



## Services Provided

- Training
  - Consultancy
- in CAD/CAM/CAE/PLM

## CAD - Product Design & Development

- Part Modeling
- Product Modeling
- Assembly Design
- Animation & Visualization
- Surfacing ( Aerospace )
- Sheet Metal Design
- The Multi-body Dynamics
- High Performance & effective product development
- CATIA V5 R25
- PTC Creo 4.0
- MSC ADAMS Suite
- Adams Machinery
- Adams Car
- Flexible Multibody Systems
- Adams MaxFlex
- Adams Real Time

## Manufacturing & Simulation

- Process Planning
- Tool Design
- Plant Layout Design
- Process Design  
(Casting, Forging, Welding, Mold)
- Digital Manufacturing
- Manufacturing Operations Management
- Supply Chain Planning and Operations
- DELMIA Suite
- Creo 4.0

## CAE (Computer Aided Engineering)

- Structural Analysis
- Thermal Analysis
- Welding Analysis
- Plastic Mold Analysis
- Computational Fluid Dynamics
- Metal Casting & Forming Analysis
- Advanced Non-Linear Simulation Solutions
- Advanced Controls & Systems Simulation
- Aero-elasticity for Aircrafts
- Smart 3D space planning solutions
- Simulation Solution
- Flexible body integration
- Real World' Physics Simulation
- Real Dynamics for Vehicle Design and Testing
- Simulation Suite for Mechanical Drive Systems
- Abaqus Research Suite
- MSC Apex
- MSC Patran
- MSC Nastran
- MSC Dytran
- MSC SINDA
- MSC Easy 5
- MSC Marc Mentat
- MSC FlightLoads
- MSC ADAMS Suite
  - Adams Machinery
  - Adams Car
  - Flexible Multibody Systems
  - Adams MaxFlex
  - Adams Real Time
- DS-3DVIA

## PLM (Product Lifecycle Management)

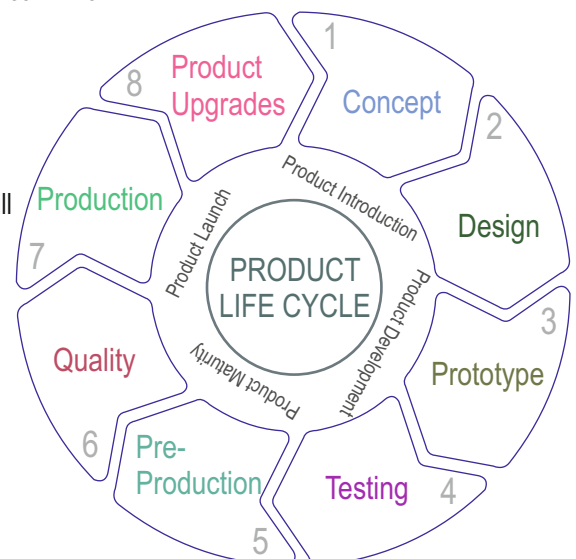
- Product Data Management
- Workflow Management
- Configuration Management
- Supplier Integration
- Requirement Management
- ERP Integration
- High performance and innovative product development and management.

- PTC Windchill
- ENOVIA
- PDM Link

## Automation, Robotics, Simulation & Others

- Realistic Simulation
- Mechatronics Concept Design
- Electrical Design
- Wire Harness Design

- ADAMS Suite





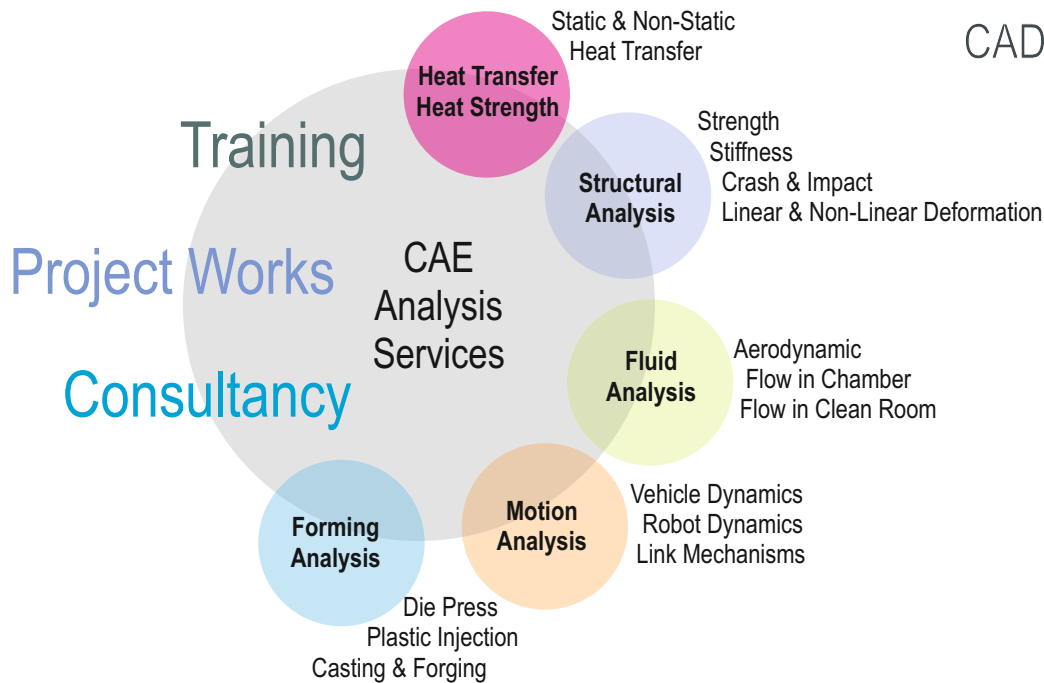
Sanjay Ghodawat University, Kolhapur

**TATA TECHNOLOGIES**

Technology Competency Center

Product Design Development

Product Lifecycle Management



CAD/CAM/CAE/CFD/PLM  
**Packages**

PTC Creo 4.0  
Windchill  
CATIA V5 R17  
Enovia  
ADAMS 2017  
ABAQUS  
MSC

**209 Modules**

