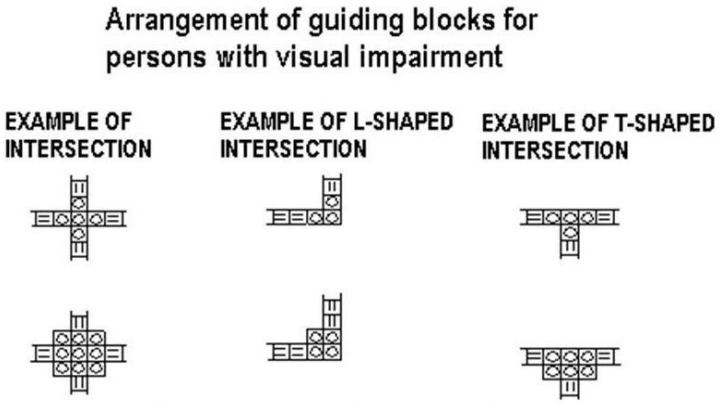
DEPARTMENT OF CIVIL ENGINEERING

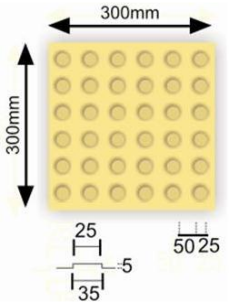
Brief Report on Expert Lecture on "Differently Abled Friendly Construction" held on 14th September 2022

In compliance with Sustainable Development Goal (SDG 10 - Reduce Inequality) the Departmental Quality Assurance Cell (DQAC) of Civil Engineering Department organized an expert lecture on "Differently Abled Friendly Construction" held on 14th September 2022 from 11:30AM – 12:30PM in lecture theater F020, ground floor of Civil Engineering Department, Integral University, Lucknow.

The speaker of the day was Er. Zishan Raza Khan, Associate Professor, Department of Civil Engineering, Integral University, Lucknow. Er. Zishan Raza Khan articulated about the harmonized guidelines and space standards for barrier-free built environment for persons with disability and elderly persons. He expounded that a The PWD (Equal Opportunities, Protection of Rights, and Full Participations) Act, 1995 mandates that persons with disabilities be provided with equal opportunities and protects their rights to full participation. This, therefore, requires that spaces be designed to suit the needs of all persons with disabilities. Also, Model Building Bye-Laws, 2015 mandate that barrier free environments are maintained to ensure inclusive cities and universal designs.

Furthermore, he emphasized that the objects projecting with the lower edge of the projection at or below 300 mm and upper edge of the projection minimally 1200 mm above the finished walk surface should be detectable by the white cane, and these may protrude into the walks to an extent that allows wheelchair passage. Objects mounted with their leading edges between 300 mm and 2200 mm above the finished walk surface should not protrude more than 100 mm into the walks. He also enunciated that the Handrail Design should be slip-resistant with round ends; have a circular section of 38-45 mm in diameter. It should have a minimum clear space of 50 mm from the walls be free of any sharp or abrasive elements; and have continuous gripping surfaces, without interruptions or obstructions that can break a hand hold.





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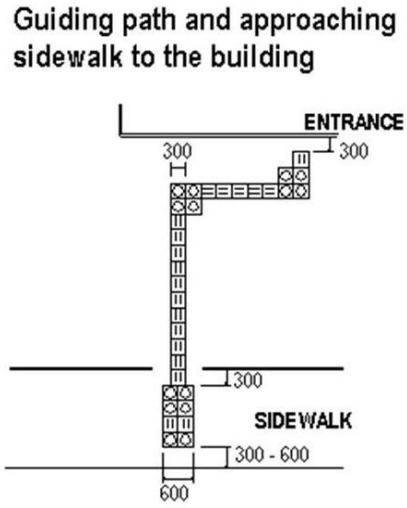

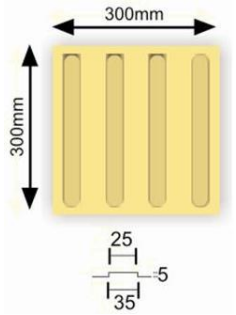

Guiding blocks

Lastly, he suggested that the designs must be barrier-free – think of any barrier, and engineers can make it accessible He concluded his session by stating the fact that it is the responsibility of every person to enable a disable.

Twenty Three students participated in this expert lecture along with departmental faculty members and staff.

Dr. Neha Mumtaz, Assistant Professor, proposed the vote of thanks at the end of the event.