

7.2 Best Practices

Metric No.	
7.2.1	<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, Virtual laboratory, 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; Corsera, 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.

Virtual laboratory from various platforms such as IIT Bombay, Amrita University were utilized to conduct online practical sessions for students for all subject in academics.

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 IITs 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:

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. R world institutional ranking, India today –MDRA best college ranking -2022

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 counselling programs since 2006. In this counselling 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 enrolment of tribal students and their passing percentage are steadily increasing. This is the recognition of institute for increasing enrolment 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

ICT based initiatives in teaching learning



MOOCS

The screenshot shows the Coursera website interface for the R C Patel Institute of Technology, Shirpur Faculty Development Program. The browser address bar displays the URL: coursera.org/programs/r-c-patel-institute-of-technology-shirpur-tf9cl?currentTab=CATALOG. The page features a navigation menu with categories such as Arts and Humanities, Business, Computer Science, Data Science, Information Technology, Health, Math and Logic, and Personal Development. The main banner area contains the text: "Welcome to R C Patel Institute of Technology, Shirpur - Faculty Development Program" and "Start learning on Coursera!". A "Choose program" button is visible below the banner. At the bottom of the page, there are links for "Browse Catalog", "My Courses", and "How it works".

ICT based classroom



VIRTUAL LAB

 <p>Virtual Labs An MHRD Govt of India Initiative</p>	<p>An initiative of Ministry of Human Resource Development under the National Mission on Education through ICT www.vlabs.iitb.ac.in</p>	
<p>Santosh Noronha Chemical Engineering : Healthcare, Educational Tech : Indian Institute of Technology Bombay, Powai, Mumbai, 400 076, India.</p>		<p>noronha@iitb.ac.in (22)25767238 / 25764246 (22)25764227</p>

NCID - 231

VL/MP4/NC231/22

28th January 2022

To,

Dr. Prof. J. B. Patil

R C Patel Institute of Technology, Shirpur

**Near Nimzari Naka, Shahada Road, Shirpur Dist. Dhule (M.S.) Maharashtra, India -
425405,**

Shirpur - 425405, Maharashtra

Dear Sir/Madam,

With reference to your Expression of Interest for Virtual Labs Nodal Centre (VLNC), it gives me immense pleasure to designate your college as a Nodal Centre for Virtual labs. As recommended by you, **Dr. Jagadish Baburao Jadhav** has been nominated as the Nodal Coordinator and **Dr. Prof. D R Patil** has been nominated as the Nodal Technical Coordinator from your college. This approval is valid up to 31st Dec 2022 and is subject to the Terms and Conditions attached and any subsequent directives as issued by MoE.

Kindly acknowledge receipt of this letter and acceptance of the Terms and Conditions.

We thank you again for your interest in the Virtual Labs project and appreciate your endeavour in the service of the student community. Wishing you all the best!

Sincerely,



Prof. Santosh Noronha

QEEE

