



Learn Beyond

**KPR Institute of
Engineering and
Technology**

(Autonomous, NAAC "A")

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Phone: 0422-2635600**Web:** kpriet.ac.in**Social:** kpriet.ac.in/social**CE001****NBA Accredited**
(CSE, ECE, EEE,
MECH, CIVIL)**GUEST LECTURE ON THE TOPIC "APPLICATIONS OF GIS IN HIGHWAY PLANNING"**

Event No	CE001
Organizing Department	Civil Engineering
Associate Dept. NSC	Centre of Excellence
Date	01/03/2024
Time	11:00 AM to 12:45 PM
Event Type	Guest Lecture
Event Level	Dept. Level
Venue	II CE
Total Participants	79
Faculty - Internal	2
Students - Internal	77

Related SDG**Resource Persons**

Sl	Type	Name	Designation	Company	Email	Phone
1	Resource Person	Dr A Gandhimathi	gandhimathi.a.ce@kct.ac.in	Kumaraguru College of Technology, Coimbatore	gandhimathi.a.ce@kct.ac.in	xxxxxxxxxx

Involved Staffs

Sl	Name	Role
1	Coordinator	Logeswaran S

Outcome

Students were able to learn the basics concepts of Google earth and ArcGIS software

Event Summary

The session commenced with an introductory exploration of Google Earth software and its applications in Civil Engineering, focusing on location selection and fundamental measurements like lines, polygons, distance calculations, and area measurements. A layer was generated to assess the total infrastructure area, enlightening students about Google Earth's measurement capabilities. Subsequently, a foundational overview of ArcGIS software was provided, detailing commands, shortcuts, and keys. This was followed by importing a simple raster layer map to pinpoint bus stop locations along a designated route. Utilizing modern tools such as aerial photography, drone technologies, and satellite imagery, digitization was executed. Ultimately, a comprehensive report encapsulating the analysis findings was crafted in a Word document, unveiling the novelty of the insights garnered. This immersive program equipped students with a holistic understanding of software accessibility, empowering them for future projects and innovations within the realm of Geographical Information Systems. Given the nascent nature of this technology, the program's insights offer invaluable perspectives for future endeavors. Moreover, its applicability extends to highway planning and alignment, further enriching students' skill set in practical contexts.



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