

INSTITUTIONAL BEST PRACTICES

BEST PRACTICE -1

Title of the Practice: Implementation of innovative methods in teaching – learning process

Goal of the Practice:

- ❖ Driving the concepts home through project based learning approach
- ❖ Learning by doing
- ❖ Inculcating cognitive & computational thinking and programming capabilities
- ❖ Design and development of efficient and economical ways of solving real life problems

Context:

The current practice of paper based evaluation system in the middle and end of the semesters is not giving much scope to students to apply their concepts to develop a product or a service that solve a real life problem. There is a growing need for tools both hardware & software which will prompt the students to think innovatively and come up with the solutions that are time & cost effective

Practice

Students who build circuits in their very first year of engineering using electronic workbenches can design circuits to address practical problems by the time they reach final year.

Programming has become an enigma for many engineering students. Using innovative software tools like programming workbench will motivate them to learn and apply code to solve practical problems

Also, e-Learning through Virtual labs, YouTube videos, MOOCS, TED lectures and other related sources make learning easy and pleasurable

Evidence of success:

More and more students participating in Coding and IoT design competitions.

Students developing IT & Engineering products for solving existing problems or for new applications

Problems encountered and Resources required.

It takes a lot of time and effort to get acceptance of teachers & students to embrace new technologies.

BEST PRACTICE -2

Title of the Practice: e- Governance

Goal of the Practice:

The goal of the practice is to provide effective and easy way to automate the functionalities of the Institute and to provide information about the students and staff to the stake holders by way of digital campus software and college website. Digital campus software which is being used by our institute provides various types of educational related services like maintaining attendance, internal marks, work load of staff members, leave history, mentoring data etc., thereby reducing human error and paper work. The college website www.gpcet.ac.in provides information about

the various departments of the institution, vision, mission, placement details, facilities provided etc.

Context:

Our institute has an intake of 600 UG students and 174 PG students every year and has a total strength of around 3000 students in the campus. To maintain the records of all these students manually is a huge task and there are chances of committing errors. Hence digital campus software is being used by our Institute to store information about various types of educational related services like maintaining attendance, internal marks, work load of staff members, leave history, mentoring data etc., thereby reducing human error and paper work.

Practice:

Digital campus software is loaded with main features like Admissions, Academics, Correspondence, Library, Administration etc. by which the details of attendance, internal marks, work load of staff members, leave history, back logs of students, mentoring data etc. which can be accessed when necessary by both the staff as well as the student using their Login Id and Passwords.

The access to the software can also be done through the institute website www.gpcet.ac.in.

Evidence of Success

- ❖ The information regarding any student or staff can be accessed in minimum amount of time.
- ❖ The analysis of marks and attendance can also done easily.
- ❖ As the log-in access is also given to the parents, the parents are being able to access the information about attendance, marks etc of their wards in minimum amount of time.
- ❖ Effective management of resources.
- ❖ Interaction between the faculty and students has also increased.
- ❖ The information is stored centrally and no redundant data is stored.

Problems encountered and Resources required

- ❖ There will be problem in accessing the data when the network is down.
- ❖ There is a chance of files getting corrupted.
- ❖ A separate high configuration server is to be allotted for this software.


Principal

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