DESIGNING A MANAGEMENT INFORMATION SYSTEM

INDUSTRIAL ENG. DEPT. TEHRAN POLYTECHNIC SCIENTIFIC ASSOCIATION

Case study

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Abstract

Early in the 21st century the importance of education, consequently educational management was no longer covert. Despite the magnitude of the issue, though, in many developing countries such as Iran, the absence of adequate attention, has led to a huge waste of the country’s most creative and powerful resources, students.

Throughout this paper, an attempt has been made to answer the detected need of the department, by applying a management information system that may offer, in small scale, ease of management’s logical and reality-based decisions making, and in a broader view, a significant increase in the effectiveness of related small student-oriented corporations, such as scientific associations.

Keywords

Scientific Association; EMIS; MASAF

Introduction

Educational planning, which is responsible for establishing the goals and objectives of educational and academic centers, institutions, universities, schools, etc. has been due to a lot of changes in Iran. However no real, noticeable science-based movements, especially in large scale has ever occurred. That is, most of the scientific associations around the country would make their decisions based on their own common-sense, randomly or base them on unreal data as a consequence of the lack of infrastructure required, our students in charge being untrained for such circumstances and the low level of IT knowledge, available amongst the academic community.

Serious attention is required. If we aim to improve the level of our academic institutions, we ought to acquire real, and qualified data for our managers. Infrastructures have to be provided. Culture of online honesty, trust and security needs to be introduced to accelerate the process of getting access to pure decision making resources.

We hope that this would turn out to be the starting point of systematically considering the indicators that encourage decision making based on actual, real information, gathered via an Education Management Information System (EMIS).

In this case study, we considered primarily constructing a prototype, satisfying the basic needs of the scientific association- called MASAF- and over the time as we expect the IT-usage amongst the student tend to raise, constructing the final user interface that would serve the students, third parties and the association itself online.