



Civil News
 Vol: 11, Issue 1
 Jan-Jun 2025

**OUR PRIDE
 Placements 2025**

RUBY JOSEPH AarBee Structures Pvt. Ltd.	RUBY MARIA JOSHY AarBee Structures Pvt. Ltd.	GOHULKRISHNA M. S. AarBee Structures Pvt. Ltd.	SREELAKSHMI K. G. AarBee Structures Pvt. Ltd.	JOE P. WILLIAM Thrissur Builders Pvt. Ltd.
JACKSON V. K. AarBee Structures Pvt. Ltd.	ANAGHA K. S. AarBee Structures Pvt. Ltd.	AGNA ROY PNL Technologies Pvt. Ltd.	ARJUN C. P. Sublime Structures, CBE	ATHIRA W. R. Chelakara ITI
RISHAB K. Sublime Structures, CBE	MEERAJ MOHAN T. Sublime Structures, CBE	KRISHNA K. S. Rathinam Techzone	AKSHAYA C. Rathinam Techzone	MEGHA A. B. AarBee Structures Pvt. Ltd. PNL Technologies Pvt. Ltd.
KAVYA M. M. Rathinam Techzone	AMAL SANAF S. PVA Consultants	JOSEPH DAVIS MoonLight Constructions	SHIVIN JOSEPH Fahad Aluminium & Steel IIF Pvt Ltd	ALPHRED VARIED T. P. Antony Associates

RUBY JOSEPH SGPA-9.56	ANJANA CHANDRAN V. SGPA-9.47	EMILDA JOHN SGPA-9.38	MEGHA A. B. SGPA-9.38
SREEJIYA T. R. SGPA-9.29	SREELAKSHMI K. G. SGPA-9.21	ATHIRA K. R. SGPA-9.12	

COLLEGE VISION

Creating eminent and ethical leaders through quality professional education with an emphasis on holistic excellence.

COLLEGE MISSION

- To emerge as an institution par excellence of global standards by imparting quality engineering and other professional programmes with state-of- the-art facilities.
- To equip the students with appropriate skills for a meaningful career in the global scenario.
- To inculcate ethical values among students and ignite their passion for holistic excellence through social initiatives.
- To participate in the development of society through technology incubation, entrepreneurship and industry interaction.

DEPARTMENT VISION

To emerge as a Centre of Excellence in Civil Engineering through quality professional education and to create eminent leaders with values committed to the profession and society.

DEPARTMENT MISSION

- To impart state of the art education and to provide industry exposure to students
- To create civil engineers who successfully adapt and innovate solutions for the built environment
- To inspire and transform the students to hard core professionals and academicians with ethical values.

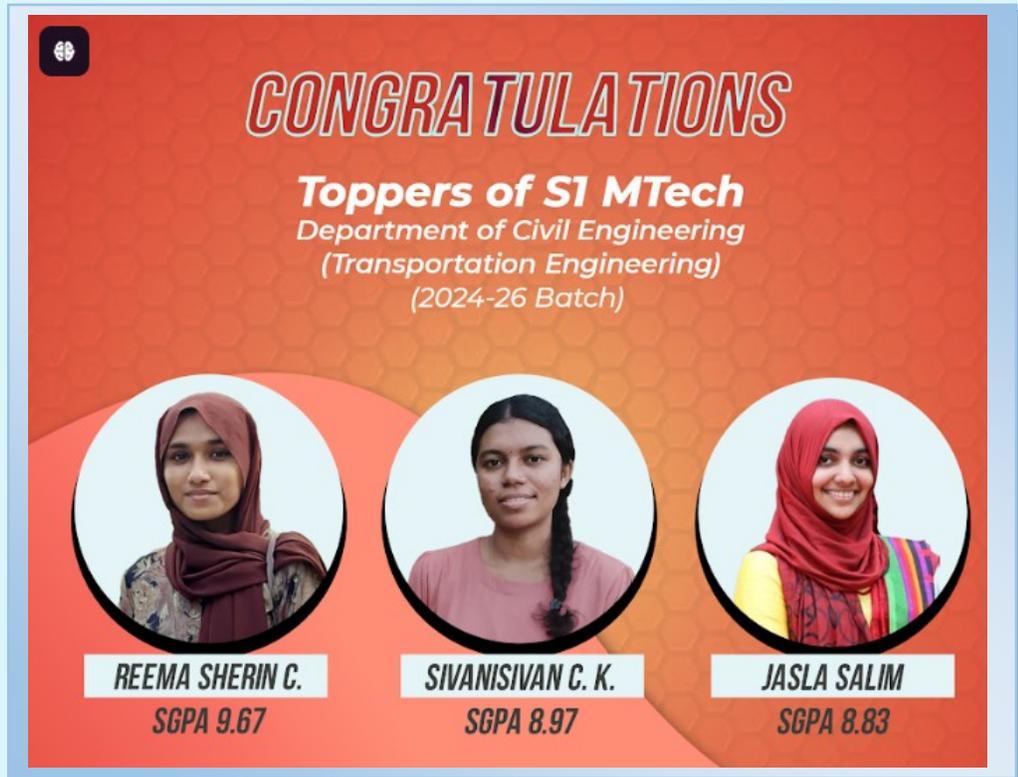
PROGRAMME EDUCATIONAL OBJECTIVES

The program educational objectives of B. Tech in Civil Engineering are:

1. Graduates will have concrete knowledge in the application of necessary mathematical tools, scientific theories and modern developments in civil engineering.
2. Graduates will understand the societal needs and will be committed in developing optimal solutions.
3. Graduates will pursue higher education, research or entrepreneurship apart from being employable.
4. Graduates will be competent to face challenges in civil engineering through lifelong learning process and will have high ethical values, honesty and a sense of responsibility

PROGRAMME SPECIFIC OUTCOMES

1. Acquire the ability to plan, furnish and/or analyse designs and implement infrastructure related systems, produce related documents, drawings and reports, and quantity estimates, related to civil engineering domain.
2. Apply theoretical concepts and technical skills in developing appropriate sustainable solutions through self-learning, research and teamwork for technical problems requiring civil engineering interventions towards a better quality of life.
3. Utilise the acquired knowledge in Environmental Engineering and Transportation Engineering to conceptualise, analyse, evaluate specific problems in Water Quality Management, Sanitation, Pavement Design, Traffic Engineering and Transportation Planning and develop appropriate solutions.



Department Activities

Conducted **Career Orientation** by CORE Institute S8 Students on 30 Jan 2025

Conducted **Industrial Visit to Mankara Dam** for S4 Students on 17 Jan 2025

A **Workshop on “Domestic Water Quality Issues in Kerala state and Remedies”** by Department of Civil Engineering and Centre for Water Research and Education (CWRE) on 17 th Jan 2025

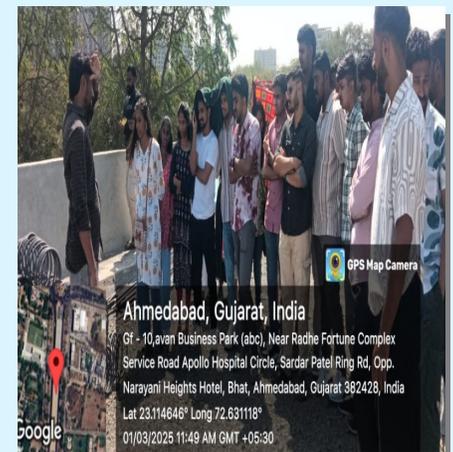


A Memorandum of Understanding (MOU) is signed between Department of Civil Engineering,

Jyothi Engineering College and **Vadukoot consultants Pvt Ltd** Thrissur on 14th March 2025

A Memorandum of Understanding (MOU) is signed between Department of Civil Engineering, Jyothi Engineering College and **Agrico Designs**, Cherupulassery, Palakkad on 15th March 2025

S8 Students visited a **flyover construction site** connecting airport and **Gandhi Nagar**, and its cable-stayed bridge.



Student Achievements

45 students from department of civil engineering successfully completed and got certified in various NPTEL courses.

The following students secured the top SGPA in the S7 Examination: Emilda John (9.70), Anjana Chandran V (9.20), Athira K R (9.10), Athira T P (9.00), Anagha K S (8.90), Ruby Joseph (8.90), Sreejiya T R (8.67), and Sreelakshmi K G (8.60).

Benito Kollannur and Kuriyan Andrews (S4 CE) participated in the LSGD Annual Meet 2025 with their model exhibits.

The following students secured more than 8.0 SGPA in the S5 Examination: Ms. Jiya Jaison (9.43), Mr. Abhith Sudheer (8.48), and Ms. Ann Mariya (8.13).

S8 students **Anton John Issac, Amal Sanaf S, Krishna K. S, and Sreelekha K.** presented a paper titled *“Towards Safer Roads: A Review of Pedestrian Safety and Infrastructure Quality”* at the National Conference on Applied Interdisciplinary Civil Engineering (AICE 2025), held at **Adi Shankara Institute of Engineering and Technology** on 7–8 March 2025.

Jisha Dev V. P., S4 M. Tech student, presented the paper *“AI-Powered Computer Vision for Modeling Driver Workload: Correlating Road Geometry with Eye Blink Rate”* at the 2nd International Conference on Civil Engineering: ICC IDEA – 2025, held from 20–22 March 2025 at SRM Institute of Science and Technology.

At the **National Conference on Innovations in Civil Engineering (NCICE 2025)**, held on 21 March 2025 at **Christ College of Engineering, Irinjalakuda** as part of CIVORA 2025, the following

papers were presented:

Akhil Baiju John, Kuriyan Andrews, Benito Kollannur, and Bastin K. T. presented *“Artificial Intelligence in Civil Engineering: A Revolution”*.

Devadas P. S., Shivin Joseph, Sreejiya T. R., and Sharon T. S. presented *“Evaluation of Effectiveness of Posted Speed Sign Boards”*.

The Departmental Project Excellence Award (First Prize) was awarded to **Aadharsh K. M., Alphred Varied, Athira K. R., and Kavya M. M.**, under the supervision of **Dr. Alwyn Varghese**, for their project *“Partial Replacement of Coarse Aggregate by Sand-Coated Recycled HDPE and E-Plastic Aggregate in Concrete”*.

The Second Prize was awarded to **Muhammed Nifal P. A., Akshaya C., Anagha K. S., and Magh Shaju Puthur**, supervised by **Ms. Jeffy Johny**, for their project *“Manufacturing of Cost-Effective and Sustainable Roofing Tiles through Agro-Waste Utilization”*.

A special recognition award was given to **Agna Roy, Arjun C. P., Athul K. R., and Mishab K.**, under the guidance of **Mr. Suhas S. Nair**, for their project *“Enhancing the Mechanical Performance of M35 Grade Concrete with Metakaolin as a Filling Agent”*.

The **YUKTHI 2025 KATPENTAR Project Excellence Award – Track 1 (Non-Circuit Project)** was won by **Emilda John, Gokulkrishna M. S., and Jackson V. K.**, supervised by **Ms. Anna Joseph**, for their project *“Low-Cost Iron Removal for Traditional Water Sources of Kerala”*.

Following students presented paper at the **National Conference on Advancing Sustainability in Civil Engineering Practices 2025 (ASCP'25)**, held on 2–3 May 2025 at **St. Thomas Institute for Science and Technology, Thiruvananthapuram.**

Aasad M. S. (S8 CE) presented on the topic *“Enhancing Building Safety: A Review of Real-Time Fire Protection Technologies”*

Don Paulson (S8 CE) presented on the topic *“High-Speed Rail: A Review”*.

Sreelakshmi K. G. (S8 CE) presented on the topic *“A Review on Integrated Approaches to Saltwater Intrusion Monitoring for Coastal Water Resource Management”*

Agna Roy (S8 CE) presented on the topic *“A Study on Performance of Moss-Integrated Concrete in Sustainable Construction”*

Devika K. P. (S2 M. Tech CE) presented on the topic *“Assessment of Pavement Condition of Low-Volume Roads Constructed with Emerging Technologies: A Comparative Study of IRC and ASTM Approaches”*



Students from (2024-2028)
Department of **Civil Engineering**
who have successfully earned **NPTEL** certifications

Aleena P. Sunny Elite Certification with Silver Medal	Ardra R. Elite Certification with Silver Medal	Athira K. S. Elite Certification
Ahalya Krishna K. Elite Certification	Devika M. J.	

Students from 2022-2026 Batch
Department of **Civil Engineering**
who have successfully earned **NPTEL** certifications.

JIVA JOHNSON	SAHANA S.	MUBEENA A. M.	ABHITHI SUDHEER V. S.	JINACHANDRAN K. S.
ANLIYA A. T.	VINAYA K. H.	ASWIN P. S.	ANN MARIYA K. J.	OKUL S.
MUHAMMED HARMIL C. S.	AMAL CHARLY K.	NITHIN P. N.		
VISHAK SUBRAMANIAN	JUMANA SHERIN T. V.	JESWIN K. SUNNY		

Congratulations

who completed NPTEL MOOC Courses from the
2021-25 Civil Engineering batch

ANJANA CHANDIRAN V. 3 Courses	ANTON JOHN ISSAC 3 Courses	RUBY JOSEPH 3 Courses	EMILDA JOHN 2 Courses	SHEELAKSHMI K. G. 2 Courses	ATHIRA T. P. 2 Courses	RUBY MARIYA JOSEPH 2 Courses
Megha A. B. 2 Courses	ANAGHA K. S. 1 Course	JACKSON V. K. 1 Course	SHEELAKSHMI 1 Course	SEETHA T. R. 1 Course	MACHINIAH JUTHIR 1 Course	KAVYAM, M. 1 Course
SHEELAKSHMI 1 Course	ATHIRA K. R. 1 Course	ALPHRED VARIDET. P. 1 Course	GOBULKRISHNAM. S. 1 Course	THEJUS KRISHNA C. S. 1 Course	ATHUL K. R. 1 Course	AASAD M. S. 1 Course
MUHAMMED NIPAL 1 Course	FARSANAC. Y. 1 Course	SHIBLA V. S. 1 Course	AADHARSH K. M. 1 Course			

Jyothi

Engineering College
(AUTONOMOUS)

Faculty Achievements

M. G. Cyriac, Jeffy Johny, Anna Joseph, Ignatious T. F., Vini P., Shima Paul, and George C. J. participated in the **One-Day Workshop on Domestic Water Quality Issues in Kerala State and Remedies**, held on 17 January 2025.

Dr. Alwyn Varghese served as **Chair at the NCETE 2025 Conference**, held on 16–17 January 2025.

Ms. Jisha Akkara successfully completed the **SWAYAM Course on Mentoring and Counselling Skills for Teachers** on 17 January 2025.

Ms. Anna Joseph completed the **SWAYAM Course on Mentoring and Counselling Skills for Teachers**.

Mr. Ignatious T. F. successfully participated in a **Two-Day Workshop on Recent Trends in Drone Technology**, held on 30–31 January 2025.

Ms. Archana S. completed the **AICTE Training and Learning (ATAL) Academy Faculty Development Program on Advances in Ground Improvement Techniques**, held at LBS Institute of Technology for Women from 18–23 November 2024.

Ms. Soorya M. Nair completed a **Short-Term Course on Vision-Based Condition Assessment of Civil Infrastructure under GIAN**, organized by the School of Infrastructure, **IIT Bhubaneswar**, from 6–11 January 2025.

Ms. Anna Joseph participated in the **FDP on NBA Accreditation Process for UG and PG Programs** at **NITTTR Extension Centre Kalamassery** from 28 April to 2 May 2025.

Ms. Anna Joseph completed the course **“Fundamentals of Effective Team Management”** via Coursera on 28 May 2025.

Ms. Anna Joseph completed the course **“Design Thinking”** via Infosys Springboard on 30 May 2025.

Ms. Anna Joseph completed the course **“Management & Leadership”** via Infosys Springboard on 30 May 2025.

Ms. Anna Joseph completed the course **“Effectively Directing and Delegating as a Manager”** via Infosys Springboard on 29 May 2025.

Ms. Anna Joseph completed the course **“Fundamentals of Effective Team Management”** via Coursera on 28 May 2025.

Ms. Anna Joseph completed the course **“Design Thinking”** via Infosys Springboard on 30 May 2025.

Ms. Anna Joseph completed the course **“Management & Leadership”** via Infosys Springboard on 30 May 2025.

Ms. Anna Joseph completed the course **“Effectively Directing and Delegating as a Manager”** via Infosys Springboard on 29 May 2025.

Ms. Jeffy Johny, Dr. Alwyn Varghese, Dr. Vincy Varghese, and Ms. Soorya M Nair completed the **NPTel course on NBA Accreditation and Teaching and Learning in Engineering (NATE)** and received FDP certificates.

Ms. Soorya M Nair completed the **NPTel course on Outcome-Based Pedagogic Principles for Effective Teaching** and received an FDP certificate.

Ms. Jeffy Johny, Dr. Alwyn Varghese, Dr. Vincy Varghese, Ms. Neeraja P. G, Ms. Jisha Akkara, and Mr. Suhas Nair S completed the **STTP on “Smart Infrastructure & IoT: A Next-Gen Approach in Civil Engineering”** at **Coimbatore Institute of Engineering and Technology** from 26–31 May 2025.

All the faculty members of Civil Department successfully completed the courses **“Artificial Intelligence for All”** and **“Generative AI for All”** on **June 11, 2025**, through **Infosys Springboard**.

All faculty members participated in **'Pathways to Progress', the Five-day Faculty Development Programme** held from 09-06-2025 to 13-06-2025, organised by the **Human Resources Department, Jyothi Engineering College, Cheruthuruthy**

All faculty members of CE Dept. participated in the **Online Five-Day Faculty Development Programme** entitled **“Innovations in Civil Engineering: Integrating Geospatial Technologies, Structural Monitoring, AI, and Sustainability”** organised by the **Department of Civil Engineering**, from 16th - 20th June 2025, at **Jyothi Engineering College, Cheruthuruthy, Thrissur**

100% Results

Mr. Suhas Nair S secured **100% results** in the **KTU examination for Disaster Management (Semester 5, Civil Engineering)**.

Ms. Anna Joseph secured **100% results** in the **KTU examination for Sustainable Engineering (Semester 3, Computer Science & Engineering)**.

Ms. Soorya M Nair secured **100% results** in the **KTU examination for Environmental Impact Assessment (Semester 7, Computer Science & Engineering)**.

Ms. Jisha Akkara secured **100% results** in the KTU examination for **Disaster Management** (Semester 5, Computer Science & Engineering).

Ms. Archana S. secured **100% results** in KTU examination for S8 CE Elective – CET438 **Airport, Seaport and Harbour Engineering**.

Faculty Publication and conference presentations

Ms. Archana S. published a research paper in **Lecture Notes in Civil Engineering** titled **“Modeling the Potential Shift to Sustainable Modes and the Resultant Reduction in Carbon Emission”**, presented at the 7th International Conference of Transportation Research Group.

Ms. Soorya M Nair published a book chapter in **“Handbook of Industrial and Business Applications with Digital Twins”**.

Ms. Soorya M Nair completed a certificate course in **Professional Diploma in Project Management**, conducted by instructors from the **MTF Institute of Management, Technology and Finance**.

Ms. Archana S. presented a paper entitled **“Towards Safer Roads: A Review of Pedestrian Safety and Infrastructure Quality”** at the **National Conference on Applied Interdisciplinary Civil Engineering (AICE 2025)**, held at **Adi Shankara Institute of Engineering and Technology** on 7–8 March 2025.

Dr. Alwyn Varghese, Mr. Suhas Nair S, Ms. Soorya M Nair, Ms. Neeraja P. G, and Ms. Anju M. J participated and jointly presented a research paper titled **“Integrating Historical and Current Data to Develop a Flood Vulnerability**

Map for Palakkad District, Kerala” at the **International Conference on Innovative Trends in Engineering for Sustainability (ICITES 2025)**. The conference was organized by the **Department of Civil Engineering, Toc H Institute of Science and Technology**, and held from **2nd to 4th April 2025**.

Ms. Archana S. presented a paper titled **“Feasibility Study of Non-Motorized Transport in Thrissur”** at **ICAMS-2K25, Nadar Saraswathi College of Engineering and Technology, Theni** on 9 May 2025.

Ms. Archana S. presented a paper titled **“High-Speed Rail – A Review”** at **ASCP’25, St. Thomas Institute for Science and Technology, Thiruvananthapuram** on 2–3 May 2025.

Ms. Archana S. presented a paper titled **“Enhancing Building Safety – A Review of Real-Time Fire Protection Technologies”** at **ASCP’25, Thiruvananthapuram** on 2–3 May 2025.

Mr. Suhas Nair S. and Ms. Anna Joseph on **“Greener High-Strength Concrete through Partial Replacement of Aggregates with Industrial Byproducts”** at **ASCP’25, Thiruvananthapuram** on 2–3 May 2025.

Ms. Jeffy Johny presented on **“A Study on Performance of Moss-Integrated Concrete in Sustainable Construction”** at **ASCP’25, Thiruvananthapuram** on 2–3 May 2025.

Dr. Vincy Verghese presented on **“Assessment of Pavement Condition of Low-Volume Roads Constructed with Emerging Technologies:**

Comparative Study of IRC and ASTM Approaches” at **ASCP’25, Thiruvananthapuram** on 2–3 May 2025.

Ms. Archana S. participated in the **1st World Symposium on Sustainable Transport and Livability (WSSTL-2025)** organized by **IISC, Bangalore** from **24th to 27th June 2025**.

Mr. Suhas Nair S, Ms. Anna Josphe and Ms. Jeffy Johny presented a paper titled **“High Performance Reactive Powder Concrete Using Copper Slag and Pozzolanic Materials for Eco-Efficient Construction”** at the **National Conference on Recent Advances in Civil Engineering and Technology (REACT 2025)**, organized by **Vidya Academy of Science & Technology** on **25–26, June 2025**

Ms. Soorya M Nair and Dr. Alwyn Varghese presented a paper titled **“Effect of Nano silica on concrete”** at the **National Conference on Recent Advances in Civil Engineering and Technology (REACT 2025)**, organized by **Vidya Academy of Science & Technology** on **25–26, June 2025**

Mr. Suhas Nair S., Ms. Jeffy Johny and Ms. Anna Joseph presented a paper on **“Greener High-Strength Concrete through Partial Replacement of Aggregates with Industrial Byproducts”** at **ASCP’25, Thiruvananthapuram** on 2–3 May 2025.

Ms. Jeffy Johny presented a paper on **“A Review on Integrated approaches to Salt water intrusion monitoring for coastal water resource management”** at **ASCP’25, Thiruvananthapuram** on 2–3 May 2025

FACULTY OUR ASSET!Welcome **Dr. Sooraj Krishnan**

We warmly welcome **Dr. Alwyn Varghese** as the new **Head of the Department**, and look forward to his vision and guidance in steering the department toward continued growth and innovation.

Welcome **Mr. Alfred George**

We extend our heartfelt thanks to **Dr. Vincy Verghese** for her dedicated service and leadership as the **Head of the Department** during the last 3 years (2022-2025). Her commitment to academic excellence, faculty development, and student engagement has been truly commendable.

Program Outcomes (POs)**PO1: Engineering Knowledge**

Apply knowledge of mathematics, natural science, computing, engineering fundamentals and an engineering specialization as specified in WK1 to WK4 respectively to develop to the solution of complex engineering problems.

PO2: Problem Analysis

Identify, formulate, review research literature and analyze complex engineering problems reaching substantiated conclusions with consideration for sustainable development. (WK1 to WK4)

PO3: Design/Development of Solutions

Design creative solutions for complex engineering problems and design/develop systems/components/processes to meet identified needs with consideration for the public health and safety, whole-life cost, net zero carbon, culture, society and environment as required. (WK5)

PO4: Conduct Investigations of Complex Problems

Conduct investigations of complex engineering problems using research-based knowledge including design of experiments, modelling, analysis & interpretation of data to provide valid conclusions. (WK8)

PO5: Engineering Tool Usage

Create, select and apply appropriate techniques, resources and modern engineering & IT tools, including prediction and modelling recognizing their limitations to solve complex engineering problems. (WK2 and WK6)

PO6: The Engineer and The World

Analyze and evaluate societal and environmental aspects while solving complex engineering problems for its impact on sustainability with reference to economy, health, safety, legal framework, culture and environment. (WK1, WK5, and WK7)

PO7: Ethics

Apply ethical principles and commit to professional ethics, human values, diversity and inclusion; adhere to national & international laws. (WK9)

PO8: Individual and Collaborative Team Work

Function effectively as an individual, and as a member or leader in diverse/multi-disciplinary teams.

PO9: Communication

Communicate effectively and inclusively within the engineering community and society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations considering cultural, language, and learning differences.

PO10: Project Management and Finance

Apply knowledge and understanding of engineering management principles and economic decision-making and apply these to one's own work, as a member and leader in a team, and to manage projects and in multidisciplinary environments.