

UG SCHEME 2022: Department of Mechanical Engineering

Malaviya National Institute of Technology Jaipur

DETAILS OF THE COURSE

Course Code	Course Title	Credits	Lecture	Tutorial	Practical
22MEW980	Major Project	9	0	0	18

PRE- REQUISITE

Preferably Mini Project may be continued.

COURSE OUTCOMES:

CO-1	To be able to design and develop solutions of problems following inventive and novel steps and industrial application.
CO-2	To be able to analyse the designed solution
CO-3	To be able to implement the mini-project design solutions towards enhancing TRL (technological readiness levels).
CO-4	To understand manufacturing technologies, developing functional minimum viable prototype and testing the developed product / process.

Few Examples of Mini Project Topics based on past Projects: -

- Developing solutions for CTEV (Clubfoot) affected patients.
- Bottlenecks problems for implementation of industry 4.0
- Design Enhancement and Automation of Sanitary Waste Incinerator
- Design Improvement of Linkage of Tractor Seat
- Design of Hydraulic operated wheel chair for standing assistance
- Design and Fabricate green house dryer assisted with tube type absorber

RECOMMENDED READINGS

1. https://www.djkasiagroup.com/business/ai.html?gclid=EAlalQobChMImp7E0uSy_glVAT8rCh1d1QgMEAAAYAiAAEgJcovD_BwE
2. <https://www.simplilearn.com/growing-role-of-ai-in-manufacturing-industry-article>