

BAPURAO DESHMUKH COLLEGE OF ENGINEERING, SEVAGRAM

Best Practice-I (Academic Year 2020-21)

- 1. Title of the Practice** : To adopt on line and Digital Education system for Continuous Learning and Assessment during Pandemic situation
- 2. The context that required the initiation of the practice** : In the current adverse situation of COVID-19 pandemic it was not possible for BDCE to carry out the work of continuing teaching and evaluation physically in concurrence with its academic calendar because of phase of lockdown from March 2020. In order to meet this challenge BDCE decided to adopt the online & Digital Education system.
- 3. Objectives of the practice** :
 1. To carry out the continuing teaching and evaluation process as per academic calendar framed by the institution
 2. To conduct the examination of students using digital platform
 3. To conduct various meetings with the management, faculty, students and parents through digital platforms.
 4. To conduct practical & laboratory examinations through virtual labs.
 5. To obtain feedback from the stakeholders using digital platforms.
- 4. The Practice** : All faculty members actively started using platforms like Google Classroom, Google Meet, Google Forms and Moodle (an open source LMS) for effective teaching and evaluations. For examination and evaluations faculty has made an active use of mix of Google forms and Google classroom and Moodle ensuring full adherence to the government orders with respect to lockdown along with ensuring timely conduct of various assessment. Students were asked to submit the answer books through mail or any convenient or available digital mode to the course teacher. End Semester Examination was also conducted by the affiliating University through this methodology. Group Discussions were conducted through Google Meet/Zoom/ any other video conferencing app or any convenient online mode best suited to the students and teachers. Practical Examinations were conducted using virtual labs. For checking the authenticity of having conducted the examination, teachers were asked to submit the soft copy of all the papers and answer books to the Heads of Departments. Online meetings were conducted through Google Meet, Zoom, WebEx, GoTo Meeting apps.

- 5. Obstacles faced and strategies adopted to overcome them** : Availability of adequate smart class rooms, Smart Connectivity and Network management, Smart Virtual Laboratories and necessary fund for providing these facilities were the obstacles faced by the institute. Initially special fund was earmarked at an emergent level for purchasing necessary equipment. Faculty & students were asked to refer videos for getting familiar with different apps. Internet connectivity provider was asked to provide interrupted connectivity. ICT facilities were upgraded.
- 6. Impact of the practice** : Faculty members are actively using platforms like Google Classroom, Google Meet, Google Forms and Moodle (an open source LMS) for effective teaching and evaluations. During the lockdown period there was no loss to student's academic schedule with continued teaching through these platforms. The teaching and learning process continued in the form of video lectures, content sharing and live lectures through virtual classrooms and Google Meet. Students have been motivated to opt for MOOCs and SWAYAM Platforms to earn credits up to 20 percent credits of the total credits of the programme through online learning and examination. All stakeholders got familiar with digital platforms.
- 7. Resources required** : All Stakeholders of BDCE along with different digital platforms like as NPTEL, SWAYAM, UG/PG MOOCS, National Digital Library, Virtual Labs, Spoken Tutorials, e-shodhSindhu, Coursera etc.
- 8. About the institution** :
 - i. Name of the Institution : Bapurao Deshmukh College of Engineering, Sevagram
 - ii. Year of Accreditation : 2018-19
 - iii. Address : Near Bust Stand, Sevagram, Tah.Dist. Wardha, Maharashtra, Pin-442 102
 - iv. Grade awarded by NAAC : B+
 - v. E-mail : princi.bdces@gmail.com
 - vi. Contact Person for further details : Mr.R.J.Dahake, Co-ordinator, IQAC
 - vi. Website : www.bdce.edu.in

BAPURAO DESHMUKH COLLEGE OF ENGINEERING, SEVAGRAM

Best Practice-II (Academic Year 2020-21)

1. **Title of the Practice** : Creation of Research Culture among Undergraduate Students
2. **The context that required the initiation of the practice** : There is a need to develop the research and innovation culture among the students for their holistic development. Students of the First Year and Second Year are encouraged to publish research papers on the general topics and the students of the higher level are expected and motivated to produce their project and case study work in the form of research papers to acquire the skill sets to analyze, to create, to evacuate as a program outcome. To accomplish it students are motivated to publish their work in the form of research papers so as to demonstrate their work at the departmental and institute level. Students need to be encouraged to go beyond the curriculum with the help of the internet and information and communication technology (ICT) enabled facilities. In other words the need is to optimize student research potential with the use of information technology.
3. **Objectives of the practice** : To inculcate research culture among undergraduate students
4. **The Practice** : The students of the first are required to choose their activity under the title of Activity Based Learning for different courses among the various activities prescribed by the course teacher. Then the students have to submit a report of their activity. The students of second year and third year have to develop the report / research paper on mini project, case study. The students of final year of UG Program and PG Program to publish their research work in the form research papers in the journals or conferences. The students of all the years are also encouraged to participate in the national level techfest WheelSpin to exhibit their innovative and participative skills.
5. **Obstacles faced and strategies adopted to overcome them** : The problem of searching, compiling, presenting, analyzing, evaluating, and creating data/topic in the given format. To overcome this obstacle the students are provided ICT tools, discussion with mentor and project guide as well as course teacher.
6. **Impact of the practice** : The students are able to acquire the skills of remembering, understanding, analyzing, evaluating, and creating in addition to it attainment of program outcome.
7. **Resources required** : Internet bandwidth, mentoring, library, course teacher, project guide, research journals.

8. About the institution

:

- i. Name of the Institution : Bapurao Deshmukh College of Engineering, Sevagram
- ii. Year of Accreditation : 2018-19
- iii. Address : Near Bust Stand, Sevagram, Tah.Dist. Wardha,
Maharashtra, Pin-442 102
- iv. Grade awarded by NAAC : B+
- v. E-mail : princi.bdces@gmail.com
- vi. Contact Person for further details : Mr. R.J.Dahake, Co-ordinator, IQAC
- vi. Website : www.bdce.edu.in
