



## Jawaharlal Nehru Technological University Kakinada

www.jntuk.edu.in

### One week Faculty Development Program

### Hands-on Training on

### Google Earth Engine for Geospatial Technology

(GEE4GT-2024)

22<sup>nd</sup>- 27<sup>th</sup> April 2024

Organized by

**Directorate of Faculty Development Centre**

Jawaharlal Nehru Technological University Kakinada

Conducted by

**Department of Civil Engineering**

University College of Engineering Kakinada (A)

Jawaharlal Nehru Technological University Kakinada

Kakinada-533003, Andhra Pradesh, India.

### JNTUK, Kakinada

The temple of learning, “The College of Engineering, Vizagpatnam” located at Kakinada was established in 1946 as constituent College of Andhra University, Waltair, in the composite state of Madras. Then, this College became a constituent College of Jawaharlal Nehru Technological University Hyderabad in 1972 through an Act of Legislature and was bestowed with an autonomous status in the year 2003. Subsequently this College was elevated as JNTU Kakinada in 2008 on a sprawling campus of 110 acres through an Act of AP Legislature. JNTUK is comprised of two constituent colleges viz., University College of Engineering Kakinada (UCEK), University College of Engineering Narasaraopeta (UCEN) and other units viz., Institute of Science and Technology (IST) & School of Management Studies (SMS) offering multi/inter-disciplinary programmes and International collaborative programmes (ICP).

### University College of Engineering Kakinada (A)

The University College of Engineering Kakinada is accredited by NBA. The College of Engineering is governed by the rules and guidelines provided by the University from time to time. The Principal, as an administrative and academic head of the College; is assisted by Vice-Principal and College Academic Committee in academic matters and a Deputy Registrar and office staff in administrative matters. The day-to-day activities of the college are carried out by budgetary allocation from the University funds. The college won appreciation for judicious effective utilization of TEQIP - I funds and has been under TEQIP - II, with academic milestones to be scaled.

### Department of Civil Engineering, UCEK (A)

The Department of Civil Engineering, University College of Engineering, Kakinada, JNTU Kakinada has contributed many a stalwart to serve the mankind all throughout the world through its committed academic legacy. Both the Department of Civil Engineering and its alumni are mutually proud of their achievements. The Department offers both Under Graduate and Post Graduate programmes. The Department is known for organizing academic interactions through conferences, seminars, symposiums and workshops.

### GEE4GT - 2024

Google Earth Engine (GEE) which provides an online platform that can be used to access, visualize, and analyse those data within google cloud, making life easier for remote-sensing data analysts. Applications of GEE include, but are not limited to: mapping forest cover, detecting deforestation, classifying land cover, estimating forest biomass and carbon, mapping urban area expansion, population mapping, changes in agricultural production and forecasting, and rangeland dynamics. Scientists and Researchers use Earth Engine for Agriculture, Forests, Urban, Health, Groundwater, Surface Water, River Morphology, GPS, LU/LC, Weather Data, Image Processing to name a few.

GEE4GT-2024 is the First of its Workshop organized by Directorate, Faculty Development Centre, JNTUK and Conducted by the Department of Civil Engineering, UCEK(A), JNTUK.

## Course learning Objectives

This course is designed to make the participant,

1. Understand what Google Earth Engine provides and its applications.
2. Learn how to search for, import, manipulate, and visualize Google Earth Engine Data.
3. Learn about some real-world applications of Google Earth Engine in the geosciences.

## Course content

- Introduction to Geospatial Technology
- Hands-on with Geospatial Data
- Introduction to Google Earth Engine
- Hands-on with GEE

## Course Outcomes

Upon successful completion, the participant shall be able to;

1. understand the Geospatial data and its significance.
2. access and analyse geospatial data from Remote Sensing domain.
3. understand the interface and accessibility of Google Earth Engine for Spatial data.
4. apply the geospatial methods using Google Earth Engine.

## ORGANIZING COMMITTEE

### Chief Patron

**Dr. G.V.R. Prasada Raju**

Hon'ble Vice Chancellor

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Faculty Development Centre

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Professor of Geology,  
Dept. of Civil Engg., UCEK(A)  
Head, School of Spatial IT, IST

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**Dr. D. Koteswara Rao**

Professor & Head

Dept. of Civil Engineering, UCEK(A)

### Coordinator

**Mr. K. Srinivas**

Assistant Professor (c)  
School of Spatial IT, IST

## Additional information

Course Registration	: limited to max. of 50 participants.
Order of Priority	: 1. Teaching Faculty, 2. Research Scholars 3. PG Students
Disciplines relevant to	: Civil Engineering, ECE, CSE/IT, Remote Sensing, Geomatics/GeoEngg., Environmental Engg.,
Pre-requisite	: Basic knowledge in Remote Sensing & GIS.
Accommodation	: On-Campus

**NOTE** : Participants are requested to bring their own Laptop.

## Online Registration

Online-Registration form is available at university web notifications.

[www.jntuk.edu.in](http://www.jntuk.edu.in)

or use following link to visit Online-Registration form

<https://forms.gle/XYdY2hHqtdpz2mgN7>

- Download the DECLARATION FORM.
- Duly fill the Declaration form & get attested by respective In-charge / HOD.
- Upload necessary documents in the Online Registration Form.
- Fill the Online Form and submit your details for registration.

Online Registration will be active **till 19-04-2024 till 5:00 PM**

Course registration acceptance/confirmation **on 20-04-2024**

For any enquiry, contact via e-mail: [gee4gt.2024@gmail.com](mailto:gee4gt.2024@gmail.com)

## How to reach JNTUK campus

Kakinada is well connected to other major cities of the country via regular buses and trains from other major cities. Nearest airport connected to Kakinada are Rajahmundry (RJA) at 65 km away, and Visakhapatnam (VTZ) at 173 km away.

University campus is located on Kakinada-Pithapuram road, well connected from APSRTC Bus-stand & Kakinada Town (CCT) Railway station in around 3 kms.



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22<sup>nd</sup> - 27<sup>th</sup> April 2024

### Organized by

#### Directorate of Faculty Development

Jawaharlal Nehru Technological University Kakinada  
Kakinada-533003, Andhra Pradesh, India

### Conducted by

#### Department of Civil Engineering

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Jawaharlal Nehru Technological University Kakinada  
Kakinada-533003, Andhra Pradesh, India

### Declaration Form

\_\_\_\_\_

Title

\_\_\_\_\_

Name of the Participant

Designation \_\_\_\_\_

Institution Address \_\_\_\_\_

\_\_\_\_\_ PIN \_\_\_\_\_

Phone \_\_\_\_\_ Email ID \_\_\_\_\_

Write your desired objectives for attending this workshop

( Signature of the Participant )

### Recommendation of HOD / In-charge:

The participant as mentioned is deputed to **attend Hands-on Training on Google Earth Engine for Geospatial Technology (GEE4GT-2024)**, scheduled to be conducted during **22nd - 27th April 2024** at University Campus of JNTUK, Kakinada-533003, Andhra Pradesh, INDIA.

HOD / In-charge

Signature :

Official Seal :