

ENGLISH TEACHER PLAYS A VITAL ROLE IN ENGINEERING EDUCATION

Dr. R. Sujatha Rani, Professor, R K College of Engineering, Vijayawada, India

Abstract:

In this paper I make clear how English language fluency is playing a vital role in engineering students both in studies and career. To improve academic reports and technical language of students' teacher should be play a vital role at class room. With the intention of a teacher student can improve good communication skills and fluency in English. To give clarity in their presentation an engineering student compulsory improve their language skills. As a part of good language skills engineers should be show good communication skills and technical writing skills. When student communicate clearly with high quality of spoken that reflects well on organization reputation too. Then engineering students can get good employment. So that, an engineer should be need good skills in professional formatting and their presentation.

Key Words: *Communication skills, Technical Writing, employment.*

Introduction

English is an International language. The language is recognized as meant for science and engineering. Engineering field is very competitive and challenging. In engineering, technical words have in their subjects. These technical words are only in English. English is the vehicle for professionals advancing technology today. Through improving language an engineering student gets many opportunities in worldwide. As a part of students' academic improvement, they have to attend seminars, conferences and workshops. Having effective speaking skills in English language could help to make his presentation meaningful and impressive. To present their ideas they have to emphasis on publication in international journals that are mostly in English-language. Having effective vocabulary in their technical writing in English language could help to make their presentation meaningful and impressive. As a part of his employment he has to give inspiration and motivation to his team members. Take an example of this famous inspirational quote from Pinterest, "to the optimist, the glass is half full and to the pessimist, the glass is half empty but to an engineer, the glass is twice as big as it needs be" [Pinterest, Online] an engineering student should be need more inspiration to inspire other members in his team.

As technical students, engineers must be able to communicate. If he has good language his presentation becomes more meaningful and impressive. Communication needs good vocabulary. The vocabulary what a student choose to speak is as important as in his communication. During the exchanging of powerful ideas with effective words can be exchange effectively. Through only in English an engineer could interact easily on the platform, where technology could grow in to fabulous inventions.

As a part of Engineering Education three things are important in engineering student life:

1. Communication Skills
2. Technical Writing
3. Employment

Communication Skills

Engineering students basic need are good communication skills. Their communication skills

development depends on ability of teacher. If a teacher has good communication skills that can help students succeed in both academics and professional life. Improving communication skills of students starts at classroom. Teacher should be provided more opportunities wherever it possible through her oral instructions. If a teacher has poor communication skills and less intention that may causes failure of students to learn and progress in their academics. Lack of good communication skills students' presentation may frequently misunderstand and get frustration. Using few words in English could form an effective meaning in successful communication, which other languages could deliver only through a lengthy vocabulary and highest efforts in communication.

To get successful in communication skills, these are absolutely necessary at engineering education:

1. Along with most important skills in communication: Listening, Speaking, Reading and Writing
2. Straight talking
3. Speaking in Technical English
4. Comprehension
5. Technical Writing
6. Reading and Understanding Technical Publications
7. Non-verbal communication
8. Stress management
9. Emotion control

To improve communication skills English Teachers should be provided for Budding Engineers in Engineering Education:

1. Facilitate classroom conversations, lectures, assess assignments and projects.
2. Provide learning platform to communicate effectively and share ideas with peers.
3. Build their confidence and how communication skills are necessary for job performance and career advancement.
4. Strengthen students' written English communications skills, which can help their projects and share their project results clearly and effectively, and attend competitive exams.
5. Permit to collaborate with teams in his workplace.
6. Support to develop more effective verbal communication skills and enhanced presentation capabilities.

Technical Writing

Engineering Education is a Professional Education. As a professional student, an engineering student needs a good Technical writing in English. They have to convey their ideas, views, observations, instructions; attend tutorials, labs; submit their projects and suggestions; and explain diagrams, sketches, and designs in a more logical and technical manner. They should prepare reports, presentations, documentation, projects etc.

Part and parcel of their profession, Engineers constantly interact not only inside of the country but also they have to interact with international professionals. Using simplest form of technical writing as a tool for their work, they could express their ideas and work in unity to get complete command over the proficiency in work. Their comfortable technical writing helps them to remain in touch with each other without any complicatedness. Engineering students choose in their jobs as scientists, technologists, and engineers etc. If they perfect in their technical writing they can comfortable in their work place. As highly qualified and technical graduates they do not encourage using of any pompous form and waste of others time to understand their vocabulary.

To improve Technical Writing skills English Teachers should be made available for Budding Engineers in Engineering Education:

- First and foremost step is build up students' confidence
- Help them in use correct grammar
- Before start writing, give an idea how to explain the concept
- Give some time to making an outline for quick notes about the topics what he has to cover
- Observe do the students have enough vocabulary to present their content. If not, suggest them to collect at least from either dictionary or online
- Don't over-explain everything give only idea to keep things simple in their own
- Improve prepositional phrases that made simplify their writing that will get a clarity
- Eliminate the filler words and phrases
- Give permission to start sentences with conjunctions.
- Sometimes long and complex sentences are complicated to understand. Keep sentences simple.
- Give time to read aloud at class room that can help determine overly complex sentence needs rewriting.
- The ultimate way to improving writing is Practice more.

Employment

During the job seeking process Engineering students attend placements. At placement, students will be participated in interviews, Group Discussions and debates etc. After protecting their place safe in the job they need good communication skills. At workplace it is necessary to work with groups. Sometimes as a part of their job they have to visit many continents and work with different language people. It is not possible to learn all languages so English proficiency is mandatory for communication. Therefore, being an engineer English language necessitates co-operating with other members in team and communicating with different language and continent people. So, English teacher part is more in Engineering Education. Teachers can help to develop competence spirit in communication. Thus, English language and teacher play an important role in the academic life and career of engineering students.

In systematic communication English is a great language. For that need powerful vocabulary. Using fewer words are important to any communication. These words explain how the person has brevity. The importance of vocabulary in communication is for exchange of information simply and clearly. To complete work early and effectively in every profession good communication is need. It puts together employees in good sense at working atmosphere. To communicate properly through English language, a teacher improves vocabulary strength of students. If a student has vocabulary strength and word power, he can effectively communicate at a work place. In employment he leads a team. As a leader he has to clearly share his ideas with his team members and management which is an important quality of a leader. As a part of his role in his employment he requires team building and leadership qualities. As a leader he must be able to clearly communicate multifaceted ideas and technical project plans. They also need to be strong persuaders to see their designs come to life.

Conclusion

English language need to communicate for self-expression and power-packed expression in making an effective speech. Through language everyone can present their idea with humble and can succeed in their profession. Engineers can get world-wide offers, occupies the highest growth in industries and manage efficiency of the work-force. As a result, English language in Engineering Education became a huge demand for teaching and improving learning quality around the world. Having different languages in India and other parts in the world it is difficult to communicate with people of other region with our vernacular language. Therefore teachers in Engineering Institutions make students can practice at classroom mandatory. Consequently teachers' part is more to improve students' language within less time. To a certain level where students are able to qualify, there Institutions feel that is efficiency of teachers. So, give students to go for extra English module to brush up their English. Now we are in the digital age where

we have to make the software's, use the software and deal with various technologies and Internet. Such measurements are carried out to make sure the students are able to write, listen, and communicate with proficient English in future. As a result teachers' role is very important in improving English language to build strong relationship and better understanding which are so vital in Engineering Education personal and professional life. To be victorious in any field one need to know and understand how to communicate effectively that is the key to unlock the doors of success.

References:

1. Sen, Leena. *Communication Skills*. 2nd ed. New Delhi: PHI Learning Private Ltd, 2009.
2. Allen, W. Stannard. *Living English Structure*. London: Orient Longman, 2000.
3. K. Latha. American International Journal of Research in Humanities, Arts and Social Sciences, 7(2), June-August, 2014.
4. Pinterest. Available at Online. <https://www.pinterest.com/pin/492159065512019573/>
5. Available at Online. <https://innovationatwork.ieee.org/6-benefits-of-english-for-engineering/>
6. Available at Online. <https://www.askiitians.com/iit-jee/article/how-important-is-english-language-fluency-for-engineers.html>