Best Practice-I

Title of the Practice: IT Management

Objectives of the Practice:

Information regarding best practices of information technology (IT) management in department provides students with a basis for developing their own IT systems or evaluating their existing systems. Important as this information is, limited literature coverage exists on this topic.. The insights discussed in It management include attention to the access rate of users, leadership promise, technology planning, staff development, technical support, strategic hardware and software procurement, the technology budget, and an expanded view of infrastructural facilities.

The Context

In order to be well implemented, IT management must be focused on achieving the following objectives:
- Maintain value creation
- Improve IT process performance and customer satisfaction.
- Control the financial aspect of Information Technology.
- Develop skills and solutions to meet the future needs of the company.
- Identify and manage risks related to Information Technology.
- Promote the development and maintenance of transparency in all processes carried out within the company.

The Practices

Good IT management is the result of a combination of essential elements such as processes, structures, and relational mechanisms.
Structures: Structures include how the IT function is organized.
Processes: Processes comprise all strategic activities of the information systems and the measurement of their performance.
Relationship Mechanisms: Includes participation of key stakeholders, the collaboration between business lines and IT staff, rotation of responsibilities and continuous training.

Evidence of Success

The Department has been offering this course for two years, and students of the Department take keen interest in the Value-Added Course which is reflected through the attendance of the students.

Problems Encountered:

1. Apply concepts and perspectives on organizational leadership, multi-disciplinary perspectives, and leadership models to actual organizational situations.
2. Apply relevant principles on the design of computer-based information systems to increase organizational effectiveness and efficiency in the development and implementation of organizational strategy and the control and evaluation of organizational activities.
3. Demonstrate necessary skills to resolving conflict by applying conflict analysis models, tools and processes.

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Best Practice-II

Title: Software Engineer and Development

Objectives and Practice
- To understand fundamental concepts of requirements engineering and Analysis Modeling.
- To understand the various software design methodologies
- Understand the phases in a software project
- To learn various testing and maintenance measures

Context:

In the software engineering community, standardized coding conventions help keep the code relevant and useful for clients, future developers, and the coders themselves. Any professional programmer will tell you that the majority of their time is spent reading code, rather than writing it. You are more likely to work on existing code than to write something from scratch. So it's important that your code is easy to understand for other engineers.

The Practice

Practice can be improve coding language and are useful in improving the overall quality of code:

- Allocate appropriate names to all functions, variables, and methods. This will make code easier to read, understand, and debug.
- Always use the common or native language of the developer for names and descriptive texts. Avoid abbreviations as much as possible to reduce ambiguity.
- Use consistent indentation and alignment while formatting your code for better readability.

Evidence of Success

Students write the code for websites, apps and software. Software Engineering teams often work together to thoroughly test their work and address problems before it goes live.

Problems Encountered

- an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics
- an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors
- an ability to communicate effectively with a range of audiences
- an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts

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H.o.D