

54. Best Practices in Effective Teaching

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Teaching is a noble profession. Teacher builds a good environment. Teacher is mentor for the students and nurture students, become role models. So, teacher should be very effective in teaching. There are certain techniques that will help to improve teaching methods and will try to make lectures and practicals more interesting. These are as follows.

1. Creativity-: Here, teacher should express their teaching through some visual exercise. For example, while describing any topic, he/she should ask the student to do particular activity.
2. Audio/Video mechanisms-: If you teach particular topic by showing Audio /Videos of it, then it is immediately understandable to students. The concept which teacher tries to explain to students is easily captured by students.
3. Brain storming-: Teachers must make brain storming sessions. Teachers should dictate a particular problem and, on that problem, students have to think deeply. These sessions will be a best platform for students to express their thoughts. e.g. Group Discussions

4. Industrial Visits:- Arrange Industrial Visits at least per year for each class that students should understand what is current requirement in industry, what technologies are coming into market in upcoming years.
5. Expert Talks/Guest Lectures:- Arrange expert talks or guest lectures for career opportunities, recent technologies.
6. FDPs/STTPs:- Technologies are changing rapidly. So, teacher should adapt those technologies. For that purpose, faculty members need to attend Faculty Development Programs (FDPs) or Short Term Training Programs (STTPs).After attending these trainings, faculty members need to arrange sessions for their department faculty members on what they learnt in FDPs/STTPs so that knowledge is exchanged in faculty members.
7. Class Environment:- Classrooms should be attractive, clean. In Practical Labs, there should be charts of information of recent technologies, scientist, practical subjects basics
8. Arrange Surprise Tests:- Teachers should arrange surprise tests at any day so that students will be always well prepared for examination at any time.
9. Demo Lecture by students and for students:- Teacher should give topics to students and ask them to prepare particular topic and they have to explain that topic in front of their class students and subject teacher. After

completion of demo lecture by student, teacher should explain what part particular student need to improve. This is very beneficial for students to increase their stage dating and confidence level.

10. MoU's with Industry-: There should be MoU's with Industry so that expertise from particular industry can guide the students.
11. Emphasis on Practical Knowledge-: Most of the time, it happens that students know theory. But if you ask any practical advantage of this theory or real time example on particular topic, they are not able to speak it. So, teachers should take care that while explaining any topic, they should tell the students that this is the real time example of this topic. Companies want practical knowledge. So, focus of teacher is to develop programming skills or practical knowledge of the students.
12. Sessions by Faculty for faculty-: You can reserve particular day and on that day at least 5 faculty members explain their area of interest so that at least other faculty members especially fresher faculty members get some idea about research topic.
13. Practical Examinations-: Practical incharge must conduct practical exams once in a month so that teacher can have an idea about student's understandings.
14. Research Support-; There should be financial support by institutes for research by faculty members. Every faculty

members must publish one paper in reputed Journals/Conferences like ACM, Springer, IEEE etc. Teacher should try for innovative idea so that it will be beneficial for patent creation.

15. Project Based Learning-: Project based learning should be implemented everywhere. The teacher must guide students while choosing particular topic for the project. The project should be beneficial for society also or project should be Company sponsored so that students will get practical experience with company.
16. Each One Place One-: Each one place one Policy means faculty should be mentor of at least 8-10 students. Faculty should have watch on them. Faculty should give assignments, technical knowledge, give aptitude questions and ask them to complete within a deadline and they should tell them what skills they need to improve by giving marks in particular assignment. This activity should run throughout the academic year. It is beneficial from placement point of view.
17. Guardian Faculty Member (GFM)-: GFM's should be allotted per batch of say 18-20v students. Every GFM should monitor their respective batch students about their absenteeism. GFM should inform respective students' parents daily about their wards attendance. Weekly GFM meeting should be arranged for understanding students' problems or their requirements about guest lectures /Expert Talks.

18. Mock Sessions-: Teacher should arrange Mock /Demo interview Sessions for students. For that purpose, teacher should call Industry persons to conduct interviews. These demo interview process should be like actual interview process like Quantitative aptitude, Group Discussions, Technical Aptitude, HR and Personal Interview so that students will be more serious about that interview.
19. Motivate for Certifications-: Teacher should do online certifications, courses etc. Also, teacher should motivate their students to register for online certifications, courses because this is the need of current industry.
20. Apprentiships-: Students must join company and do apprenticeships for say 3-4 months so that he/she should get practical knowledge of recent technologies.
21. Paper Writing-: Faculty should motivate project group members to publish their project paper in reputed Journals/Conferences like ACM, Springer, IEEE etc. For that purpose, all the technical help must be provided by respective project guide.

Above practices should be carefully implemented in institutes so that teaching practice in India will be beneficial for the students.