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An Analysis of Speaking Skills for Engineering Students

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ABSTRACT: Communication is a process by which information is exchanged between individuals through a common system of symbols, signs, or gestures. This is the ability to use language and express information effectively. It can divide into two, verbal and Non-verbal communication.

KEYWORDS-speaking,communication,skills,engineering,verbal,non-verbal

I. INTRODUCTION

Goals of Communications

To Inform

To get or give information

To motivate

To get people's attention

To explain

Importance of Communication Skills in Engineers' Life.

Communication skills are very important in Engineers Day to day life.

For an engineer, communication skill is just like oxygen without which he can't survive.

The importance of communication skills starts from their college days which is further carried out in interviews, jobs, and their day-to-day life. [1,2]

As "the engineers design the future" communion is much needed for their survival.

Communication Skills

Self-confidence development

Crack Interview

Good Job Opportunities

Leadership

Marketing Skills



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Presentation Skills

Group Discussion

Earning Self-respect

Research

Group Discussions

For engineers most of the project activities are in groups, and communication skills are important to communicate easily in the group.

Good communication skills can attract the attention of people.

It enables the engineers to share their ideas and explain their thoughts and also to put forward their queries effectively.

Gathering Information and Analyzing

For gathering requirements for the project, an analyst needs to have pure command over the subject as well as be an adequate communicator so that information can be flown.

The same goes for electrical or instrumentation engineers who are supervising large-scale mechanical equipment, if they are not dealt with properly and their usage is not well-known to them, communicating at a low level to their associates might create a problem for them

Crack Interviews

For cracking the interviews communication Skills are very important.[3,4]

communication is an important component for organizational success and it is the interpersonal intra-group organization or external levels.

So the interviewer always looks for engineers who have mastery over communication

During interviews, it's been truly said that " It is you who decides what will be the question asked you by the interviewer"

If you want to get a good job, learn to tell that you are fit and capable of it. If you want your work to get done learn to persuade and please others by talking good communication skills are needed.

Developing Self-Confidence

It is very important to develop the confidence to speak in front of a large crowd.

It does not only involve speaking in front of a large crowd, but it also incorporates the sense of managing the resources alongside effective written skills in order to convey the message to the rest of the public.

Explaining the Presentations

For any business presentation, communication skill helps to explain the presentations.



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Good engineers in business organizations usually spend 75 percent of their daily time on communication through writing, reading, listening, speaking, inter-debate, etc.

It does not matter how good you made the presentation but if you give a poor explanation of the presentation and you risk not only making a bad first impression.

Commercial Activities

So many engineers have the urge to sell their ideas, inventions, and their progress to various companies, and authorities and to get them copyrighted and present their ideas, inventions, and progress report good communication skill is required.[5,6]

Leadership

Leadership is when you cannot get your point across the table, no matter how competent you are, you will not be perceived positively in your profession.

Upon a survey conducted, it was brought to knowledge that more than 50% of the engineering projects that fail are purely due to ineffective people management.

Earning Respect in Society

Power to make the whole world revolve around you also changes the other person's mentality and communication skills we can create a good image in society.

Good Job Opportunities

For good job opportunities and also to grab these opportunities.

It is as important as technical qualifications for youngsters aiming at a bright career

In engineering, the sector goes to hire such candidates who are outstanding in speaking, management, and writing, even if the candidates are ranked average in their academics and have Poor communication skills.

Big companies have to deal with global clients directly through Engineers recruited.

Get Work Done in an Effective Manner

It Important is employers give considerable value to graduates acquiring a diverse set of skills in different work environments.

Other than analytical and problem-solving skills, subject-specific knowledge, research and improved decision-making ability, management skills, understanding of other cultures, confidence, and competence to work in the international environment is considered the most essential qualities for engineers.

Tips to Improve Communication

Slow down your speaking speed.

Think and speak.

Learn to listen.

Try to speak in your own words.



Changing the tone of voice.

Using the right word at the right time.

Make a good introduction

Be confident

Top Engineering Colleges say communication skills are the very important aspects of the engineer's life also Communication skills are much needed in the 21st century to survive in the day-to-day life of an engineer and Without good communication, an engineer is just like a computer without operating system so Along with knowledge, communication is the path that leads to success.

II. DISCUSSION

Here Are a Five Key Strategies That Engineers Can Use to Improve Their Communication Skills:

1. Practice Active Listening

Pay attention to what the other person is saying and ask clarifying questions to ensure that you understand their perspective.

2. Use Clear, Concise Language

Avoid technical jargon and use simple language to explain complex concepts.[7]

3. Use Visual Aids

Diagrams, charts, and other visual aids can help make technical information more accessible and easier to understand.

4. Be Aware of Your Audience

Consider the level of technical knowledge of the people you are communicating with and adjust your language and explanations accordingly.

5. Use Analogies

Using comparisons to familiar concepts can help to make complex ideas more relatable and easier to understand.

Effective communication is essential for engineers to be able to work effectively with colleagues, clients, and stakeholders. By developing strong communication skills, engineers can more effectively share their ideas and collaborate with others to find solutions to complex problems. So working with a writing service will benefit you as it saves time and provides access to a large number of resources, ensuring that engineering students buy written essays that enhance their knowledge and understanding of their field.

III. RESULTS

Since the end of World War II, English has become the established language of scholarly communication. It's recognized as the international language of science and engineering. Academic reward structures in many countries place great emphasis on publication in international journals that are mostly English-language. As technology

advances globally, engineers must be able to communicate across national and cultural boundaries, and English is the vehicle for professionals advancing technology today.

It makes sense, then, that improving your ability to speak, read and write in English can affect research, collaboration, instruction and ultimately, overall success.

There is online training to enhance communication skills across four dynamic and interactive modules:

- Speaking in Technical English
- Listening and Comprehension
- Technical Writing
- Reading and Understanding Technical Publications

New students will take a placement exam to assess and guide level selection: Introductory, Intermediate, or Advanced. They'll advance through lessons individually and receive feedback on their progress. Then, upon successful completion of each skill level, students receive CEUs/PDHs for professional licenses.

6 Benefits of English for Engineers

1. Learn to communicate effectively and share ideas with colleagues.
2. Strengthen your written English communications skills, which can help authors and researchers effectively share their research results.
3. Enable greater collaboration with global research teams.
4. Learn to communicate effectively, lead classroom conversations and lectures, and assess assignments and projects.
5. Build confidence and the necessary communication skills for job performance and career advancement.
6. Develop more effective verbal communication skills and enhanced presentation capabilities.[5,7]

IV. CONCLUSIONS

Communication is a fundamental element of people's life. It became an accomplishment in every business. An aspirant can aspire for goals and achieve goals when he/she has a good command over communication skills. The central idea of communication is to convey clearly and unambiguously. Communication becomes effective and successful only when the beneficiary gets the similar message as preferred by the sender. Communication includes the basic four skills viz. listening, speaking, reading, and writing. English being a universal language, communicating easily in English has become the most requisite for those who seek to shine well in the professional as well as academic domain. Engineering is one of the leading fields of learning in the world and. But it is experiential; though the students are technically superior they are in dire need of effective communication skills which decide their job opportunity in MNCs. The focus of this research paper is on listening as receptive skill and speaking as productive skill, which are simultaneously used in the process of communication. The researcher is a staff in Engineering College teaching Communication Skills.

Thus, the researcher was instigated to be responsible for their poor communication and discuss its importance and types of listening and speaking skills.[7]

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