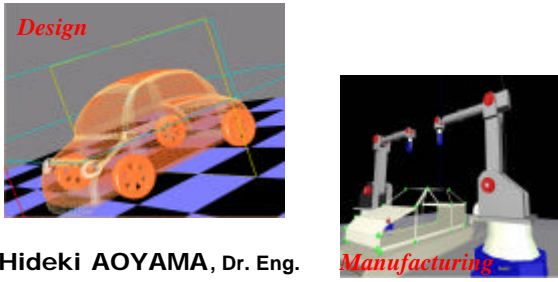


Mechanics and Manufacturing Program



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For What
Mechanics and Manufacturing Program

Industrial Products

✓ Design (Hypotheses, Synthesis)
✓ Analysis (Mechanical-Electrical Eng.)
✓ System Engineering
✓ Manufacturing

Ecology (Environment, Human)

For Whom
Mechanics and Manufacturing Program

- ✓ Graduates in mechanical, electrical, information engineering and architecture
- ✓ Graduates being interested in design of mechanical, electrical and electronic products
- ✓ Graduates being interested in manufacturing

Subjects on
Mechanics and Manufacturing Program

1. Mechanics and Manufacturing: Lecture and Exercises
2. System Modeling and Design
3. Mathematical and Physical Methods in Fluid Dynamics Phenomena in Mechanics
4. Non-linear Dynamics in Chemical System
5. Structural Dynamics
6. Computational Structure Mechanics
7. Thermal and Reactive Fluid Dynamics
8. Advanced Design and Production System
9. Advanced Machining and Metrology Systems in Manufacturing
10. Intelligent Control in Material Processing
11. Intelligent Machine System
12. Environmental Resource Science of Earth

Research Fields on
Mechanics and Manufacturing Program

- ✓ Design and Evaluation (*CAD, CAE, Virtual experiment, Virtual reality*)
- ✓ Manufacturing (*Robotics, Machine tools, Machine elements*)
- ✓ Systems (*Thermal system, Fluid System, Chemical systems, Dynamic systems, System modeling, Structure dynamics*)

Industries Related to
Mechanics and Manufacturing Program

- ✓ Mechanical industry
- ✓ Electric industry
- ✓ Automotive industry
- ✓ Robotic industry
- ✓ System industry
- ✓ Information industry