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**CAREER DEVELOPMENT**  
**CENTRE**




**Date: 3rd January 2023.**

**Subject: Schedule for Technical Training – EDM**

**Attention: Students of B.Tech 6<sup>th</sup> Semester (ME & ME-AE)**

The students are hereby informed that the Technical Training – EDM will be starting from 10<sup>th</sup> **January 2023** and will continue throughout the semester for the students of B.Tech 6<sup>th</sup> Semester (ME & ME-AE).

Note: It is mandatory for all the above-mentioned students to attend the training.

  
Career Services Cell  
DIT University, Dehradun  
**Mr. Saurav Badoni**

**Incharge- CDC**

**To:**

- All Deans / Directors
  - HoDs
  - CDC
- } With the request to bring the above  
to the notice of the students

**Copy for information to:**

- Hon'ble Chairman
- Hon'ble Chancellor
- Hon'ble Vice Chancellor
- Hon'ble Pro Vice Chancellor
- ICT Manager – to upload on website

## **VAT- 82: Technical Training-EDM for B.Tech-ME &ME-AE Students**

**Course:** -B.Tech- ME & ME-AE-3<sup>rd</sup> Year

**Venue:** -Chanakya Seminar Hall

**Organized By-** Department of Mechanical Engineering

**Date:** -10<sup>th</sup> January -23<sup>rd</sup> April 2023

**Duration:** -45 Hours

**Timings:** -2:00 PM to 4:00 PM

**Organized By:** Career Development Centre, DIT University

**Conducted By:** Dr. Nalin Somani (Department of Mechanical Engineering, DIT University)

Electrical discharge machining (EDM) is a popular nonconventional machining approach that is often used on hard materials. This method is popular because of the fact that EDM can machine any materials irrespective of its hardness. Modern engineering materials that are deployed in extreme conditions are often shaped or manufactured by EDM process. Other conventional or nonconventional manufacturing methods can be combined with EDM to create a more uniform and balanced machining setup. Hybrid or combined approaches of machining can overcome the inherent drawbacks of EDM process. The performance of machining can improve significantly when other manufacturing processes are incorporated with conventional EDM.

### **Training Objective:**

- The primary objective of this Training class is to teach participants Finite Element Analysis.
- Thus, upon completion of this course, participants will be able to set up, solve, and diagnose their own Structural Analyses.
- This is a problem-based training where the focus will be on understanding what's under the black box so as to move beyond garbage-in, garbage-out.
- Learners practice using a common solution approach to problems involving different physics: structural mechanics, fluid dynamics and heat transfer.
- Textbook examples are solved to help understand the fundamental principles of finite-element analysis.
- Then these principles are applied to simulate real-world examples in the tool including a bolted rocket assembly and a wind turbine rotor.
- By working through examples in a leading simulation tool that professionals use, students learn to move beyond button pushing and start thinking like an expert.

- This training provides learners with the most flexible learning environment possible.
- It can be accessed from multiple devices which makes it easy to learn on the go.

#### **Training Overview:**

- EDM is a finite element analysis (FEA) tool that enables you to analyze complex product architectures and solve difficult mechanical problems.
- You can use EDM to simulate real world behavior of components and sub-systems and customize it to test design variations quickly and accurately.

#### **Requisite:**

The program is designed for students or professionals who are:

- Having a Diploma, BE / B.Tech or equivalent in domains such as Automotive, Mechanical, EEE, ECE, Instrumentation, Mechatronics, and Aeronautics.
- Designing enthusiasts (No academic qualification mandatory)
- Working in industries such as Automotive, Auto component, Design, Manufacturing, etc.

#### **Training Outcomes:**

- The students developed to learn and apply new theories, concepts, and methods.
- Developed extensive knowledge and understanding of a wide range of computer modelling and simulation software.
- Have learnt to Identify, formulates, and solves engineering problems.
- Apply knowledge of mathematics, science, and engineering.
- Have learnt to Design and conduct experiments, as well as to analyze and interpret data.
- Mathematical models underlying simulations
- Verification and validation of simulations including checking against hand calculations
- Built an approach within engineering analysis and simulations like an expert

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## Value added course Details (Academic Year: 2022-23)

VAT Course Name:Electrical Discharge Machining Training

VAT Code: VAT 82

Duration in Hours: 45

Number of Students Enrolled: 38

Number of Students Completed: 36

**Grades:**

**G= GOOD ; S = Satisfactory ; P = Poor ; W = Withdraw**

Student ID	Student Name	Program/Course	Passing Grade
160113014	Yash Virmani	Bachelor of Technology in Mechanical Engineering	G
180106026	SUMIT SINGH	Bachelor of Technology in Mechanical Engineering	S
200106012	SHAURYA JOSHI	Bachelor of Technology in Mechanical Engineering	S
200113004	UJJWAL MISHRA	Bachelor of Technology in Mechanical Engineering	S
200106011	AGASTYA CHAUHAN	Bachelor of Technology in Mechanical Engineering	G
200106002	ABHIJEET SINGH	Bachelor of Technology in Mechanical Engineering	G
200106001	ADITYA RAWAT	Bachelor of Technology in Mechanical Engineering	G
200106003	KUSHAGRA NIGAM	Bachelor of Technology in Mechanical Engineering	G
200113002	AKHAND PRATAP SINGH	Bachelor of Technology in Mechanical Engineering	G
200113003	AMBUJ SINGH	Bachelor of Technology in Mechanical Engineering	S
200106004	PRIYANSHU CHHETRI	Bachelor of Technology in Mechanical Engineering	S
200106007	MOHAMMAD HAMZA	Bachelor of Technology in Mechanical Engineering	S
200106008	SUCHIR GARG	Bachelor of Technology in Mechanical Engineering	G
200106006	DARSHIL DHIREN SHAH	Bachelor of Technology in Mechanical Engineering	G
200113001	PANKAJ SINGH MANRAL	Bachelor of Technology in Mechanical Engineering	G
200106013	PRATYUSH ANAND BURNWAL	Bachelor of Technology in Mechanical Engineering	G
200113007	DEEPANSHU RAWAT	Bachelor of Technology in Mechanical Engineering	G
200113006	ABHISHEK AGARWAL	Bachelor of Technology in Mechanical Engineering	S
200106014	ANIL KUMAR GAUTAM	Bachelor of Technology in Mechanical Engineering	P
200106031	SOURABH KUMAR SINGH	Bachelor of Technology in Mechanical Engineering	S
200106015	KARAN SIYAG	Bachelor of Technology in Mechanical Engineering	G
200113009	TUSHAR KUMAR	Bachelor of Technology in Mechanical Engineering	G
200106022	ADITI RATURI	Bachelor of Technology in Mechanical Engineering	G
200106021	KULDEEP SINGH	Bachelor of Technology in Mechanical Engineering	G
200113010	BHAVESH SINGH BISHT	Bachelor of Technology in Mechanical Engineering	G
200106041	KHAGENDRA YADAV	Bachelor of Technology in Mechanical Engineering	S
210106900	GYANENDRA KUMAR	Bachelor of Technology in Mechanical Engineering	S
210106901	PRANJAL CHAUHAN	Bachelor of Technology in Mechanical Engineering	S
210106908	PRIYANSHU GUPTA	Bachelor of Technology in Mechanical Engineering	G
210106903	ABHISHEK KUMAR DHANGAR	Bachelor of Technology in Mechanical Engineering	G
210106904	AKSHAT BHIDOLA	Bachelor of Technology in Mechanical Engineering	G
210113900	SHIV SINGH NEGI	Bachelor of Technology in Mechanical Engineering	G
210113901	MANISH ADHIKARI	Bachelor of Technology in Mechanical Engineering	G
210106905	PIYUSH SINGH	Bachelor of Technology in Mechanical Engineering	S
210113902	ANUJ KUMAR	Bachelor of Technology in Mechanical Engineering	P
210106906	SIDDHARTH TYAGI	Bachelor of Technology in Mechanical Engineering	S
210106909	SURAJ KUMAR MUNDA	Bachelor of Technology in Mechanical Engineering	G
210106907	SAGAR SARKAR	Bachelor of Technology in Mechanical Engineering	G