



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 EHENO RAKOTO | 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 |



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|----|------------------------|---------|--|--|------------|------------|---|
| 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 | UNIVERSIDA D 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-WILHELM 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 | MERSEB URG 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 |  PEACE, JUSTICE AND STRONG INSTITUTIONS |
| 5 | DAIVIK VISMAY MANUEL | URK22CS1060 | BRANDENBURG UNIVERSITY OF TECHNOLOGY | GERMANY | 01-04-2025 | 30-09-2025 |  SUSTAINABLE CITIES AND COMMUNITIES |
| 6 | DHRITI VILINA MANUEL | URK22CS1058 | BRANDENBURG UNIVERSITY OF TECHNOLOGY | GERMANY | 01-04-2025 | 30-09-2025 |  SUSTAINABLE CITIES AND COMMUNITIES |
| 7 | JAEL HEPHZIBAH SIMON | URK22CS1021 | BRANDENBURG UNIVERSITY OF TECHNOLOGY | GERMANY | 01-04-2025 | 30-09-2025 |  SUSTAINABLE CITIES AND COMMUNITIES |
| 8 | BESTWIN ANTONYMU THU VIJAYAN | URK22CS1061 | BRANDENBURG UNIVERSITY OF TECHNOLOGY | GERMANY | 01-04-2025 | 30-09-2025 |  SUSTAINABLE CITIES AND COMMUNITIES |
| 9 | MOHAN KUMAR RAJENDRAN | URK22CS1138 | BRANDENBURG UNIVERSITY OF TECHNOLOGY | GERMANY | 01-04-2025 | 30-09-2025 |  SUSTAINABLE CITIES AND COMMUNITIES |
| 10 | CIRIL JOY KOCHUT | URK22RA2009 | INSTITUT POLYTECHNIQUE DE BORDEAUX | FRANCE | 15-04-2025 | 15-06-2025 |  INDUSTRY, INNOVATION AND INFRASTRUCTURE |
| 11 | AKASH K | URK23CS7133 | WOOSONG UNIVERSITY | SOUTH KOREA | 18-08-2025 | 02-03-2026 |  DECENT WORK AND ECONOMIC GROWTH |
| 12 | VENKATA PRASANNA BADI | URK23CS7133 | WOOSONG UNIVERSITY | SOUTH KOREA | 18-08-2025 | 02-03-2026 |  DECENT WORK AND ECONOMIC GROWTH |



| | | | | | | | |
|----|---------------------------------|-------------|--|----------|------------|------------|--|
| 13 | J F JESVAAN RAJ | URK23CS1066 | PARIS INSTITUT E OF DIGITAL TECHNOLOGY | FRANC E | 01-09-2025 | 31-01-2026 | |
| 14 | NIRRANJAN DHARMASEE LAN | URK23AE1026 | GEORGIA N AVIATION UNIVERSITY | GEORGIA | 15-09-25 | 27-02-25 | |
| 15 | DHANUSH SRI KRISHNA GANGATHARAN | URK23AE1011 | GEORGIA N AVIATION UNIVERSITY | GEORGIA | 15-09-25 | 27-02-25 | |
| 16 | VARSHA RAJAMOHAN | URK23AE1014 | GEORGIA N AVIATION UNIVERSITY | GEORGIA | 15-09-25 | 27-02-25 | |
| 17 | SHRI VISHAL GOWRI PRAKASH | URK23AE1019 | GEORGIA N AVIATION UNIVERSITY | GEORGIA | 15-09-25 | 27-02-25 | |
| 18 | DEEPAK KUMAR S | URK22EC3018 | FORAGE | NEW YORK | 09-04-25 | 23-04-25 | |
| 19 | MR. A RAJAGOPAL AN | URK22EC3019 | FORAGE | NEW YORK | 06-04-25 | 20-04-25 | |
| 20 | MR. MANOJ S | URK22EC5002 | FORAGE | NEW YORK | 09-04-25 | 23-04-25 | |
| 21 | MR. SANJAYJAYA NTH K K | URK22EC5003 | FORAGE | NEW YORK | 09-04-25 | 23-04-25 | |



| | | | | | | | |
|----|------------------------------|-------------|--------|-------------|------------|------------|--|
| 22 | MR. NAGENDRA PRASAD M | URK22EC6070 | FORAGE | NEW YORK | 02-04-25 | 16-04-25 | INDUSTRY, INNOVATION AND INFRASTRUCTURE |
| 23 | MR. TAMIZHVAN NAN M | URK22EC6005 | FORAGE | NEW YORK | 24-03-2025 | 24-04-2025 | AFFORDABLE AND CLEAN ENERGY |
| 24 | MR. SIBI SUNTHAR S | URK22EC6017 | FORAGE | NEW YORK | 06-12-24 | 06-02-25 | DECENT WORK AND ECONOMIC GROWTH |
| 25 | MR. ANBU SELVA KUMAR V | URK22EC6048 | FORAGE | NEW YORK | 17-03-25 | 31-03-25 | QUALITY EDUCATION |

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.



Dr. S.J. Vijay, M.E, Ph.D.
Registrar

KITS/REG/HR-1/ 2377 /2025

April 11, 2025

To

Dr. Jagan Srinivasan
Associate Professor
Worcester Polytechnic Institute
Worcester, MA 01605
United States of America.

MEMORANDUM

Sub: KITS - HRD – Dr. Jagan Srinivasan - Appointment as Visiting Professor from July to October 2025 in the Division of Bio-Technology - Reg.

Ref: 1. Email from Prof. Dr. E. J. James, KITS/PVC/LET/2025, dated January 25, 2025.
2. Pro forma submitted by the Head – International Affairs, Karunya Global Engagement Office, dated March 13, 2025, and duly approved by the Pro-Vice Chancellor.

The Management is pleased to offer you a position as **Visiting Professor** from July to October 2025 in the Division of Bio-Technology, School of Engineering & 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 (Bio-Technology) will coordinate in scheduling your lectures.


REGISTRAR

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

Cc to: Associate Dean (School of Engineering & Technology)
Cc to: HOD (Bio-Technology)
Cc to: HR Section / HR-Payroll / File

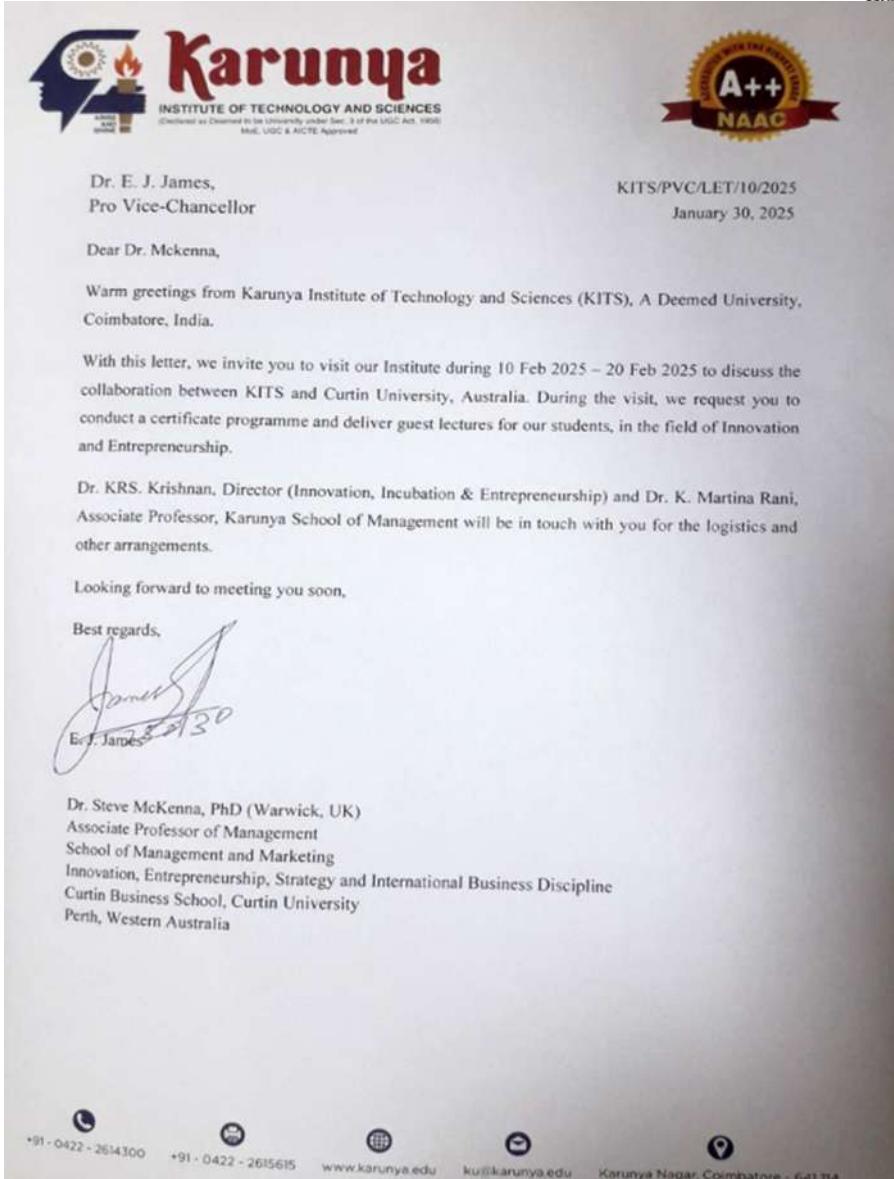
I have read, understood and agree to the terms and conditions as set forth in this offer letter.
Date : Signature:
Station : Name:

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

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.



INSTITUTE OF TECHNOLOGY AND SCIENCES

(Deemed to be University under Sec. 3 of the UGC Act, 1956)

MU, 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: _____

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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, Agrovoltaics

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, agrovoltaics, and precision agriculture.



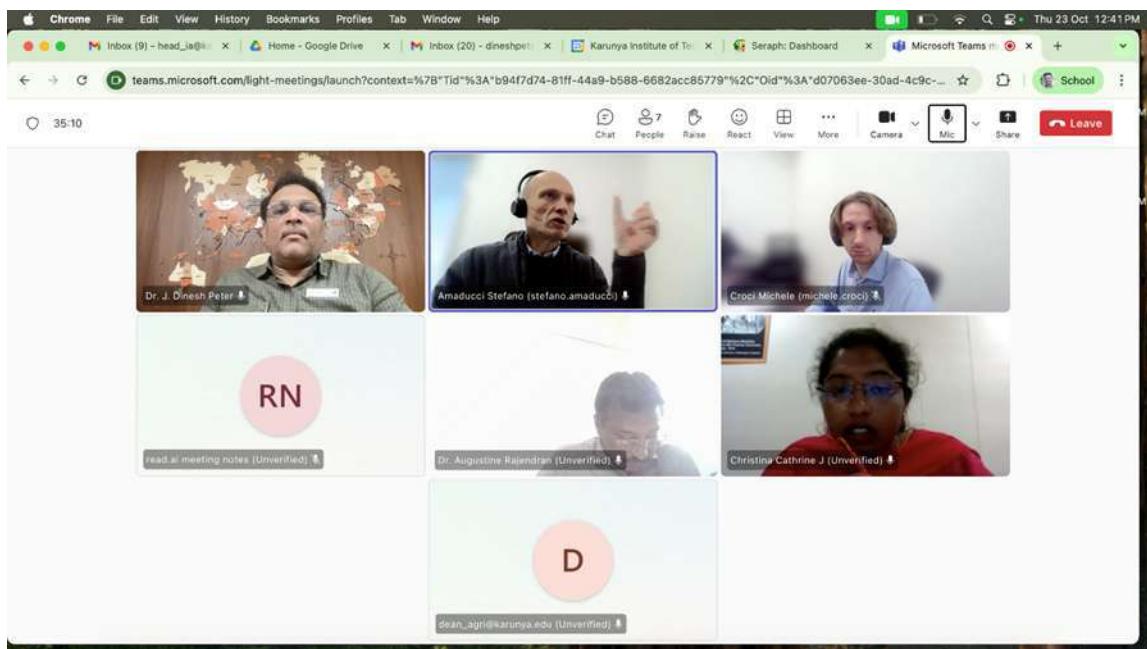
Potential for joint research proposals under **EU Horizon or Indo-European collaborative schemes**.

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 Hafs
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.



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

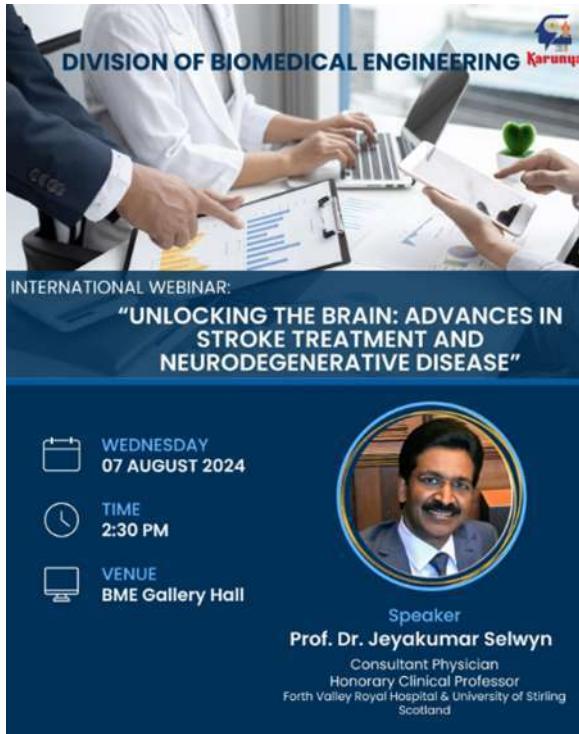




Prof. Asher Yahalom from Ariel University, Israel, delivered the keynote address. The event served as a dynamic platform for knowledge exchange and international collaboration, reinforcing the importance of sustainability in the air and space sectors.

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.



Dr. J. Dinesh Peter M.Tech.,Ph.D
Head - AIML

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 12:20 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. Namudha will be coordinating the event, and we look forward to your active participation in making this session a success.

HoD - AIML

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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)
MIE, UGC & AICTE Approved, NAAC Accredited A++
Karunya Nagar, Coimbatore - 641 114, Tamil Nadu, India

aru.ac.uk Anglia Ruskin University

The Division of Criminology and Forensic Sciences
Organized a guest Lecture
on
Sustainable Methods and Practices in Forensic Science

Dr. Risha Jasmine Nathan
Lecturer (Forensic Chemistry)
Anglia Ruskin University,
Cambridge, UK
PhD (Toxicology, New Zealand)
PQCert (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. | COLLABOR ATED AGENCY NAME | COLLABORA TION LEVEL | COLLABOR ATED AGENCY TYPE | ENGAGEM ENT TYPE | DATE OF MOU / AGREEM ENT SIGNED ON | PERIOD OF COLLABORA TION (IN YEARS) |
|-----------|-----------------------------|----------------------|---------------------------|------------------|------------------------------------|-------------------------------------|
| 1 | UNIVERSITY OF SFAX, TUNISIA | INTERNATIO NAL | EDUCATION AL INSTITUTE | ACADEMIC | 23/05/2025 | 5 |



| | | | | | | |
|----|---|---------------|-----------------------|----------|------------|---|
| 2 | MING CHI UNIVERSITY OF TECHNOLOGY, TAIWAN | INTERNATIONAL | EDUCATIONAL INSTITUTE | ACADEMIC | 14/05/2025 | 5 |
| 3 | UNIVERSITY OF TAIPEI, TAIWAN | INTERNATIONAL | EDUCATIONAL INSTITUTE | ACADEMIC | 23/07/2025 | 5 |
| 4 | INP BORDEAUX, FRANCE | INTERNATIONAL | EDUCATIONAL INSTITUTE | ACADEMIC | 08/07/2025 | 5 |
| 5 | CITY UNIVERSITY OF SEATTLE, U.S.A | INTERNATIONAL | EDUCATIONAL INSTITUTE | ACADEMIC | 03/06/2025 | 5 |
| 6 | GEORGE WASHINGTON UNIVERSITY, U.S.A | INTERNATIONAL | EDUCATIONAL INSTITUTE | ACADEMIC | 24/07/2025 | 3 |
| 7 | ESTACA, FRANCE | INTERNATIONAL | EDUCATIONAL INSTITUTE | ACADEMIC | 24/06/2025 | 5 |
| 8 | TZU CHI UNIVERSITY, TAIWAN | INTERNATIONAL | EDUCATIONAL INSTITUTE | ACADEMIC | 15/09/2025 | 5 |
| 9 | UNIVERSITY DE VIGO, SPAIN | INTERNATIONAL | EDUCATIONAL INSTITUTE | ACADEMIC | 27/05/2025 | 4 |
| 10 | NATIONAL CHI NAN UNIVERSITY, TAIWAN | INTERNATIONAL | EDUCATIONAL 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.S.C. - AGRICULTURE | PRK23AC2002 | HERLIN H.J | STRENGTHENING CLIMATE ADAPTATION AND RESILIENCE | 3 | COURSERA |
| 2 | M.S.C. - 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 DEEMED UNIVERSITY | Karunya Institute of Technology and Sciences (India) – Partner institution |

PROJECT LEADERS

1. Dr. Manisha Dhir, Coventry University
2. Dr. Larysa Liasencko, 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 ПОЖКОВ | 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. Mamisha Dhir

Taras Shevchenko National University of Kyiv

Project Lead: Dr Larysa (Lora) Liashenko

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

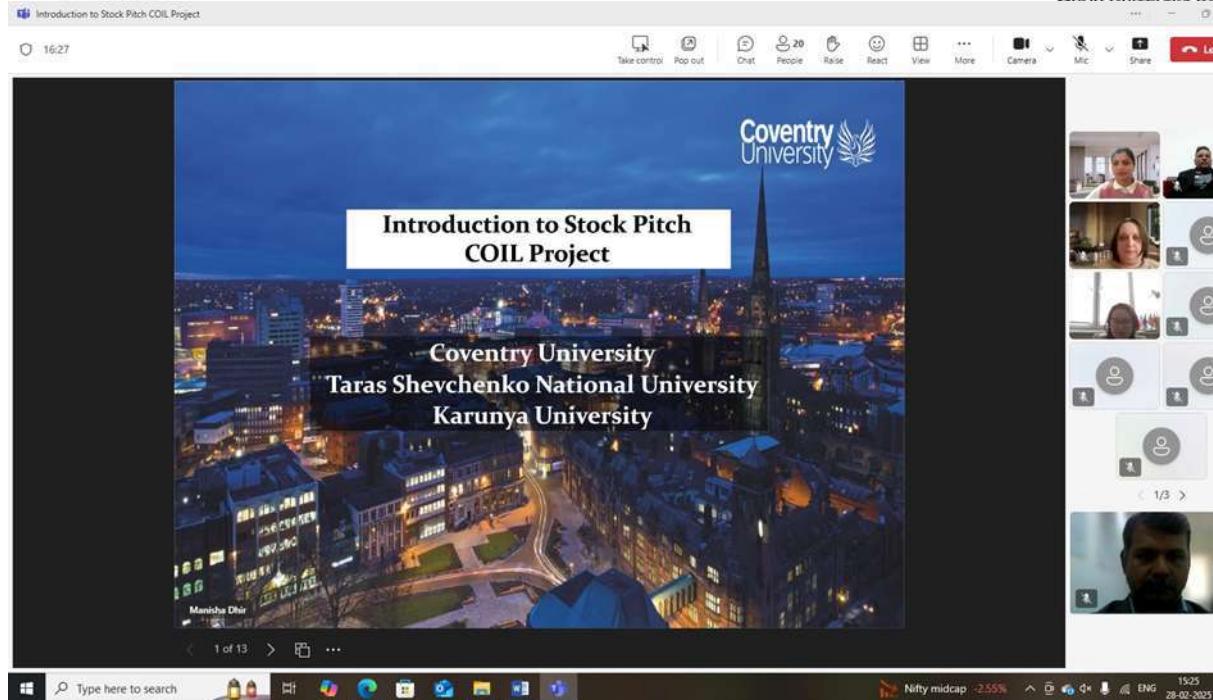


Fig . Online Meeting on Introduction to Project titled “ Stock Pitch Report”

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

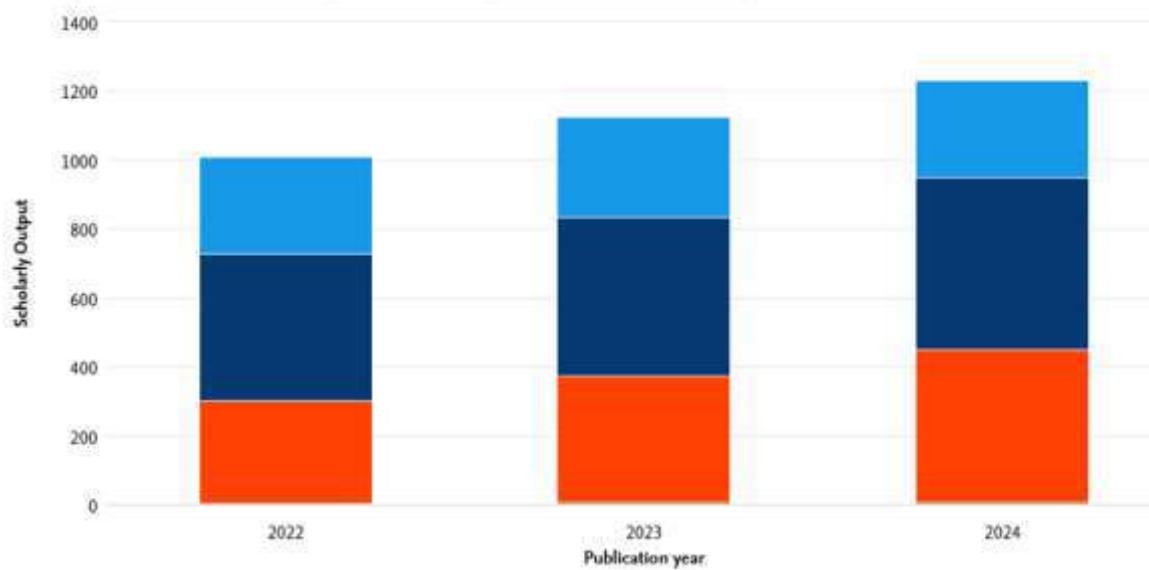
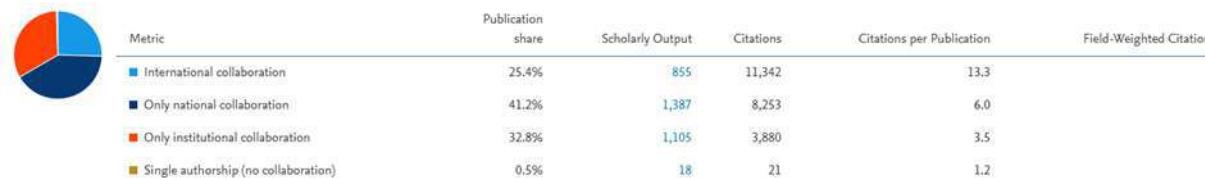
Geographical Collaboration

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

 Metric guidance

 Add to Reporting





| 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 |



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.