Best Practice 1

1. Title of the Practice: Promoting Social Activities

2. Objectives of the Practice:

Develop a sense of social and civic responsibility in students

3. The Context:

Students are motivated to utilize the knowledge in understanding and finding practical solutions of community problems.

4. The Practice:

NSS unit adopted "Vadhu Budruk" village and every year seven day residential special camp is organized. Students contribute to the village development in consultation with the local authorities. Apart from NSS, various social activities are conducted.

5. Evidence of Success:

Activities conducted under NSS

2020-21	Tribute to Hon. Late Vilasraoji Deshmukh
2020-21	Tribute to Hon. Late Dr. Shankarraoji Chavan
2020-21	Constitution Day 2020
2020-21	NSS DAY 2020
2020-21	International Day of Yoga
2020-21	Tree Plantation

Activities conducted apart from NSS

Organized Quiz on their great life as a tribute to Late Hon. Shankarraoji Chavan, Founder President & Late Hon. Vilashraoji Deshmukh, Former Chairperson of the Trust.

Corona awareness program, Mental Hygiene & Immunity Booster Workshop etc.

6. Problems Encountered and Resources required

Limitation to spare more time due to rigorous academic schedule

7. Notes (Optional)

Outcomes of social initiatives are inculcating social welfare in students and grow as social and civic responsible citizen.

Best Practice 2

1. Title Enriching teaching-learning activities in the institution using ICT

2. Objectives of the Practice:

1. To adopt ICT for online teaching and learning, evaluation and assessments
2. To adopt ICT for curricular and extracurricular activities

3. The Context:

At present COVID-19 has an impact on every aspect of our lives including classroom education. Students can't attend college physically for their classroom studies. Online education plays a crucial role in coping with these situations and it makes it convenient for the students to attend their classes from their homes.

The institution has adapted ICT for several teaching-learning activities including creating and sharing teaching material, learning level identification, delivery of lectures, monitoring attendance, assignments, interaction and doubt clearing, conducting examination, continuous internal evaluation and assessment, practical on virtual lab platform, oral examination, project presentations, organizing meetings with students and staff, placement activities, etc.

4. The Practice:

1. 100% faculties have prepared the teaching materials keeping in view the online teaching methodology.
2. The teaching material is available to students through the online platform (Google Classroom).
3. Learning levels of students are identified by conducting online tests based on the prerequisite knowledge.
4. Online interactive lectures are scheduled as per the time table.
5. Faculties have adopted various ICT tools for delivery of the online lectures. PowerPoint / Google Slide presentations, videos, animations, digital writing pads, smart interactive boards, chalk and board live audio-visual sessions, self-developed audio visual systems with pen and paper explanation.
6. Practicals are conducted in possible ways. Faculties perform the experiment in the laboratory and the recorded / live sessions are shared with the students.
7. The institution has obtained a Virtual Lab Nodal Center (VLNC) from IIT Bombay. To give a hand-on experience, students are guided to perform virtual laboratory experiments.
8. For practical sessions, wherever possible online software developing platforms such as python, android studio, Google Colab, C, C++, Java, Eclips, etc are used.
9. The demonstration of specialized software such as matlab, cad-cam, CATIA, etc is provided in online mode through screen sharing.
10. The assignments are submitted by students online and their assignments are carried out online by the faculties. Grades are calculated and Rubrics is developed for the assignments.

11. The internal examinations, assessment and evaluation is carried out online and the evaluation sheet is shared with the students in live mode. This makes the students aware about their progress at any point of time.
12. Oral examinations, demonstration of students and project presentations are carried out online through Google Meet.
13. Teacher Guardian, Class Teacher, HOD, Principal, Administrative office interactions meetings are organized at a regular interval with students and parents.
14. Interaction with Training and Placement officers and interviews are conducted in online mode. Many activities of training and placement such as quantitative aptitude training and life skill programs, career development and personality grooming, GATE examination guidance, short term training on AutoCAD, training workshops, aptitude training, life skills sessions, interaction with industry personalities, personality development, online internship programs, career development, ideation competition, soft skill improvement, etc.

5. Evidence of Success:

1. 100% faculties have moulded themselves and adopted for a changed scenario of online teaching-learning process.
2. The results of the students have improved and are in the range of 90 to 100%.
3. The placements of eligible students are above 90% in the academic year 2020-21.

6. Problems Encountered and Resources Required

1. The availability of a good quality smartphone, laptop, desktop, good network and internet connectivity, broadband, is necessary at both ends of students and teachers.
2. Most of the students of the institution are from rural areas and poor family income. The availability of above resources is challenging for many students and an additional financial burden.
3. It is important to develop practical skills for engineering education. Performing experiments, live and hands-on practical sessions on equipment is not possible in online teaching learning mode. The projects that are performed by students are in the software domain. For mechanical engineering students, performing projects and internships in core industries is not possible in online mode.

PRINCIPAL