



**VISHWAKARMA GOVERNMENT ENGINEERING COLLEGE,
CHANDKHEDA**

An Expert lecture by Mr.Anil Gupta on “Artificial Intelligence and Machine Learning in Civil Engineering”

Name of Department	:	Civil Engineering Department, VGEC
Name of Event	:	An Expert lecture on “Artificial Intelligence and Machine Learning in Civil Engineering”
Coordinator	:	Dr.P.P.Lodha Prof.K.M.Parmar
Invited Guest (If any)	:	Mr.Anil Gupta, Co-Founder, Magnos Technologies LLP, Noida, India.
Date & Time	:	18/10/2020, 01:15 PM
Venue	:	Online Mode (Google Meet)
No of Participants	:	53

• **Objective of the Event**

The objective of the expert talk was to guide the final year UG students of Civil Engineering Department for better understanding of use of AI & ML in Civil Engineering.

• **Outcome of the Event**

Following topics were discussed in the expert talk:

1. Basic understanding of Artificial Intelligence and Machine Learning.
2. Application of AI.
3. AI application in Civil Engineering
4. Common Civil Engineering Problems.
5. AI & ML for smart construction.
6. AI in various field of Civil Engineering.

• Event Photographs

REC Dr Pradeep Lodha is presenting 1:45 PM

AI Applications

- Expert Systems**
Examples - Flight-tracking systems, Clinical systems.
- Natural Language Processing**
Examples: Google Now feature, speech recognition, Automatic voice output.
- Neural Networks**
Examples - Pattern recognition systems such as face recognition, character recognition, handwriting recognition.
- Robotics**
Examples - Industrial robots for moving, spraying, painting, precision checking, drilling, cleaning, coating, carving, etc.
- Fuzzy Logic Systems**
Examples - Consumer electronics, automobiles, etc.

Participants: Dr Pradeep Lodha, Chaudhari Kartik, Jigar Raval, Dharmendra Prajapati, Khushboo Parmar, Anil Gupta, Saloni Modi, bhavya shah, Anja Bhamhani.

REC Dr Pradeep Lodha is presenting 1:48 PM

New Technology adoption in Civil Engg.

Technologies that have the highest adoption rates in the top 20% of companies (considered innovative leaders), are as follows:

- Construction management
- building materials,
- hydraulic optimization
- Geotechnical engg.
- and Transportation engineering
- Building Information Modeling (BIM): 86%
- Basic data analytics: 83%
- Project management and information systems: 79%
- Drones: 72%
- Mobile platforms: 69%

Participants: Dr Pradeep Lodha, Nik Modi, Jigar Raval, Dharmendra Prajapati, Khushboo Parmar, Anil Gupta, Saloni Modi, bhavya shah.

Expert Lecture on "AI and ML in Civil E..."

Dr Pradeep Lodha