61. Techniques to Improve Teaching Practices in India

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I would like to share my experience and suggest few methods to improve teaching practice in India.

According to the present scenario of India students are struggling with new concepts in different engineering branches and facing difficulties with the need to use various techniques to solve problems. Above problems and many more are reducing number of students in engineering colleges drastically. Thus, we need to embark on a study to improve our teaching and students' learning. We need to design teaching strategies to support students' development of engineering knowledge and problem solving as well as communication and team working skills.

First, we will discuss the challenges in engineering education field.

1. Many engineering colleges without appropriate facilities, infrastructure and faculties.

2. Quality of students: Many students join the engineering because they are forced to join or they do not join the branch in which they are interested but they join which they could afford.

3. Traditional and monotonous method of teaching which we adopt because we have been taught like that.

4. There is huge difference between what student learn in college and the needs of different industries.

5. Few students have language issues as they all are from different back ground and they lag in their academics not because of cognitive ability but just because of language.

Proposed Idea to improve teaching

1. Need to provide some guide lines to first year students so that they can easily adopt the new environment of engineering college.

2. We need to inculcate few soft skill and personality development trainings in curriculum and as well as we need to keep updating time to time syllabus of different subjects so that we can reduce the gap between our teaching and demand of industries.

3. We should plan our lectures and lab accordingly so that both should cover ame topic of subject simultaneously to make labs more interesting and can easily understand the concept of the subjects.

4. We should provide frequent training to our faculties so that they should be able to keep updating their knowledge.

5. Most important idea is that before joining teaching job

there should be a formal training for the faculties for

a. How to take effective lecture

b. How to conduct lab

c. How to do assessment

Now I would suggest to do research work on idea number 2 and 3 where I have mentioned that we should include effectively one course of soft skill and personality development in curriculum and then should compare the overall effect on the students and learning outcomes.

Then to cover the topic simultaneously in lecture and lab both by using research hypothesis as well as statistical hypothesis. By using traditional method as well as suggested method and taking different data from that. Finally, analysis of the learning outcomes of both methods.

Thus, for a real challenge of improving technical education, we have to make sure that the educational system is truly aware of the psychology of the slow learning student's experience as well as we need to provide appropriate platform to the faculties to keep growing their knowledge and abilities. Presently we are supposed to work in all three dimensions to make our education system most efficient.

We need to Design updated and appropriate curriculum plus development and improvement in the teaching methods.

We should to develop a well-organized technical

education system including course work, evaluation, assessment, training etc.