The Factory for Dreams & Ideas
"Yumekobo"

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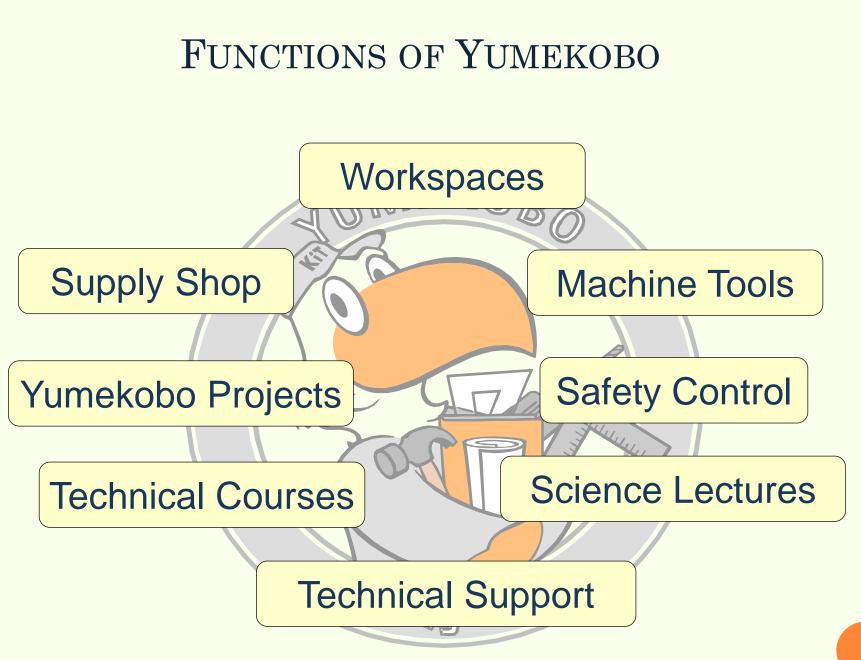- Evaluation of Yumekobo

WHY AND WHEN ?

- History: Yumekobo was established in 1993
- Vision:

  Develop self-directed, innovative, and productive engineers by hands-on & experiential learning

- Mission:

  Provide necessary and sufficient technical support, safety control, manufacturing facilities, and engineering workspaces for hands-on and experiential learning activities

STAFF WORKING AT YUMEKOBO

- 14 Full-time technical staff
- 5 Part-time technicians
- 41 Students staff

- YUMYKOBO opens 305 days/year, from 8:40 to 21:00

FUNCTIONS OF YUMEKOBO

Workspaces

Supply Shop

Machine Tools

Yumekobo Projects

Safety Control

Technical Courses

Science Lectures

Technical Support

TECHNICAL SUPPORT & SAFETY CONTROL

- Technical course
- Safety education & training

Step1

Safety Instruction

Instruction of hand tools & Explanation of Yumekobo

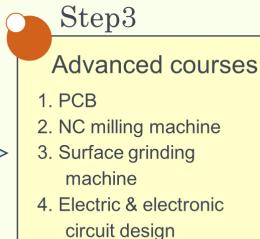**Step2**

Operation of machines

1. Lathe
2. Milling machine
3. Drilling machine
4. Welding
5. Plate forming
6. Electric wiring
7. Wood working

Step3

Advanced courses

1. PCB
2. NC milling machine
3. Surface grinding machine
4. Electric & electronic circuit design
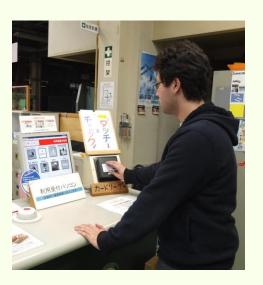
Technical support & safety control

- Technical course
- Safety education & training

- Yumekobo holds the students' safety paramount

Safety Education & Training	X	Environmental Improvement	=	Safety

Yumekobo supply shop

- Yumekobo sells 1,600 materials
- Do not pursue profit
- Students can save time and expenses
- Honor system (Unattended shop)

WORKSPACES

- Yumekobo #26
- Yumekobo #41

Yumekobo projects

Solar Car

Formula Car

Human-powered aircraft

Robot
Human-powered aircraft
Satellite
RoboCup
Robot for welfare
Wind powered generator
Electric vehicle
Architecture design
Solar car
ET Robot
Autonomous vehicle
Unmanned small airplane
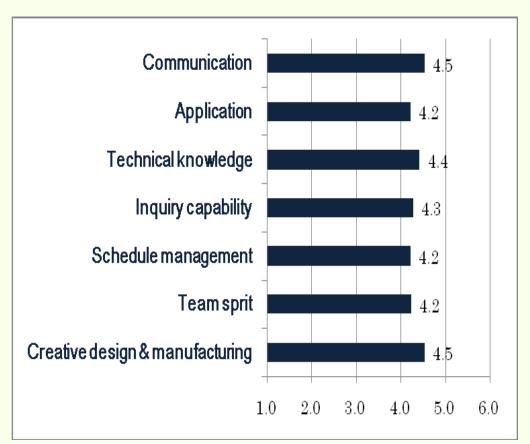Emergency robot
Formula car

Yumekobo Projects

- Experience full creative process of planning, market survey, design, fabrication, operation , and troubleshooting in team work

- Collect the abilities and knowledge of project members from different departments and academic year into teams

- enable students to enhance their technical capability and personal/interpersonal skills by hands-on and experiential learning activities
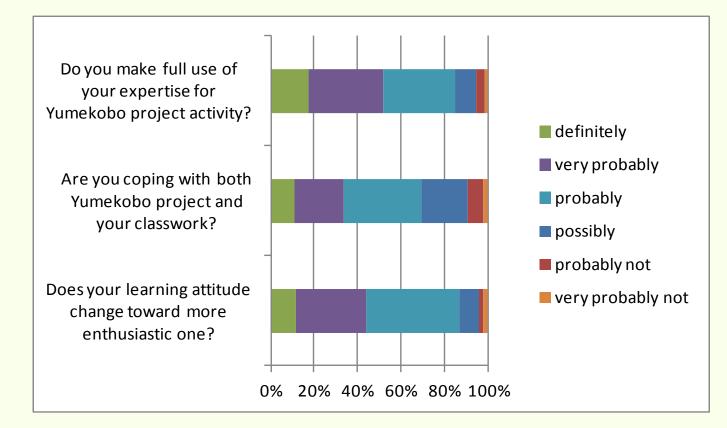
CONTINUOUS PROGRAM IMPROVEMENT

Evaluation Items	Evaluation Method
Management of Yumekobo	Suggestion box
Learning outcomes of students	Students' self-evaluation
Quality of technical courses	Students' evaluation
Safety control	Statistics of accidents

EVALUATION OF YUMEKOBO

- Progress in technical competencies and professional skills

Communication — 4.5
Application — 4.2
Technical knowledge — 4.4
Inquiry capability — 4.3
Schedule management — 4.2
Team sprit — 4.2
Creative design & manufacturing — 4.5

EVALUATION OF YUMEKOBO

○ Progress in technical competencies and professional skills

EVALUATION OF YUMEKOBO

- Outstanding achievements of Yumekobo projects at domestic & international competitions

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Thank you for your attention