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A Report on
"Outreach Program - Dr.B.R Ambedkar Gurukulam Girls Burakayalakota"
Visited by
Department of Civil Engineering
on 08.09.2025

Faculty Visited: Dr. Nakkeeran G, Asst. Professor, Department of Civil Engineering; Dr. Priyam Nath Bhowmik, Asst. Professor, Department of Civil Engineering; Mr. Imran Kuttagola, Asst. Professor, Department of Civil Engineering.
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Mode of Conduct: Offline.

Objective of the Outreach Programme

The primary objectives of the Outreach Programme at *Dr. B.R. Ambedkar Gurukulam Girls School, Burakayalakota* were:

1. To promote scientific awareness and innovation among school students through interactive sessions and demonstrations.
2. To introduce the concept of Design Thinking as a creative approach to problem-solving and innovation.
3. To motivate and inspire school students to pursue higher education in science, technology, and engineering fields.
4. To strengthen the social responsibility and leadership skills of Civil Engineering students through community engagement.
5. To align institutional outreach activities with the United Nations Sustainable Development Goals (SDGs), particularly SDG 4 (Quality Education), SDG 9 (Industry, Innovation & Infrastructure), SDG 10 (Reduced Inequalities), and SDG 17 (Partnerships for the Goals).

The Department of Civil Engineering, MITS, organized an Outreach Programme at Dr. B.R. Ambedkar Gurukulam Girls School, Burakayalakota, with the active participation of students from II year, III year, and Final year B.Tech Civil Engineering. The objective of this initiative was to foster community engagement, inspire young learners, and promote a culture of scientific thinking and innovation.

Programme Highlights

- The team was warmly welcomed by the school authorities, and interactive sessions were held with the students.
- Participants were introduced to the Design Thinking Lab present at the school. This lab provides a creative space for students to explore innovation and problem-solving. Our department highlighted the role of design thinking in addressing real-world challenges through creative solutions.
- Discussions focused on innovation, science, sustainability, and creativity, helping the school children understand how scientific knowledge can be applied to everyday life.
- Our Civil Engineering students engaged the school children in motivational talks and demonstrations, encouraging them to explore innovation-driven learning and to think beyond traditional approaches.

Alignment with SDG Goals

This outreach programme contributed to the achievement of several **United Nations Sustainable Development Goals (SDGs):**

- **SDG 4 – Quality Education:** By promoting creativity, innovation, and hands-on learning among school students.
- **SDG 9 – Industry, Innovation, and Infrastructure:** By introducing the importance of design thinking and innovation in solving practical problems.
- **SDG 10 – Reduced Inequalities:** By reaching out to rural school students and encouraging equal opportunities in education and innovation.
- **SDG 17 – Partnerships for the Goals:** By fostering collaboration between higher education institutions and local schools for mutual growth.

Outcomes of the Programme

- Created a platform for mutual learning between engineering students and school children.
- Enhanced our students' sense of social responsibility, leadership, and community service.
- Motivated Gurukulam students to pursue careers in science, technology, and engineering, while instilling the spirit of innovation.
- Strengthened the institution's commitment to aligning educational initiatives with global SDG targets.

The Outreach Programme at Dr. B.R. Ambedkar Gurukulam Girls School was a fruitful and impactful initiative that combined community service with academic engagement. By introducing the Design Thinking Lab and linking innovation to the SDG goals, the programme successfully inspired both our Civil Engineering students and the school children to embrace creativity, sustainability, and problem-solving skills for a better future.

Programme Outcomes (POs) Achieved

PO 2 – Problem Analysis, PO 3 – Design/Development of Solutions, PO 6 – The Engineer and Society, PO 9 – Individual and Team Work, PO 10 – Communication, PO 12 – Life-long Learning.

Knowledge Outcomes (KOs)

As a result of this programme, the following Knowledge Outcomes (KOs) were achieved:

KO 1 – Scientific Awareness: School students gained exposure to science and innovation concepts beyond classroom learning.

KO 2 – Design Thinking Skills: Students were introduced to the role of design thinking in creative problem-solving.

KO 3 – Innovation Culture: Encouraged both MITS and Gurukulam students to think critically and generate innovative ideas.

KO 4 – Social Responsibility: Civil Engineering students recognized the importance of extending their knowledge for the benefit of society.

KO 5 – SDG Alignment: The programme demonstrated how local outreach activities can contribute to global goals such as SDG 4 (Quality Education) and SDG 9 (Innovation & Infrastructure).