

DEKAN SIKH ILSIK 2

PRIN. ILSIK

SIRKUKUNTING ENGINEERING TEKNIK
 IMPARTIAL SEMESTER I & II
 2021 - 22, Semester I & II 2021 - 22 dan going batch
 SUBURBAN A

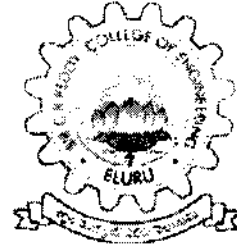
II/IV B.Tech
 2021 - 2022
 First Semester
 Names List

S.No.	Regid.No.	Name of the Student	Signature
1	2100000001
2	2100000002
3	2100000003
4	2100000004
5	2100000005
6	2100000006
7	2100000007
8	2100000008
9	2100000009
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32	2100000032
33	2100000033
34	2100000034
35	2100000035
36	2100000036

S. No	Reg. No	Name of the Student	Signature
37	220604000	ADARSH ANAND	A. S. Anand
38	220604001	ADARSH ANAND	A. S. Anand
39	220604002	ADARSH ANAND	A. S. Anand
40	220604003	ADARSH ANAND	A. S. Anand
41	220604004	ADARSH ANAND	A. S. Anand
42	220604005	ADARSH ANAND	A. S. Anand
43	220604006	ADARSH ANAND	A. S. Anand
44	220604007	ADARSH ANAND	A. S. Anand
45	220604008	ADARSH ANAND	A. S. Anand
46	220604009	ADARSH ANAND	A. S. Anand
47	220604010	ADARSH ANAND	A. S. Anand
48	220604011	ADARSH ANAND	A. S. Anand
49	220604012	ADARSH ANAND	A. S. Anand
50	220604013	ADARSH ANAND	A. S. Anand
51	220604014	ADARSH ANAND	A. S. Anand
52	220604015	ADARSH ANAND	A. S. Anand
53	220604016	ADARSH ANAND	A. S. Anand
54	220604017	ADARSH ANAND	A. S. Anand
55	220604018	ADARSH ANAND	A. S. Anand
56	220604019	ADARSH ANAND	A. S. Anand
57	220604020	ADARSH ANAND	A. S. Anand
58	220604021	ADARSH ANAND	A. S. Anand
59	220604022	ADARSH ANAND	A. S. Anand
60	220604023	ADARSH ANAND	A. S. Anand
61	220604024	ADARSH ANAND	A. S. Anand

HOD MPTI ENG:

PRINCIPAL:



MEMORANDUM OF UNDERSTANDING (MOU)

BETWEEN

HIEE EMPOWERING ENGINEERS PVT LTD (HIEE)

AND

SIR C R REDDY COLLEGE OF ENGINEERING (CRRE)

MEMORANDUM OF UNDERSTANDING

FOR

SKILL DEVELOPMENT, CERTIFIED COURSES, OUTCOME BASED TRAININGS, PLACEMENT AND RELATED SERVICES

This Memorandum of Understanding (hereinafter called as 'MOU') is entered in to on this on 12.05.2022 by and between

HIEE EMPOWERING ENGINEERS PVT LTD (HIEE) 803-214/4, SRINIVAS NAGAR (WEST), AMEERPET, HYDERABAD, TELANGANA-500038. The First Party represented herein by its CEO K.MADAN MOHAN,

Corporate Identity Number	: U80302TG2021PTC157108
Tax Deduction Account Number	: HYDH07432F
AICTE Organization ID	: CORPORATE61a08a1139c991637911057

And

SIR C R REDDY COLLEGE OF ENGINEERING (CRRE) the Second party represented herein by its HOD/ PRINCIPAL

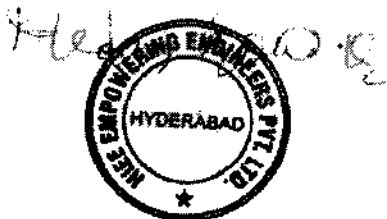
WHEREAS:


A) First Party is engaged in the space of offering 12 weeks of Job Oriented Training Programs with certificate courses and the Internship Enabler Program with 1 month internship and Workshops opportunity to the students of engineering colleges.

B) First Party & Second Party believe that collaboration and co-operation between themselves will promote more effective use of each of their resources, and provide each of them with enhanced opportunities.

C) The Parties intent to cooperate and focus their efforts on cooperation within the area of Skill-Based Training, Expert Lecture, Education, Industrial Visit ,Placement.

D) SIR C R REDDY COLLEGE OF ENGINEERING (CRRE) the Second Party is a Higher Educational Institution.




Principal
SIR C.R.R. COLLEGE OF ENGINEERING
ELURU -534 007

NOW, THEREFORE, IN CONSIDERATION OF THE MUTUAL PROMISES SET FORTH IN THIS MOU, THE PARTIES HERE TO AGREE AS FOLLOWS:

1: CO-OPERATION

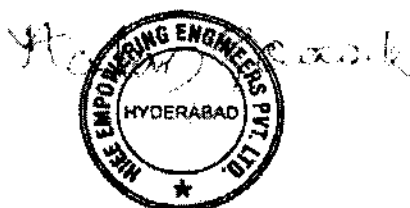
- 1.1 Both Parties are united by common interests and objectives, and they shall establish co-operation.
- 1.2 First Party and Second Party co-operation will facilitate effective utilization of the intellectual capabilities.
- 1.3 The parties shall co-operate with each other and shall as promptly as is responsibly practical, relevant agreement.

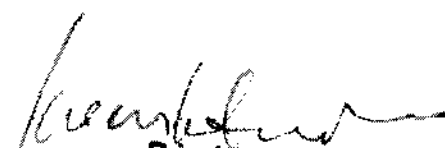
2: SCOPE OF THE MOU

- 2.1 Industrial Training & Visits: Industry and Institution interaction will provide an insight into the latest developments/requirements of the industries in the field of core Industries, the First Party to permit the Faculty and Students of the Second Party to visit its group companies and also involve in Industrial Training Programs for the Second Party. This will provide confidence & a smooth transition for students' work. Also, the Second party may register on the AICTE Internship Portal for the benefit of students.
- 2.2 Guest Lectures: First Party to extend the necessary support to deliver guest lecturers to the students of the Second Party on the technology trends and in-house requirements.
- 2.3 Certificate Courses: the First party will actively engage to help the delivery of certificate courses in the field of Core Industries based on the industry-leading platforms to the students of the Second party.
- 2.4 Internship for students: the First party will actively engage to help the delivery of the training and internship of the students of the Second party on the technology trends and in-house requirements.
- 2.5 There is no financial commitment on the part of HIEE and SIR C R REDDY COLLEGE OF ENGINEERING (CRRE) take up any program mentioned in MOU. Financial for any programs, revised on case to case basis.
- 2.6 Both Parties to obtain all internal approvals, consents, permissions, and licenses of whatsoever nature required either individually or collectively.

3: VALIDITY

- 3.1 The term of this MOU is for a period of 3 years, effective from the date of MOU signed. This MOU can be extended upon written mutual agreement. It shall be reviewed annually to ensure that it is fulfilling its purpose and to make any necessary revisions.
- 3.2 Either organization may terminate this MOU upon thirty (30) days written notice without penalties or liabilities.





Principal
SIR C.R.R. COLLEGE OF ENGINEERING
ELURU -534 007

4: RELATIONSHIP BETWEEN THE PARTIES

4.1 It is expressly agreed that First Party and Second Party are acting under this MOU as independent contractors, and the relationship established under this MOU shall not be construed as a partnership.

First Party

[Handwritten Signature]



HIEE EMPOWERING ENGINEERS PVT LTD (HIEE)

[Handwritten Signature]

Second Party
Principal

SIR C.R.R. COLLEGE OF ENGINEERING
ELURU-534 007

SIR C R REDDY COLLEGE OF ENGINEERING (CRRE)

Date: 12.05.2022

WITNESS:

1. *[Handwritten Signature]*
(KAMESH DUTTA)
HOD (CIVIL)
2. *[Handwritten Signature]*
12/05/2022
(Dr. A. Srinivasa Reddy)
HOD (EEE)
3. *[Handwritten Signature]*

HIEE

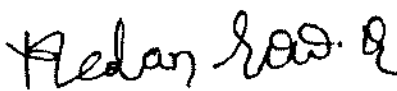
K. MADAN MOHAN, STRUCTURAL ENGINEERING

ON JOB ENGINEERING TRAINING PROGRAMME

Certificate

This is to certify that Mr IPPALA ANIL KUMAR REDDY , is a student of SIR C R REDDY COLLEGE OF ENGINEERING , studying 3rd year second semester , Bearing Regd No. 20B81A0118 , he has successfully completed INTERNSHIP PROGRAM at HIEE EMPOWERING ENGINEERS PVT LTD (HIEE) - HYDERABAD on “ DETAILED ESTIMATION , PROJECT EXECUTION , REPAIR MANAGEMENT , PROJECT MANAGEMENT , PROJECT PLANNING & DESIGNING AT HIEE PVT LTD – HYDERABAD ” from 22-May-2022 to 21-June-2022 , he has technically learnt well and has worked well on site and has played a good role in various activities.

“His conduct and commitment are EXCELLENT”


(K. MADAN MOHAN M.Tech)
CEO of HIEE
HIEE PVT LTD
HYDERABAD



Estd. 1989

SIR C.R. REDDY COLLEGE OF ENGINEERING

ELURU - 534 007, West Godavari Dist., A.P., INDIA

APPROVED BY ALL INDIA COUNCIL FOR TECHNICAL EDUCATION, NEW DELHI,
AFFILIATED TO JNTUK, KAKINADA

www.sircrengg.ac.in



☎ OFF : (08812) 230840, 230665
FAX : (08812) 224193
Email : principal.sircrengg@gmail.com

Ref. No. _____

Date : _____

MEMORANDUM OF UNDERSTANDING

BETWEEN

EFICENS SYSTEMS
Atlanta
USA

AND

SIR C.R. REDDY COLLEGE OF ENGINEERING, ELURU

*Thank to
SOP/ice*

February 1, 2021



Register of



CONFIDENTIALITY STATEMENT AND NOTICE REGARDING OBLIGATIONS AND CONDITIONS

CONFIDENTIALITY

All information contained in this document is strictly confidential and is provided for the use of SIR C.R.REDDY COLLEGE OF ENGINEERING, ELURU and shall not be divulged to any third party without prior written consent from EFICENS SYSTEMS.

OBLIGATIONS AND CONDITIONS

Neither EFICENS SYSTEMS, Atlanta, USA nor SIR C.R.REDDY COLLEGE OF ENGINEERING, ELURU has any legal obligation with respect to this document, other than the confidentiality obligation. In the event that any statement or assumption within this document changes or is incorrect, EFICENS SYSTEMS, Atlanta, USA reserves the right to revise any portion of this document accordingly.

Implementation of any services detailed in this document is subject to applicable regulations in force on the date services are to be implemented. EFICENS SYSTEMS, Atlanta, USA (hereafter referred to as EFICENS SYSTEMS, Atlanta, USA and SIR C.R.REDDY COLLEGE OF ENGINEERING, ELURU, hereafter referred to as SIR C.R.REDDY COLLEGE OF ENGINEERING, ELURU, agree that the encouragement and development of co-operation and exchange of innovation and technology development in areas of mutual interest would be desirable. Both parties wish to expand the basis for partnership and co-operative agreement to begin services in terms of providing industry projects and promoting technology awareness in the college through training.

February 1, 2021



Article 1:

The general purpose of this Memorandum of understanding is to develop and carry out collaborative activities in furtherance of the common interest of EFICENS SYSTEMS, Atlanta, USA and SIR C.R.REDDY COLLEGE OF ENGINEERING, ELURU, as set forth in Article 2.

Article 2:

The scope of the collaboration included in this Memorandum of Understanding includes but is not confined to the following categories:

THE ROLES AND RESPONSIBILITIES OF HOSTING INSTITUTION (SIR C.R.REDDY COLLEGE OF ENGINEERING, ELURU):

1. To provide required space and infrastructure to conduct industry-based projects
2. To provide sufficient access to various Laboratory equipment's.
3. Hire Project Managers required for the Center. EFICENS SYSTEMS, Atlanta, USA will provide the consultants for this purpose.
4. Designate faculty responsible to support this activity.
5. To ensure NDA is implemented to strict measures.
6. To ensure project delivery is on time as per the schedule.
7. To provide infrastructure support help

THE ROLES AND RESPONSIBILITIES OF EFICENS SYSTEMS, Atlanta, USA:

1. **Company Selection and Agreement** - Negotiate best arrangements with organizations.

Student Selection - Select students from SIR C.R.REDDY COLLEGE OF ENGINEERING, ELURU

2. EGE to work on the projects.
3. **Center Management** - Overseeing that stakeholders are progressing toward the project goals on schedule and on budget. Liaison between all

February 1, 2021



Page 1 of 1



the parties involved - College, Students, Industry. Required office space should be allocated for smooth functioning of projects.

- 4. Technical Guidance** - Managing all of the technology-related aspects of development projects. Making sure the coding is scalable and open-source knowledge-sharing or data collection solutions. Refining the design and resolving usability concerns is facilitated by code jams and user testing in the field.
- 5. Solution Architecture** - Technical architecture and support and System Administration
- 6. Program Management** - Monitoring and evaluating all the projects; Preparing calendar of activities for centers and reviewing the same; Collecting a wide range of data showing the impact of the projects and supporting the strengthening of the pillar. Developing appropriate monitoring material; Accountable to the clients and for meeting deadlines; Establishing networks with forums like Tie and other software organizations; Arrange leadership sessions to partner colleges, Facilitate labs.
- 7. Support Services** - Procurement; Conducting Competitions; Accounting; IP Filing; Bank Loan and funding arrangements; Finance and Administration; Legal Support; Tinkering facilities
- 8. Marketing and Creative Services** - Branding and Publicity; Marketing Support for new product; Liaison with the required departments; Documentation support for students; Helping in presentations; User Interface and User Experience design for new products

ISSUES RELATED TO TECHNOLOGY DEVELOPED, IP, SECURITY AND

February 1, 2021



PATENTS:

1. EFICENS SYSTEMS, Atlanta, USA hold the Intellectual Property and hold the right of adding or relieving resources to/from team.
2. EFICENS SYSTEMS, Atlanta, USA believe data security is the key to this project and any kind of code misplacement or reuse is not accepted and may lead to legal charges.

ARTICLE 3:

In order to implement the aims and purpose of this Memorandum, the following is mutually understood and agreed:

1. EFICENS SYSTEMS, Atlanta, USA will pay minimum of 3.6 lakhs salary per annum for the candidates who completes their Internship during their graduation.
2. EFICENS SYSTEMS, Atlanta, USA will pay Rs 8000/- per month as a stipend during their internship for deserved candidates.
3. The number of students will be hired based on the requirements of the EFICENS SYSTEMS, Atlanta, USA.

ARTICLE 4:

1. This Memorandum will come into force on the date of its signature by both parties and will be valid for a period of two years.
2. This Memorandum may only be amended by mutual agreement of both parties.
3. Reviews of the operation of this Memorandum will be held every year with the aim of enhancing its effectiveness.

February 1, 2021



4. This Memorandum may be terminated by either party at any time provided that the terminating party gives written notice of intention to terminate at least three months prior termination.
5. From the date of signing this Memorandum, EFICENS SYSTEMS, Atlanta, USA and SIR C.R.REDDY COLLEGE OF ENGINEERING, ELURU can publish about this collaboration. However, the copy of the same should be as per the articles discussed in this Memorandum.
6. Any disputes regarding this Memorandum in the period of operation are subjected to Andhra Pradesh Jurisdiction only.

TERMS AND CONDITIONS:

1. Access to meeting rooms should be provided to the team. The center should be available 24/7
2. We recommend the projects are not tied to academic requirements and deadlines.

COMMERCIALS:

- Any hardware thus purchased is property of concerned party.
- We make every effort to make the department profit generating through innovative projects, consulting and R&D.
- The above terms and conditions can be changed on mutual agreement by both the parties.
- Term: The agreement is applicable for 1 years unless dispute arises wherein the withdrawal has to be agreed by both the parties or settled in the court of law, subject to Hyderabad jurisdiction.
- If in any case one of the parties decides to / forced to withdraw from the program, the withdrawal can happen only at the end of completion of a semester and related accounts are settled to satisfaction of both the parties.

February 1, 2021



EFICENS SYSTEMS
Atlanta
USA

EFICENS SYSTEMS, Atlanta, USA

**SIR C.R.REDDY COLLEGE OF
ENGINEERING, ELURU**

By: 

By:

Name:

Ramu Venigandla

Name:

Venubhadrachari Kondradidi

Title:

CEO

Title:

Principal

Date:

05/26/2022

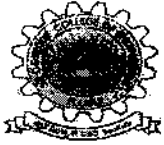
Date:

26/5/2022

Principal
Sir C R Reddy College of Engineering
ELURU - 534 007



February 1, 2022



**SIR C R REDDY COLLEGE OF ENGINEERING
DEPARTMENT OF INFORMATION TECHNOLOGY**

One Day Workshop

Academic Year : 2022-2023

Topic : Undergraduate Engineering Projects

Date & Time : 21-10-2022

Venue : Lab-1

Benefited Students : 4/4 IT students

**No. of participants
Attended** : 50

Resource Person : **Koduri Gayathri**
Ui/UX Designer
Eficens Systems Hyderabad, Telangana, India · On-site

Organized by : Department of IT

Workshop Coordinators

1. N.Prasad
2. T.Satya Nagamani


HOD - IT

Dr. S.Krishna Rao

HEAD OF THE DEPARTMENT
Information Technology
Sir C.R.R. College of Engg.
ELURU-534 007



SIR C R REDDY COLLEGE OF ENGINEERING
DEPARTMENT OF ELECTRONICS AND COMMUNICATION
ENGINEERING

Title of the Event : Undergraduate Engineering Projects
Dates & Time : 21-10-2022
9.00 AM to 12.30 PM & 1.30 PM to 5.00 PM
Venue : Lab-1
Benefited Students : 4/4 IT Students

CLASS	Regd. No.	Total
4/4 B.Tech. Students	19B81A1201-10, 14-22,26-40, 56-72, 88-90	50

No. of participants
Attended : 50
Resource Persons : Koduri Gayathri , Ui/UX Designer,
Eficens Systems Hyderabad, Telangana, India · On-site
Organized by : N.Prasad, Assistant Professor
T.Satya Nagamani, Assistant Professor

Workshop Coordinators

1. N.Prasad
2. T.Satya Nagamani


HOD - IT

Dr. S.Krishna Rao

HEAD OF THE DEPARTMENT
Information Technology
Sir C.R.R. College of Engg.
ELURU-534 007

COPY TO:

1. Dept office :
2. Work shop's Incharge:

Workshop Report

Summary Report:

Introduction:

The workshop on "Undergraduate Engineering Projects" aimed to provide a comprehensive understanding of the process, challenges, and best practices involved in undertaking engineering projects at the undergraduate level. Held on 10-10-2022, the workshop brought together students, faculty members, and subject experts to share insights and experiences.

Key Objectives:

1. To familiarize participants with the importance of undergraduate engineering projects in academic and professional development.
2. To discuss methodologies for selecting, planning, and executing engineering projects.
3. To highlight the role of interdisciplinary collaboration and innovation in project development.
4. To address common challenges faced by students during project implementation and offer strategies for overcoming them.
5. To explore the impact of engineering projects on career prospects and further academic pursuits.

The workshop was inaugurated by **Dr. S.Krishna Rao, HOD of IT Department, Sir C.R Reddy College of Engineering.**

Workshop Sessions:

1. **Opening Session:**
 - Welcome address by the workshop organizer.
 - Introduction of keynote speakers and panelists.
 - Overview of the workshop objectives and agenda.
2. **Understanding the Significance of Engineering Projects:**
 - Presentation on the importance of undergraduate engineering projects in fostering practical skills, critical thinking, and problem-solving abilities.
 - Testimonials from alumni and industry professionals highlighting the role of projects in shaping their careers.
3. **Selecting and Planning Engineering Projects:**
 - Discussion on criteria for selecting suitable project topics.
 - Guidance on project proposal writing, timeline development, and resource allocation.
 - Case studies illustrating successful project planning methodologies.
4. **Implementing Interdisciplinary Projects:**
 - Panel discussion on the benefits and challenges of interdisciplinary collaboration in engineering projects.
 - Examples of projects integrating concepts from multiple engineering disciplines.

- Strategies for effective communication and teamwork in interdisciplinary settings.
5. **Overcoming Challenges in Project Execution:**
- Identification of common challenges faced by students during project implementation, such as time management, resource constraints, and technical issues.
 - Peer-to-peer sharing of experiences and solutions.
 - Tips for troubleshooting and adapting project plans as needed.
6. **Showcasing Engineering Project Outcomes:**
- Presentation of completed or ongoing engineering projects by student teams.
 - Demonstration of prototypes, models, or software developed as part of the projects.
 - Q&A session with audience members to discuss project methodologies and outcomes.
7. **Career Perspectives and Further Studies:**
- Talk by industry experts on how undergraduate engineering projects can enhance employability and career prospects.
 - Guidance on leveraging project experiences for internships, job applications, and graduate school admissions.
 - Information on research opportunities and postgraduate programs in engineering fields.

Conclusion: The workshop on "Undergraduate Engineering Projects" provided a platform for students to gain valuable insights into the process of conceiving, planning, and executing engineering projects. Through engaging sessions and interactive discussions, participants gained practical knowledge, shared experiences, and forged connections with peers and industry professionals. Moving forward, the lessons learned from the workshop will empower students to undertake meaningful projects that contribute to their academic growth and professional development.

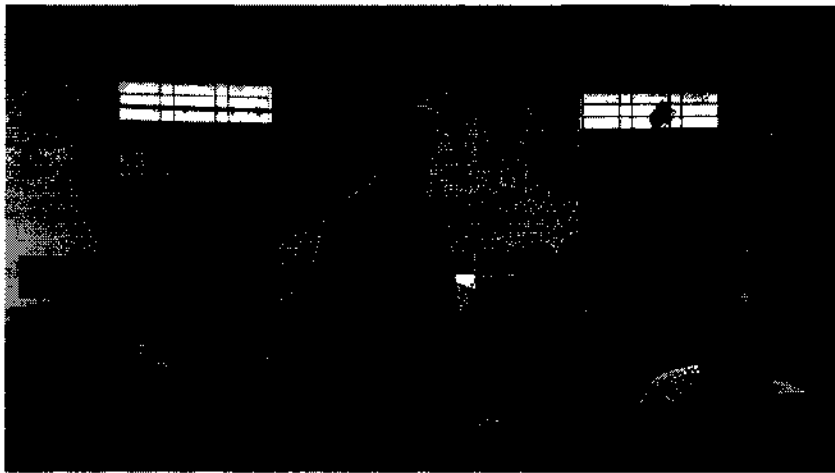
PHOTO GALLERY

Introduction of keynote speakers and panelists



Students working in groups

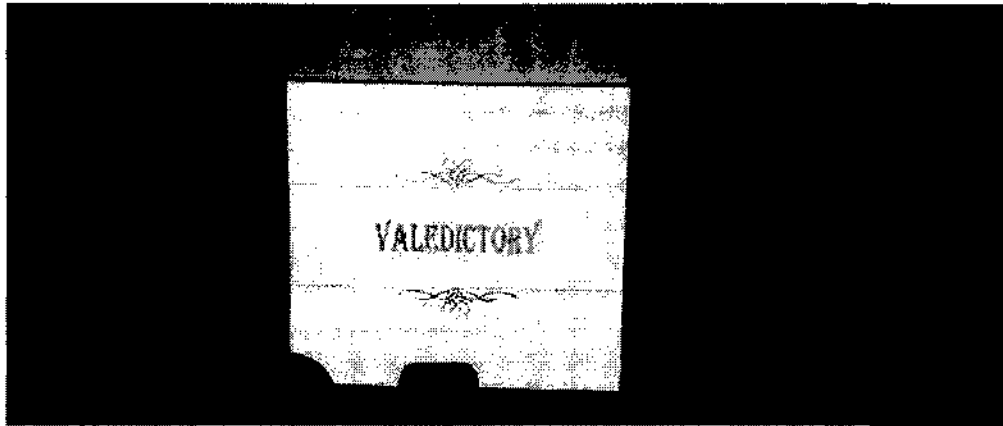
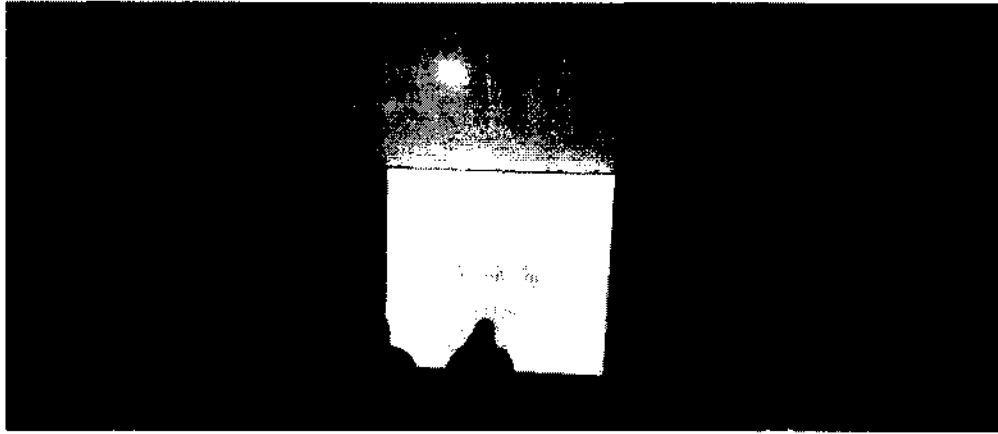




Students practicing as project teams



Valedictory of the workshop



Koduri Gayathri Addressing at Valedictory