Expert Talk
Activity Report

On

"Turing Machine in Theory of Computation"

Date
(6th November 2020)

Organized by

Sandip Foundation's

Sandip Institute of Technology and Research Center
Department of Information Technology

Activity Report of "Turing Machine in Theory of Computation"

Name of Program: Expert Talk on "**Turing Machine in Theory of Computation"**

Event Date: 6/11/2020

Event Resource Person: Dr.Vivek Waghmare, Associate Professor, Computer Dept. ,SITRC

Event Participants: TEIT Class

Event Time: 11.10am to 12.10pm

Mode of Conduction: Online (Google Meet)

Event Coordinator: Mrs.Swati Khokale

- One Day Online Expert Talk on "**Turing Machine in Theory of Computation**" for TE IT students was successfully conducted on Friday, 6th November 2020.Dr.Vivek Waghmare, Associate Professor of Computer Department,SITRC Conducted Session.

  Dr.Vivek Waghmare gave introduction to the concept of Turing machine that was invented in 1936 by Alan Turing**.** It is an accepting device which accepts Recursive Enumerable Language generated by type 0 grammar.There are various features of the Turing machine:

  - 1. It has an external memory which remembers arbitrary long sequence of input.
  - 2. It has unlimited memory capability.
  - 3. The model has a facility by which the input at left or right on the tape can be read easily.
  - 4. The machine can produce a certain output based on its input. Sometimes it may be required that the same input has to be used to generate the output. So in this machine, the

distinction between input and output has been removed. Thus a common set of alphabets can be used for the Turing machine.

- Also Dr.Vivek Waghmare told various Real time Examples of Turing Machine.
- The objective of the program is students will able to understand the concept of Turing Machine, Components of it and real time use of Turing machine.
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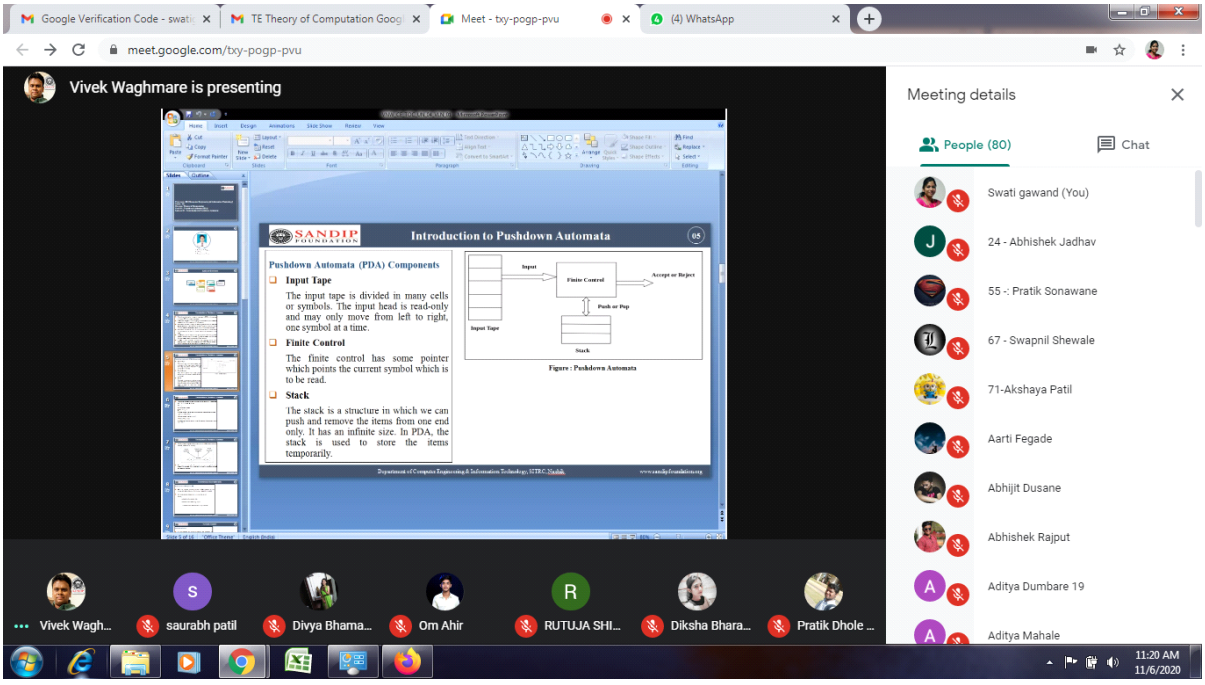
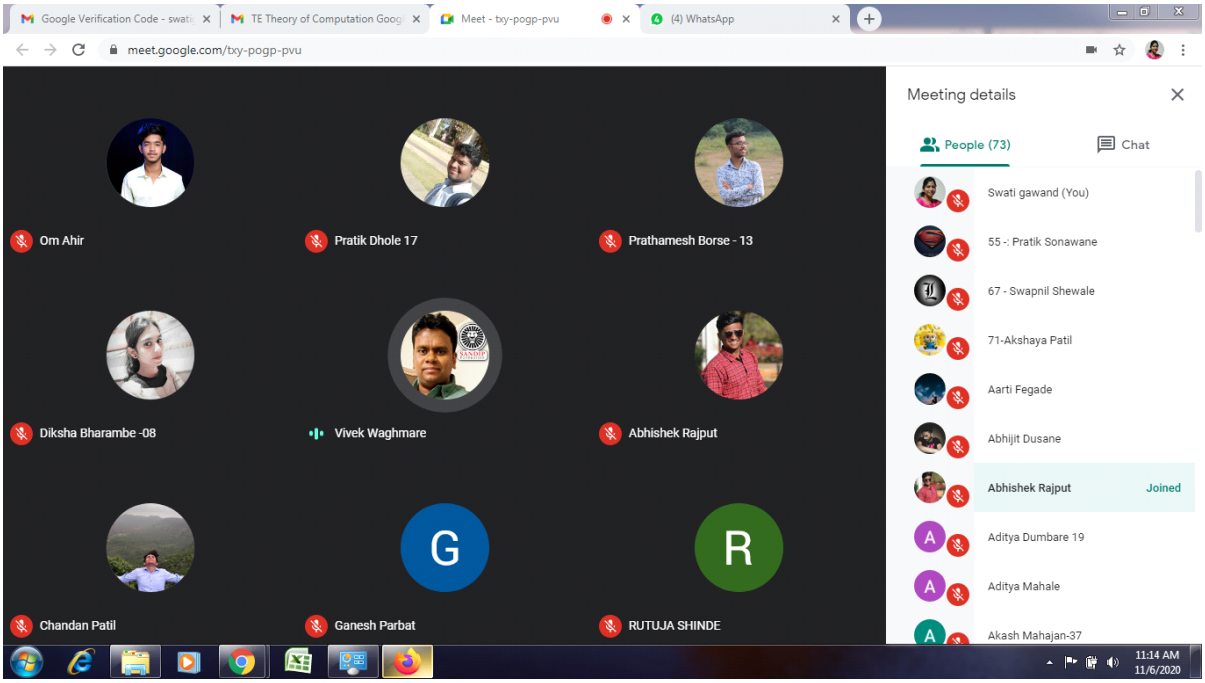
Event Photos



Dr.Vivek Waghmare Giving Introduction to Turing Machine



Students Attending the Session

Mrs.Swati R. Khokale
Event Coordinator

Dr.Pawan Bhaladhare
Head of Department