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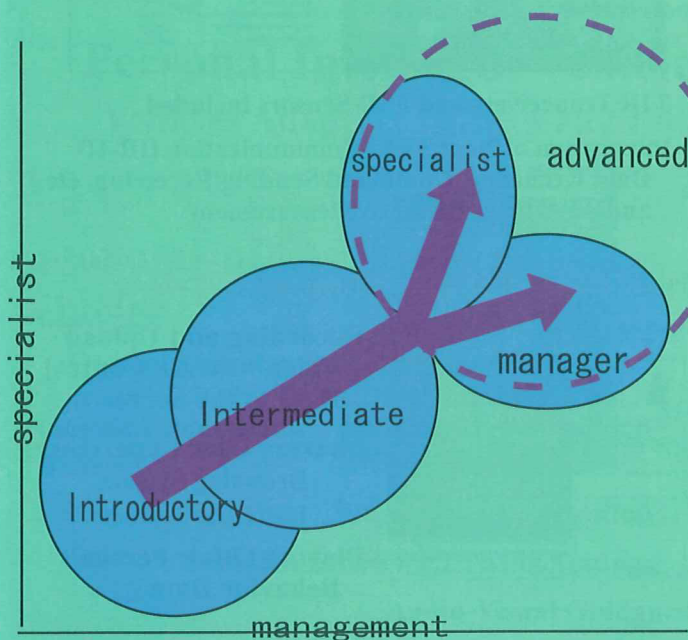
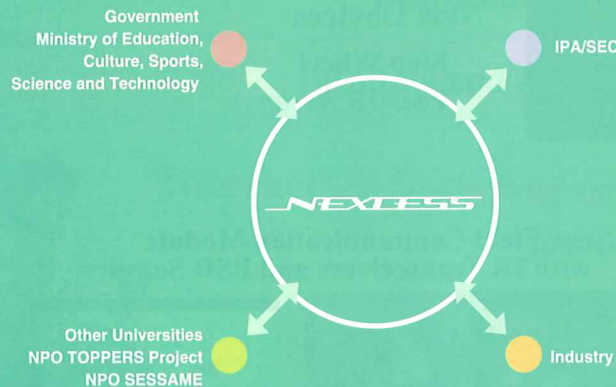
Nagoya University EXTENSION COURSES FOR EMBEDDED SOFTWARE SPECIALISTS

We have started an extension course program at the Nagoya University in 2004 to foster embedded software specialists in Japan. The program is prepared for the engineers in industry to provide practical and organized knowledge in developing the embedded software. This paper reports the analysis of the program based on the practice that has been provided to over 200 people during Year 2004.

The development of embedded software has recently been increasing among many companies. This situation carries the need for training of more embedded software engineers. The Nagoya University provides reeducation of embedded software engineers in the working world. These extension courses are short intensive courses on training embedded software engineers according to the types of their jobs and technological levels.

Eight different types of courses corresponding to different skill levels of introductory, intermediate and advanced, have been provided.

While we have learned from the practice that the need for introductory courses is higher than the rest, the questionnaire analysis of attendees showed that the seminars with hands-on experiments were effective to train on technical skills and the role played by the superiors in the education is crucial.



Introductory class

Fundamentals of the embedded software development technology

Intermediate classes

- 01: Design methodology and management of embedded software
- 02: Software design technology with a real-time OS

Advanced classes (for specialists)

- 01: Internal structure of a real-time OS
- 02: C-based embedded hardware design
- 03: System control middleware and application
- 04: Software engineering for embedded systems
- 05: Ubiquitous interface and embedded software programming for image processing

Advanced classes (for managers)

Train the trainers (for training Introductory engineers)

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