

Enhancing Practical and Applied Learning Environments in Informatics Engineering Faculties

تعزيز بيئات التعلم العملي و التطبيقات في كليات الهندسة المعلوماتية

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Problem / Objective

Faculties of Informatics Engineering face a gap between academic education and market requirements, due to weak infrastructure (such as internet connectivity and equipment) and the dominance of theoretical and rote learning methods in lectures and examinations.

Method / Design

The solution relies on practical, simple pathways that do not require large budgets:

- 1- Restructuring the evaluation system: Focusing on project-based software evaluation.
- 2- Participatory learning among students: Activating student initiatives to transfer expertise.
- 3- Linking with the labor market: Opening avenues of cooperation with local companies to sponsor student projects and provide practical training opportunities.

Results

A radical shift in educational quality: Moving from rote learning to building a software portfolio. Optimal utilization of student resources: Empowering students to rely on their personal laptops and activating student initiatives. Increased professional readiness: Raising the proportion of students capable of entering the local labor market and working remotely during and after their studies..

Conclusion

Developing technical engineering education does not always require overly complex infrastructure; rather, it begins with shifting the evaluation approach toward practical application, activating participatory learning among students, and networking with the labor market. Providing this enabling environment for students in their early years is the real investment toward building competitive and innovative engineers.