



Walchand College of Engineering, Sangli

(An Autonomous Institute)

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Best Practices I

Title of the Practice:

Enrichment of Teaching and Learning Process

Objectives of the Practice

- To orient the students by imparting basics of outcome-based education at the outset of semester
- To involve expert academicians, industrial personnel and internationally renowned pedagogical experts in curricula content revisions
- To involve industrial personnel for additional study sessions in and off the classroom
- To enable the students to compete at global level

The expected outcome is that the students should be able to complete their degrees with good academic grades and compete at national and international level.

The Context

Enrichment of teaching learning process through regular addition of interdisciplinary courses in curricula as Professional Electives and Open Electives.

The Practice

- i. Implementation of MOOC, E-learning, flipped classroom and “Think–Pair–Share” concepts in multimedia and smart board equipped classroom
- ii. Additional coaching for slow learners through remedial classes, Enrichment through interdisciplinary courses for advanced learners
- iii. Involvement of industrial personnel for additional study sessions in and off the classroom
- iv. Counseling the students having poor academic performance
- v. Dynamic curricula structure strictly in adherence with AICTE guidelines. Annual purchase of high end equipment and software for the development of state of art laboratories with additional virtual lab facility having remote accessibility
- vi. Grade moderation in relative grading to result into efficient and effective practice for students’ academic grade moderation
- vii. Internal quality audit for question paper setting and assessment
- viii. Internal academic audit conducted twice a year to monitor, and to assess planning, delivery, evaluation, and attainment levels for every course, and improve the quality of teaching-learning process through counseling and appreciations.
- ix. Student feedback on organization, assessment, and delivery of course contents, counseling and guidance, twice a year to rate course teacher individually and relatively with other course teachers of that class thereby providing an opportunity for teachers to address their strength/s and weakness/es.

Evidence of Success

1. Increase in Academic performance index of students

	API
2014-15	7.84
2015-16	8.13
2016-17	8.19

2. Increase in GATE score of students at all India level

Sr. No.	Candidate Name	Branch	All India Rank
1	Harshal Gokhale	Electronics	135
2	Soham Chintawar	Civil	458
3	Shubham Baisthakur	Civil	745
4	Anup Gaggar	Civil	1463
5	Akshay Bajrang Jawale	Mechanical	1526
6	Shivraj Jadhav	Electronics	1542
7	Ashish Kondalwade	Civil	1663
8	Kumbhar Abhinandan	Mechanical	2500
9	Zambre Kapil M	Mechanical	2750
10	Chirag Padmwar	Civil	2774
11	Piyush Powar	Civil	2999
12	Ameya Venikar	Electrical	3026
13	Sayali Gosavi	Civil	3030
14	Indrajeet Kadam	Electrical	3129
15	Patil Vaihav	Mechanical	3192
16	Vitthal Pandhare	Electronics	3321
17	Kapase Akash H	Mechanical	3476
18	Swati Pawar	Civil	3514
19	Suraj Pawar	Electrical	3607
20	Onkar Thorat	Electronics	4813

Problems Encountered and Resources Required

Please identify the problems encountered and resources required to implement the practice (in about 150 words).

- i. 24 X 7 access to archived study material, digital library in addition to dedicated set of text books through central library and off academic hours access to departmental library
- ii. IT infrastructure is revised through TEQIP to support the enrichment and use of E Learning platforms

Best Practices II

Title of the Practice

Enrichment of Skill Sets of Student

Objectives of the Practice

- To promote the students for their involvement in co-curricular activities
- To enhance interaction of students with outside the campus
- To train the students for additional skills than academics

The Context

Engineers are the problem solvers that power the modern world. They design, build, test and maintain the systems that we encounter on a daily basis, from our houses and road to the devices we use at home, work. There are many careers in engineering, but these principles guide the role of an engineer. Hence they need a wide skill set

Key skills for engineers

- effective technical skills.
- the ability to work under pressure.
- problem-solving skills.
- creativity.
- interpersonal skills.
- verbal and written communication skills.
- commercial awareness.
- teamworking skills.

The Practice

- i. Industrial training and internship since second year of UG program

- ii. Imparting need based training to the students to enhance employability and entrepreneurship
- iii. one-semester credit transfer through academic linkages with other reputed colleges to have exposure to different learning environments
- iv. Conducting guest lectures, workshops and seminars to encourage higher education within and outside the country
- v. Provision of language lab equipped with updated software
- vi. Extension of additional technical facilities such as open source platforms, software engineering codes and practices, plagiarism and grammar checks
- vii. Reimbursement of registration fees for paper publication
- viii. Proctor system - each faculty member work as a proctor for a group of twenty students (five each from First year to final year B. Tech program) for counseling and better performance of students.

Evidence of Success

UG Internship Details	
UG Students Internship in Industry	87
PG Students Internship in Industry	73

Problems Encountered and Resources Required

Development of linkages with other reputed Colleges and industries, was needed, which is addressed and evolved.