



# MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE GWALIOR

## Department of Mechanical Engineering

### REPORT OF SKILL BASED MINI PROJECT

#### HEAT AND MASS TRANSFER

**Title of Project:- Understanding theory and working of Heat Exchanger and Fabrication.**

**Introduction:-** In this Project we are analysis data on Heat Exchanger while also understanding its theory and principles and working under certain temperature ranges and atmospheric pressures.

**Description of project:-** A heat exchanger is a system used to transfer heat between a source and a working fluid. Heat exchangers are used in both cooling and heating processes. The fluids may be separated by a solid wall to prevent mixing or they may be in direct contact.

#### **Applications of Model:-**

Transfer heat between a source and a working fluid for example in internal combustion engine.

#### **TYPES OF Heat Exchangers:-**

- Shell and tube heat exchanger
- Plate heat exchangers
- Plate and shell heat exchanger
- Adiabatic wheel heat exchange

#### **What I Learned Through Project: -**

Heat exchanger model, Working, heat and volume

Tables, Steam graphs, T-S diagram of given condition

partially, Basic transmission.

#### **Submitted By**

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