Development of a Learning Support System based on Learning Analytics

Project Leader

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1. Objective

This project aimed at:

e-Learning activities designed to supplement classroom instruction have the potential to enrich learning, but lack of faculty experience in developing and managing digital material often weakens the promises of online learning. Educational institutions must also consider a system's ability to accommodate different learning environments, teaching styles, and student needs. We will try to establish efficient methods for learners and instructors to develop the learning support system based on Learning Analytics.

2. Project Outline

To that end, the project will consist of the following phases:

(a) Development of learning log analytics environments using LRS (Learning Record Store)

(b) Development of learning analytics support tools

(c) Development of learning support systems.

3. Expected Performance

In this project, the successful candidate would be expected to:

(a) Work independently on a research topic and develop systems/environments.

(b) Read related journal papers independently and discuss with senior researchers.

(c) Understand the technologies on e-Learning standards

4. Required Skills and Knowledge

The successful candidate for this project will have the following knowledge and skills:

(a) Willingness to conduct basic qualitative user data collection

(b) Ability to communicate effectively English

(c) Capable of collecting, analyzing and reporting for English research publication

(d) Programming experience in PHP, Java, JavaScript, HTML5, XML and SQL

(e) Strong knowledge of statistics

(f) Fundamental knowledge of technologies on e-Learning (ex. LMS, LRS, SCORM, xAPI, ePub, etc.)

See our admission guidelines:

https://www.kochi-tech.ac.jp/english/admission/ssp/guideline.html

Contact

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