SCHOLASTIC ACHIEVEMENTS

- Placed in the **top 1.77%** of the appeared students in **GATE-2011** in Mechanical Engineering
- secured **1st rank** in rural area of the district in Maharashtra scholarship examination and received the scholarship up to matriculation awarded by govt. of Maharashtra.

KEY ACEDEMIC PROJECTS

- **M. Tech. Project :**

Modeling and burr minimization of drilling for Ti-6Al-4V [Ongoing]

- Designed special jig required for performing the drilling experiments
- Performed drilling experiments using Taguchi method and analyzed the burr profile
- Experimental results will be compared with simulation results

- **Bachelor Project:**

Design and manufacturing of Vapour Absorption Refrigeration system [Jan‟09- May‟10]

- Developed working model of 1TR refrigeration system based on vapour absorption between water and ammonia
- Carried out the complete thermodynamic analysis of the system

PUBLICATIONS

POSITIONS OF RESPONSIBILITY

- **Teaching assistant at IIT Bombay**

Assisted and evaluated students in :

- Graduate level course “Equipment and Processes Design Lab” [Prof. A. Mukhopadhyay]-
Graduate level course “Manufacturing Process Seminar” [Prof. D. Bahadur]

INDUSTRIAL TRAINING

- **Sharada Motor Industries Ltd., Nashik** [June"08]
  - Done a field work on the assembly lines producing the silencers of different automobiles

SEMINARS

- **M.TECH Seminar: Challenges in drilling of difficult to machine alloys** *[Jan-May'11]*

- Carried out a detailed study to understand factors affecting drilling of several difficult to mac hine materials and ways to solve those problems

- Computational methods for metal forming analysis : Analysis of sheet metal formability using **GOM** testing machine and validation of results by finite element software **Hyper form**

- Finite difference method for partial differential equations: Implemented algorithms developed in finite difference method for partial differential equation in **MATLAB**

- **Course seminars:**

- **Repair of hot working tools**: Studied Cost effective and relatively simple methods like lase r cladding , welding etc for repairing of hot working tools
- **Analysis of tube drawing process** : Studied and Analyzed the tube drawing process with FEM model and analytical model with results
- **polymer accelerometer** : Studied use of polymers in MEMS devices like accelerometers in stead of silicon with its advantages and losses
- **Total strain energy theory**:studied yield criterion given by Beltrami and Haigh for material
- **Group technology (GT)** : Characteristics, implementation in processing technique, applica tions and benefits of GT are studied

KEY ELECTIVES (AT IITB)

- Design and Analysis of Experiments Using **Taguchi Method**
- Characterisation of materials
- Computation methods for metal forming analysis
- Introduction to **MEMS**
- Ultra precision machining

INSTRUMENTS AND SOFTWARE SKILLS

- **Programming language:** MATLAB
- **Modelling Tools :** ANSYS, Deform ,SolidWorks, Autocad, Hyperform
- **Instrument proficiency:** Tool makers microscope, Zeta 3D microscope
- **Language proficiency :** Marathi, Hindi, English
- **Hands of experience on :** 3 Axis vertical machining center, Mechanical teting,