



University : Karunya Institute of Technology and Sciences

Country : India

Web Address : www.karunya.edu

[6] Education and Research (ED)

[6.18] Number of university sustainability programs with International Collaborations

1. INTERNATIONAL STUDENT INTERNSHIPS ON SUSTAINABILITY





A) INBOUND STUDENTS:

#	Name of The Student	Country	Collaborating Department At Kits	Home Institution	From	To	Sustainability Goals
1	AMANDINE GARCIA	France	Department of Robotics Engineering	INSTITUT POLYTECHNIQUE DE BORDEAUX	01-06-25	10-09-25	INDUSTRY, INNOVATION AND INFRASTRUCTURE
2	ARTHUR BLANC	France	Department of Robotics Engineering	INSTITUT POLYTECHNIQUE DE BORDEAUX	01-06-25	10-09-25	QUALITY EDUCATION
3	FREDERIC ANDRIANTS EHENORAKOTO	France	Department of Robotics Engineering	INSTITUT POLYTECHNIQUE DE BORDEAUX	01-06-25	10-09-25	DECENT WORK AND ECONOMIC GROWTH
4	LOUISE TAUPIN	France	Department of Robotics Engineering	INSTITUT POLYTECHNIQUE DE BORDEAUX	01-06-25	10-09-25	SUSTAINABLE CITIES AND COMMUNITIES
5	PAULINE PROST	France	Department of Robotics Engineering	INSTITUT POLYTECHNIQUE DE BORDEAUX	01-06-25	10-09-25	QUALITY EDUCATION
6	YLHAN SADAT-BETTIOL	France	Department of Robotics Engineering	INSTITUT POLYTECHNIQUE DE BORDEAUX	01-06-25	10-09-25	GOOD HEALTH AND WELL-BEING
7	VERENA GRALL	Austria	Department of Biomedical Engineering	TU GRAZ / UNI GRAZ	21-07-2025	12-09-2025	GOOD HEALTH AND WELL-BEING






8	TERESA NIEDERMAYER	Austria	Division of Food Processing Technology	UNIVERSITY OF NATURAL RESOURCES AND LIFE SCIENCES	21-07-2025	21/10/2025	
9	JAVIER TORRALBO CORTES	Spain	Division of Computer Science and Engineering	UNIVERSITY OF MALAGA	21/07/2025	14/09/2025	
10	TRIVUN DEVIC	Serbia	Division of Biomedical Engineering	UNIVERSITY OF BELGRADE	21/07/2025	24/10/2025	
11	OLIVER OUMA	Kenya	Division of Food Processing Technology	DEDAN KIMATHI UNIVERSITY OF TECHNOLOGY	21/07/2025	21/10/2025	
12	PABLO MONCADA SORIA	Spain	Division of Biomedical Engineering	UNIVERSIDAD DE MALAGA	21/07/2025	28/11/2025	
13	ALVIN KARUGU	Kenya	Division of Mechanical Engineering	JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY	21/07/2025	28/11/2025	
14	PIOTR STEFANSKI	Poland	Division of Computer Science and Engineering	LODZ UNIVERSITY OF TECHNOLOGY	21/07/2025	17/10/2025	
15	ISABELLA KRATZ	Germany	Division of Agriculture	UNIVERSITÄT FÜR BODENKULTUR WIEN	15/08/2025	10/10/2025	



16	JASMIN FURCHE	Germany	Division of Biomedical Engineering	HTW BERLIN	03/08/2025	03/11/2025	
17	ANDREA MICAELA QUISPE	Bolivia	Division of Robotics Engineering	TOMAS FRIAS AUTONOMOUS UNIVERSITY	25/08/2025	24/11/2025	
18	FRANZIKA HENN	Germany	Division of Food Processing Technology	RHEINISCHE FRIEDRICH-WILHELMS UNIVERSITÄT	01/09/2025	10/10/2025	
19	CHRISTABEL NAADU AYIKU	Ghana	Division of Electrical and Electronics Engineering	KWAME NKRUMAH UNIVERSITY OF SCIENCE AND TECHNOLOGY	01/09/2025	21/11/2025	

b) OUTBOUND STUDENTS:

#	Name of The Student	Register Number	Collaborating Department/University	Country	From	To	Sustainability Goals
1	BESHWIN A	URK22ME1001	NORTH OIL COMPANY	QATAR	14-07-2024	22-08-2024	
2	AARON RAJKUMAR	PRK23RA1003	MERSEBURG UNIVERSITY OF APPLIED SCIENCES	GERMANY	01-11-2024	30-04-2025	
3	DARSHNEE SUNDERRAJ	URK22CS5005	BRANDENBURG UNIVERSITY OF TECHNOLOGY	GERMANY	01-10-2024	31-03-2025	



4	DIGGIMPUDI RUTH GREETHIKA REDDY	URK22CS1180	BRANDENBURG UNIVERSITY OF TECHNOLOGY	GERMANY	01-10-2024	31-03-2025	
5	DAIVIK VISMAY MANUEL	URK22CS1060	BRANDENBURG UNIVERSITY OF TECHNOLOGY	GERMANY	01-04-2025	30-09-2025	
6	DHRITI VILINA MANUEL	URK22CS1058	BRANDENBURG UNIVERSITY OF TECHNOLOGY	GERMANY	01-04-2025	30-09-2025	
7	JAELE HEPHIZIBAH SIMON	URK22CS1021	BRANDENBURG UNIVERSITY OF TECHNOLOGY	GERMANY	01-04-2025	30-09-2025	
8	BESTWIN ANTONYMU THU VIJAYAN	URK22CS1061	BRANDENBURG UNIVERSITY OF TECHNOLOGY	GERMANY	01-04-2025	30-09-2025	
9	MOHAN KUMAR RAJENDRAN	URK22CS1138	BRANDENBURG UNIVERSITY OF TECHNOLOGY	GERMANY	01-04-2025	30-09-2025	
10	CIRIL JOY KOCHUT	URK22RA2009	INSTITUT POLYTECHNIQUE DE BORDEAUX	FRANCE	15-04-2025	15-06-2025	
11	AKASH K	URK23CS7133	WOOSONG UNIVERSITY	SOUTH KOREA	18-08-2025	02-03-2026	
12	VENKATA PRASANNA BADI	URK23CS7133	WOOSONG UNIVERSITY	SOUTH KOREA	18-08-2025	02-03-2026	



13	J F JESVAAN RAJ	URK23CS1066	PARIS INSTITUT E OF DIGITAL TECHNO LOGY	FRANC E	01-09-2025	31-01-2026	REDUCED INEQUALITIES
14	NIRANJAN DHARMASEE LAN	URK23AE1026	GEORGIA N AVIATIO N UNIVERS ITY	GEORG IA	15-09-25	27-02-25	INDUSTRY, INNOVATION AND INFRASTRUCTURE
15	DHANUSH SRI KRISHNA GANGATHAR AN	URK23AE1011	GEORGIA N AVIATIO N UNIVERS ITY	GEORG IA	15-09-25	27-02-25	INDUSTRY, INNOVATION AND INFRASTRUCTURE
16	VARSHA RAJAMOHAN	URK23AE1014	GEORGIA N AVIATIO N UNIVERS ITY	GEORG IA	15-09-25	27-02-25	INDUSTRY, INNOVATION AND INFRASTRUCTURE
17	SHRI VISHAL GOWRI PRAKASH	URK23AE1019	GEORGIA N AVIATIO N UNIVERS ITY	GEORG IA	15-09-25	27-02-25	INDUSTRY, INNOVATION AND INFRASTRUCTURE
18	DEEPAK KUMAR S	URK22EC3018	FORAGE	NEW YORK	09-04-25	23-04-25	SUSTAINABLE CITIES AND COMMUNITIES
19	MR. A RAJAGOPAL AN	URK22EC3019	FORAGE	NEW YORK	06-04-25	20-04-25	QUALITY EDUCATION
20	MR. MANOJ S	URK22EC5002	FORAGE	NEW YORK	09-04-25	23-04-25	DECENT WORK AND ECONOMIC GROWTH
21	MR. SANJAYJAYA NTH K K	URK22EC5003	FORAGE	NEW YORK	09-04-25	23-04-25	RESPONSIBLE CONSUMPTION AND PRODUCTION



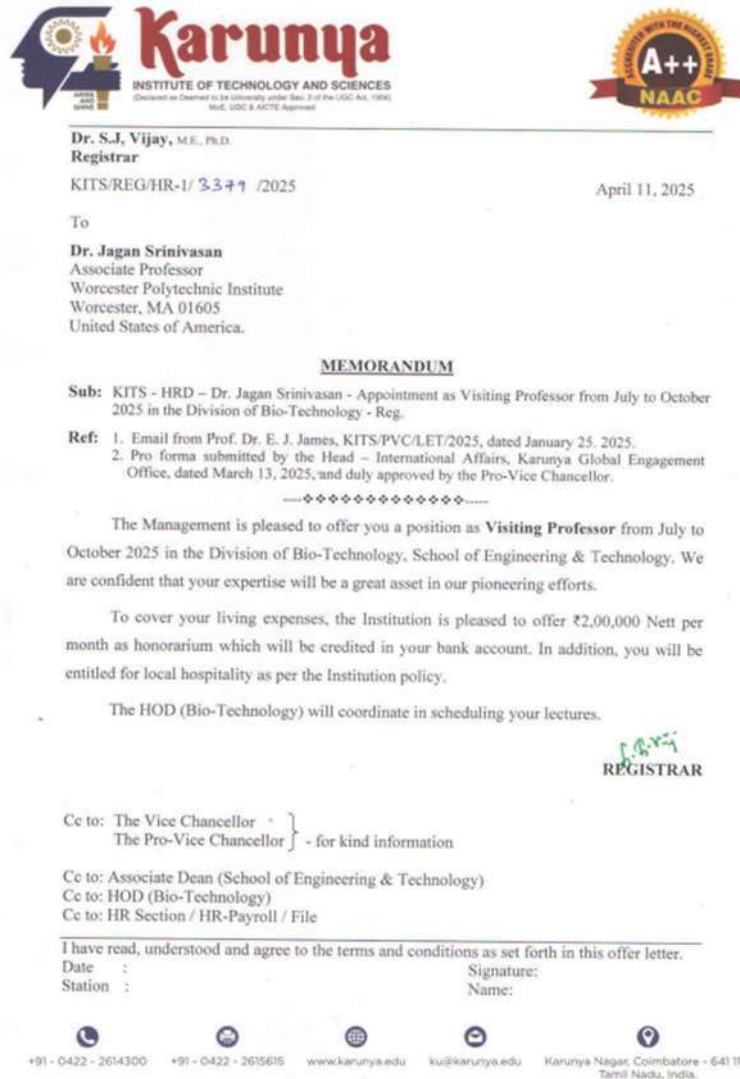
22	MR. NAGENDRA PRASAD M	URK22EC6070	FORAGE	NEW YORK	02-04/-25	16-04-25	
23	MR. TAMIZHVAN NAN M	URK22EC6005	FORAGE	NEW YORK	24-03-2025	24-04-2025	
24	MR. SIBI SUNTHAR S	URK22EC6017	FORAGE	NEW YORK	06-12-24	06-02-25	
25	MR. ANBU SELVA KUMAR V	URK22EC6048	FORAGE	NEW YORK	17-03-25	31-03-25	

2. INTERNATIONAL VISITING PROFESSORS

a) Dr. Jagan Srinivasan

Dr. Jagan Srinivasan is a distinguished academic and researcher in the field of Biotechnology. In 2025, he was appointed as a Visiting Professor in the Division of Bio-Technology, School of Engineering & Technology, where he contributed to pioneering initiatives in the department. His expertise and academic experience have been recognized as valuable assets to the institution. During his tenure from July to October 2025, Dr. Srinivasan played an important role in advancing research and academic collaborations within the field of biotechnology.

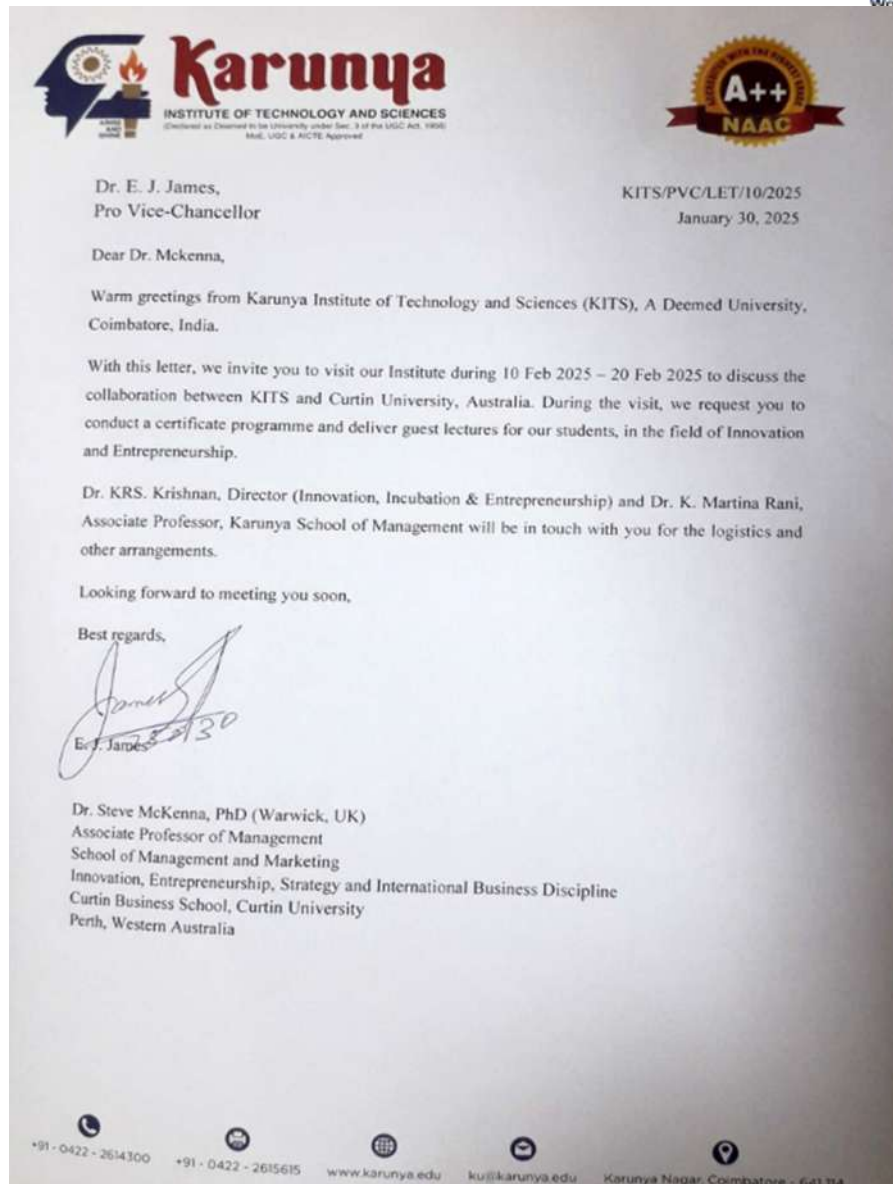
The achieved sustainability goals are Quality Education, Decent Work and Economic Growth.



b) Prof. Steve McKenna

Prof. Steve McKenna is an accomplished academic and researcher affiliated with Curtin University, Australia. In February 2025, he was invited to visit the Karunya Institute of Technology and Sciences (KITS), to strengthen academic collaboration between Curtin University and KITS. During his visit, Prof. McKenna was requested to conduct a certificate programme and deliver guest lectures for students in the field of Innovation and Entrepreneurship. His visit reflects his continued commitment to fostering international academic partnerships and advancing knowledge in entrepreneurship education.

The achieved sustainability goal is Industry, Innovation and Infrastructure.




c) Dr. Elizabeth Diaz

Dr. Elizabeth Diaz was invited to visit the Karunya Institute of Technology and Sciences as a Visiting Professor during July to September 2025 in the Division of Data Science and Cyber Security, School of Computer Science and Technology. Her visit aims to strengthen provide valuable insights to students and faculty through lectures, workshops, and research interactions. Dr. Elizabeth Diaz made significant contributions to promoting research and fostering academic partnerships in the field of Data Science and Cyber Security.


The achieved sustainability goals are Partnerships for the goals, Decent Work and Economic Growth.





Karunya

INSTITUTE OF TECHNOLOGY AND SCIENCES
(Declared as Deemed to be University under Sec. 3 of the UGC Act, 1956)
MUE, UGC & AICTE Approved



Dr. S.J. Vijay, M.E., Ph.D.
Registrar
KITS/REG/HR-1/3379 /2025

April 28, 2025

To

Dr. Elizabeth Diaz Villarroel
Professor
Computer Science and Engineering
University of Texas at Arlington
701 S. Nedderman Drive
Arlington, TX 76019

MEMORANDUM

Sub: KITS - HRD – Dr. Elizabeth Diaz Villarroel - Appointment as Visiting Professor from July to September 2025 in the Division of Data Science and Cyber Security - Reg.


Ref: Letter submitted by the Head – International Affairs, Karunya Global Engagement Office, dated April 16, 2025, and duly approved by the Pro-Vice Chancellor.

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The Management is pleased to offer you a position as **Visiting Professor** from July to September 2025 in the Division of Data Science and Cyber Security, School of Computer Science & Technology. We are confident that your expertise will be a great asset in our pioneering efforts.

To cover your living expenses, the Institution is pleased to offer ₹2,00,000 Nett per month as honorarium which will be credited in your bank account. In addition, you will be entitled for local hospitality as per the Institution policy.

The HOD (Data Science and Cyber Security) will coordinate in scheduling your lectures.







REGISTRAR

Cc to: The Vice Chancellor
The Pro-Vice Chancellor } - for kind information

Cc to: Dean (School of Computer Science & Technology)
Cc to: HOD (Data Science and Cyber Security)
Cc to: HR Section / HR-Payroll / File

I have read, understood and agree to the terms and conditions as set forth in this offer letter.

Date : _____ Signature: _____
Station : _____ Name: _____

 +91 - 0422 - 2614300  +91 - 0422 - 2615615  www.karunya.edu  ku@karunya.edu  Karunya Nagar, Coimbatore - 641 114, Tamil Nadu, India.

3. RESEARCH COLLABORATIONS

a) MEETING WITH PROF. DR. ASOKAN VASUDEVAN

Institution: INTI International University, Malaysia

Date: 26 May 2025

Key Discussion Points:

Joint Publications: Agreed to initiate collaborative research publications between Karunya Institute of Technology and Sciences (KITS) and INTI International University.

The **Article Processing Charges (APC)** for the joint publications will be borne by INTI International University.

QS Ranking Enhancement:



Discussed possible strategies to improve **QS World University Rankings** for both institutions.

Agreed to share best practices in research visibility, faculty collaborations, and international outreach initiatives.

Action Points:

Identify potential co-authorship teams between INTI and Karunya faculty.

Schedule a follow-up virtual meeting to finalize publication topics and target journals.

Develop a joint roadmap for QS ranking enhancement initiatives (e.g., citations, international faculty/student exchange, co-branded research outputs).



b) MEETING WITH PROF. LIONEL TROJMAN

Designation: Director of Research

Institution: ISEP – Paris Institute of Digital Technology, France

Date: 05.09.2025

Discussion Focus:

Exploration of potential collaborative research and project areas between ISEP and Karunya University.

Identified Areas of Mutual Interest:

AI / ML / Signal Processing: Joint research integrating Karunya's expertise in image processing and assistive devices with ISEP's projects such as HERBS and Treat-cSVD.

IoT / Embedded Systems & Low Energy Communications:

Collaboration opportunities between Karunya's renewable and embedded systems research and ISEP's work on energy-efficient communication and low-power protocols.

6G / Next Generation Communication Networks:

Complementary work combining Karunya's antenna and wireless communication research



with ISEP's 6G BRAINS initiatives.



Biomedical Sensors / Health Technology:

Joint development of sensor-based medical and assistive devices integrating AI and embedded hardware.

Agro-Environmental Data Integration:

Linking ISEP's IDEAC environmental data projects with Karunya's rural development and agricultural research programs.

Action Points:

Prepare a joint research proposal framework in the above thematic areas.
Initiate faculty-level technical meetings to align project objectives and deliverables.
Explore potential EU and Indo-French research funding opportunities.

c) MEETING WITH REM (RECONOCIMIENTO Y ENCAPSULACIÓN MOLECULAR) RESEARCH TEAM

Institution: Universidad Católica San Antonio de Murcia (UCAM), Spain

Planned Date: 5 November 2025 (Virtual)

Key Point:

Research Collaboration: Dr. Jibu Thomas from Karunya University has expressed interest in connecting with the REM group to develop collaborative research in molecular recognition and encapsulation.

Action Points:

Facilitate initial virtual meeting between Dr. Jibu Thomas and the REM team before the scheduled visit.
Explore potential publication and joint grant opportunities.

d) COLLABORATION WITH UCAT (UNIVERSITÀ CATTOLICA DEL SACRO CUORE), ITALY

Planned Meeting Date: 25 October 2025 (Virtual)

Professors Interested in Collaboration:

a) Prof. Paola Battilani – Plant Pathology, Mycotoxin Risk Assessment, Predictive Modelling, Decision Support Systems

b) Prof. Stefano Amaducci – Agronomy, Industrial/Energy Crops, Precision Agriculture, Agrovoltatics

c) Dr. Michele Croci – Remote Sensing, UAV/Satellite Crop Monitoring, Crop Modelling, Precision Agriculture

Key Discussion Points:

Establishing cross-institutional research collaboration in **Agriculture and Environmental Sciences**, focusing on predictive modelling, sustainable farming, agrovoltatics, and precision agriculture.



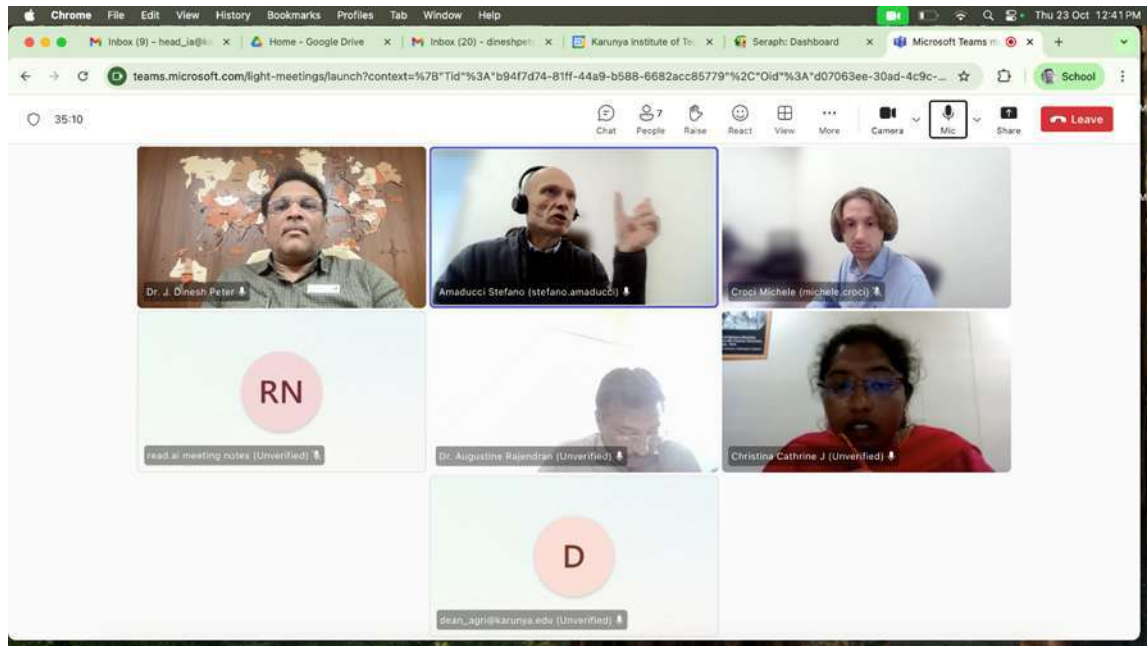
Potential for joint research proposals under **EU Horizon or Indo-European collaborative schemes**.

Action Points:

Identify Karunya faculty members working in related research areas.

Organize a virtual introduction and idea exchange session on 25 October 2025.

Develop a shared document outlining potential joint research themes and funding targets.



e) COLLABORATION MEETING WITH ESTACA (ÉCOLE SUPÉRIEURE DES TECHNIQUES AÉRONAUTIQUES ET DE CONSTRUCTION AUTOMOBILE), FRANCE

Date: 5th October 2025

Professors Interested in Collaboration

1. Prof. Nadir Hafis
2. Prof. Jean-Christophe Walrick (ESTACA)
 - Key Discussion Points:
 - Research Collaboration:
 - ESTACA expressed strong interest in developing research cooperation with Karunya Institute of Technology and Sciences (KITS).
 - Current funding calls such as **DST-Inria Targeted Programme** were reviewed; most are either closed or nearing deadlines.
 - Both institutions agreed to prepare proposals for the **next academic year's funding calls**, expected to open in the coming months.



- **Researcher / PhD Exchange:**
 - ESTACA invited **PhD students or researcher-professors from KITS** to visit their laboratories during the current academic year.
 - The visit would serve as a platform to discuss potential **joint PhD projects** and research themes in detail.
- **Funding Opportunities Discussed:**
 - **Raman Charpak Fellowship (RCF):** Open until December 10, 2025 — suitable for student or faculty mobility.
 - **Indo-French Programme for Women in Science (PROWIS):** Currently closed but relevant for future applications.
- **Action Points:**
 - KITS to explore interest among PhD students and faculty for a **short-term or collaborative research visit** to ESTACA.
 - Establish a **joint roadmap for proposal preparation** targeting upcoming Indo-French research funding calls.
 - Maintain communication with **Prof. Nadir Hafs** and **Prof. Jean-Christophe Walrick** (ESTACA) to coordinate research themes and timelines.
 - ESTACA to forward **PhD and fellowship announcements** to KITS once published.



f) MEETING TITLE: COLLABORATION DISCUSSION WITH INP BORDEAUX

Date: October 3, 2025

Venue: Virtual / Online Meeting

Participants:



- **Prof. Jean-Marc Salotti**, School of Cognitive Engineering, INP Bordeaux, France
- Faculty members from KITS (Department of Computer Science and Engineering)

Key Discussion Points

1. Research Collaboration Opportunities

- Explored potential areas for **joint research** between KITS and INP Bordeaux, particularly in the domains of **Cognitive Engineering, Artificial Intelligence, and Human–Computer Interaction (HCI)**.
- Discussed the possibility of establishing **joint research projects**, co-supervised PhD programs, and shared publications.

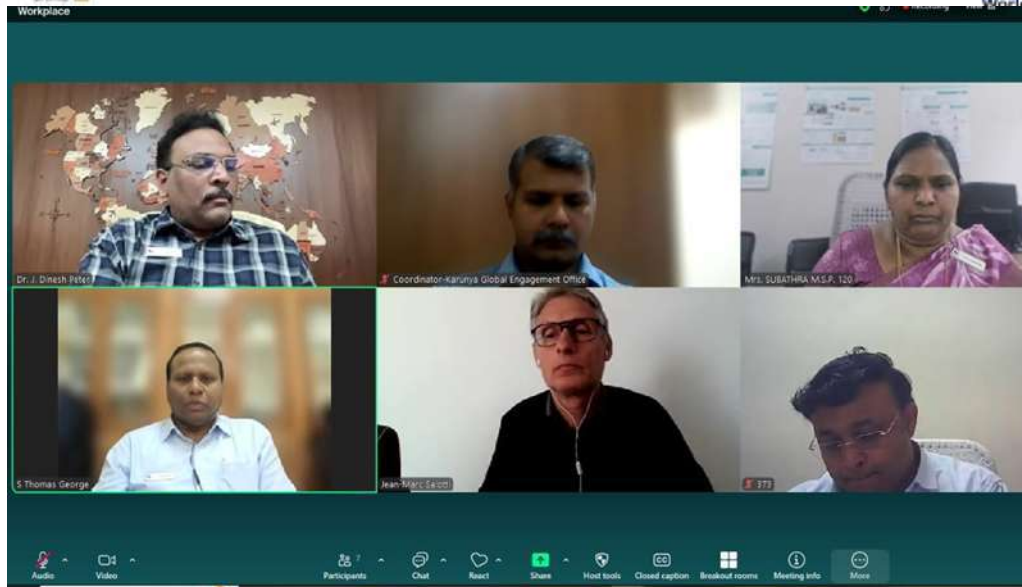
2. Student and Faculty Exchange

- Discussed short-term **student exchange programs** for postgraduate and PhD students.
- Identified potential for **faculty visits** and guest lectures to strengthen academic linkages.

3. Joint Funding and Project Proposals

- Agreed to explore **Indo-French funding schemes** such as **CEFIPRA, DST–INRIA**, and **PROWIS** for supporting collaborative projects.
- Considered submitting a **joint proposal** under the upcoming **Indo-French Emerging Project Partnerships Programme (2025)**.





Overall Strategic Outcome:

The meetings and planned collaborations with INTI (Malaysia), ISEP (France), UCAM (Spain), ESTACA(France), INP BORDEAUX(France) and UCAT (Italy), Woosong University(South Korea) collectively strengthen Karunya’s international research network, enhance publication visibility, and support strategic objectives for improving institutional ranking and global engagement.

4. INTERNATIONAL FUNDED PROJECTS ON SUSTAINABILITY

STRATEGIES FOR IMPROVING THE PERFORMANCE OF CONCRETE UNDER EXTREME FIRE CONDITIONS.

The project is led by Dr. Eva Eszter Lubloy Majorosne, Professor at the Budapest University of Technology and Economics, Budapest, Hungary, as the Foreign Principal Investigator (PI), and Dr. N. Anand as the Indian Principal Investigator (PI). It is funded by the Ministry of Innovation and Technology of Hungary through the National Research, Development and Innovation Fund, in collaboration with the Budapest University of Technology and Economics. The project was officially sanctioned on 19th December 2024.

In continuation of earlier collaborative research outcomes, which resulted in 28 SCI Q1 publications during 2023–2024, this project aims to advance the study on strategies for improving the performance of concrete under extreme fire conditions. The research focuses on enhancing the understanding of concrete behaviour and durability when exposed to high temperatures and severe fire environments. The work involves exchange and preparation of test materials and open-access dissemination of findings in high-impact journals. The collaboration seeks to develop innovative, fire-resistant concrete compositions and contribute to the design of safer, more resilient infrastructure.



NATIONAL RESEARCH, DEVELOPMENT
AND INNOVATION OFFICE
HUNGARY

PROGRAM
FINANCED FROM
THE NRDI FUND

MOMENTUM OF INNOVATION

Biohydrogen from Microalgae

The project titled “Biohydrogen from Microalgae” is led by Dr. Jibu Thomas as the Principal Investigator (PI) and Dr. Madhu Ganesh as the Co-Principal Investigator (Co-PI). It is funded by BESI USA and TECHURJA, with the project officially sanctioned on 29th November 2024. This research focuses on developing sustainable methods for biohydrogen production using microalgae, a renewable and eco-friendly resource. The project aims to optimize microalgal growth conditions and hydrogen generation efficiency through advanced biotechnological approaches. By exploring innovative pathways for clean energy production, the study contributes to the global effort toward carbon-neutral and sustainable energy solutions.



5. INTERNATIONAL SEMINARS / WEBINARS ON SUSTAINABILITY





Prof. Asher Yahalom from Ariel University, Israel, delivered the keynote address. The event served as a dynamic platform for knowledge exchange and international collaboration, reinforcing the importance of sustainability in the air and space sectors.

The conference featured 145 research paper presentations across various thematic areas. The Best Paper Award was presented to researchers from Alliance University for their exemplary contribution to the field. Release of the Book of Abstract on 25th April 2025 in the International Conference on Sustainable Air and Space Technologies ICSAST-25.

The achieved sustainability goals are Partnerships for the goals, Decent Work and Economic Growth.

The Division of Biomedical Engineering organized an international webinar on “Unlocking the Brain: Advances in Stroke Treatment and Neurodegenerative Disease” on Wednesday, 7th August 2024. The session was delivered by Prof. Dr. Jeyakumar Selwyn, Consultant Physician and Honorary Clinical Professor at Forth Valley Royal Hospital and the University of Stirling, Scotland. The lecture provided valuable insights into recent developments and therapeutic approaches in the field of stroke and neurodegenerative disorders.

The achieved sustainability goals are Quality Education, Decent Work and Economic Growth.



Division of Artificial Intelligence and Machine Learning
Dr. J. Dinesh Peter M.Tech., Ph.D.
Head - AIML
KITS/AIML/CIR/2025/03
January 20, 2025

CIRCULAR

Karunya Institute of Technology and Sciences
Division of Artificial Intelligence and Machine Learning (AIML)
Subject: Expert Talk on "Organizational Transformation through Program and Project Management" and "Global Higher Education Systems"
The Division of Artificial Intelligence and Machine Learning (AIML) is pleased to organize an Expert Talk for the II-year AIML students, focusing on two important topics. The first session, "Organizational Transformation through Program and Project Management," will be delivered by Mr. Prabhu Joseph, Director of Zirek Consultancy Services, Sydney, New South Wales, Australia, and will explore how program and project management drive organizational success and prepare students to apply these concepts in their careers. The second session, "Global Higher Education Systems," will be presented by Dr. Catherine, Professor at Western Sydney University, Australia, providing valuable insights into global education systems and guiding students in exploring higher education opportunities. The session is scheduled for January 22, 2025 (Wednesday), from 9:50 AM to 12:30 PM in the Emmanuel Auditorium. Attendance is mandatory for all II-year AIML students, and subject teachers are required to be present to ensure attendance and maintain discipline throughout the session. Dr. Narmada will be coordinating the event, and we look forward to your active participation in making this session a success.


HoD - AIML

+91 - 0422 - 2614300 +91 - 0422 - 255675 www.karunya.edu.in info@karunya.edu.in Karunya Nagar, Coimbatore - 641 114, Tamil Nadu, India.



The Division of Artificial Intelligence and Machine Learning (AIML) at Karunya Institute of Technology and Sciences organized an Expert Talk for II-year AIML students on January 22, 2025. The first session on "Organizational Transformation through Program and Project Management" was delivered by Mr. Prabhu Joseph, Director of Zirek Consultancy Services, Sydney, New South Wales, Australia. The second session on "Global Higher Education Systems" was presented by Dr. Catherine, Professor at Western Sydney University, Australia. Both sessions provided valuable insights into organizational management and international education opportunities for students.

The achieved sustainability goal is Quality Education.



The Department of Biotechnology organized a series of guest lectures under the adjunct faculty program for subject-based learning. The sessions on Molecular Biology, Cancer Management, and Advances in Biopolymer were delivered by Dr. Mary Mkandawire, Ency T Canada, and Adjunct Professor of KITS. The achieved sustainability goal is Good Health and Well-being

**Karunya INSTITUTE OF TECHNOLOGY AND SCIENCES**
(Declared as Deemed to be University under Sec 3 of the UGC Act, 1956)
NIE, UGC & AICTE Approved, NAAC Accredited A++
Karunya Nagar, Coimbatore - 641 114, Tamil Nadu, India

The Division of Criminology and Forensic Sciences
Organizes a guest Lecture

Sustainable Methods and Practices in Forensic Science

**Dr. Risha Jasmine Nathan**
Lecturer (Forensic Chemistry)
Anglia Ruskin University,
Cambridge, UK
PhD (Toxicology, New Zealand)
PGCert (HE) FHEA (UK)
MSc (Forensic Science, India)
BSc Hons (Chemistry, India)

Higher studies at Anglia Ruskin University

Date: 25th April 2025
Time: 10:00 am IST
[Online Mode]

The Division of Criminology and Forensic Sciences at Karunya Institute of Technology and Sciences organized a guest lecture on "Sustainable Methods and Practices in Forensic Science" on 25th April 2025. The session was conducted in online mode and delivered by Dr. Risha Jasmine Nathan, Lecturer in Forensic Chemistry at Anglia Ruskin University, Cambridge, UK. She discussed innovative approaches to minimize environmental impact while maintaining scientific accuracy and reliability. The lecture also provided valuable guidance for students



interested in higher studies at Anglia Ruskin University and careers in forensic science.

The achieved sustainability goal is Quality Education.



The Division of Criminology and Forensic Science at Karunya Institute of Technology and Sciences organized the third session of its Online Alumni Lecture Series on 25th March 2025. The session, titled “Incel Subculture,” was delivered by Ms. Yashena Gujral, an alumnus from the Batch of 2021–2024, who is currently pursuing her Master’s in Criminal Psychology at the University of Portsmouth, UK. Ms. Gujral provided an insightful exploration into the origins, ideologies, and behavioral patterns associated with the “Incel” (involuntary celibate) community, shedding light on its implications for criminal behavior and social psychology. The session emphasized the importance of understanding online subcultures within criminological research and their impact on gender-based violence and extremism.

The achieved sustainability goal is Peace, Justice and Strong Institution.

6. INTERNATIONAL MOU

SL . N O.	COLLABORATED AGENCY NAME	COLLABORATION LEVEL	COLLABORATED AGENCY TYPE	ENGAGEMENT TYPE	DATE OF MOU / AGREEMENT SIGNED ON	PERIOD OF COLLABORATION (IN YEARS)
1	UNIVERSITY OF SFAX, TUNISIA	INTERNATIONAL	EDUCATIONAL INSTITUTE	ACADEMIC	23/05/2025	5



2	MING CHI UNIVERSITY OF TECHNOLOG Y, TAIWAN	INTERNATIO NAL	EDUCATION AL INSTITUTE	ACADEMIC	14/05/2025	5
3	UNIVERSITY OF TAIPEI, TAIWAN	INTERNATIO NAL	EDUCATION AL INSTITUTE	ACADEMIC	23/07/2025	5
4	INP BORDEAUX, FRANCE	INTERNATIO NAL	EDUCATION AL INSTITUTE	ACADEMIC	08/07/2025	5
5	CITY UNIVERSITY OF SEATTLE, U.S.A	INTERNATIO NAL	EDUCATION AL INSTITUTE	ACADEMIC	03/06/2025	5
6	GEORGE WASHINGTON UNIVERSITY, U.S.A	INTERNATIO NAL	EDUCATION AL INSTITUTE	ACADEMIC	24/07/2025	3
7	ESTACA, FRANCE	INTERNATIO NAL	EDUCATION AL INSTITUTE	ACADEMIC	24/06/2025	5
8	TZU CHI UNIVERSITY, TAIWAN	INTERNATIO NAL	EDUCATION AL INSTITUTE	ACADEMIC	15/09/2025	5
9	UNIVERSITY DE VIGO, SPAIN	INTERNATIO NAL	EDUCATION AL INSTITUTE	ACADEMIC	27/05/2025	4
10	NATIONAL CHI NAN UNIVERSITY, TAIWAN	INTERNATIO NAL	EDUCATION AL INSTITUTE	ACADEMIC	11/09/2025	5



11	UNIVERSITY OF ALICANTE, SPAIN	INTERNATIONAL	EDUCATIONAL INSTITUTE	ACADEMIC	05/06/2025	4
12	AUSTRALIAN CATHOLIC UNIVERSITY, AUSTRALIA	INTERNATIONAL	EDUCATIONAL INSTITUTE	ACADEMIC	23/02/25	5
13	WOOSONG UNIVERSITY, SOUTH KOREA	INTERNATIONAL	EDUCATIONAL INSTITUTE	ACADEMIC	03/12/2024	5
14	UNIVERSITY OF EVANSVILLE, U.S.A	INTERNATIONAL	EDUCATIONAL INSTITUTE	ACADEMIC	13/12/2024	3
15	VINCENT POL UNIVERSITY IN LUBLIN, POLAND	INTERNATIONAL	EDUCATIONAL INSTITUTE	ACADEMIC	29/11/2024	3
16	UNIVERSIDAD CATÓLICA SAN ANTONIO DE MURCIA	INTERNATIONAL	EDUCATIONAL INSTITUTE	ACADEMIC	05/03/2025	1
17	UNIVERSITY OF WEST OF ENGLAND, UNITED KINGDOM, SPAIN	INTERNATIONAL	EDUCATIONAL INSTITUTE	ACADEMIC	10/01/2025	5
18	INTERNATIONAL BLACK SEA UNIVERSITY, GEORGIA	INTERNATIONAL	EDUCATIONAL INSTITUTE	ACADEMIC	07/05/2025	5
19	LEWIS UNIVERSITY, U.S.A	INTERNATIONAL	EDUCATIONAL INSTITUTE	ACADEMIC	02/05/2025	5



20	ISEP, PARIS	INTERNATIONAL	EDUCATIONAL INSTITUTE	ACADEMIC	08/01/2025	5
21	AUSTRALIAN CATHOLIC UNIVERSITY, AUSTRALIA	INTERNATIONAL	EDUCATIONAL INSTITUTE	ACADEMIC	23/02/2024	5
22	SOUTHERN METHODIST UNIVERSITY	INTERNATIONAL	EDUCATIONAL INSTITUTE	ACADEMIC	16/10/2024	3

7. INTERNATIONAL ONLINE COURSES ON SUSTAINABILITY

SL. NO.	NAME OF THE PROGRAM	REGISTER NUMBER	NAME OF THE STUDENT	NAME OF THE COURSE ENROLLED	CREDIT	AGENCY (COURSERA, EDEX, ETC)
1	M.SC. - AGRICULTURE	PRK23AC2002	HERLIN H.J	STRENGTHENING CLIMATE ADAPTATION AND RESILIENCE	3	COURSERA
2	M.SC. - AGRICULTURE	PRK23AC2002	HERLIN H.J	CLIMATE INFORMATION SERVICES	3	CARE

8. INTERNATIONAL COIL (Collaborative Online Integrated Learning) PROJECT





Collaborative Online International Learning (COIL) is a virtual exchange initiative that connects students from different countries through digital platforms to engage in joint projects aligned with their academic disciplines.

These projects are co-designed by faculty members from the participating institutions to ensure alignment with the respective learning outcomes. While COIL activities can exist outside the formal curriculum, they tend to achieve greater impact when embedded as a structured and mandatory component over an extended period—typically lasting several weeks.

Karunya Institute of Technology and Sciences has initiated implementing COIL projects with global partners. The university is now strategically expanding this initiative to integrate COIL across the curriculum, thereby offering all students meaningful international learning experiences without the need for physical mobility.

PROJECT TITLE : “STOCK PITCH COIL PROJECT”

START DATE : 21ST MARCH 2025

END DATE : 24TH APRIL 2025

EVENT LINK : CLICK THE LINKEDIN POST

UNIVERSITY PARTNERS

	Coventry University (United Kingdom) Host institution
 TARAS SHEVCHENKO NATIONAL UNIVERSITY OF KYIV	Aras Shevchenko National University (Ukraine) Partner institution
	Karunya Institute of Technology and Sciences (India) – Partner institution

PROJECT LEADERS

1. Dr. Manisha Dhir, Coventry University
2. Dr. Larysa Liasenkho, Taras Shevchenko National University of Kyiv
3. Dr. S.Merlin Gilbert Raj , Karunya Institute of Technology and Sciences

List of Participated Students from all 3 Universities



NAME	GENDER	COUNTRY
AMIRA KHAN	FEMALE	UNITED KINGDOM
MAKS OSTASHCHUK	MALE	UKRAINE
ANNA YURCHENKO	FEMALE	UKRAINE
RAMYA R	MALE	INDIA (Karunya)
ABINESH T	MALE	INDIA (Karunya)
ANASTASIIA NABOKOVA	FEMALE	UKRAINE
GURLIEEN BINNING	FEMALE	UNITED KINGDOM
PRABJOT SINGH	MALE	INDIA (Karunya)
LORA CHERNYUSHOK	FEMALE	UKRAINE
MARIA BURBA	FEMALE	UNITED KINGDOM
MAHIMA THOMAS	FEMALE	INDIA (Karunya)
LAKSHMI G	FEMALE	INDIA (Karunya)
GUANZHOU CHEN	MALE	UNITED KINGDOM
MYA DESEWU	FEMALE	UKRAINE
IBAH POЖKOB	MALE	UNITED KINGDOM
GALVINE	MALE	UKRAINE
KAVYA P	FEMALE	INDIA (Karunya)
LAKSHDEEP KAUR	FEMALE	UNITED KINGDOM
ALEKSANDAR IVANOV	MALE	UKRAINE
ANNET	FEMALE	UNITED KINGDOM
PRATHISHA E	FEMALE	UKRAINE
VIGNESH J	MALE	INDIA (Karunya)
NATALIA BATIUTA	FEMALE	UKRAINE



Certificate of Participation

This is to certify that

Galvin

has successfully completed the

Coventry University,
Taras Shevchenko National University of Kyiv
and
Karunya University

Collaborative Online International Learning Project:

"Stock Pitch COIL Project"

2025

Coventry University Project Lead: Dr. Manisha Dhir

Taras Shevchenko National University of Kyiv
Project Lead: Dr Larysa (Lara) Lishenko

Karunya University: Mr. Merlin Gilbert Raj



This is to certify that

Mr. Merlin Gilbert Raj

has contributed as project lead to the

Coventry University,
Taras Shevchenko National University of Kyiv
and
Karunya University

Collaborative Online International Learning Project:

"Stock Pitch COIL Project"

2025

Fig. COIL Sample Certificate

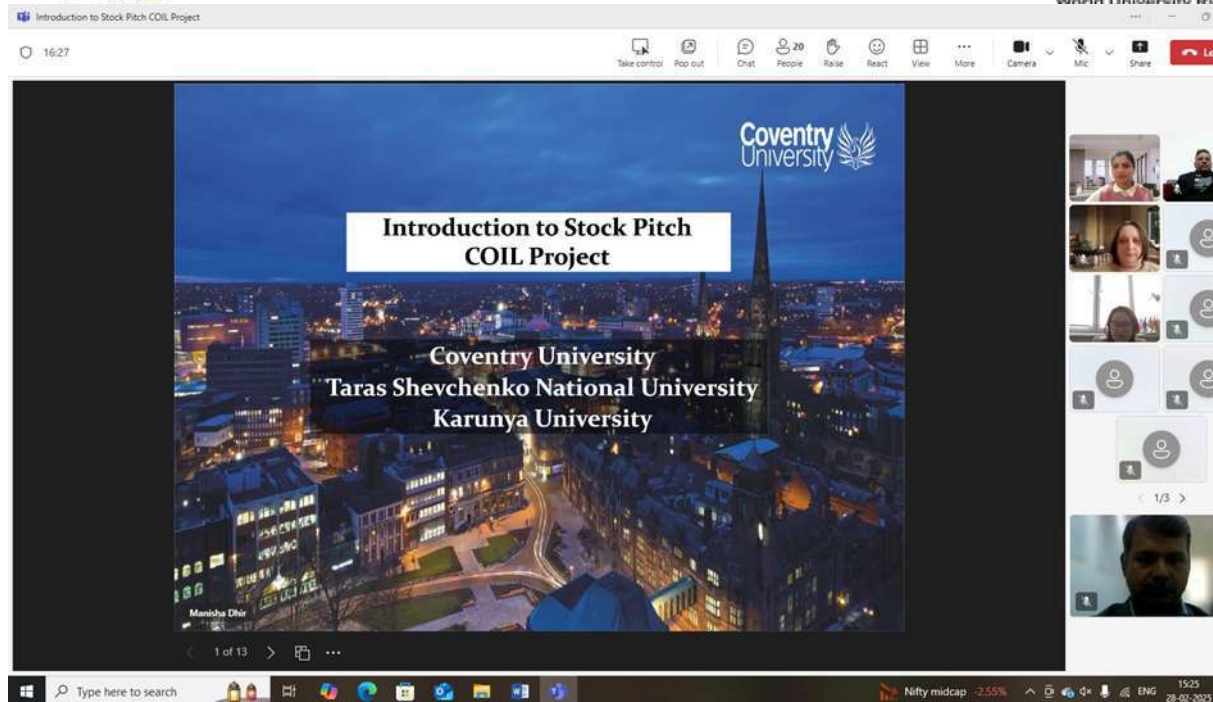


Fig . Online Meeting on Introduction to Project titled “ Stock Pitch Report”

9. ERASMUS + INTER INSTITUTE AGREEMENTS & CBHE PROJECT PROPOSALS

Karunya Institute of Technology and Sciences actively promotes global academic engagement through participation in the Erasmus+ Programme, under Key Action 1 – Mobility of Higher Education Students and Staff. This initiative facilitates international collaboration between EU Member States, third countries associated with the Programme, and third countries not associated with the Programme.

Through the Erasmus+ framework, Karunya Institute has established Inter-Institutional Agreements (IIAs) for the period 2021–2027 with reputed European universities to strengthen academic mobility, cultural exchange, and knowledge sharing. These partnerships are designed to enhance the international competencies of both students and faculty while promoting sustainable development and global citizenship in higher education.

The following universities are part of Karunya’s signed Erasmus+ IIAs:

S.NO	UNIVERSITY NAME	STATUS	COUNTRY	PROOF LINK
1.	LUCIAN BLAGA UNIVERSITY OF SIBIU	PUBLIC	ROMANIA	LUCIAN BLAGA UNIVERSITY ERASMUS
2.	LODZ UNIVERSITY OF TECHNOLOGY	PUBLIC	POLAND	LODZ UNIVERSITY - ERASMUS

These collaborations enable student and staff mobility, joint research, and curriculum development initiatives aligned with the objectives of the Erasmus+ Key Action 1 programme.



By fostering intercultural understanding and academic cooperation, Karunya Institute of Technology and Sciences continues to advance its mission of providing globally relevant education rooted in sustainability, innovation, and social responsibility.

10. PARTICIPATING IN NETWORKING EVENTS

Global Engagement through International Education Conferences

Karunya Institute of Technology and Sciences demonstrates its strong commitment to internationalization and sustainable global partnerships by actively participating in major international higher education forums such as the European Association for International Education (EAIE) Conference, the Asia-Pacific Association for International Education (APAIE) Conference, and the NAFSA: Association of International Educators Annual Conference and Expo.

Participation in these globally recognized events enables Karunya Institute to strengthen its international outreach, establish new strategic academic partnerships, and promote collaborative initiatives that align with the principles of global sustainability and inclusive education promoted by the QS GreenMetric framework.

- **EAIE Conference – Toulouse, France:** Representatives from Karunya Institute participated in the EAIE Conference to engage with European and global education leaders, exploring opportunities for Collaborative Online International Learning (COIL), Erasmus+ partnerships, and faculty and student mobility. This engagement reinforced Karunya's vision of embedding intercultural and global learning across its curriculum.



- **APAIE Conference – New Delhi, India:** The APAIE Conference provided a platform for Karunya to connect with higher education institutions across the Asia-Pacific region, focusing on sustainable education practices, capacity building, and regional academic cooperation. The institute showcased its efforts in digital internationalization, environmental sustainability, and socially relevant research.



- NAFSA Conference – United States: Participation in NAFSA, the world’s largest conference on international education, allowed Karunya Institute to engage with a diverse network of universities and organizations worldwide. The discussions centered on global mobility, inclusive learning ecosystems, and international research collaboration that contribute to the United Nations Sustainable Development Goals (SDGs).






Through these global platforms, Karunya Institute continues to position itself as a forward-looking, sustainability-driven university committed to academic excellence, international cooperation, and the holistic development of globally competent graduates.

11. International Research Collaborations

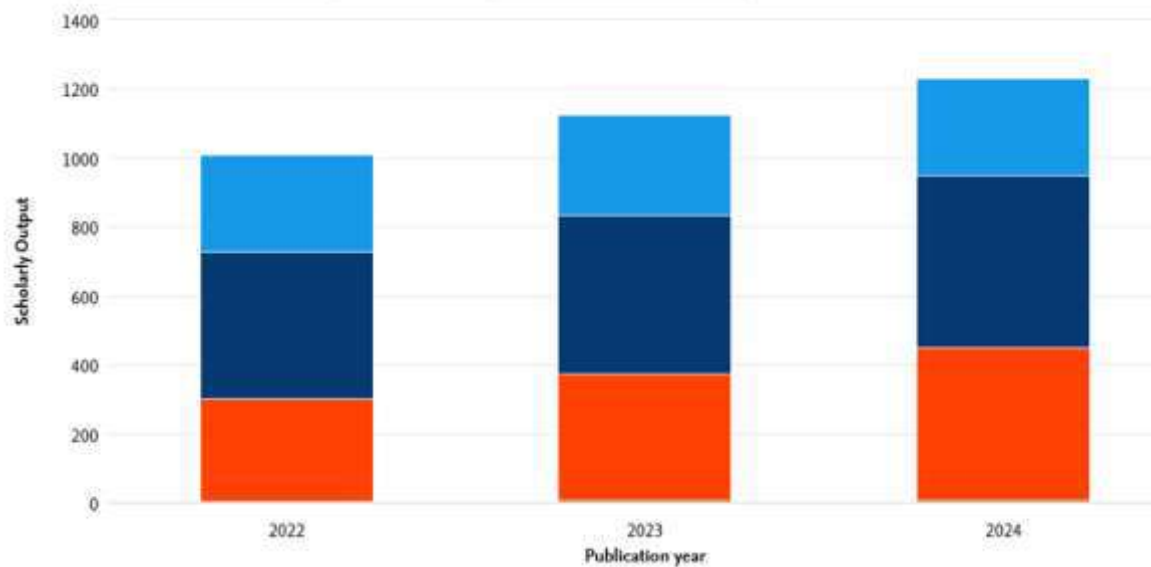
Geographical Collaboration

[Metric guidance](#) [+ Add to Reporting](#) [E](#)

International, national and institutional collaboration by Karunya University in the selected year range.



Metric	Publication share	Scholarly Output	Citations	Citations per Publication	Field-Weighted Citation
International collaboration	25.4%	855	11,342	13.3	
Only national collaboration	41.2%	1,387	8,253	6.0	
Only institutional collaboration	32.8%	1,105	3,880	3.5	
Single authorship (no collaboration)	0.5%	18	21	1.2	



Type of collaboration	2022	2023	2024	Overall
International collaboration	281	291	283	855
Only national collaboration	427	460	500	1,387
Only institutional collaboration	298	366	441	1,105
Single authorship (no collaboration)	3	7	8	18
Total	1,009	1,124	1,232	3,365



Number of collaborating institutions

Top 10 institutions worldwide by co-authored publications

Co-authored publications:

Co-authored publications: Low High Heatmap



12. Funded Projects with Global Academic Partners

Name of the Investigator	Project No.	Funding Agency	Title of the project and duration	Amount sanctioned
1.Dr. L. Godson Asirvatham Principal Investigator 2.Dr.B.Jefferson Raja Bose Co-PI 3.Dr.Justin Robert Paden Co-PI One Tower, 41st Floor, Barsha Heights, Sheikh Zayed Road, P.O. Box 30582, Dubai, United Arab Emirates.	MoES/PAMC/DOM/ 152/2023(E-14411) Sanction Date: 11 th July 2024	Ministry of Earth Science	Experimental Investigation of a Novel Low Temperature MED DESALINATION TECHNOLOGY (1 ST July 2024- 31July 2026)	4,47,45,160

Freshwater scarcity has become a global crisis, with increasing population, industrial demand, and climate change intensifying the stress on available water resources. According to international reports, billions of people face water shortages for at least part of the year, and this number is expected to rise dramatically in the coming decades. Coastal and arid regions, in particular, are struggling to meet the growing freshwater demand, making sea water desalination an essential solution. However, existing desalination technologies such as Reverse Osmosis (RO) and conventional Multi-Effect Distillation (MED) are energy-intensive and often rely on high-grade thermal or electrical energy, leading to increased operational costs and environmental impacts.