



SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY
An Autonomous Institution | Approved by AICTE | Affiliated to Anna University
Kuniamuthur, Coimbatore - 641008

17.2.3 International collaboration data gathering for SDG Participate in international collaboration on gathering or measuring data for the SDGs



List of International collaboration

S.No	Event	Date	SDG
1	KYOONPOK NATIONAL UNIVERSITY, KOREA	04.08.2022	SDG 4,SDG 17
2	ICT MOU	From 2021 to 2024	SDG 4,SDG 17
3	KPIT MOU	14.10.2022	SDG 4,SDG 17



தமிழ்நாடு தமில்நாடு TAMIL NADU *[Signature]* 01AC 889225
 30.7.2022 Sri Krishna College of Engineering & Tech Coimbatore
 K. பிரபாகரன்
 முத்திரைகாரன் கிழவாணையார்
 L.No: 7323 / B1 / 2008 / 37
 16/147, அழகியூர் கோவில் வீதி,
 காந்தி நகர், மதுக்கரை,
 கோயமுத்தூர் - 641105.

Memorandum of Understanding

Between

Sri Krishna College of Engineering and Technology, Coimbatore, Tamil Nadu, INDIA.

and

Connected Computing and Media Processing Lab

Kyungpook National University, #80Dae-hakro, Buk-gu, Daegu, SOUTH KOREA.

This agreement made on 04th August 2022 between M/s. Connected Computing and Media Processing Lab hereinafter called the party of the first part represented by its Founder & CEO, Dr. Anand Paul, Director, Kyungpook National University, #80Dae-hakro, Buk-gu, Daegu, South Korea.

[Signature]

[Signature]

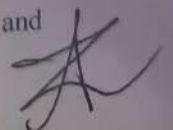
Sri Krishna College of Engineering and Technology, Kuniyamuthur, Coimbatore-641 008, Tamil Nadu, hereinafter called the party of the second part represented by Head of the Department of Mechatronics Engineering, Dr.M.Lydia, Coimbatore – 641008.

SKCET has topped in Educational Services by offering technology-based Education and has marched towards the pinnacle of glory through its remarkable achievements in the field of Engineering Education since its establishment in 1998. The Department of Mechatronics Engineering established in 2000 has been engaged in numerous academic and research endeavors. It has been the pioneer in introducing several courses to match the demands of the current advancements in technology. Through the years, the department has evolved into a strong academic and research contributor in different domains of mechatronics. The department is equipped with well qualified faculty members and state of the art laboratories. The department ensures expertise in latest technologies by encouraging faculty training and participation in seminars, workshops and conferences. The department is committed to encourage and mentor the students to participate in technical events and inter-collegiate competitions. It focuses on Industry based curriculum and periodic revision of curriculum with latest technologies. Apart from offering industry ready and cutting-edge curriculum, the department focuses on the wholesome development of the students. The students are encouraged to be a part of the professional bodies like IEEE Robotics and Automation Society, Robotic Society of India. The Department has strong collaboration with industries, Research Labs and International Universities. The Department is committed to offer world class education in the fields of Robotics and Automation.

Kyungpook National University Connected Computing and Media Processing Lab hereinafter referred to as **CCMP Lab** research mission is to identify, persuade and evaluate pioneering technologies that address current and future challenges of M2M and Big Data. Furthermore, the aim of this MoU is to develop the future for M2M and Big Data technologies that provide solution for sharing information among connected machines. The core challenges include data security, data communication, data acquisition, data analysis and data storing. The lab also focuses on improving the performance of big data analytics systems in particular for business intelligence through efficient parallel computing methods for multicore processors, GPUs, Processor clusters and clouds. **CCMP Lab** which expression unless repugnant to the context shall mean and include its successor in office, administrators and assigns represented by its Director Dr. Anand Paul the sole proprietor of the OTHER PART.

Article 1

The objective of this MoU is to establish a basic framework for conducting cooperative activities and to provide a mechanism for scientific and technical cooperation that is benefit to both sides **SKCET** and **CCMP Lab**. The MoU is to conduct mutually beneficial cooperative activities within the scope and expertise of the above Institutions and the resources shall be shared fairly and equitably. Ownership and management of any intellectual property developed in relation to a project or projects under this MoU, or any standards for data management and



protocols for data sharing are to be dealt with in the management agreement or other contractual arrangement. Such cooperation is expected to result in a collaborative expansion of the scope and expertise of each Institution and enhanced exchange of scientific and technical knowledge between both the Institutions. The scope of the cooperative activities between the **SKCET** and **CCMPLab** shall primarily consists of the following:

- Joint Venture and Publications
- Joint Workshop/Seminar/Conference/Training
- Exchange of Technical information
- Exchange of Research scholars
- Exchange of faculty members for a short or long period of time
- Cooperation in developing new projects and organization of joint research and constant activities

Article 2

This MoU is non- binding, and each cooperative activity shall be discussed in detail and consists of statement of purpose and information on the duration, cost, and other necessary terms of international cooperative activities between **SKCET** and **CCMPLab**.

Area of Specification

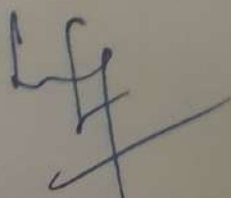
The objective of this MoU is on three main aspects specifically focusing on, Internet of Robotic Things (IoRT), AI for Robotics and Cloud Robotics. IoRT is the amalgamation of robotic system with IoT technologies. The application of AI based techniques in robotic navigation and in other areas will also be considered. Cloud robotics and automation have been a game changer in the field of robotics. Robots can offload complicated and computationally complex tasks such as image recognition, graphical mapping systems etc. and download new updates and skills. Hence implementation of such cloud computing concepts will revolutionize robotic applications.

Article 3

This MoU is valid for 5 years from the date of signing and will be renewed for a further period on mutually agreed terms and conditions.

Financial Commitments

The financial arrangements to cover expenses for the cooperative activities undertaken within the framework of this MoU shall be mutually agreed upon by the respective parties on a case-by-case basis subject to the availability of funds and resources. This MoU does not constitute any obligation of funds by either party.



Confidentiality

The parties hereby agree not to disclose any terms of this agreement without the prior written consent of the other party unless and to the extent such disclosure is required by law or any relevant regulatory authority.

Maintenance

The use of computers, research facilities and equipment in robotic and IoT laboratories is mutually to be maintained and to be assisted for synchronization of activities.

Research Findings

The support towards organization of joint research, development and design projects, science and technology conferences, symposia and seminars and any other areas of cooperation in the field of science and technology is to be mutually agreed upon by the parties.

Dispute Resolution

Any dispute concerning the subject matter of this document is to be settled by full and frank discussion and negotiation between the parties and will not be referred to any National or International tribunal or any other third party for settlement.

Article 4

This agreement is prepared to two parts and both the parties shall retain each one of the same. The MoU shall be effective from the date of signing by the parties. This MoU is executed on 4th August 2022.

For Sri Krishna College of Engineering and Technology, Coimbatore – 641008 Tamil Nadu, INDIA	For Connected Computing and Media Processing Lab, Kyungpook National University, #80, Dae-hakro, Buk-gu, Daegu - 702 – 701, SOUTH KOREA.
Name: Dr. M. Lydia Designation: Professor and Head, Department of Mechatronics Engineering, Coimbatore – 641 008	Name: Dr. Anand Paul, Designation: Director, Connected Computing and Media Processing Lab, Kyungpook National University, #80, Dae-hakro, Buk-gu, Daegu - 702 – 701 South Korea

(Dr TA Selvan)

(Dr. D. PRITHIMA)



07th October 2021

TO WHOMSOEVER IT MAY CONCERN

Hereby we would like to record **Sri. Krishna College of Engineering & Technology, Coimbatore** is a Privileged member of ICT Academy and has been forerunner in driving all initiatives for the betterment of Educators and Students community.

Last year in spite of the pandemic situations prevailed Sri. Krishna college of Engineering & Technology has executed lot of Industry Institute Initiatives in association with few leading corporate partners and support from ICT Academy.

The below are some of the Key Initiatives executed by Sri. Krishna College of Engineering & Technology.

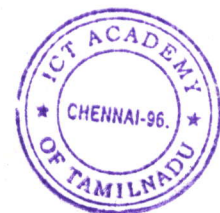
1. **Women Empowerment Program:** This program is to empower 100 Women students on Advanced IT Skills supported by DXC Technology and implemented by ICT Academy.
2. **Advanced IT Skills Training:** A Project to train students on Advanced IT Skill training supported by Inspirisys.
3. **Aspiring Entrepreneurs Program:** This program is for the Youth in the age group of 20-25 years who are aspiring to become Entrepreneurs supported by **HDFC Parivartan**.

All the above initiatives have to be executed by Sri. Krishna College of Engineering & Technology as per the expectations of all the stake holders.

Thanks & regards,

G. Saravanan

Head - Marketing & Strategic Alliances



MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding entered into at COIMBATORE on this 31st day of MARCH month in the year 2021.

BETWEEN

M/s ICT Academy, a non-profit Society incorporated under the Tamil Nadu Societies Registration Act, 1975 and having its Office at ELCOT Complex, 2-7 Developed Plots, Industrial Estate, Perungudi, Chennai 600 096 (hereinafter called as "**ICT Academy**" which expression shall, wherever the context so permits mean and include successors and assigns.)

AND

Sri Krishna College of Engineering and Technology Coimbatore being the beneficiary of this MoU having its principal place of business at **Coimbatore, Tamilnadu** duly represented its **Dr.J.JANET, Principal** (hereinafter referred to as "**Sri Krishna College of Engineering and Technology Coimbatore** which expression shall, wherever the context so permits mean and include successors and assigns.)

WHEREAS

ICT Academy is an initiative of the Government of India in collaboration with the state Governments and Industries. ICT Academy is a not-for-profit society, the first of its kind pioneer venture under the Public-Private-Partnership (PPP) model that endeavours to train the higher education teachers and students thereby exercises on developing the next generation teachers and industry ready students.

With training of teachers and students as the primary objective, ICT Academy has been working through a seven pillar program in the areas of Faculty Development, Student Skill Development, Entrepreneurship Development, Youth Empowerment, Industry-Institute Interaction, Digital Empowerment and Research & Publications.

In the last 12 years, ICT Academy has strived on every aspect to provide a holistic service to every stakeholder of the education ecosystem in developing the next generation of talent pool in India to make them industry ready employees, innovators, entrepreneurs and leaders.

Through its various initiatives, ICT Academy has been part of strengthening the India's four important visions on Skill India, Digital India, Start-up India and Make in India.

ICT Academy is agreeable to enter into this MOU with **Sri Krishna College of Engineering and Technology Coimbatore** as per the terms and conditions set out hereunder:



Now this MoU witnesses as under:

1. SCOPE OF THE MOU

Sri Krishna College of Engineering and Technology Coimbatore hereby agrees to implement **Entrepreneurship Cluster Development Program** for the students aspiring to become entrepreneurs in their institution. An initiative to nurture aspiring students/entrepreneurs across the State of Tamil Nadu and guide them towards beginning/running a successful business enterprise on their own.

ICT Academy and Sri Krishna College of Engineering and Technology Coimbatore would collaborate to implement Entrepreneurship Cluster Development Program for 100 no of Students in the respective Institution.

2. ROLE OF ICT ACADEMY

- 2.1. Shall Support on student acquisition and Screening process for the Selection of Students for the program.
- 2.2. Will provide the template for Printing of Marketing Collaterals
- 2.3. Shall provide Handouts to the beneficiaries if any available
- 2.4. Shall provide Self learning access to the students.
- 2.5. Conduct Assessments as and when required.
- 2.6. Certification to all successful students on fulfilling the criteria.
- 2.7. Conduct Awareness Sessions, Mentoring Sessions, Training sessions as per the project plan

3. ROLE OF SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY, COIMBATORE

- 3.1. Shall work along with ICT Academy in mobilising the final year students to take up the Training.
- 3.2. Should take declaration from the student that they will not discontinue the program
- 3.3. Shall appoint one coordinator to coordinate between ICT Academy and the Institution
- 3.4. Organise an Inauguration function and cover the training with Photographs & Videos.
- 3.5. Shall provide necessary infrastructure if any required.
- 3.6. Submit all acknowledgements and reports as per the requisites of the Project.

4. OPERATION OF THIS MOU

Upon execution of this MoU, ICT Academy shall communicate to Sri Krishna College of Engineering and Technology Coimbatore and the training schedules. Thereupon, the Parties shall mutually discuss and agree on the operational terms based on which ICT Academy would offer its services.

The key Initiatives are

- 4.1 Women Empowerment program supported by DXC Technology
- 4.2 Advanced IT skill training supported by Inspirisys
- 4.3 Aspiring Entrepreneurs program supported by HDFC Parivartan

5. VALIDITY OF THIS MOU

- 5.1. The validity of this MoU would be for 3 years from the date of signing the MoU for the proposed Entrepreneurship Development Program The MoU may be renewed on mutually agreed terms between the Parties.
- 5.2. The Parties shall enter into firm binding agreements on the areas which are not covered under this MoU. Upon the execution of such agreements, this MoU may be terminated. Both parties



shall have the right to terminate this MoU, if any of the party does not comply with its obligations under this MoU by issuing 30 days prior notice.

6. CONFIDENTIALITY

- 6.1. The Parties shall treat all information, documents, contents and materials pertaining to **Sri Krishna College of Engineering and Technology Coimbatore** provided under this MoU as confidential.
- 6.2. **ICT Academy or Sri Krishna College of Engineering and Technology Coimbatore** shall not disclose any aspect of any confidential information to any third party in any manner whatsoever other than in the normal course of agreed terms under this MoU.
- 6.3. The confidentiality of information shall survive the termination of this Agreement.
- 6.4. Upon the termination of this MOU, **Sri Krishna College of Engineering and Technology Coimbatore** shall return all the contents, training materials and such other information provided by **ICT Academy** under this MoU duly without any undue delay and in cases where such information is not capable of being returned the same and provide a certificate to that to **ICT Academy**.

7. INTELLECTUAL PROPERTY

- 7.1. All the intellectual property rights with respect to the programs, contents provided by **ICT Academy** shall vest with **ICT Academy** and upon the termination of this Agreement by efflux of time or such other earlier termination, the college shall not have the right to use programs, contents, and such other training materials installed under this MoU and return the same to **ICT Academy**. **Sri Krishna College of Engineering and Technology Coimbatore** shall not infringe the intellectual property rights of **ICT Academy** and shall duly intimate of any such infringement by any third parties.

8. INDEMNITY

- 8.1. Both **Sri Krishna College of Engineering and Technology Coimbatore** and **ICT Academy** agree to hold harmless and indemnify each other, from and against all action, demands, proceedings, prosecutions, attachments, claims or causes of action whatsoever, including (but not limited to) attorneys' fees and other costs arising out of:
 - (a) Any breach of this Agreement by either party
 - (b) Any negligence on the part of either party

9. NOTICES

All notices regarding this Agreement shall be by personal delivery or by certified or registered mail, postage prepaid, at the addresses as either of them may so provide by notice given to the other in the same manner.



10. GOVERNING LAW

This MOU is made under and shall be governed by and construed under the laws of the Republic of India under the jurisdiction of the courts at Chennai.

11. ARBITRATION

In the event of any claim, controversy, dispute or difference between Parties, arising out of or in connection with or in relation to this Agreement, either Party will be entitled refer the same to arbitration in accordance with the rules of arbitration of the Arbitration and Conciliation Act 1996.

There shall be three arbitrators, one to be appointed by **ICT Academy**, the other to be appointed by **Sri Krishna College of Engineering and Technology Coimbatore** and the third to be appointed by the two arbitrators appointed by the Parties. The award of the arbitrators shall be final and binding on the Parties. The Arbitration proceedings shall be held at Chennai.

In witness whereof the Parties have executed this MoU on this the 31st day of **MARCH 2021**

For ICT Academy



For Sri Krishna College of Engineering and Technology Coimbatore

Name

K.A. VIJAYAN

Designation

HEAD-ACADEMIC OPERATIONS

Name: Dr.JJANET

Designation : Principal

Sri Krishna College of Engineering and Technology

Kuniamuthur,

Coimbatore-641 008.

Witness

Witness

N. [Signature]

Memorandum of Understanding (MOU)
Between
KPIT Technologies Ltd
and
SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY

Background:

KPIT Technologies Ltd. Has a CSR Initiative "KPIT Sparkle" which is run as an innovation platform it organizes student innovation contests known as "i-Innovate" and "KPIT Shodh Awards" to recognize cutting-edge research. The "KPIT NOVA" is a platform for upskilling. For the mentioned programs, KPIT Technologies wish to involve student welfare representation at the college level. The beneficiaries are valid students from Indian Universities.

This platform has been awarded the 18th FICCI award for innovation in CSR. The participants are valid full-time students from undergraduate, Master to Ph.D. levels. These students belong to Science, Technology, Management, and Design disciplines. The students are supposed to submit an innovative idea and further on approval, need to create a prototype. The final top 30 teams are invited each year in February to showcase their innovation through actual implementation. They further get evaluated by a team of eminent Jury panel who are a mix of national and international experts from industry and academia. Each year teams win total prize money of over 21 Lacs for "KPIT Sparkle" and 5 lacs for "KPIT Shodh Awards". There are cash awards for Mentors as well. We also provide opportunities for Incubation to the top 100 teams through our incubation partner network.

Purpose:

We wish to make the participation of students denser from all over the country. The partnership MoU as a **Campus Activation Partner and establishment of KPIT Club** in the institution for better promotion of the program and have maximum participation of innovators to solve India's problems in Mobility and Energy. We have found **SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY** to be interested in active participation in the cause and this is an MoU for the same.

The following are the points for agreement.

1. The student teams with mentors are the sole owners of the ideas in the i-Innovate contest, the IP related to these is also in the name of the student. Both KPIT and **SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY** acknowledge the same.
2. It would be required to have active involvement of the college/institution/university/Incubation Centre. There will be a requirement of having a professor as a SPOC to KPIT. **A student ambassador** for the KPIT Sparkle team to communicate and organize the activities during the year.



3. KPIT Sparkle team will hold promotion events at **SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY** to explain the details of the platform and process of selection etc. It is expected that the student body representatives promote this event at nearby colleges and allow a peaceful assembly of students from other colleges who are interested.
4. There are phases of the program such as Registration & Idea submission, Premiere round, Pre-Finale, and Finale. During these different milestones, there would be a requirement of promotions, on-ground activation, elimination rounds, volunteers for a certain number of days, etc. which will be expected to be fulfilled.
5. Since there is business mentoring and technical mentoring provided to student teams during the progress from TRL 0 to TRL 5, there could be the requirement of the college auditorium to set up lighthouse centers for other teams from other colleges to come to attend and benefit.
6. The college will allow the usage of resources for prototyping for those teams (from other colleges) who don't have the facility at their college. The fee for usage will be directly borne by student teams who apply for such help at **SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY**.
7. The responsibilities of the **Professor and Student Ambassador** who will be front-facing the KPIT Sparkle team would be as follows.
 - a. Gather Total Strength Details as per academic background & Year
 - b. Connect with nearby college clubs and educate them about KPIT Sparkle
 - c. Identifying Ideas in the space of Mobility & Energy on LinkedIn, College Events, Innovation fests, College Clubs, and other sources.
 - d. Promotion-Online & Offline of Sparkle on Website, social media (joint promotion post), College WhatsApp groups, offline at college
 - e. Creating buzz about Sparkle in College
 - f. Getting good video bytes & stories of Innovation from college
 - g. Looking after all arrangements such as Infrastructure, auditorium booking, principal/dean availability, etc. as per standard protocols.
 - h. 5 Professors will be required to evaluate the Ideas process of Evaluation, which will be shared through logins.
 - i. Identification of Large Scale Working Prototypes
 - j. Joint Post Collaboration with Colleges on work done at Sparkle Club
 - k. Integration of Facebook/YouTube Lives for Webinars or any other sessions
 - l. Certificate of Recognition & Honorarium will be provided to all 5 professors.

8. In agreement with all the above points both the institutions confirm their acceptance of this joint Memorandum of Understanding by authorized signatories as below.

9. This Memorandum of Understanding shall not be binding upon the parties and neither party shall be held liable under this Memorandum of Understanding for any consequential, special, direct, indirect, incidental, punitive, or exemplary damages, costs, expenses, or losses (including, without limitation, lost profits, and opportunity costs), nor shall they be liable for any claim or demand by any third party.

The validity of this MOU shall be for **one year** from the date of signatures. The validity can be extended by mutual consent via email.

Authorized Signatories.

KPIT Technologies Ltd.	SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY
	 PRINCIPAL
Mr. Rahul Uplap Associate Vice President, CTO organization	Dr. J. Janet SRI KRISHNA COLLEGE OF Principal ENGG. & TECH. KUNIAMUTHUR, COIMBATORE - 641 008.

Date : **14/10/22**

RESEARCH ARTICLE | DECEMBER 14 2023

Preface: International Conference on Innovations in Robotics, Intelligent Automation and Control (ICIRIAC 2022)

FREE



AIP Conf. Proc. 2914, 010001 (2023)

<https://doi.org/10.1063/1.5021105>



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Preface: International Conference on Innovations in Robotics, Intelligent Automation and Control (ICIRIAC 2022)

The International Conference on Innovations in Robotics, Intelligent Automation and Control (ICIRIAC 2022) was organized by the Department of Mechatronics Engineering, Sri Krishna College of Engineering and Technology, Coimbatore in association with Kyungpook National University, South Korea and held on on 14th October 2022.

This Conference brought researchers, academicians, industrialists, and end-users of the Robotics and Automation community to share their knowledge, expertise, and recent innovations to foster collective advancement of the field. It served as a wonderful platform for the amalgamation and dissemination of research findings and disruptive technologies.

This Conference was inaugurated by Dr. Anand Paul, Director, Connected Computing and Media Processing Laboratory, Kyungpook National University, South Korea followed by his keynote speech on “Digital Twin to Metaverse: Recent Trends In AI”. Mr. Muthiah, Computation Engineer, Akka Technologies, Germany also presented a keynote speech on “Evolution of Intelligent Automation and Controls in Automotive Sector”.

More than 175 papers have been received for this conference. After peer review by the experts who are pioneers in each field, 75 papers have been accepted and recommended for presentation. All the presented papers will be published in AIP Conference Proceeding which will be indexed in Scopus. This conference had 8 Technical sessions. Around 200 participants who attended the Keynote sessions along with 75 presenters, from this conference. We would like to thank the Organizing Committee members, Reviewers, Speakers, Session Chairs, Participants, and to everyone who contributed to the success of this conference.

We look forward to the Second ICIRIAC in 2023.

Editorial Board,

Dr. M. Lydia, Editor in Chief

Prof. K. Ananthi

Prof. S. Madhan Kumar