|| न हि ज्ञानेन सदृशं पवित्रमिह विद्यते ||

Dr. Vitthalrao Vikhe Patil Foundation's

Dr. Vithalrao Vikhe Patil
College of Engineering Ahmednagar

Dr. Vithalrao Vikhe Patil
Foundation
Ahmednagar

DTE College Code: LN-5161

Estd.1983

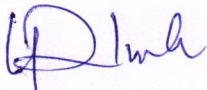## Department of Mechanical Engineering

1) **Title:** Two day workshop on Rapid Prototyping (FDM)
2) **Date :** 28th & 29th September, 2018
3) **Time:** 10.00am to 5.00 pm
4) **Organized by :** Department of Mechanical Engineering, Dr Vithalrao Vikhe Patil College of Engineering, Ahmednagar.
5) **Sponsored by:** SavitribaiPhule Pune University,Planning & Development ,Pune
6) **Speaker :** Mr. S. P. Rahane
7) **No of Registrations** : 132
8) **Objective of Workshop:** Understanding of various rapid manufacturing techniques and develop competency in designing and developing products using rapid manufacturing technology.
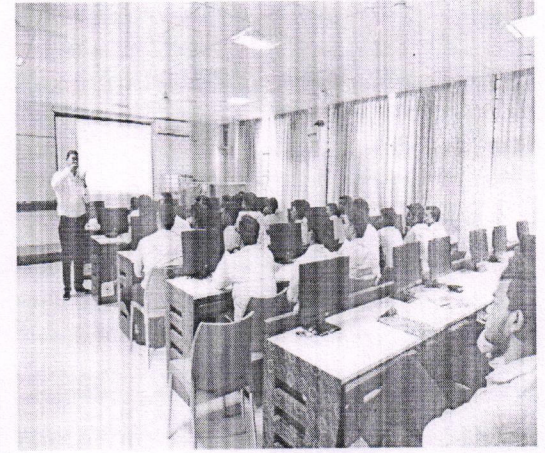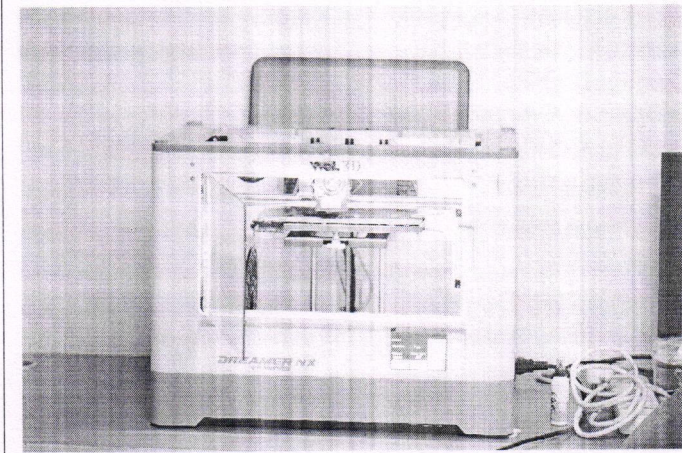9) **Outcome of Workshop:** Develop competency in designing and developing products using 3D Printing technology.

HOD

Department of Mechanical Engg.

PRINCIPAL
Dr. Vithalrao Vikhe Patil
College of Engineering
Ahmednagar

Principal

Dr. Vithalrao Vikhe Patil college of Engg.

Workshop Report

Mr. S. P. Rahane gave the introductory speech and stared delivering the fundamentals of Additive Manufacturing. He introduced the Solid based techniques such as Laminated Object Manufacturing, Liquid based techniques such as Stereolithography and powder-based method such as selective laser sintering. As it was decided to perform the actual 3D printing of the models, various cad geometries drawn by the students were selected. Initially they were drawn with the help of cad modeling software and converted into STL format. These STL files were then opened into SIMPLIFY 3D, printing software where the important parameters such as fill density, base surface selection, support generations, layer thickness etc. were selected to finally convert the virtual models into an actual prototype. Even some of the small but complex geometries were also created and casted into reality.

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