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**“Customized System for e-learning”**

Submitted in partial fulfillment of the requirements for the  
Degree of BEng (Hons) Software Engineering  
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A Dissertation

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## **Abstract**

With the technological advancements, people in present world search for their own convenience rather than the concept of 'One fits for all' which applied in earlier days. The concept of Personalization is much popular under these circumstances and it is the key property expected in the new technology as a fact. When it comes to learning, it is in the demand curve. As an initiation for this, the introduction of e-learning has promoted the convenient learning for all the people who expect to learn more in limited time. This is a method of learning encourage the people who prefers self-learning and also those who seeks knowledge just for know how. With the popularity, now e-learning programmers are developed to the level of complete degree education online.

Personalization is a Major component in e-learning experience. As a matter of fact, personalization is one of the most relevant property expected in e-learning programs and at present academic world. Due to the popularity and demand of the e-learning. There are plenty of e-learning systems available. However, most of these e-learning systems support only to personalize the appearance of the system interface such as the theme and colors of the web page or the content arrangement as the personalization but the content displayed are the same. In actual scenario the expected personalization is much on the course contents introduced to the user according to the knowledge levels and user preferences. Most of these systems do not have any option to identify the user's preference in study and this is again coursing boredom in learning similar to the traditional learning methods.

The proposed system as a result of this research provides a solution to identify these user needs and make the learning experience more personalized to the users in terms of selecting the learning content more conveniently.

**Subject Descriptors** – Natural Language Processing

Machine Learning

**Key words:** Personalization, Customization, e-Learning, Natural Language Processing, Information Retrieval