

	Vidya Pratishthan's Kamalnayan Bajaj Institute of Engineering & Technology, Baramati 2023-24	 
	Department of Civil Engineering	
	Report on Guest Lecture conducted	

Details of Guest:	Er. Mahesh Shelke , B.E (Civil Engg.), M.E(Water resources & Environmental engg), Ph.D. (Pursuing): UG Alumni of VPKBIET Baramati Urban drainage network modeler, Stantec Resource Net Pvt. Ltd, Pune
Topic for Lecture	"Opportunities in the field of Water Resources and environmental engineering (considering broad aspects- MNC's) & Urban drainage modelling"
Type (online /offline), Location	Online: zoom meeting
Class and Semester	BE Civil, 2019 Pattern (Sem:VII) and Alumni
No. of Participants:	51
Date of Lecture:	23 rd Sept. 2023, Saturday
Time & duration	betn 9:30 am to 10:30 am (1 hour)
Course (Subject)	Airport and Bridge Engineering (Elective -IV) 401004 d
Guest lecture organized under	Center of excellence 'Town and Country Planning'
Guest lecture organized by	Prof. D. G. Patil, Department of Civil Engineering
Link of recorded session / remark	https://youtu.be/CINKYYyi3a8
Link for report	https://www.vpkbiet.org/dept_Civil.php
Objective of session	As a content beyond syllabus and for exposure to latest softwares used in Industry and opportunities to students in water resources engg field



Department of Civil Engineering

under center of Excellence 'Architecture and Town Planning'

Is organizing an expert lecture as a part of 'Alumni / experts talk series' on

"Opportunities in the field of Water Resources and environmental engineering (considering broad aspects - MNC's) & Urban drainage modelling"

For BE Civil Engg students and Alumni



GUEST

Er. Mahesh Shelke

B.E (Civil Engg.), M.E(Water resources & Environmental engg), Ph.D. (Pursuing)

Urban drainage network modeler, Stantec Resource Net Pvt. Ltd, Pune



Date: 23 Sept. 2023, Saturday

Time: 9:30 am to 10:30 am

Short report on guest lecture conducted on 23rd Sept. 2023, Saturday by Er. Mahesh Shelke

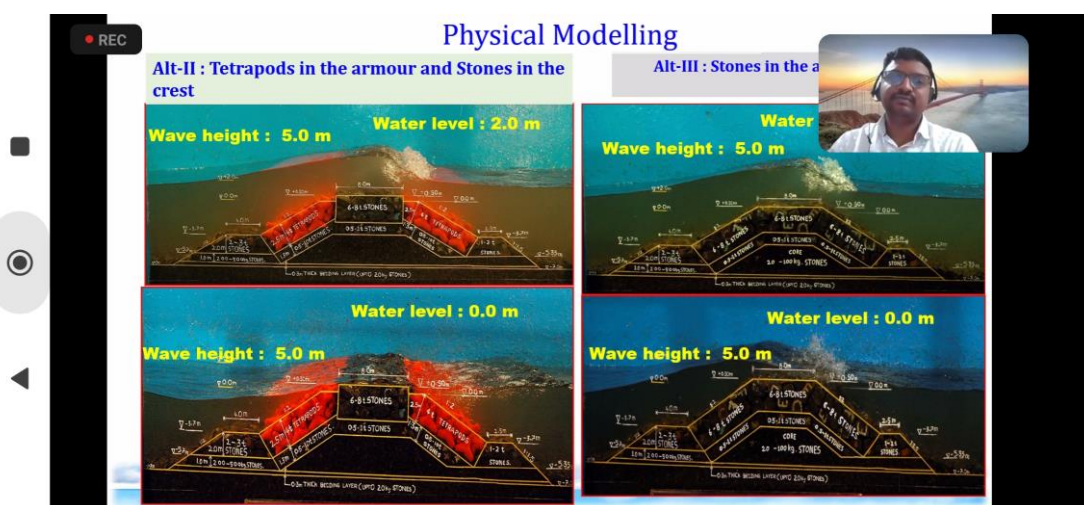
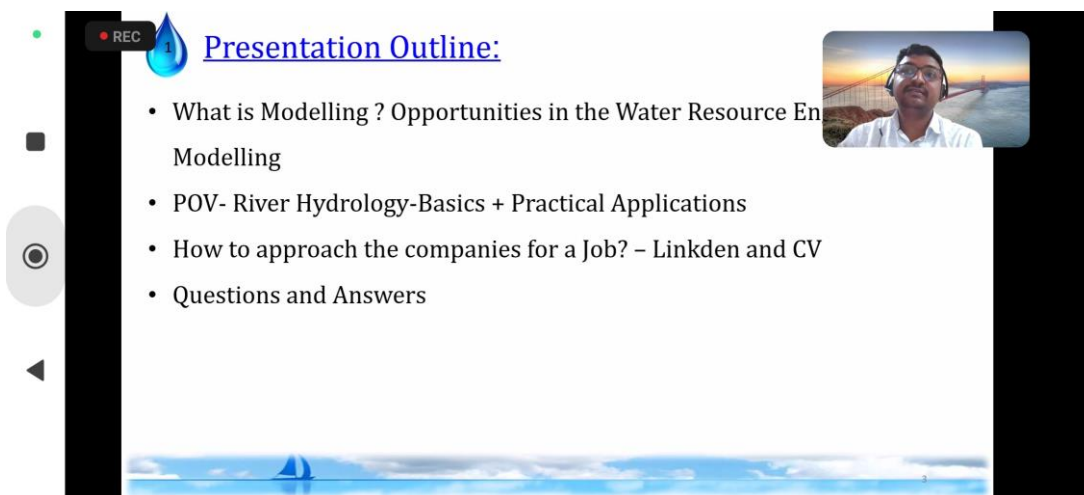
Dept of Civil Engineering of VPKBIET Baramati has organized a session of Er. Mahesh Shelke for Engineering students and Alumni on 23rd Sept. 2023, Saturday betn 9:30 am to 10:30 am on topic “**Opportunities in the field of Water Resources and environmental engineering (considering broad aspects- MNC’s) & Urban drainage modelling**” '. He explained opportunities in the area of water resources and explained important softwares and he also motivated students for academic preparation and participation in different activities.

This expert lecture was conducted under centre of Excellence ‘Architecture and Town Planning’ as a part of ‘Experts Talk series’.

Outcome: He explained importance drainage of Infrastructure projects and planning for it considering the subject **Elective IV: Airport and Bridge Engineering of BE** and explained some applications, terms which are beyond the syllabus. This session was very much interesting and students came to know the latest softwares used for design of urban drainage network modelling. He explained opportunities available in water resources engineering for students.

Relevance to program outcomes: PO1, 2, 3, 4, 5,6, 8, 9 ,12

Some photos taken during the session:



REC

Mumbai- Outfall-Tidal Inflow



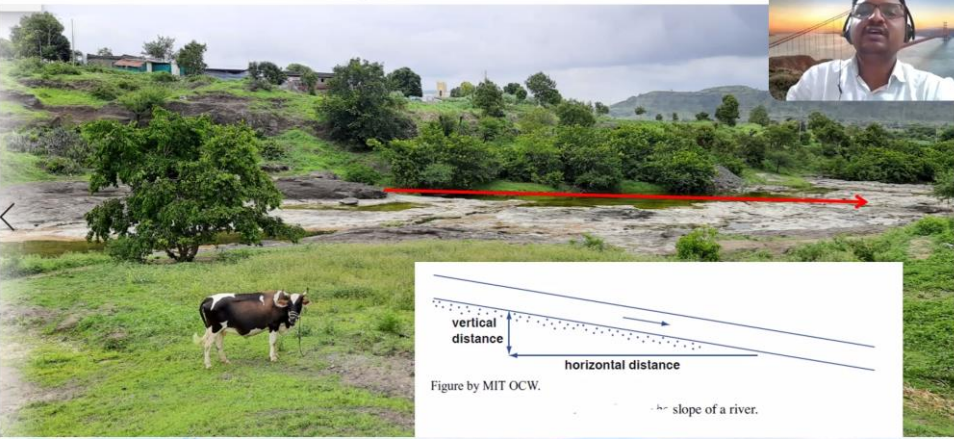
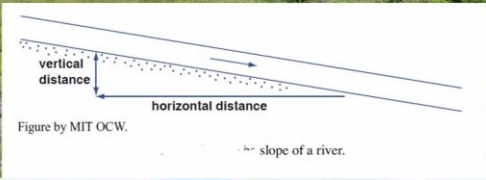




Mahe... Shelke's screen

REC

Slope of The River

vertical distance

horizontal distance



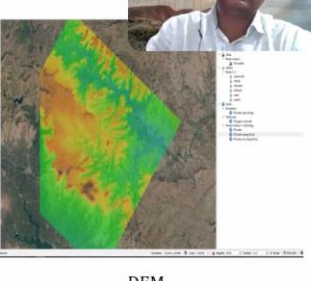
Figure by MIT OCW.

$s = \frac{h}{L}$ slope of a river.

22

REC

Toposheet and DEM-Digital Elevation Model

Google Earth View

Toposheet
From Survey of India

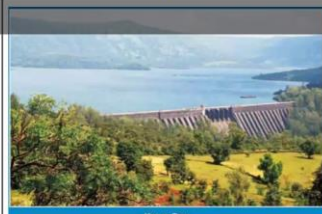
DEM
From Bhuvan

30

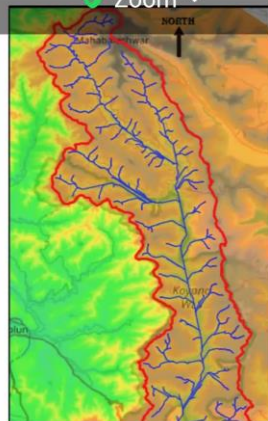
Case Study on Catchment Delineation by QGIS- Koyna River Basin



REC



Koyna Dam



Leave

How to download DEM data for Region in India?

https://bhuvan.nrsc.gov.in/bhuvan_links.php#



Maresh S

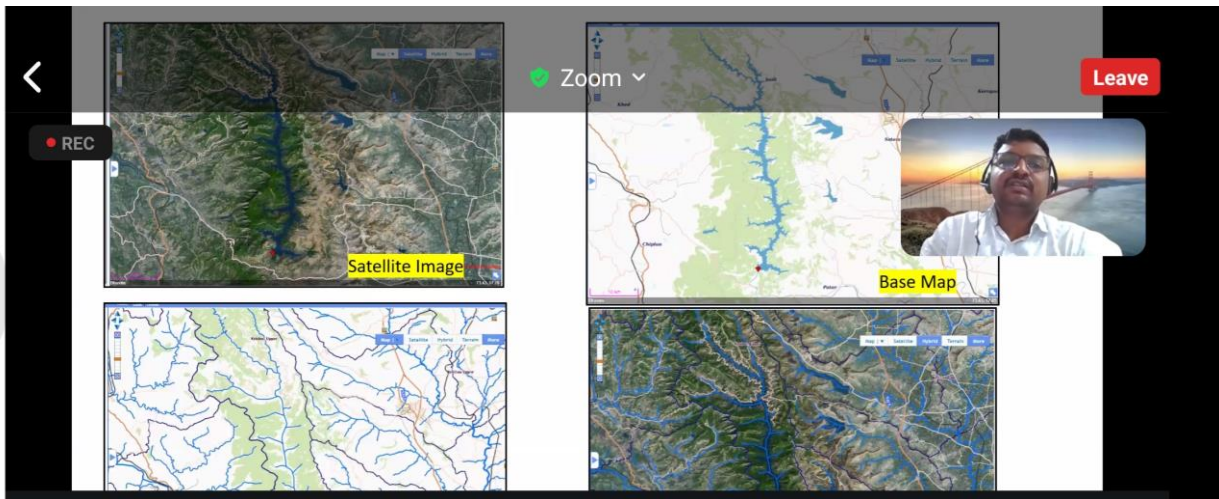
screen



REC



Leave



Once you finalise domain – e.g. River Modelling

Work on the Open Source Software's

QGIS 3.22 Białowieża

RAS

HEC-ResSim
Version 3.1
May 2013
Hydrologic Engineering Center
Institute for Water Resources
US Army Corps of Engineers
859 Second Street
Davis, CA 95616
www.hec.usace.army.mil

National Water Academy
Training for Excellence

Home Faculty Training Campus Photo Gallery Contact Us

National Water Academy

National Water Academy (formerly known as Central Training Unit) was set up in Central Water Commission by the Ministry of Water Resources, RD and GR Govt. of India in the year 1988, to impart training to the in-service engineers of various Central/State organizations involved in the Development & Management of Water Resources. It was established under USAID assistance and strengthened with the subsequent assistance received from the World Bank.

The NWA is envisaged to function as a 'Center of Excellence' in training water resources personnel. It is addressing the wider training needs of water resources engineers of States and Central Agencies in the fields of planning, design, evaluation, construction, operation and monitoring of water resources projects. In its national role, the NWA is concentrating on conducting training courses for all water sector personnel, in the specialized and emerging areas, for which the existing State or other institutes are not adequately equipped to meet the needs. Apart from this, in regard to the Central Water Commission, other offices of the Ministry of Water Resources, and for States not having adequate training facilities, it is conducting induction and refresher courses in all relevant areas of the water sector.

Maresh Shetke's screen

Training programs of NWA are also open to participants from recognized academic

Participant's Corner

Ongoing / Upcoming Events
Participant's Guide
Know Your Water App
Training Calendar
Training Material
Special Events
DL Modules

Accepted Nominations

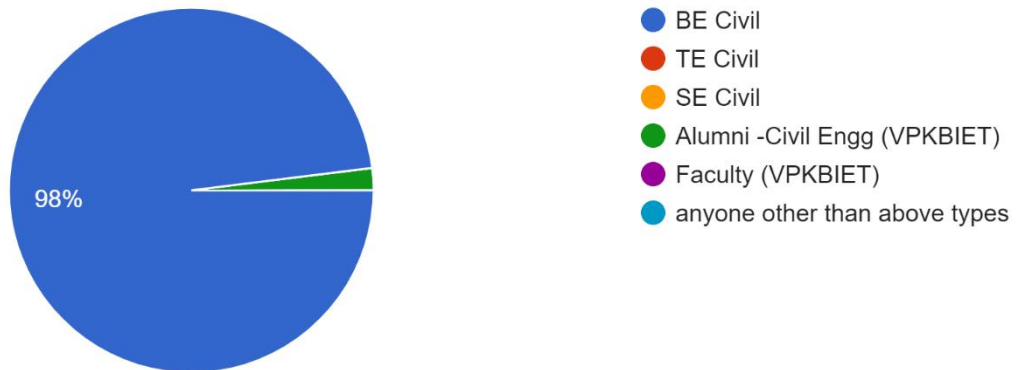
ITP-Gr.A
School Teachers
MDP-NonTech

Contacts

Feedback analysis:

Class/ Type of participant

51 responses



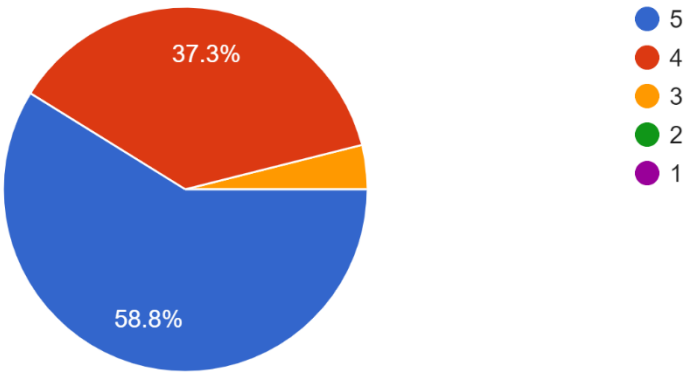
Whether today's session was informative ?

51 responses



How would you rate today's session on the scale of 5 to 1 (5=Best and 1=Poor)?

51 responses



What did you learn from this expert talk?

51 responses

- Found very relevant and important information. About water reservoirs and urban drainage system
- To improve skills
- There are so many opportunities related to civil engineering branch.
- Flood Information
- Information about hydraulic modelling
- To get a information about the HEC-RAS, Qgis etc. software.
- The talk was very informative and very useful with career perspective.
- Great lecture which can help me in future.
- opportunities in field of water resources