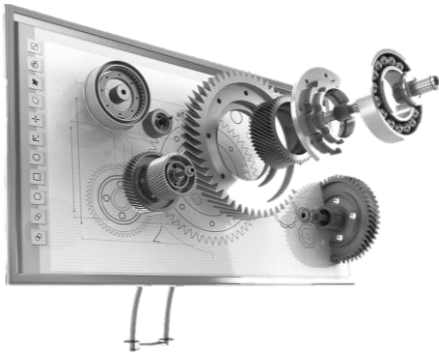


## Smart Design and Manufacturing Club

### MD4 CAD Club

AD Polytechnic AD Campus



Technology is taking a new course daily. With each Eye Blink new products are developed somewhere in the world.

Everything we use in our day-to-day lives has been designed by someone. CAD Designers use computer aided techniques for the creation of 3D models and production drawings.

Computer Aided Design (CAD) is a special branch of Mechanical Engineering that employs wide range of Computer based tools and techniques assisting engineers in design and manufacturing endeavours. Geometrical modelling, analysis, optimization, validation and simulation are some of the well-known concepts involved in the study of Computer Aided Design.

**Scope:** The field of 3D Design is one, which serves a wide and varied number of vocations, professions, and industries. *The MD4 CAD Club directs its courses and training along practical lines as demanded by industry so that students get qualified and certified to obtain employment in CAD related occupations and get engaged in interesting and innovative research and projects. The club is founded to engage motivated students into real-life projects and research to allow them to gain professional experience in the fields of mechanical design and manufacturing.*

#### Current and planned projects and research topics:

- Robotics Design.
- Wood milling and structural design.
- Design of materials with negative Poisson's ration / Auxetics.
- Turbine Modelling and Efficiency investigation based on innovative modelling
- Design and Manufacturing of Moulding tools.
- Design methods and Processibility of Composites, GFRP / CFRP

The MD4 CAD club is managed by Dr. Dani Abdo / EMET