

Academic Year 2022-23 (Odd Semester)

Details of Programme Organized

SLNO	Contents	Details
1.	Title of the programme	MECHANICS 2.0: INTRODUCING PYTHON COMPUTATION IN MECHANICS TEACHING
2.	Programme Theme	Innovative Teaching
3.	Programme Type	Webinar
4.	Details of Resource Person	Dr. Abhijit Sarkar, Professor, Department of Mechanical Engineering, Indian Institute of Technology, Madras
5.	Mode & Venue / Platform	Google Meet http://meet.google.com/vbn-dizu-zkh
6.	Date & Duration	20.12.2022 & 1 hour 15 minutes
7.	No. of Student Participants	44
8.	No. of Faculty Participants	17
9.	No. of External Participants	69
10.	Expenditure Amount (if any)	Nil
11.	Registration Link	https://tinyurl.com/Python-Computation-Mechanical

12. Objective of the Programme:

- To enhance the knowledge in Python programming applied in Mechanical Engineering.
- To use Python to solve and analyze engineering problem
- To use Python for Data Analysis
- To use of Python in Simulation Softwares.

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13. Detail Description of the activity:

Extramural lecture series (ELS)- NT009- Online webinar titled "MECHANICS 2.0: INTRODUCING PYTHON COMPUTATION IN MECHANICS TEACHING" was organized by Department of Mechanical Engineering, Ramco Institute of Technology, Rajapalayam on 20.12.2022 (Tuesday). The main objective of these ELS is to impart knowledge about Python programming to solve and analyze engineering problem.

Dr. Abhijit Sarkar, Professor, Department of Mechanical Engineering, Indian Institute of Technology, Madras acted as a resource person for this programme.

Mr.R.Prabhakaran, AP/Mech delivered welcome address and Mr.J.Jerold John Britto, AP(SG)/Mech introduced the resource person of this event. He detailed about the schedule of event.

The resource person explained the following Concept

- Classical Mechanics 2.0
- Glorious past vs challenging Present
- Flavour of the session
- Computation in Mechanical Engineering
- Advantages of Jupyter
- Beyond FEM & CFD

The Resource person demonstrated the computational approach for teaching mechanics, Python through Jupyter Notebook and how the students get attracted by the tools and enhance their employability. He conclude his session with through a detailed calculation, it can be checked that there are two dominant frequencies conforming to the two natural frequencies. At the end of the session participants clarified their doubts. Mr.L.Karthikeyan, AP/Mech acted as a moderator for the session and Dr.V.Sivakumar, ASCP/ Mech, delivered vote of thanks for this program. Mr.R, Venkatesh, Mr.M.Ramar and Mr. S.Kathiravan acted as a coordinators.

Totally, there are 162 registrations are received across all major cities of our state and few are from other states also. Out of which 130 participants from various engineering college faculties, Research Scholar and Students actively participated in this programme via Google Meet Platform. All the Participants received their certificate after they completed all procedures

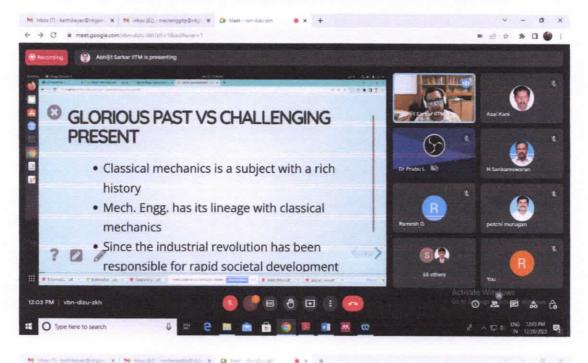
14. Banner / Flyer of the Programme:

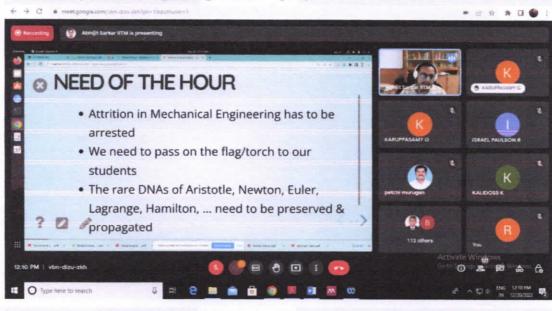


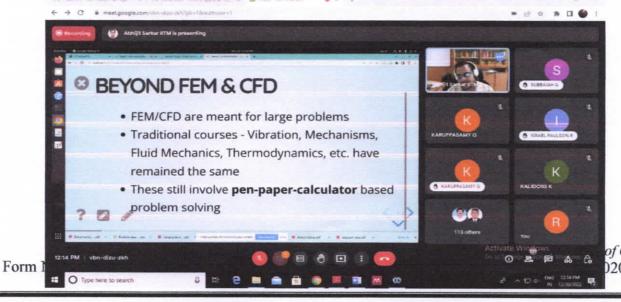
15. Programme Photographs:

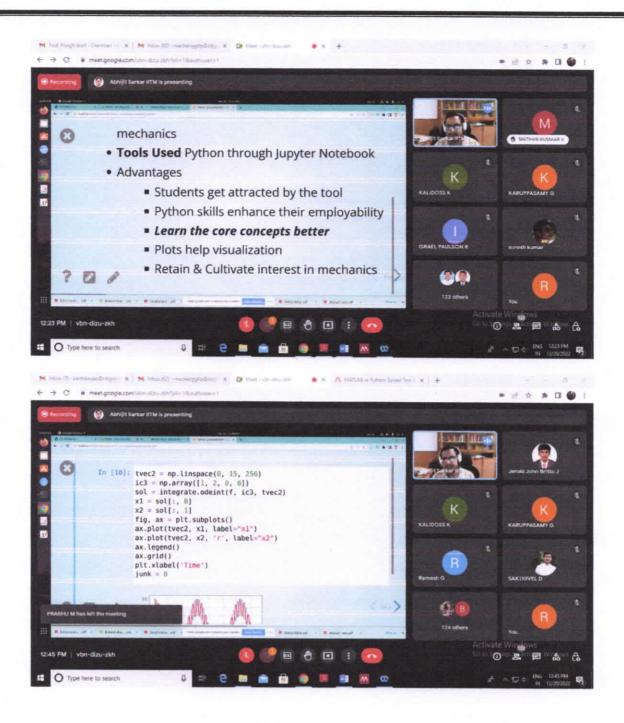


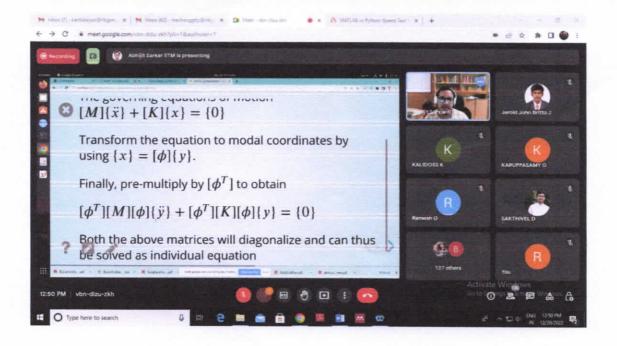
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16. Sample Certificate:



Prepared by
(M.Ramar, AP/Mech)

Approved by (HOD/Mech)

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Form No.CO10

Rev.No. 00