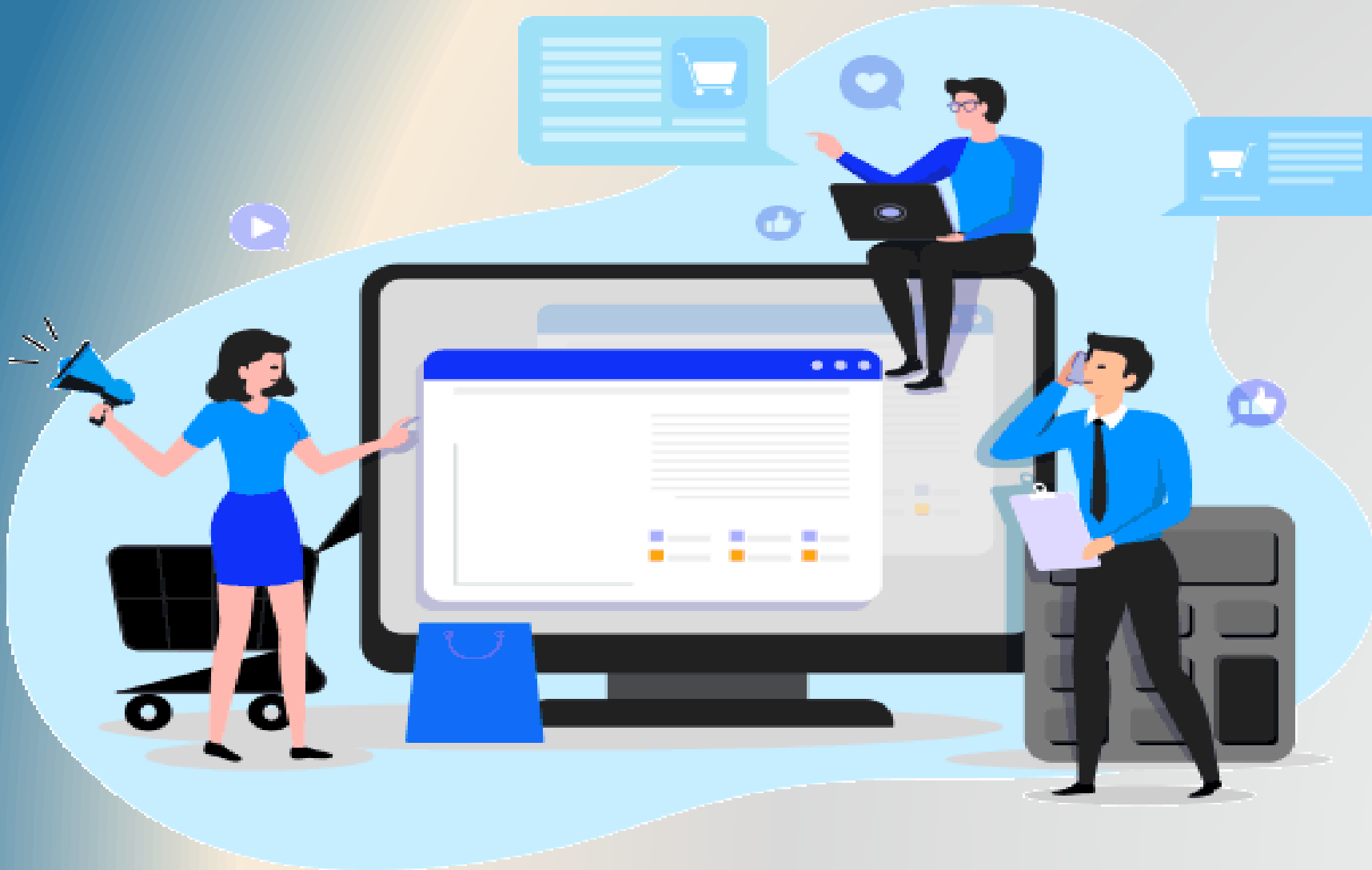


WELCOME

Management of technology





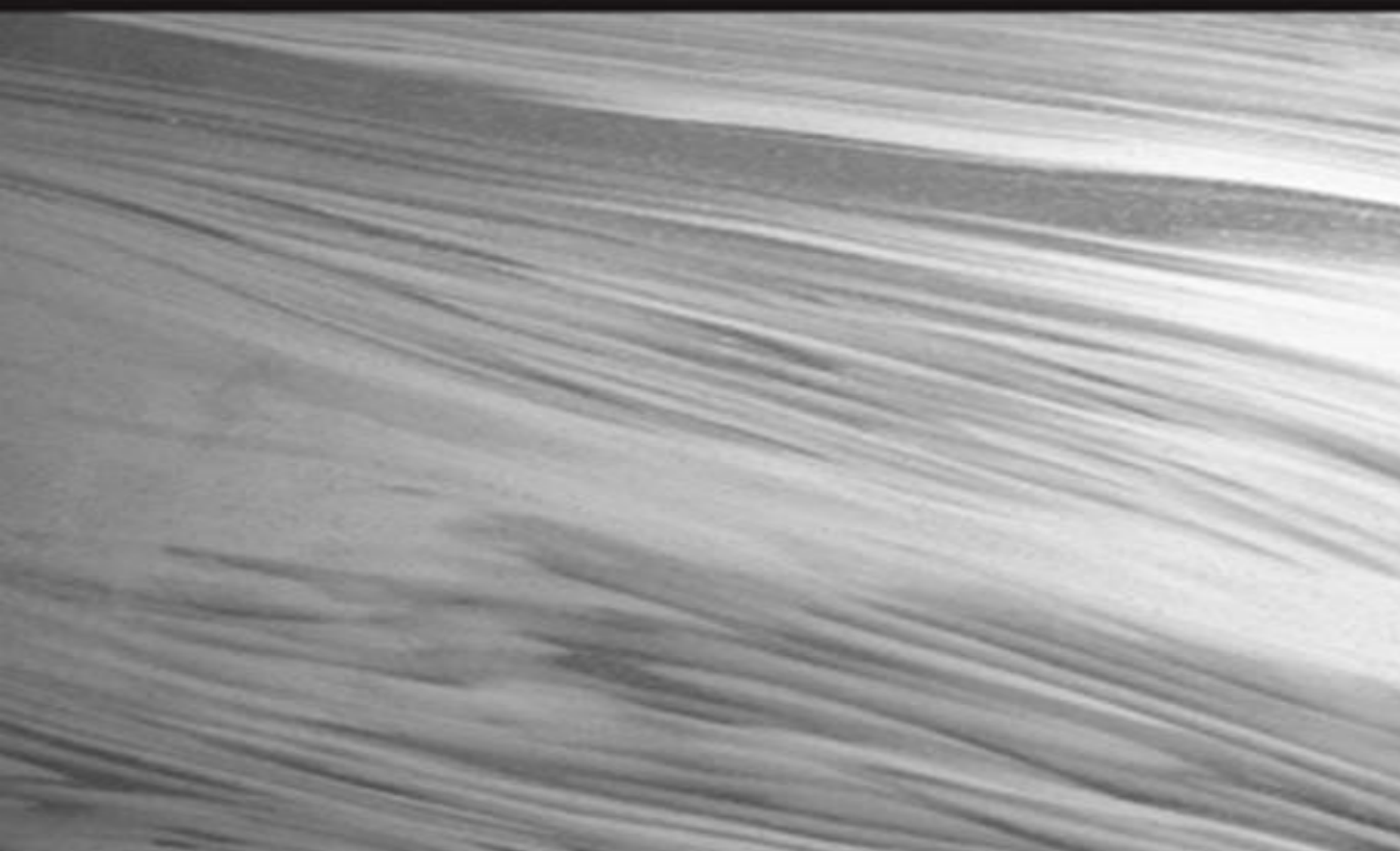
Management of Technology
Key Success Factors for
Innovation and
Sustainable Development

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WHAT IS THIS SUBJECT ABOUT?

It is about learning how to use a variety of project management tools and data collection tools including check sheets, histograms, performance charts, and process definition tools such as work breakdown structure (WBS) and flowcharts. After you master these tools, you will be able to increase your project management effectiveness by leaps and bounds.

WHY DO WE STUDY THIS SUBJECT?

The concept of sustainable growth has been gaining momentum globally due to the need to manage limited resources like energy, food and air while at the same time sustaining the growth of economies for the wellbeing of the people. Technological innovations are the key to optimizing the use of resources in societies pursuing sustainable growth. The interest in managing technological innovations for sustainable growth is emerging from different groups of stakeholders who bring their own approaches, frameworks or biases to study the problem.

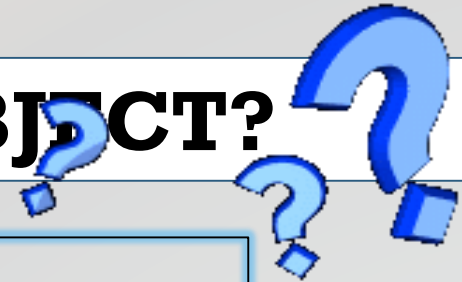
WHY DO WE STUDY THIS SUBJECT?

The challenges of sustainable growth under these partial perspectives and particular lenses generate narrowly focused knowledge in the respective stakeholders' domains. But such knowledge may not be necessarily compatible across domains, when seen from a more comprehensive perspective. For example, technological innovations to use green energy in manufacturing for sustainable economic growth may adversely affect the local farmers' agricultural practices and hence their social and cultural growth.

WHY DO WE STUDY THIS SUBJECT?

A systematic and systemic approach is needed to inclusively understand, assess, plan, manage and monitor the effectiveness of strategies, policies, and practices of sustainable growth. Such a complex ecosystem is not amenable to simple, fragmented analysis. Also, the results of the analyses have to be comprehensively synthesized to orchestrate the efforts and measure the consequences of decisions.

WHY DO WE STUDY THIS SUBJECT?



Thus, our central questions are:

How to represent in an integrative framework the knowledge generated to manage technological innovation for sustainable growth?

Are there emphases or gaps in the knowledge generated and transferred among communities of science and practice for technological innovation for sustainable growth?



WHY DO WE STUDY THIS SUBJECT?

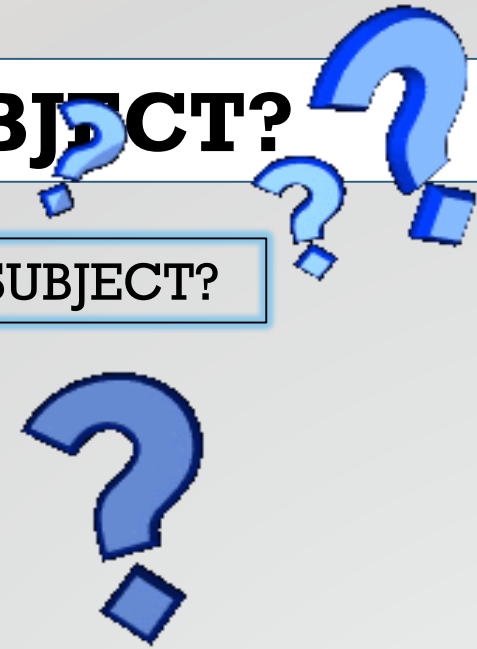
HOW CAN WE ANSWER THE MAIN QUESTION OF THIS SUBJECT?

The answer of this question was influenced by several factors.



First, many academic laboratories directed their attention toward a better understanding of new product development processes and proposed new methodologies to improve time to market, launching success, technical quality and profitability.

Management approaches, data treatment methods and decision making methodologies are being widely studied. Complexity, integration of qualitative and quantitative variables and uncertainty are among others key concepts of these investigations.



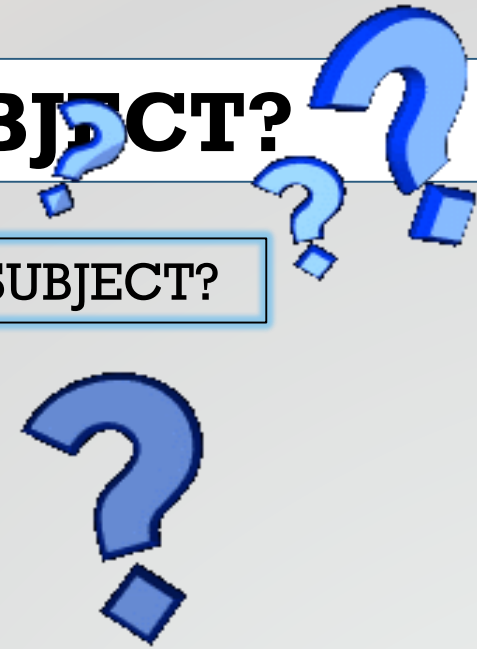
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Second, the technology management literature is mostly concerned with the multivariable impacts of technology on our industrial world. Research themes include: economic policy facilitating innovation, interaction between employment and new technology, international competition, technology emergence and industrial sectors reorganisations. Hence, via this involvement it is possible to gain access to a wealth of concepts required to analyse long term, cultural and ethical impact of technology on each level of our world.



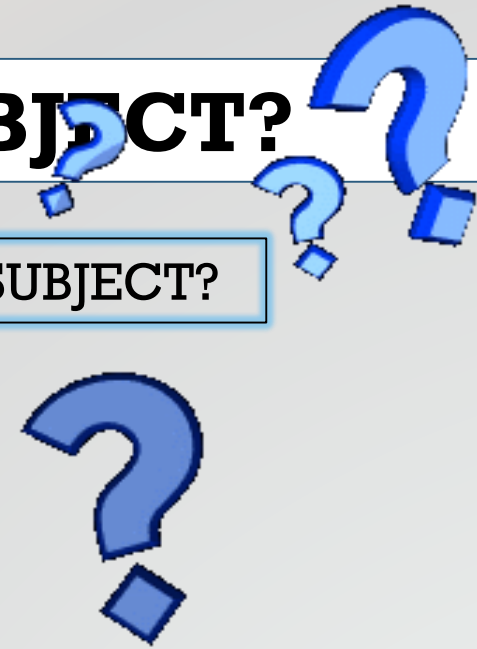
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HOW CAN WE ANSWER THE MAIN QUESTION OF THIS SUBJECT?

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Third, many academic laboratories focus on strategy. This includes subjects as: technological forecasting, comparison of industrial strategies in the field of technological development and decision making to optimise technological resources. Sustainable development implies an evolution in the criteria integrated in strategic objectives of nations or companies.



ARE WE HAVING AN OUTLINE OF THIS SUBJECT?

MAIN TOPICS

Project Management Integration

Common IT tools for business

Management tools to manage
documentation, resource pools,
and project costs and schedules

Software for supporting
stakeholder and teams
communications



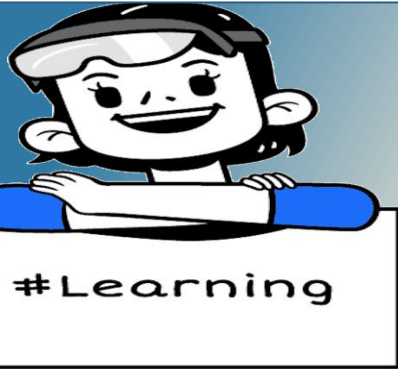
ARE WE HAVING AN OUTLINE OF THIS SUBJECT?

DETAILED TOPICS

- Overview on knowledge and information management
- Technologies and knowledge structures, best practices, interfaces and models
- Sustainable development, Quality and Communication issues and solutions
- Approaches to manage new products, design and innovation outcomes
- Information Technology and Organizational Factors in Customer Service Management
- Exploring ERP-Systems and CRM



WHAT WILL YOU LEARN AFTER FINISHING THIS COURSE?



- Understand different common tools for management.
- Appraise the features, advantages, and disadvantages of typical information systems, from simple spreadsheets to enterprise systems, and demonstrate which project contexts may be best suited for certain types of PMIS and why.
- Given a complex project context and its plan, use one or more information systems to recommend a suite of tools, and demonstrate how the information systems will be used to monitor and control project deliverables.

WHAT WILL YOU LEARN AFTER FINISHING THIS COURSE?

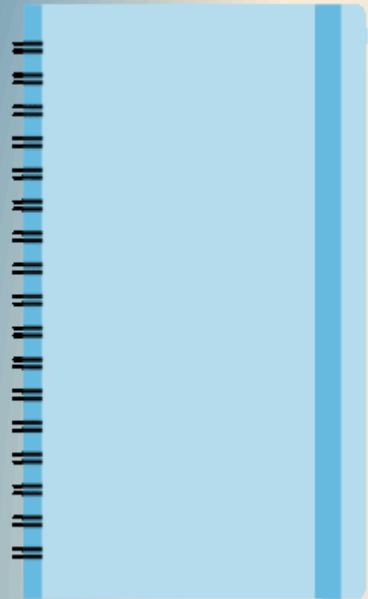


- Demonstrate how collaboration and communication tools that are provided in a PMIS can be used in various types of projects and defend the best practices in the use of these tools.
- Use a step-by-step process to manage projects faster while using fewer resources.
- Avoid common pitfalls and mistakes in managing projects.
- Explore different online tools that can be incorporated in the project management tasks.

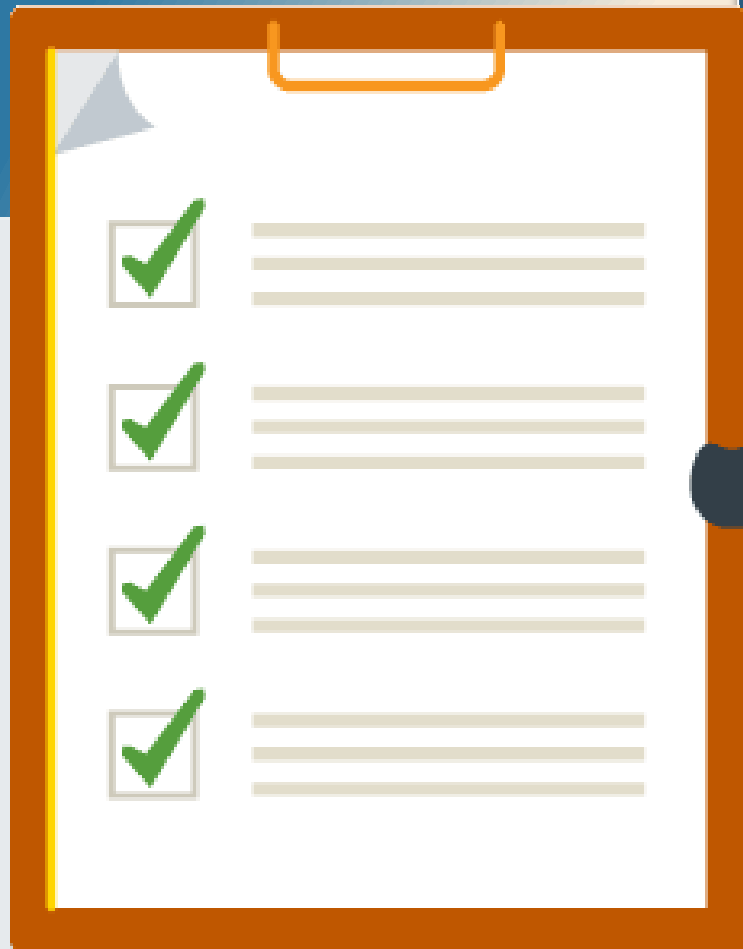
What I expect from you?

STUDY
STUDY
STUDY
STUDY

What I expect from you?



What I expect from you?



What I expect from you?



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thank
you!