



## UI GreenMetric

University : Karunya Institute of Technology and Sciences  
Country : India  
Web Address : [www.karunya.edu](http://www.karunya.edu)

### [6] Education and Research (ED)

#### [6.15] Number of university sustainability program(s) with international collaborations

- Research Collaborations
- Faculty Exchange
- IAESTE (The International Association for the Exchange of Students for Technical Experience)
- International Internships

Links to the relevant details:

- <https://www.karunya.edu/iaeste>
- <https://www.karunya.edu/research/international-collaborations>
- <https://www.karunya.edu/agriculture/collaboration/International>
- [www.karunya.edu/iqac/Rankings/UIGreenMetric/Education&Research/6.15/Additional.pdf](http://www.karunya.edu/iqac/Rankings/UIGreenMetric/Education&Research/6.15/Additional.pdf)

### Joint Research Collaboration for 2022-2023

| S. No | Authors                                                                                        | Title                                                                                       | Source title                                            | Volume | Issue | Collaborated Institution                                                                                             |
|-------|------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------|--------|-------|----------------------------------------------------------------------------------------------------------------------|
| 1.    | Saisorn S.,<br>Benjawun P.,<br>Suriyawong A.,<br>Asirvatham L.G., Mondal P.K.,<br>Wongwises S. | Two-phase flow structures in a helically coiled microchannel: An experimental investigation | Physics of Fluids                                       | 35     | 10    | 1. King Mongkut's Institute of Technology Ladkrabang, Thailand.<br>2. Indian Institute of Technology Guwahati, India |
| 2.    | Prabakaran G., Narmatha G.,<br>Thangamani A., Bothi Raja                                       | A thiophene built chalcone as fluorescent chemosensor for silver ions                       | Journal of Photochemistry and Photobiology A: Chemistry | 444    |       | 1. Karpagam Academy of Higher Education, Coimbatore, India.                                                          |



|    |                                                                                         |                                                                                                                                                                          |                                                   |     |    |                                                                                                                                                                                                                                                                                                                                                                             |
|----|-----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|-----|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | P., Karthick R., Velraj G., Suresh Kumar R., Almansour A.I., Perumal K., Nandhakumar R. | and their applications in strip-paper, ointments, and bio-imaging                                                                                                        |                                                   |     |    | <ol style="list-style-type: none"> <li>School of Chemical Sciences, Universiti Sains Malaysia.</li> <li>Anna University, Chennai, India</li> <li>King Saud University, Saudi Arabia.</li> <li>The Ohio State University, United States.</li> </ol>                                                                                                                          |
| 3. | Han J., Mesgarpour M., Asirvatham L.G., Wongwises S., Ahn H.S., Mahian O.               | A hyper-optimisation method based on a physics-informed machine learning and point clouds for a flat plate solar collector                                               | Journal of Thermal Analysis and Calorimetry       | 148 | 13 | <ol style="list-style-type: none"> <li>Jiaotong University, Xi'an, China.</li> <li>King Mongkut's University of Technology Thonburi (KMUTT), Bangmod, Bangkok, Thailand.</li> <li>Incheon National University, Incheon, South Korea</li> <li>Imperial College London, London.</li> </ol>                                                                                    |
| 4. | Pradeep Kumar J., Robinson Smart D.S., Manova S., Akinwande A., Saravana Kumar M.       | Mechanical and tribological assessment of AA7075 reinforced Si <sub>3</sub> N <sub>4</sub> /TaC/Ti hybrid metal matrix composites processed through stir casting process | Advances in Materials and Processing Technologies |     |    | <ol style="list-style-type: none"> <li>Kings Engineering College, Chennai, India.</li> <li>King Mongkut's University of Technology Thonburi, Bangkok, Thailand,</li> <li>Federal University of Technology, Akure, Nigeria;</li> <li>Saravana Kumar, M., Graduate Institute of Manufacturing Technology, National Taipei University of Technology, Taipei, Taiwan</li> </ol> |



|    |                                                                                                                                       |                                                                                                                                      |                                          |     |    |                                                                                                                                                                                                                                                                                                                                      |
|----|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|-----|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5. | Rakshith B.L.,<br>Asirvatham L.G.,<br>Angeline A.A., Manova S.,<br>Bose J.R., Selvin Raj J.P.,<br>Mahian O., Wongwises S.             | Cooling of high heat flux miniaturized electronic devices using thermal ground plane: An overview                                    | Renewable and Sustainable Energy Reviews | 170 |    | <ol style="list-style-type: none"> <li>1. Xi'an Jiaotong University, Xi'an, China.</li> <li>2. King Mongkut's University of Technology Thonburi (KMUTT), Bangkok, Thailand;</li> <li>3. National Science and Technology Development Agency (NSTDA), Pathum Thani12120, Thailand</li> </ol>                                           |
| 6. | Kiatpachai P.,<br>Keawkamrop T.,<br>Asirvatham L.G.,<br>Mesgarpour M.,<br>Dalkılıç A.S.,<br>Ahn H.S.,<br>Mahian O.,<br>Wongwises S.   | An experimental study of the air-side performance of a novel louver spiral fin-and-tube heat exchanger                               | Alexandria Engineering Journal           | 61  | 12 | <ol style="list-style-type: none"> <li>1. King Mongkut's University of Technology Thonburi (KMUTT), Bangkok, Thailand;</li> <li>2., Yildiz Technical University, Yildiz, Besiktas, Istanbul, Turkey;</li> <li>3. Incheon National University, Incheon, South Korea;</li> <li>4., Xi'an Jiaotong University, Xi'an, China.</li> </ol> |
| 7. | Manova S.,<br>Godson Asirvatham L.,<br>Angeline A.A.,<br>Jerbin S.,<br>Bose J.R.,<br>Nimmagadda R.,<br>Jayaseelan R.,<br>Wongwises S. | Comparison on the heat transfer performance and entropy analysis on miniature loop thermosyphon with screen mesh wick and metal foam | Case Studies in Thermal Engineering      | 38  |    | <ol style="list-style-type: none"> <li>1. Center for Advanced Energy Studies, Koneru Lakshmaiah Educational Foundation, Vaddeswaram, India;</li> <li>2. King Mongkut's University of Technology Thonburi (KMUTT), Bangmod, Bangkok, Thailand,</li> <li>3. National Science and Technology Development Agency (NSTDA),</li> </ol>     |



|    |                                                                                                           |                                                                                                                                                                       |                                  |     |  |                                                                                                                                                                                                                                                                                                                                              |
|----|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-----|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |                                                                                                           |                                                                                                                                                                       |                                  |     |  | Pathum Thani, 12120, Thailand                                                                                                                                                                                                                                                                                                                |
| 8. | Manova S.,<br>Godson<br>Asirvatham<br>L., Appadurai<br>A.A.,<br>Ribatski G.,<br>Kumar P.,<br>Wongwises S. | An experimental investigation on the heat transfer characteristics of minichannel thermosyphon with multiports for cooling the modern miniaturized electronic devices | Energy Conversion and Management | 268 |  | <p>1. Heat Transfer Research Group, Mechanical Engineering Department, Sao Carlos School of Engineering, University of Sao Paulo, Brazil;</p> <p>2. Mongkut's University of Technology Thonburi (KMUTT), Bangmod, Bangkok, Thailand,</p> <p>3. National Science and Technology Development Agency (NSTDA), Pathum Thani, 12120, Thailand</p> |
| 9. | Manova S.,<br>Godson<br>Asirvatham<br>L., Raja Bose<br>J., Tharayil<br>T.,<br>Wongwises S.                | Effect of confluence length on the heat transport capability of ultra-thin multiport minichannel thermosyphon                                                         | Applied Thermal Engineering      | 201 |  | <p>1. Sree Buddha College of Engineering, Pattoor, Alappuzha, Kerala</p> <p>2. King Mongkut's University of Technology, Thonburi (KMUTT), Bangkok, Thailand</p> <p>3. National Science and Technology Development Agency (NSTDA), Pathum Thani, 12120, Thailand</p>                                                                          |

**MoU/MoA**

| Collaborated Agency Name             | Collaboration Level | Collaborated Agency Type | Date of MOU / Agreement Signed on | Period of Collaboration (in Years) |
|--------------------------------------|---------------------|--------------------------|-----------------------------------|------------------------------------|
| The Illinois Institute of Technology | International       | Educational Institute    | 20.01.2023                        | 1                                  |



|                                                                                                |               |                       |            |   |
|------------------------------------------------------------------------------------------------|---------------|-----------------------|------------|---|
| Tel Aviv University, Israel                                                                    | International | Educational Institute | 19.03.2023 | 3 |
| The Robert H. Smith Faculty of Agriculture, Food and Environment, HUU (Rehevot Campus), Israel | International | Educational Institute | 06.01.2023 | 5 |
| Cape Breton University, Sydney                                                                 | International | Educational Institute | 20.4.2020  | 5 |

### IAESTE - KITS

IAESTE or The International Association for the Exchange of Students for Technical Experience, as the name suggests, is a platform for students from all parts of the world to procure the professional technical expertise required for them in their careers. IAESTE not only equips students with exemplary professional experience but also cultural exposure that benefits every student to broaden their ability to grow in all aspects. Being an International Chapter, IAESTE India forges partnership with companies, universities and research institutes of higher repute, development and organizations in India and abroad for mutual benefits. Working with IAESTE allows you to easily select the best handpicked talents from across the globe and build an international network correspondence. IAESTE allows employers to benefit from brilliant, motivated students all over the world, who bring to your organization new ideas and new perspectives for short bursts of time.

**Karunya**  
DEEMED UNIVERSITY  
MAAC ACCREDITED A++

**CONGRATULATIONS**

**JESSICA JANE ROBINSON**  
(COMPUTER SCIENCE ENGINEERING)  
on securing the IAESTE internship in  
**SWITZERLAND**

INR  
**2.3 LAKHS**  
PER MONTH

**IAESTE**  
LC KARUNYA  
WORK. EXPERIENCE. DISCOVER.

**CONGRATULATIONS**

**BEULAH PRABHU**  
AGRICULTURE  
on securing an IAESTE internship in  
**GERMANY**

INR  
**84.5 K**  
PER MONTH



The ECE division is excited to welcome Mr. Ahmed Mohammed from Egypt as a part of the IAESTE intern program



Mr. Daniel Livingston has been offered a placement at Milestone Systems A/S , with an incredible CTC of INR 61.33 LPA.





## IAESTE Outgoing Students for the AY 2022-23

| Register Number    | Employer                                                                  | Country        | From<br>(mm/dd/yyyy) | To<br>(mm/dd/yyyy) |
|--------------------|---------------------------------------------------------------------------|----------------|----------------------|--------------------|
| <b>PRK20BT1001</b> | SENAI - Serviço Nacional de Aprendizagem Industrial - Sertãozinho         | Brazil         | 13-02-2022           | 04-11-2022         |
| <b>PRK20BT1002</b> | Research Institute of Sciences & Engineering (RISE) University of Sharjah | UAE            | 16-01-2022           | 11-08-2022         |
| <b>URK18CS033</b>  | Technische Universität München                                            | Germany        | 15-02-2022           | 30-04-2022         |
| <b>URK19CS2004</b> | Technische Universität München                                            | Germany        | 07-08-2022           | 31-10-2022         |
| <b>URK20FS1100</b> | UFV - Universidade Federal de Vicosa                                      | Brazil         | 25-07-2022           | 14-10-2022         |
| <b>URK20CS1006</b> | Universidad Santo Tomás - Tunja                                           | Colombia       | 15-03-2022           | 10-06-2022         |
| <b>URK19ME1035</b> | Vysoka skola Banska - Technicka univerzita                                | Czech Republic | 06-06-2022           | 02-09-2022         |
| <b>URK20AC1183</b> | Leibniz-Centre for Agricultural Landscape Research (ZALF)                 | Germany        | 01-07-2022           | 30-09-2022         |
| <b>URK19ME1044</b> | Vysoka skola Banska - Technicka univerzita                                | Czech Republic | 06-06-2022           | 02-09-2022         |
| <b>URK19CS1049</b> | POEC Consultancy International, Inc.                                      | Philippines    | 12-05-2022           | 06-07-2022         |
| <b>URK19CS2001</b> | Milestone Systems A/S                                                     | Denmark        | 15-06-2022           | 14-06-2023         |
| <b>PRK20BT1007</b> | AMIRES                                                                    | Czech Republic | 11-07-2022           | 02-09-2022         |
| <b>URK20CO1015</b> | Taibah University                                                         | Saudi Arabia   | 26-06-2022           | 31-07-2022         |
| <b>URK21AI1008</b> | Design In Situ / In Gorsel Tasarim ve Reklam Tic. Ltd. Sti                | Turkey         | 06-05-2022           | 23-08-2022         |



|                    |                                                                                                       |                         |            |            |
|--------------------|-------------------------------------------------------------------------------------------------------|-------------------------|------------|------------|
| <b>URK19ME1053</b> | Universitas Atma Jaya<br>Yogyakarta                                                                   | Indonesia               | 11-07-2022 | 02-09-2022 |
| <b>URK19CE1029</b> | Taibah University                                                                                     | Saudi Arabia            | 27-06-2022 | 31-07-2022 |
| <b>URK19EC1105</b> | Research Institute of Sciences<br>& Engineering (RISE)<br>University of Sharjah                       | United Arab<br>Emirates | 01-09-2022 | 31-12-2022 |
| <b>URK21CS1023</b> | University of Aleppo                                                                                  | Syria                   | 04-07-2022 | 19-08-2022 |
| <b>URK20CE1006</b> | Taibah University                                                                                     | Saudi Arabia            | 26-06-2022 | 31-07-2022 |
| <b>PRK20FP2008</b> | NESTLE SA                                                                                             | Switzerland             | 01-09-2022 | 31-08-2023 |
| <b>PRK21MS1013</b> | Centro Universitário ENIAC                                                                            | Brazil                  | 21-10-2022 | 30-12-2022 |
| <b>URK20CS3006</b> | ProgressSoft Corporation                                                                              | Jordan                  | 05-06-2023 | 28-07-2023 |
| <b>URK21CS3002</b> | Babilon-Mobile                                                                                        | Tajikistan              | 05-06-2023 | 04-08-2023 |
| <b>URK20EC1069</b> | Iran University of Science and<br>Technology (IUST)                                                   | Iran                    | 17-07-2023 | 01-09-2023 |
| <b>URK20RA1020</b> | Sharjah Academy for<br>Astronomy, Space Sciences<br>and Technology (SAASST),<br>University of Sharjah | UAE                     | 02-10-2023 | 24-11-2023 |
| <b>PRK19NS1005</b> | Paul Scherrer Institut<br>Forschungsstrasse                                                           | Switzerland             | 07-08-2023 | 24-02-2024 |
| <b>URK20AI1016</b> | M/s Datahouse                                                                                         | Switzerland             | 01-10-2023 | 31-03-2024 |
| <b>URK20AC1249</b> | King Mongkut's Institute of<br>Technology                                                             | Thailand                | 02-10-2023 | 30-11-2023 |
| <b>URK20ME1004</b> | M/s Waldhauser + Hermann<br>AG                                                                        | Switzerland             | 07-08-2023 | 30-09-2023 |
| <b>URK20AC1138</b> | Leibniz-Centre for<br>Agricultural Landscape<br>Research (ZALF)                                       | Germany                 | 01-07-2023 | 30-09-2023 |
| <b>ULK20RA1006</b> | M/s Cynteract GmbH                                                                                    | Germany                 | 15-11-2023 | 14-02-2024 |
| <b>PRK22CE1002</b> | Western Norway University of<br>Applied Sciences                                                      | Norway                  | 11-09-2023 | 20-10-2023 |
| <b>PRK19NS1001</b> | M/s Ovivo Switzerland AG                                                                              | Switzerland             | 04-12-2023 | 07-06-2024 |





### IAESTE Incoming Students for the AY 2022-23

| S. No | Name of the Student   | Country        | Internship Dept. / Company       | Home Institution                                         | From         | To           |
|-------|-----------------------|----------------|----------------------------------|----------------------------------------------------------|--------------|--------------|
|       |                       |                |                                  |                                                          | (mm/dd/yyyy) | (mm/dd/yyyy) |
| 1.    | Hember Guiza Cardenas | Colombia       | Computer Science and Engineering | Uniempresarial                                           | 15-08-2022   | 15-10-2022   |
| 2.    | Hanen Regaieg         | Tunisia        | Computer Science and Engineering | National Institute of Applied Sciences and Technology    | 15-07-2022   | 15-09-2022   |
| 3.    | Martin Skuta          | Czech Republic | Food Processing & Technology     | UCT Prague                                               | 18-07-2022   | 18-09-2022   |
| 4.    | Susanne Moser         | Austria        | Department of Biotechnology      | University of Natural Resources and Life Sciences Vienna | 15-08-2022   | 07-10-2022   |
| 5.    | Laslo Erik Ruhberg    | Germany        | Mechanical Engineering           | Ruperto Carola University Heidelberg                     | 01-09-2022   | 30-11-2022   |
| 6.    | Sophie Schmid         | Switzerland    | Biotechnology                    | University of Zurich                                     | 01-10-2022   | 30-11-2022   |
| 7.    | Tobias Brieger        | Germany        | Biomedical Engineering           | Friedrich-Alexander-Universitat                          | 07-11-2022   | 19-12-2022   |
| 8.    | Hasti Mehraei         | Iran           | Food Processing & Technology     | Islamic Azad University                                  | 17-07-2023   | 14-08-2023   |
| 9.    | Petr Stastny          | Czech Republic | Mechanical Engineering           | Brno University of Technology                            | 15-07-2023   | 15-10-2023   |



|     |                             |             |                                           |                                                        |            |            |
|-----|-----------------------------|-------------|-------------------------------------------|--------------------------------------------------------|------------|------------|
| 10. | Julia Drummer               | Germany     | Civil Engineering                         | University of Bayreuth                                 | 17-07-2023 | 20-08-2023 |
| 11. | Daniel Ernesto Kurzen       | Switzerland | Civil Engineering                         | University of Lausanne                                 | 17-07-2023 | 20-09-2023 |
| 12. | Parnia Eshaghi              | Iran        | Food Processing & Technology              | Islamic Azad University                                | 18-09-2023 | 27-11-2023 |
| 13. | Kimia Shahbazi              | Iran        | Agriculture                               | Sharif University of Technology                        | 17-07-2023 | 14-08-2023 |
| 14. | Fatemeh Rahmanifiroozj aee  | Iran        | Civil Engineering                         | Babol Noshirvani University of Technology              | 28-07-2023 | 01-10-2023 |
| 15. | Ahmed Mohammed              | Austria     | Electronics and Communication Engineering | Johannes Kepler University                             | 01-08-2023 | 25-09-2023 |
| 16. | Pablo Ángel Rivero Mohedano | Spain       | Nanoscience and Technology                | University of the Basque Country, Bilbao               | 17-07-2023 | 11-09-2023 |
| 17. | Liza Nzau (Remote)          | Kenya       | Biomedical Engineering                    | Jomo Kenyatta University of Agriculture and Technology | 13-09-2023 | 06-12-2023 |