B.S. Abdur Rahman Crescent Institute of Science & Technology
Deemed to be University u/s 3 of the UGC Act, 1956

Report on

International Seminar on Recent Advancements in Civil Engineering (ISRACE – 2025)

January 22, 2025

Organized by

Department of Civil Engineering,

School of Infrastructure

B.S. Abdur Rahman Crescent Institute of Science and Technology

Patrons

Dr. T. Murugesan
Vice-Chancellor

Dr. N. Raja Hussain
Registrar

Convener

Dr. M. S. Haji Sheik Mohammed
Dean, School of Infrastructure

Coordinator

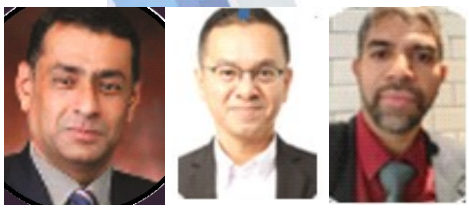
Dr. P. Gajalakshmi
Professor
Department of Civil Engineering

Co- coordinator

Mr. A. Sheik Farid
Assistant Professor (Senior Grade)
Department of Civil Engineering

Resource Persons

UPNM
UNIVERSITI PERTAHANAN NASIONAL MALAYSIA
www.upnm.edu.my



UPNM, Malaysia

NICMAR
University of Construction Studies
HYDERABAD

NICMAR, Hyderabad

భారతీయ సాంకేతిక విజ్ఞాన సంస్థ హైదరాబాద్
भारतीय प्रौद्योगिकी संस्थान हैदराबाद
Indian Institute of Technology Hyderabad

IIT, Hyderabad

Ref.: 1064 A / Dean(Sol) / 0225 **Date: 24.02.2025**

1. Introduction

The International Seminar on Recent Advancements in Civil Engineering (ISRACE 2025) provides a high-impact platform for researchers, industry experts, and academicians to engage in knowledge exchange on pioneering developments in the field. With a focus on advanced materials, resilient infrastructure, and digital transformation, the seminar delved into key innovations such as blast-resistant concrete, data-driven lean construction, and sustainable development frameworks. Experts explored the integration of AI and BIM in structural engineering, as well as cutting-edge research in steel structures and rapid construction management. Additionally, the seminar gave glimpse on emerging trends in climate-resilient urban planning, geotechnical advancements, and smart transportation systems that enhance the efficiency and safety of modern infrastructure. By fostering interdisciplinary collaboration, ISRACE 2025 aimed to accelerate the adoption of intelligent construction methodologies, green building solutions, and policy-driven approaches that shape the future of civil engineering.

2. Objectives of the seminar

The seminar focuses on fostering advancing digital transformation and addressing emerging challenges in modern infrastructure development.

- To analyze advancements in blast-resistant concrete for improving structural resilience against extreme forces.
- To discuss effective project management strategies for rapid construction while maintaining quality standards.
- To emphasize the importance of research and innovation in steel structures for enhanced performance and durability.
- To explore the role of data-driven collaborative planning in Lean Construction for optimizing project efficiency.
- To highlight the significance of Sustainable Development Goals (SDGs) in promoting eco-friendly and responsible construction practices.

The seminar aimed to educate the postgraduate students, research scholars, faculty members, and industry professionals in the latest innovations, research methodologies, and technological advancements in civil and structural engineering.

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3. Programme Brochure and Schedule

Registration Fees

Students / Research Scholars	:	Rs. 500/-
Faculty from Institutions	:	Rs. 1000/-
Delegates from Industries	:	Rs. 1500/-

Registration Link

https://forms.gle/8scD3v1xEfiCkQ9i6

Who can Participate

Under Graduate Students / Post Graduate Students / Research Scholars / Faculty members of Civil Engineering and Industry Personnel.

Address for Correspondence:

COORDINATORS

Dr. P. Gajalakshmi
Professor
Department of Civil Engineering

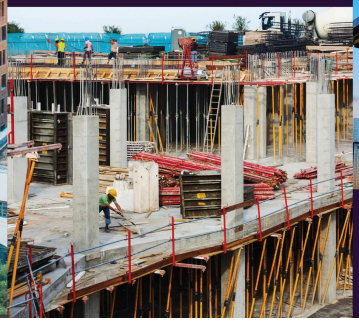
Mr. A. Sheik Farid
Assistant Professor (Sr. Gr.)
Department of Civil Engineering

B.S. Abdur Rahman Crescent Institute of Science and Technology, Vandalur, Chennai-600048.

Contact Details:

gajalakshmi@crescent.education/ 9444311403

sheikfarid@crescent.education/9790466832



40 YEARS OF ACADEMIC EXCELLENCE

B.S. Abdur Rahman® Crescent Institute of Science & Technology

School of Infrastructure
Department of Civil Engineering

Organizes one day

International Seminar on

Recent Advancements in Civil Engineering (ISRACE – 2025)

Date : 22nd January 2025
Venue : Seminar Hall I, Convention Centre
International Participants: Online mode

About the Institution

Since 1984, B.S. Abdur Rahman Crescent Institute of Science and Technology is a renowned Quality Leadership Institution located at the greenest spot of Chennai, Tamilnadu, India. Through our long history of 40+ years of excellence, the Institution has offered access to a wide range of academic opportunities. With 57 programmes, grouped under 12 different Schools, and Ph.D. in all the disciplines, this institution is a rising stalwart in higher education with promising Quality, Security and Placement. We welcome students from all countries and our educational programmes are designed to equip the learners with knowledge that helps them to achieve what they want to be and go where they want to go in the ladder of success. This institution is an intellectual destination that challenges conventional thinking and stimulates passion to redefine learning. The distinctive teaching at this institution makes the students and scholars compete with themselves and each other. Apart from providing top-notch education, our green campus and well-planned student-life are solely dedicated to making students utilize the ambiance to the fullest. Through our wide array of educational programmes and unique clubs to foster student development activities, we provide opportunities and experiences that build a community that helps you grow personally and professionally, and create a place that you can call home now and throughout your life.

About the Department

The Department of Civil Engineering started in 1984 is one of the oldest departments of this Institute. The department offers B.Tech. in Civil Engineering, M.Tech. in Structural Engineering, M.Tech in Construction Engineering & Project Management and Ph.D. in various disciplines of Civil Engineering. The department gives emphasis on 'quality and skill based education', 'application-oriented research' (through network with eminent academic institutions and research laboratories) for the holistic development of students. The department also offers testing & consultancy services to government, semi-govt., and private sectors.

About the Seminar

Civil engineering continues to evolve with innovative techniques, materials, and methodologies aimed at addressing modern era challenges in infrastructure development. This International Seminar on "Recent Advancements in Civil Engineering (ISRACE 2025)" provides a platform for researchers, industry professionals, students and academicians to explore cutting-edge technologies and sustainable practices that are shaping the future of the field. This seminar also aims to inspire innovation, promote sustainable development and encourage collaboration among stakeholders in the civil engineering fraternity.

Speakers & Themes

Dr. Mohammed Alias Yusof,
Professor/UPNM, Malaysia
Blast Resistant Concrete: A new innovative concrete material to resist the blast loading.

Dr. Mahendrakumar Madhavan
Professor, IIT Hyderabad, India
Need for research in steel structures

Dr. Vikneswaran Munikanan
Deputy Director (Academics)
UPNM, Malaysia
Key Performance Areas addressing the Sustainable Development Goals

Dr. Arun Chandramohan
Professor/NICMAR, Hyderabad, India
Data Driven Collaborative Planning in Lean Construction

Dr. Muhamad Azani Yahya
Associate Professor/UPNM, Malaysia
Project Management for Rapid Construction

BANK DETAILS

Name of Account	:	B.S. Abdur Rahman Crescent Institute of Science and Technology
Account No.	:	165702000000786
Nature of Account	:	Current Account
Bank Name & Branch	:	Indian Overseas Bank & Vandalur
IFSC Code	:	IOBA0001657

Patrons

Dr. T. Murugesan
Vice-chancellor

Dr. N. Raja Hussain
Registrar

Convenor
Dr. M. S. Haji Sheik Mohammed
Dean (Sol)

Coordinator
Dr. P. Gajalakshmi
Professor

Co-coordinator
Mr. A. Sheik Farid
Assistant Professor (Sr. Gr.)

Brochure of ISRACE 2025

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B.S. Abdur Rahman® Crescent Institute of Science & Technology

SCHOOL OF INFRASTRUCTURE

DEPARTMENT OF CIVIL ENGINEERING

International Seminar on Recent Advancements in Civil Engineering (ISRACE – 2025)

Program Schedule

Date: 22.01.2025 Time: 9.30 A.M. Venue: Seminar Hall 1

9.30 am	Qirath	Dr. Mohd Umar, Asst. Professor
9.35 am	Thamizh Thai Vazhthu	Students
9.40 am	Welcome Address	Dr. P. Gajalakshmi, Professor
9.45 am	About the Seminar	Dr. M.S. Haji Sheik Mohammed, Professor & Dean, SoI
9.50 am	Inaugural Address	Dr. Mohammed Alias Yusof Professor / UPNM, Malaysia
10.00 am – 11.00 am	Lecture 1 - Blast Resistant Concrete: A new innovation concrete material to resist the blast loading	Dr. Mohammed Alias Yusof Professor / UPNM, Malaysia
11.00 am – 11.15 am, Refreshment Break		
11.15 am – 12.15 pm	Lecture 2 - Project Management for Rapid Construction	Dr. Muhamad Azani Yahya Associate Professor / UPNM, Malaysia
12.15 pm – 01.15 pm	Lecture 3 - Need for Research in Steel Structures	Dr. Mahendrakumar Madhavan Professor, IIT Hyderabad, India
01.15 pm – 2.00 pm, Lunch Break		
2.00 pm – 3.00 pm	Lecture 4 – Data Driven Collaborative Planning in Lean Construction	Dr. Arun Chandramohan Professor/ NICMAR, Hyderabad, India
3.00 pm – 3.50 pm	Lecture 5 - Key Performance Areas addressing the Sustainable Development Goals	Dr. Vikneswaran Munikanan Deputy Director (Academics) UPNM, Malaysia
3.50 pm	Vote of Thanks	Mr. A. Sheik Farid, Asst. Professor (Sr. Gr.)

Program Schedule of ISRACE 2025

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4. Salient Photos during Inaugural Event

Figure 1: Organizers with Resource persons from UPNM, Malaysia

Figure 2: Welcome Address by Dr. P. Gajalakshmi, Professor, BSACIST

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Figure 3: About the Seminar by Dr. M.S. Haji Sheik Mohammed, Dean/Sol, BSACIST

Figure 4: Inaugural Address by Ir. Dr. Mohammed Alias Yusof, Professor, Universiti Pertahanan Nasioanal Malaysia

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5. Details of Lectures

5.1 Lecture 1: Blast Resistant Concrete: A New Innovative Concrete to Resist Blast Loading

Profesor . Ir . Dr. Mohammed Alias Yusof, Professor, Universiti Pertahanan Nasioanal Malaysia, presented on the topic “Blast Resistant Concrete: A New Innovative Concrete to Resist Blast Loading” which gave a clear understanding about Blast Resistant concrete and its needs.

He stated that conventional concrete is highly vulnerable to blast loading due to its brittle nature and low tensile strength. He then discussed the interdisciplinary approach in designing blast-resistant concrete, emphasizing the synergistic influence of material properties, reinforcement techniques, and structural design in enhancing blast resilience.

He then explained the fundamental behavior of concrete under blast loading, discussing the mechanisms of energy dissipation, crack propagation, and structural failure when exposed to high-intensity explosions.

He also highlighted the various factors influencing blast resistance, which include:

- Material composition (Cement, Aggregates, Fibers)
- Reinforcement type (Steel fibers, Hybrid fibers)
- Blast pressure intensity
- Standoff distance
- Structural configuration

Further, he discussed various types of blast-resistant materials and their applications in mitigating structural damage.

Later, he concluded the presentation with various measures to improve blast resistance, which include:

- Selection of high-performance concrete materials.
- Incorporation of hybrid fiber reinforcements.
- Optimized mix design for enhanced toughness.
- Use of retrofitting techniques (e.g., Polyurea coating, CFRP wrapping).
- Blast-resistant design following UFC and ASTM guidelines.

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5.2 Lecture 2: Project Management for Rapid Construction

Dr. Muhamad Azani Yahya, Associate Professor, Universiti Pertahanan Nasioanal Malaysia, gave a lecture on the topic "Project Management for Rapid Construction". He began the discussion by explaining the concept of rapid construction, emphasizing its role in minimizing project duration while maintaining structural integrity and quality. He highlighted that rapid construction is essential for addressing modern-day challenges, such as tight deadlines, increasing project complexity, and competitive market demands.

He further elaborated on the core principles of rapid construction, stressing that successful implementation depends on efficient project planning, resource management, and technological integration.

He then outlined the key factors influencing rapid construction, which include:

- Project Scheduling and Time Management – Efficient planning reduces delays and enhances productivity.
- Material Selection and Utilization – Use of prefabricated components and advanced materials accelerates project execution.
- Technology Integration – Digital project management tools help in real-time tracking and monitoring.
- Workforce Management – Skilled labor and proper task allocation ensure smooth execution.
- Risk Management and Contingency Planning – Addressing uncertainties prevents unexpected delays.

He then delved into effective strategies for achieving rapid construction, discussing approaches such as:

- Optimized Workflows – Eliminating non-value-adding activities improves efficiency.
- Prefabrication and Modular Construction – Reducing on-site construction time through off-site fabrication.
- Overlapping Task Execution – Parallel processing of tasks shortens project timelines.
- Use of High-Efficiency Equipment and Automation – Advanced machinery enhances speed and accuracy.
- Adoption of Lean Construction Methods – Reducing waste and improving resource utilization.

He concluded the presentation by highlighting practical measures to implement rapid construction successfully, which include:

- Developing realistic and well-structured project timelines.
- Leveraging digital tools for enhanced project monitoring and coordination.
- Ensuring seamless communication between all stakeholders.

- Applying innovative project scheduling techniques such as Fast Tracking and Critical Chain Project.

5.3 Lecture 3: Need for Research in Steel Structures

Dr. Mahendrakumar Madhavan, **Professor, Indian Institute of Technology, Hyderabad,** started the session with his lecture on the topic "Need for Research in Steel Structures". He commenced the session by emphasizing the critical role of steel structures in modern construction, highlighting their strength, durability, and adaptability in various engineering applications. He pointed out that continuous research and innovation in steel structures are essential to enhance performance, optimize material usage, and improve sustainability.

He further elaborated on the core areas of research in steel structures, stressing the need for advanced material development, structural performance optimization, and innovative construction techniques.
He then outlined the key factors influencing research in steel structures, which include:

- Material Enhancement – Exploring high-strength and corrosion-resistant steel for improved longevity.
- Structural Stability and Load Resistance – Studying the behavior of steel structures under extreme conditions such as earthquakes, wind loads, and fire.
- Sustainability and Environmental Impact – Developing eco-friendly steel production techniques and promoting recycling.
- Advanced Design and Simulation Tools – Utilizing computational modeling and artificial intelligence for enhanced structural analysis.
- Innovative Construction Methods – Implementing prefabrication and modular construction for efficiency and cost-effectiveness.
- Life-Cycle Assessment and Maintenance – Evaluating the long-term performance and maintenance requirements of steel structures to ensure durability and reduce life-cycle costs.
- Integration with Smart Technologies – Incorporating sensors and monitoring systems in steel structures to enable real-time data collection for predictive maintenance and performance optimization.

He concluded the presentation by highlighting practical measures to promote research in steel structures, which include:

- Strengthening collaboration between academia, industry, and research institutions.
- Encouraging government policies and funding for steel structure innovation.

- Promoting the use of smart design and digital fabrication techniques.
- Enhancing education and skill development in structural engineering research.
- Developing standardized guidelines for the implementation of advanced steel technologies.

5.4 Lecture 4: Data Driven Collaborative Planning in Lean Construction

Dr. Arun Chandramohan, Professor, National Institute of Construction Management and Research, Hyderabad, commenced the session with an insightful lecture on the topic "Data-Driven Collaborative Planning in Lean Construction". The lecture began with an introduction to Lean Construction, emphasizing its role in enhancing efficiency, reducing waste, and optimizing workflows in construction projects. The speaker highlighted that traditional construction planning methods often lead to inefficiencies, which can be significantly improved through data-driven decision-making and collaborative approaches.

He then explained the importance of integrating data analytics with Lean Construction principles, stating that real-time data and predictive analytics help in better resource allocation, project scheduling, and risk management. He stressed that collaboration among stakeholders, including architects, engineers, contractors, and clients, is essential for seamless project execution.

He further elaborated on the key aspects of data-driven collaborative planning, which include:

- Real-Time Project Monitoring – Utilizing sensors, IoT, and AI-driven tools for tracking progress and identifying delays.
- Predictive Analytics in Risk Management – Using historical data to anticipate and mitigate project risks.
- Integrated Digital Platforms – Implementing Building Information Modeling (BIM) and cloud-based tools for better coordination.
- Lean Workflow Optimization – Reducing non-value-adding activities through continuous process improvement.
- Stakeholder Engagement and Communication – Enhancing collaboration through transparent data sharing and synchronized decision-making.
- Resource Forecasting and Allocation – Leveraging data insights to accurately predict material and labor needs, minimizing waste and ensuring timely availability.
- Performance Benchmarking and KPI Tracking – Setting measurable performance indicators and

comparing them across projects to drive continuous improvement.

- Automation and Robotics Integration – Utilizing robotics and automated systems for repetitive or hazardous tasks, increasing safety and productivity.

5.5 Lecture 5: Key Performance Areas addressing the Sustainable Development Goals

Dr. Vikneswaran Munikanan, **Deputy Director, Academics, Universiti Pertahanan Nasioanal Malaysia,** started the session with his lecture on the topic "Key Performance Areas addressing the Sustainable Development Goals". He began the discussion by introducing the Sustainable Development Goals (SDGs), emphasizing their significance in addressing global challenges such as poverty, climate change, inequality, and environmental degradation. He highlighted that the 17 SDGs set by the United Nations provide a comprehensive framework for achieving a more sustainable and equitable future by 2030.

He further elaborated on the core principles of SDGs, stressing that their success depends on global cooperation, policy integration, and the active participation of governments, businesses, and communities.
He then outlined the key factors influencing the implementation of SDGs worldwide, which include:

- Policy Frameworks and Governance – Strong governmental policies are essential for effective SDG implementation.
- Technological Innovations – Advances in green energy, waste management, and smart infrastructure accelerate progress.
- Economic and Financial Investments – Sustainable financing and responsible business practices ensure long-term impact.
- Public Awareness and Education – Spreading knowledge about SDGs helps in community participation and behavioral change.
- Collaboration and Partnerships – Cooperation between countries, private sectors, and civil society is crucial for achieving SDGs.

He concluded the presentation by highlighting practical measures to achieve SDGs globally, which include:

- Strengthening international policies and regulations for sustainability.
- Encouraging businesses to adopt responsible and ethical practices.
- Enhancing access to clean water, healthcare, and quality education for all.
- Accelerating investments in renewable energy and low-carbon technologies.
- Fostering global cooperation to ensure a balanced and inclusive approach to sustainable development.

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Figure 5: Presenting shawl to Dr. Muhamad Azani Yahya, Associate Professor, Universiti Pertahanan Nasioanal Malaysia

Figure 6: Certificate Distribution to Participants

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Figure 7: Vote of Thanks by Mr. A. Sheik Farid, Assistant Professor(Sr.Gr.), Department of Civil Engineering, BSACIST

Figure 8: Valediction

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6. List of Participants

Sl. No.	Name	Educational Qualification / Designation	Institution / Industry
1	Anis syakirah binti ahmad shukri	Postgraduate Student	Uitm Shah Alam
2	Mr. Mohd nazri bin ngah	Postgraduate Student	Universiti Teknologi Mara
3	Faizah kamarudin	Postgraduate Student	Universiti Teknologi Mara
4	Cynthia mahadi	Research Scholar	Uitm Shah Alam
5	Abdul baqi bahij	Master Degree	Anna University
6	B.bharani baanu	Assistant Professor	Ramco Institute of Technology
7	M dhanush	B.E- Civil Engineering	Paavai Engineering College
8	Nor mayuze binti mohamad	Master in Civil Engineering	Univeriti Teknologi Mara (Uitm)
9	Mohammed asif m y	Sr. Design Engineer	L&T Construction
10	G.garmel shiney	Research Scholar	B. S. Abdur Rahman Crescent Institute of Science and Technology
11	S.mahalakshmi	Research Scholar	B. S. Abdur Rahman Crescent Institute of Science and Technology
12	Mohammed aqil z	M.Tech. CEPM	B. S. Abdur Rahman Crescent Institute of Science and Technology
13	Charumathi M	M.Tech. CEPM	B. S. Abdur Rahman Crescent Institute of Science and Technology
14	Shiek haseena i	M.tech. CEPM	B. S. Abdur Rahman Crescent Institute of Science and Technology
15	Hudson gnanadurai.c	M.Tech. Structural Engineering	B. S. Abdur Rahman Crescent Institute of Science and Technology
16	Mohamed zuhairudeen a	M.Tech. Structural Engineering	B. S. Abdur Rahman Crescent Institute of Science and Technology
17	Gokul prasadh n	M.Tech. Structural Engineering	B. S. Abdur Rahman Crescent Institute of Science and Technology
18	Derrick shalvin m	M.Tech. Structural Engineering	B. S. Abdur Rahman Crescent Institute of Science and Technology
19	Giri ravendar m	M.Tech. Structural Engineering	B. S. Abdur Rahman Crescent Institute of Science and Technology
20	D.lavanya	M.Tech. Structural Engineering	B. S. Abdur Rahman Crescent Institute of Science and Technology
21	C g lohith	M.Tech. Structural	B. S. Abdur Rahman Crescent

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		Engineering	Institute of Science and Technology
22	Waqas Ahmad sheikh	M.Tech. Structural Engineering	B. S. Abdur Rahman Crescent Institute of Science and Technology
23	Muhammad ibrahim	M.Tech. Structural Engineering	B. S. Abdur Rahman Crescent Institute of Science and Technology
24	Praveen j	M.Tech. Structural Engineering	B. S. Abdur Rahman Crescent Institute of Science and Technology
25	A.hrithik ramkumar	M.Tech. Structural Engineering	B. S. Abdur Rahman Crescent Institute of Science and Technology
26	Swetha S	Architect	B. S. Abdur Rahman Crescent Institute of Science and Technology
27	B. Balasubramanian	Project Engineer	B. S. Abdur Rahman Crescent Institute of Science and Technology
28	Kalusalingam k	Project Engineer	B. S. Abdur Rahman Crescent Institute of Science and Technology
29	Ansari abu usama abdul rahman	Research Scholar	B. S. Abdur Rahman Crescent Institute of Science and Technology
30	Saran.t	M.Tech. Structural Engineering	B. S. Abdur Rahman Crescent Institute of Science and Technology
31	Naveen.e	M.Tech. Structural Engineering	B. S. Abdur Rahman Crescent Institute of Science and Technology
32	Vishnu priya s v	B. Tech. Civil Engineering	B. S. Abdur Rahman Crescent Institute of Science and Technology
33	Aashiq T A	B. Tech. Civil Engineering	B. S. Abdur Rahman Crescent Institute of Science and Technology
34	Shaik davood	M.Tech. Structural Engineering	B. S. Abdur Rahman Crescent Institute of Science and Technology
35	Mohamed safwan.s	B. Tech. Civil Engineering	B. S. Abdur Rahman Crescent Institute of Science and Technology
36	Shaik huzafur rahman	B. Tech. Civil Engineering	B. S. Abdur Rahman Crescent Institute of Science and Technology
37	Mohammed aarief b	B. Tech. Civil Engineering	B. S. Abdur Rahman Crescent Institute of Science and Technology
38	D.m sanjana	B. Tech. Civil Engineering	B. S. Abdur Rahman Crescent Institute of Science and Technology
39	Bhupathirajan A P	B. Tech. Civil Engineering	B. S. Abdur Rahman Crescent Institute of Science and Technology

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40	Shameer m	B. Tech. Civil Engineering	B. S. Abdur Rahman Crescent Institute of Science and Technology
41	Jessica jenny james	M.Tech. Structural Engineering	B. S. Abdur Rahman Crescent Institute of Science and Technology
42	Prithik raman r	B. Tech in civil engineering	B. S. Abdur Rahman Crescent Institute of Science and Technology
43	Faizan ahmed mohammed aarif	PhD Pursuing, ME Structure, BE Civil	B. S. Abdur Rahman Crescent Institute of Science and Technology
44	Mohamed safwan. S	B. Tech. Civil Engineering	B. S. Abdur Rahman Crescent Institute of Science and Technology
45	Ragul kumar g	B. Tech. Civil Engineering	B. S. Abdur Rahman Crescent Institute of Science and Technology
46	Mohammed yaasin mazid	B. Tech. Civil Engineering	B. S. Abdur Rahman Crescent Institute of Science and Technology
47	Syed salavudeen	B. Tech. Civil Engineering	B. S. Abdur Rahman Crescent Institute of Science and Technology
48	Thameem aqshan v.m	B. Tech. Civil Engineering	B. S. Abdur Rahman Crescent Institute of Science and Technology
49	S. Mohamed mubarak	Project Manager	B. S. Abdur Rahman Crescent Institute of Science and Technology
50	Nithish kumar.v	B. Tech. Civil Engineering	B. S. Abdur Rahman Crescent Institute of Science and Technology
51	Arul ananth v	M.Tech - CEPM	B. S. Abdur Rahman Crescent Institute of Science and Technology

Figure 8: Sample Certificate

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7. Outcomes with SDG's addressed

- **Lecture 1 - Innovation in Blast-Resistant Concrete.**

→ **Outcome:** Promotes infrastructure resilience and safety through material innovation, directly supporting SDG 9 (Industry, Innovation and Infrastructure) and SDG 11 (Sustainable Cities and Communities).

- **Lecture 2 - Rapid Construction through Project Management.**

→ **Outcome:** Enables efficient resource utilization and time-bound delivery, aligning with SDG 8 (Decent Work and Economic Growth) and SDG 12 (Responsible Consumption and Production).

- **Lecture 3 - Need for Research in Steel Structures**

→ **Outcome:** Encourages sustainable design and long-lasting structures by advancing steel-based technologies, supporting SDG 9 (Industry, Innovation and Infrastructure) and SDG 13 (Climate Action).

- **Lecture 4 - Lean Construction with Data-Driven Planning**.

→ **Outcome:** Reduces waste and optimizes workflows, leading to minimal environmental impact and improved productivity — contributing to SDG 12 (Responsible Consumption and Production) and SDG 11 (Sustainable Cities and Communities).

- **Lecture 5 - Key Performance Areas addressing the SDGs**

→ **Outcome:** Together, the areas of focus contribute to creating a built environment that is resilient, efficient, inclusive, and sustainable, supporting the achievement of SDGs 6, 7, 9, 11, 12, and 13.

Co- coordinator
Mr. A. Sheik Farid, Asst. Prof. (Sr. Gr.)

Coordinator
Dr. P. Gajalakshmi, Professor

Convener
Dr. M. S. Haji Sheik Mohammed
Dean(School of Infrastructure)