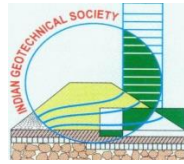




KKR & KSR INSTITUTE OF TECHNOLOGY & SCIENCES
(Accredited by NBA | "A" Grade by NAAC | Approved by AICTE, New Delhi | Affiliated to JNTUK, Kakinada)
Vinjanampadu (Vil), Vatticherukuru (Md), Guntur (Dt), A.P. India -17.



IGS-STUDENT CHAPTER

A Webinar Lecture on **Remote Sensing, GIS and DEM for Water Resources Assessment**

By

Prof. D. Nagesh Kumar
Dept. of Civil Engg.
Indian Institute of Science, Bangalore

Date: 10-06-2020, 06:00pm Ist

Organized by
Department of Civil Engineering

KITS Organized by IGS Student chapter
Department of Civil Engineering
KKR & KSR Institute of Technology & Science
(KITS), Vinjanampadu, Guntur, A.P.

Live Speaker

Webinar Lecture on
"Remote Sensing, GIS & DEM for
Water Resources Assessment"

Time: 10th June, 2020
@ 06:00 PM India

Dr. D. Nagesh Kumar
Professor
Department of Civil Engineering
Indian Institute of Science
Bangalore, India.

Join Zoom Meeting
Meeting ID: 853 5585 9320
Password : 051157

**Remote Sensing, GIS and DEM
for Water Resources Assessment**

Prof. D. Nagesh Kumar
Prof. Satish Dhawan Chair Professor
Dept. of Civil Engg.
Indian Institute of Science, Bangalore
URL: <http://www.civil.iisc.ac.in/~nagesh>
Acknowledgements: Dr A Anandhi & Prof V V Srinivas

e-POSTER

TOPIC

The IGS- Student Chapter of Department of Civil Engineering has conducted a webinar lecture on **Remote Sensing, GIS and DEM for Water Resources Assessment** on 10th June 2020. The lecture was delivered by Dr.D.Nagesh Kumar, Professor, Department of Civil Engineering, Indian Institute of Science, Bangalore.

In this webinar lecture more than 200 participants have attended from various institutes and industry. The participants gained knowledge in assessing water resources using DEM.

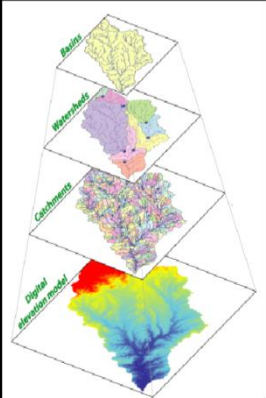
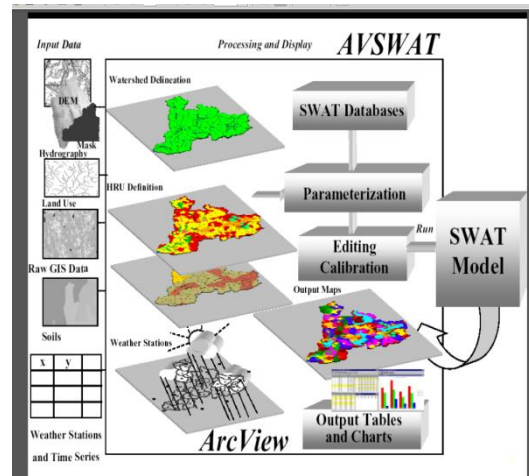
In his lecture Dr.Nagesh demonstrated integration of RS, GIS, DEM and Hydrological Models. He also covered AVSWAT analysis on Malaprabha River Basin.

Terrain Attributes from DEM

- Flow direction
- Flow pathways
- Flow accumulation
- Stream network
- Catchment area
- Upstream contributing area for each grid cell
- Slope/ Aspect

Indices calculated

- Wetness indices
- Topographic indices

He concluded that there is a Strong potential for use of RS, GIS & DEM for Modeling water resources planning and management. Also he said, proper image processing of remotely sensed data, DEM and Spatio-temporal analyses with GIS would be very effective for Water Resources Assessment & Management.

The webinar took place in online platform. After the lecture Dr. Nagesh Kumar answered a few questions posted by the participants.

