Bharati Vidyapeeth's College of Engineering, Kolhapur
Year 2020-21

Best Practices

Department of Computer Science Engineering

1. **Title of the practice: Organization of Value Added Course on recent technologies**
   - **Goal:** To improve competency related with employability with the help of the field specific value added courses
   - **The context:** In the context of inclusion of newer topics and technologies in the field of Computer Science and Engineering, it is difficult to imbed them in the syllabi that changes after certain interval of academic tenure. The Value Added Courses in this field was the need for updating students in the line of the changes occurring in the field of Computer Science. They are independent of their kind and designed for the certain field related skills development of the students. Therefore, certain Value Added Courses were organized. No university curriculum can adequately cover all areas of importance or relevance. It is important for higher education institutions to supplement the curriculum to make students better prepared to meet industry demands as well as develop their own interests and aptitudes. Our college offers a wide variety of these types of courses. These courses are conducted by professionals and industry experts and help students stand apart from the rest in the job market by adding further value to their resume.
   - **The practices:**
   1. Planning of a Certificate Course to train students in Python Programming Practice Approach by the Department of Computer Science.
   2. Planning of a Certificate Course to train students in Data Science & Machine Learning using Python.
   3. Conducting these courses by the industry experts to equip students with latest trends in the industry and thus enhance employability.

- **Evidence and Success.**
  1. Attendance of the subject is improved and students got Best Attendance Award.
  2. The students got the Best Project Award.
  3. The teachers received appreciation letter for achieving good results.
  4. The teachers received appreciation certificate for the Best Students Feedback

- **Problems Encountered:** It was found that the students were not sufficiently aware of the recent developments in their field of knowledge. They heard about the said topics but devoid of training outside the classroom. When the Department suggested this initiative, the students wholeheartedly participated in the training.

- **Resources Required:** 1. Teaching aids should be improved
                                        2. More emphasis should be on indirect industry orientation of the students.

Department of Mechanical Engineering

2 Title of practice:

An Educational website "www.simgraph.wordpress.com" for the First Year Engineering subject Engineering Graphics.

- **Goal:**
- Enhancing student-to-student and faculty-to-student communications.
- Enabling student centered teaching approaches.
- Providing 24/7 accessibility to course material
- Providing just-in-time methods to assess and evaluate student progress.

- **Context:**

Today, the role of educational technology in teaching is of great importance because of the use of information and communication technologies. With the help of various applications of the internet, teachers and students see the advantage of educational technology. The presence of educational technology is growing in the classroom. The new generation of students is ready to work with these new technologies, which play an important role in students learning and acquiring knowledge.In this context, internet website for learning finds great benefits to students.

- **Practice:**
  To get benefitted by internet technology, a website "www.simgraph.wordpress.com" for first year engineering subject Engineering Graphics has been developed by Mr. M. S. Shinge, faculty from Mechanical department.

  The features of website:
- Notes for each topic containing engineering drawings drawn by using Auto-Cad software.
- Topic notes are made interesting by using animated pictures.
- Question bank for each topic is uploaded.
- Useful links of other websites and youtube videos for particular topics are provided.

- **Evidence of success**

This website is started from academic year 2016-17. Impact of this activity is reflecting in the result of subject Engineering Graphics. 10 students got distinction in university examination.

User students of this website are increasing continuously.

Year	No. of views
2016	2367
2017	1298
2018	6778
2019	20429
2020	20312
2021	14325 (March 2021)
Total	**65509**

- **Problems encountered and Resources required:**
- Requires strong time management skills and self-motivation
- Internet and technology-dependent—susceptible to network connections, browser compatibility issues, etc.