

Metric No.	
7.2.1 Q1M	<p>Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual.</p> <p>Practice I</p> <ol style="list-style-type: none"> 1. Title of Practice I: ICT based initiatives in teaching learning 2. The Goal: The specific goals are: <ul style="list-style-type: none"> • To inculcate in the faculty the technological competence to strengthen teaching learning. • To promote ICT culture in the college. • To supplement the traditional chalk and talk method by novel teaching approach. • To make teaching and learning interdisciplinary by tapping resources available on internet. • To make optimum use of the ICT facility in classroom practices 3. The Context: <ul style="list-style-type: none"> • ICT makes teaching easier, student friendly, contently and interesting. It makes the classroom more and more responsive because it gives both audio and visual effect. • Student understanding is enhanced because they comprehend whatever is taught. • ICT based programs like MOOCS, NPTEL, etc. help to improve the teaching skills as well as it helps students for competitive exam preparation. 4. The Practice: Institution has developed all classrooms are smart class rooms, well equipped with necessary infrastructure (Smart Board, LCD projectors, Audio/video aids with internet etc.). It is made mandatory for each teacher to deliver lectures as possible by preparing PPTs in an academic year. High speed internet facility is provided to all the departments in the college. Computers and Printers are also provided to many of them. IQAC convened meetings with the teachers and encouraged them to make optimum use of ICT facilities for making teaching learning more and more interesting. The RCPIT's ICT based education ensures students and faculty to keep updated with latest technology and research trends through various tied-ups / associations like; Coursera, National Program on Technological Enhance Learning (NPTEL- MHRD, New Delhi), Quality Enhancement in Engineering Education (QEEE- IIT Madras), Center for Distance Engineering Education Program (CDEEP- IIT Bombay and IIT Kharagpur).

On an average, 20-25 co-curricular courses are conducted per year using these platforms to update faculty and students' knowledge on latest trends in industrial technology. NPTEL videolectures are available at the college libraries which are used by both faculty and the students. For the students who are interested in PG studies, RCPIT has e-learning platform of various entrance examinations like; GRE, TOEFL and GATE. Students and faculty are encouraged for certification courses through Massive Open Access Courses (MOOCS). About 100 plus certifications per year have been completed by students and faculty.

RCPIT is one among the pioneer institutes who has tie-up with IIT Bombay from its' CDEEP program right from its inception. RCPIT has tie-up with IIT Kharagpur in terms of virtual classrooms and laboratories. RCPIT has also tie-up with IIRS, Dehradun for its EDUSAT programme. It provides a suitable environment to improve and assist the learning and/or experimentation process contributing to an increase in the effectiveness of scientific research and widening the use of scarce or costly equipment.

To bring effective class room management and to be aware of different teaching methodologies, the college encourages the faculty to attend IIT Bombay Wipro sponsored FDP's and pedagogy programs

5. Evidence of success:

In this regard 10 of our faculty were awarded as best performers in ICT based 2 months workshop by IIT, Bombay and are invited to be resource persons for upcoming workshops. Beside this, RCPIT has developed its own virtual learning platform in collaboration with Amrita University for conducting multiple sessions. Institute's effort in ICT based education has been rewarded by many forums. For e.g. IIT Madras, has granted RCPIT a 'Partner' category for its QEEE program (one among three institutes in Maharashtra) consecutively for three semesters.

Communicative competence of the students improved drastically because on viewing the PPTs and video clips, they naturally feel to react on the issues.

6. Problems encountered & Resources required

ICT infrastructure is expensive and therefore requires massive investment.

7. Notes (Optional) Any other information that may be relevant and important to the reader for adopting/ implementing the Best Practice in their institution (about 150 words). : - NIL

Practice II

1. **Title of Practice II: Promoting engineering education in tribal region.**
2. **The Goal:** To bring the tribal students into the main stream of engineering education.
3. **The Context:** R. C. Patel Institute of Technology, Shirpur is situated in tribal region which has 48% tribal population as against the national average of 8%. That result in poor literacy of 64%.The students from tribal area are expected to be strong in academics and have good industrial exposure. Institute encourages them to adopt latest developments in engineering education.
4. **The Practice:** To attract these students towards technical education and to create awareness among the tribal student, R. C. Patel Institute of Technology, Shirpur has been arranging engineering counseling programs since 2006. In this counseling programs information related admission process, various scholarship schemes are made available for this category by central and state government. Institute motivates them to develop the skill, knowledge and attitude that are needed to make an effective start as member of the industrial profession. Institute also supports financially by offering concession in admission fee for economically backward students.
5. **Evidence of success:** As a result of that, in previous four year enrollment of tribal students and their passing percentage are steadily increasing.
Airbus, the Global Leader in Aeronautics, Space and the Global Engineering Dean Council (GEDC), the international organization for leaders of schools and colleges of engineering has shortlisted The team of R. C. Patel Institute of Technology, Shirpur along with 10 teams from engineering stream around the world for fifth GEDC Airbus Award for Diversity in Engineering Education. This is the recognition of institute on the global platform for increasing enrollment of girl students and tribal students and also for making them successful and employable through Engineering Education.
6. **Problems encountered & Resources required:** Due to illiteracy and reluctant nature towards the technical education, it is quite difficult to convince these tribal students and parent to opt engineering education.
To overcome this problem institute effectively organizes one to one interaction program in which senior faculties guide tribal students as well as their parents in relevance to their career opportunity.

7. Notes (Optional) Any other information that may be relevant and important to the reader for adopting/ implementing the Best Practice in their institution (about 150 words). : - NIL

Provide web link to:

- Best practices in the Institutional web site
- Any other relevant information