



Best Practice – 1

Title of the Practice: Teaching and Learning Process

Objectives of the Practice:

Rao Pahlad Singh College of Engineering and Technology desires to impart appropriate knowledge; skill and training to enable the students become qualitative practitioners of their profession. Teaching and learning process is the focal point in the whole of educational activity. Changing face of education and rapid advancement of technology on one hand and changing perceptions among the millennial students as well as induction of new generation of teachers on the other hand challenge the whole gamut of teaching learning process. The crux of this practice is to train the facilitators in better teaching learning processes for enhanced deliverance of learning.


The Context:

In the past few decades, there has been a paradigm shift in teaching methodologies. It has moved from teacher centric approach where the learner is a passive participant to student centric approach where a teacher is just a facilitator to student's learning. In addition, the massive advancement of science and technology coupled with the expectation from native millennial student generation, has impacted and shaken the concept of teaching. Often, those joining the teaching community recently are also of millennial generation. In this context, it is imperative that the teachers are trained appropriately to carry forward the teaching learning process in an effective and smooth way. The shift in generational outlook, that is, the young tech savvy brigade joining the ranks of teaching and older generation teachers who need to become more versed with technology, can be achieved only through timely and interventional training.

The Practice:

Since its inception, Rao Pahlad Singh College of Engineering and Technology has taken measures to ensure that teachers are adequately trained in the teaching methodologies. In this regard, faculty development programmes for teacher training are continuously conducted; the resource persons for these programmes may be from national teacher training organizations or the senior faculty members within the campus. Sometimes, teachers are given an opportunity to attend such programmes outside the campus.




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At Rao Pahlad Singh College of Engineering and Technology, newly recruited faculty members having less than two years teaching experience are given orientation by the senior professors. During the orientation programme, the participants are given an opportunity to have practice teaching sessions along with teaching methodologies. All new members are encouraged to observe and be a part of classroom proceedings of senior faculty classes.

Evidences of Success:

The faculty with less than two years becomes more confident in handling the classes. The perspective shift from a student to a faculty is visible as most often, the newly joined faculties are also millennial. They are tech savvy but their outlook towards teaching is not a very informed one.

The lockdown during pandemic was a game changer. The above initiatives helped the faculty to adapt online teaching in no time during the pandemic. The faculty became versatile in implementing active teaching learning methodologies using the technology. The awareness ignited the adaptability and explorative nature of the faculty that was evident in the successful implementation of online teaching learning.

The reluctance to use technology or collaborative teaching methods among the seniors has slowly given way to a more positive acceptance. They are implementing quiz, peer teaching, group or team learning and flipped classroom methods. Blended classroom has been a boon in the post COVID situation. Classes were conducted in both online and off line format.

Problems encountered:

Many problems were encountered while implementing teaching learning development activities.

1. In flipped class room, students may not be game to advance preparation of the topic. They may skip the pre task assigned by the faculty thereby attending the class with zero prior knowledge that leads ineffectual learning.

2. Prior preparation by the students may create or promote unhealthy digital divide among the students.

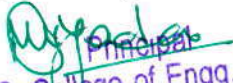
3. Use of technology in blended learning can cause cognitive overload on the learners.

4. Also, IT literacy among the faculty is one of major disadvantages in adapting new technology in learning.

5. All students may not have suitable access to technology or internet bandwidth.

Despite adapting latest methods in teaching learning, we cannot ignore the fundamental chalk and talk method. Rao Pahlad Singh College of Engineering and Technology tries to maintain a fine balance between the old and new versions of teaching learning.




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Best Practice – 2

Title of the Practice: Academia and Industry Collaborative Activities

Objectives of the Practice:

Rao Pahlad Singh College of Engineering & Technology believes providing its students every chance to progress beyond the traditional curriculum, to augment their learning experiences and enhance their career opportunities and choices. Upon completion, the graduate will possess specific skills and competencies needed to work as a trained industry ready professional. The objective behind this practice is to provide an additional learning opportunity to all the students within the four year graduation programme time at a very affordable price.

The institution thus tries to fulfill its core value of 'Promoting Collaborative and Self Learning'.

The Context:

All engineering students hope to land a dream job on completion of the programme. But curriculum syllabus may not suffice for reaching the goal. In this context, the college has taken an initiative to provide additional certification or training courses and prepare the students to be industry ready endowed with right attributes of an engineer. Rao Pahlad Singh College of engineering & Technology has entered into agreement with central and state government supported skill development organizations, companies and academic institutions for implementing skill enhancement and certification programmes. The college has a tie up with the specific related programmes which are open to students of all the disciplines. The students, thus, are given an opportunity to build awareness and pursue interdisciplinary programmes after the completion of the course or internships. The students can also save time as many of the programmes are fast paced. In case of online programmes, students can pursue the courses at their own pace.

The Practice:

In 2017, the college has inked MoUs with Zapbuild Technologies Pvt. Ltd. for Skill Development, Outcome Based Trainings, Placements, R & D Services and related services. For the students and faculties. The college has number of agreements with many reputed national and international organizations like Microsoft, Byju's Learning App, Amazon & many more for skill development programmes among faculty and students. The college has agreement with Technomatics Solutions Pvt. Ltd. for providing Training, Placement and IT Solutions.




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In 2018, the college has signed a MoU with CADD Centre Training Services Pvt. Ltd. to provide employable skills to the students through training & placement. Further, the college has inked a MoU with SOFCON India Pvt. Ltd., New Delhi to act as knowledge provider & for assessment for skill competency to conduct training and assessment. Swar Yantra Technologies Pvt. Ltd. to improve employment opportunities for our students.

In 2019, our college signed a MoU with Triedge Solutions Pvt. Ltd, New Delhi for providing Recruitment, Lateral hiring, Campus Hiring, Internship, Trainings, Resume Writing Services & other career related services.

In 2021, we again signed a MoU with TESTBOOK EDU Solutions Pvt. Ltd., for proving services under Testbook Skilled Campus Program, placement preparation activities, career membership programs, internships and full time opportunities. Then we signed a MoU with CSIR- CEERI, Pilani for providing opportunities to the students like R & D, student exchange, sharing of academic information & joint conferences. After that, we got an opportunity to sign one more MoU with ELEATION Services Pvt. Ltd., Pune for providing on- placement services to our students and also provides expert lectures, training & Internship as well. Then many more MoU with companies like KHUSUBU Enterprizes, Clariant IGL Specialty Chemicals Private Ltd., India Glycols Ltd, Kashipur, Noor Electricals, Sona Mandhira Pvt. Ltd., Manesar & many more.

In 2022, we signed a MoU with Atal Incubation Centre- Manipal University, Jaipur for providing knowledge about start-ups & tech support to the graduating students in technology field. Further, signed a MoU with Saylor Academy for providing skill developmental programs. Also with Pearson India Education Services Pvt. Ltd. for career oriented services to our students. One more MoU with India Block Chain Alliance, IBA/ TPCRA World, New Delhi for providing services in R & D in areas of blockchain & multiple emerging technologies as well as imparting industrial training to the engineering students. Then again got an opportunity to ink a MoU with Edify Educational Services Pvt. Ltd., Telangana to give insight to the students from industry leaders along with training & placement services.

Apart from these collaboration activities, the institution encourages online learning during the pandemic situation. Our institution is a local chapter for NDLI Club promoted by AICTE.

Evidences of Success:

The initiatives taken up to promote additional certification courses or internship have been quite successful. More than 50 students were certified in various companies for getting training. Around 500 students and faculty were benefitted through NDLI courses.

The institution could promote online learning through its tie up with NDLI. A huge number certification courses were done by the students of Engineering & Technology. Same way, many ECE students did internship in the government organization like BSNL.




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The students who have undertaken the courses could perform well at their interviews in their technical rounds. Many alumni felt that these job oriented certification courses enhanced their performance in domain areas at their workplaces also. The institution has taken the clarion call given by the government to skill the youth of India in latest technologies that would promote their career graph and enable them to venture into new horizons.

Problems encountered:

1. Conducting the programmes which are interwoven with the university syllabus is difficult to implement as it would require lot of readjustments and rescheduling of class as well as individual time tables.
2. Students may feel daunted by additional certification programmes. The students have to pursue the programme courses. Student may find it difficult to cope with the additional course work.
3. The academic calendar is normally fixed. But in unforeseen circumstances, the examination schedule is rescheduled. In such cases, the programme schedule might interfere with examination schedules.
4. Additional online programmes can be pursued by the students in the comfort of their homes. However, some students may not have access to internet or suitable bandwidth for pursuing the courses at home.




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